PROJECT MANUAL

PRE-BID SITE VISIT SCHEDULED

ON OCTOBER 17, 2025
SEE ADVERTISEMENT FOR BIDS INSIDE

PROJECT NO. Q1894-C

CONSTRUCTION WORK

RENOVATE 70 BEDROOM UNITS, HARDEN WALLS
FINGER LAKES RESIDENTIAL CENTER
250 AUBURN RD
LANSING, NY

DECEMBER 24, 2024

KATHY HOCHUL
Governor

JEANETTE M. MOY
Commissioner

NEW YORK STATE | Office of General Services

PROJECT NO. Q1894-C

CONSTRUCTION WORK

RENOVATE 70 BEDROOM UNITS, HARDEN WALLS

FINGER LAKES RESIDENTIAL CENTER
250 AUBURN RD
LANSING, NY

24 DECEMBER 2024

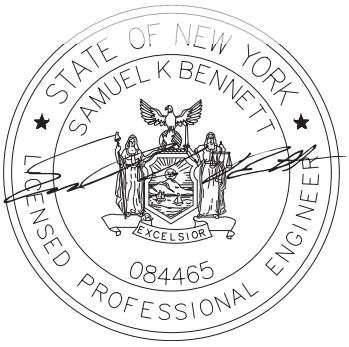
CLIENT: Office of Children and Family Services

PROJECT TEAM LEADER: Tanya Thorne

PREPARED BY

CHA Solutions, Inc.
3 Winners Circle
Albany, New York 12205
Certificate of Authorization # 018342

PREPARED FOR
State of New York
Office of General Services
35th Floor, Corning Tower
The Governor Nelson A. Rockefeller
Empire State Plaza
Albany, NY 12242
Phone (518) 474-0203
FAX (518) 473-7862

Affix Seal Registration Expiration Date **31 JANUARY 2027**	Affix Seal Registration Expiration Date 12/31/2025
Affix Seal  Registration Expiration Date 04/30/2027	Affix Seal Registration Expiration Date

NOTE:….THE OFFICE OF GENERAL SERVICES REQUIRES GOOD FAITH EFFORTS ON THE PART OF ITS CONTRACTORS TO SOLICIT AND OBTAIN THE PARTICIPATION OF MINORITIES AND WOMEN AS SUBCONTRACTORS, AND EMPLOYEES IN ITS PROGRAMS.

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A. The Contract Drawings, which accompany this Project Manual and form a part of the Contract Documents, are listed on the Title Sheet of the Drawings.

B. The drawings for related contracts are listed on the Title Sheet for reference only. Examine the drawings for related contracts to ascertain the relationship of the Work to the related contracts.

END OF LIST

ADVERTISEMENT FOR BIDS

Sealed bids for Project Nos. Q1894-C, Q1894-H, Q1894-P, and Q1894-E, comprising separate contracts for Construction Work, HVAC Work, Plumbing Work, and Electrical Work, Renovate 70 Bedroom Units, Harden Walls, Finger Lakes Residential Center, 250 Auburn Road, Lansing (Tompkins County), NY, will be received by the Office of General Services (OGS), Design & Construction Group (D&C), Division of Contract Management, 35th Fl., Corning Tower, Empire State Plaza, Albany, NY 12242, on behalf of the Office of Children and Family Services, until 2:00 p.m. on Wednesday, October 29, 2025, when they will be publicly opened and read. Each bid must be prepared and submitted in accordance with the Instructions to Bidders and must be accompanied by a bid security (i.e. certified check, bank check, or bid bond in the amount of $122,600 for C, $23,800 for H, $29,200 for P, and $55,900 for E).

All successful bidders will be required to furnish a Performance Bond and a Labor and Material Bond pursuant to Sections 136 and 137 of the State Finance Law, each for 100% of the amount of the Contract estimated to be between $4,000,000 and $5,000,000 for C, between $500,000 and $1,000,000 for H, between $500,000 and $1,000,000 for P, and between $1,000,000 and $2,000,000 for E.

Pursuant to State Finance Law §§139-j and 139-k, this solicitation includes and imposes certain restrictions on communications between OGS D&C and a bidder during the procurement process. A bidder is restricted from making contacts from the earliest posting on the OGS website, in a newspaper of general circulation, or in the Contract Reporter, of written notice, advertisement or solicitation of offers, through final award and approval of the contract by OGS D&C and the Office of the State Comptroller ("Restricted Period") to other than designated staff, unless it is a contact that is included among certain statutory exceptions set forth in State Finance Law §139-j(3)(a). Designated staff are Catherine Skaczkowski, Jessica Hoffman, and Pierre Alric in the Division of Contract Management, telephone (518) 474-0203, fax (518) 473-7862. OGS D&C employees are also required to obtain certain information when contacted during the restricted period and to make a determination of the responsibility of the bidder pursuant to these two statutes. Certain findings of non-responsibility can result in rejection for contract award and in the event of two findings within a four-year period, the bidder is debarred from obtaining governmental Procurement Contracts. Bidders responding to this Advertisement must familiarize themselves with the State Finance Law requirements and will be expected to affirm that they understand and agree to comply on the bid form. Further information about these requirements can be found within the project manual or at: https://ogs.ny.gov/ACPL/

Pursuant to Public Buildings Law § 8(6), effective January 11, 2020, for any projects where the project design commenced on or after January 1, 2020 and for any contracts over $5,000 for the work of construction, reconstruction, alteration, repair, or improvement of any State building, a responsible and reliable NYS-certified Minority or Women-Owned Business Enterprise that submits a bid within ten percent of the lowest bid will be deemed the apparent low bidder provided that the bid is $1,680,923 or less, adjusted annually for inflation as of March 1, 2025. If more than one responsible and reliable MWBE firm meets these requirements, the MWBE firm with the lowest bid will be deemed the apparent low bidder.

___Project commenced design before January 1, 2020. Not subject to provision.
XX Project commenced design on or after January 1, 2020. Subject to provision.

The substantial completion date for this project is 588 days after the Agreement is approved by the Comptroller.

The only time prospective bidders will be allowed to visit the job site to take field measurements and examine existing conditions of the project area will be at 9:00 a.m. on October 17, 2025, at Finger Lakes Residential Center, 250 Auburn Road, Lansing, NY. Prospective bidders are urged, but not mandated, to visit the site at this time. Prospective bidders or their representatives attending the pre-bid site visit will not be admitted on facility grounds without proper photo identification. Note that parking restrictions and security provisions will apply, and all vehicles will be subject to search. Refer to Document 002218 for any additional requirements for attendance at the pre-bid site visit.

Phone the office of Lance Finnerty (607-481-8793) a minimum of 48 hours in advance of the date to provide the names of those who will attend the pre-bid site visit. Only contractors that schedule a visit at least 48 hours in advance will be allowed to participate in the pre-bid site visit.

Pursuant to New York State Executive Law Article 15-A and the rules and regulations promulgated thereunder, OGS is required to promote opportunities for the maximum feasible participation of New York State-certified Minority and Women-owned Business Enterprises ("MWBEs") and the employment of minority group members and women in the performance of OGS contracts. All bidders are expected to cooperate in implementing this policy. OGS hereby establishes an overall goal of 30% for MWBE participation, 15% for Minority-Owned Business Enterprises ("MBE") participation and 15% for Women-Owned Business Enterprises ("WBE") participation (based on the current availability of qualified MBEs and WBEs). The total contract goal can be obtained by utilizing any combination of MBE and /or WBE participation for subcontracting and supplies acquired under this Contract. Trades with 0% goals are encouraged to make "good faith efforts" to promote and assist in the participation of MWBEs on the Contract for the provision of services and materials.

Article 3 of the Veteran's Services Law provides for more meaningful participation in public procurement by certified Service-Disabled Veteran-Owned Businesses ("SDVOBs"). Bidders are expected to consider SDVOBs in the fulfillment of the requirements of the Contract. Such participation may be as subcontractors or suppliers, as protégés, or in other partnering or supporting roles. OGS hereby establishes overall goals for SDVOBs' participation under this contract as follows: 6% for the C trade contractor, 3% for the E trade contractor, 3% for the H trade contractor, and 3% for the P trade contractor, based on the current availability of qualified SDVOBs. Trades with 0% goals are encouraged to make "good faith efforts" to promote and assist in the participation of SDVOBs on the Contract for the provision of services and materials.

The Office of General Services reserves the right to reject any or all bids.

The Bidding and Contract Documents for this Project are available for viewing, downloading, and Electronic Bidding from OGS Design & Construction's Electronic Bidding service, Bid Express.

Registration along with viewing, downloading, and electronic bidding can be accessed at the following link: **http://www.bidexpress.com**

For questions about downloading of bid documents, please send an e-mail to **support@bidexpress.com**, or call the Bid Express toll-free number at (888) 352-2439.

For all other questions, please send an email to **DCPlans@ogs.ny.gov**, or call (518) 474-0203.

For additional information on this project, please use the link below and then click on the project number:

https://online.ogs.ny.gov/dnc/contractorConsultant/esb/ESBPlansAvailableIndex.asp.

OGS Design & Construction Group

END OF INFORMATION

DOCUMENT 002113

INSTRUCTIONS TO BIDDERS

1. EXAMINATION OF DOCUMENTS

1.1. Carefully examine and be familiar with the Bidding and Contract Documents.

1.2. Examine information concerning subsurface or other latent physical conditions. It is presented in good faith but is not intended as a substitute for personal investigation, interpretations, or judgment of the Contractor.

2. VISIT TO THE SITE

2.1. For projects that include Document 002218, visit the Site of the Work prior to submitting your bid. Refer to the Advertisement for Bids for any special instructions.

2.2. Become familiar with restrictions and regulations established by the facility. Existing restrictions and regulations will not be considered as grounds for any additional cost over the Contract sum.

2.3. Assume the risk of encountering any subsurface or other latent physical condition that can be reasonably anticipated on the basis of documentary information provided by the State and from inspection and examination of the Site.

2.4. Interpretations of contract documents by facility personnel are not binding.

3. DESIGNATED, PERMISSIBLE, IMPERMISSIBLE CONTACTS AND QUESTIONS

3.1. The designated contacts during the restricted period for this procurement will be:

- Catherine Skaczkowski, Contract Awards Unit, telephone – (518) 474-0203, fax – (518) 473-7862
- Jessica Hoffman, Assistant Director, Contract Management, telephone – (518) 474-0203
- Pierre Alric, Director, Contract Management, telephone – (518) 474-0201

3.2. State Finance Law §139-j recognizes a series of permissible contacts that can go to other than the designated contacts, as follows:

3.2.1. The submission of written proposals in response to a request for proposals, invitation for bids or any other method for soliciting a response from offerers intending to result in a procurement contract.

3.2.2. The submission of written questions to a designated contact set forth in a request for proposals, or invitation for bids, or any other method for soliciting a response from offerers intending to result in a procurement contract, when all written questions and responses are to be disseminated to all offerers who have expressed an interest in the request for proposals, or invitation for bids, or any other method for soliciting a response from offerers intending to result in a procurement contract.

3.2.3. Participation in a conference provided for in a request for proposals, invitation for bids, or any other method for soliciting a response from offerers intending to result in the procurement contract.

3.2.4. Complaints by an offerer regarding the failure of the person or persons designated by the procuring governmental entity pursuant to this section to respond in a timely manner to authorized offerer contacts made in writing to the office of general counsel of the procuring governmental entity, provided that any such written complaints shall become a part of the procurement record.

3.2.5. Offerers who have been tentatively awarded a contract and are engaged in communication with a governmental entity solely for the purpose of negotiating the terms of the procurement contract after being notified of tentative award.

3.2.6. Contacts between designated governmental staff of the procuring governmental entity and an offerer to request the review of a procurement contract award.

3.2.7. Contacts by offerers in protests, appeals or other review proceedings (including the apparent successful bidder or proposer and his or her representatives) before the governmental entity conducting the procurement seeking a final administrative determination, or in a subsequent judicial proceeding.

3.2.8. Complaints of alleged improper conduct in a governmental procurement to the attorney general, inspector general, district attorney, or court of competent jurisdiction.

3.2.9. Written protests, appeals, or complaints to the New York State Office of the State Comptroller (OSC) during the process of contract approval, where OSC's approval is required by law, and where such communications and any response thereto are made in writing and shall be entered in the procurement record pursuant to §163 of the State Finance Law.

3.2.10. Complaints of alleged improper conduct in a governmental procurement conducted by a municipal agency or local legislative body to OSC's office.

3.2.11. Permissible Contacts are only with the procuring agency unless specifically excepted.

3.3. Impermissible contacts include those that a reasonable person would infer are intended to influence a governmental procurement and occur during the restricted period of a governmental procurement between the offerer and any member, officer or employee of any governmental entity; provided, however, that nothing in this section shall be deemed to prohibit an offerer from communicating with a member of the state legislature or legislative staff about a governmental procurement. Contacting a person or entity other than the designated contact person during the restricted period, when such contact does not fall within one of the exemptions, is also an impermissible contact.

Direct all questions regarding the intent or meaning of the drawings or specifications to the Office of General Services (OGS) website at:

https://online.ogs.ny.gov/dnc/contractorConsultant/esb/esbplansavailableindex.asp

From this web page, first click on the project number link, then on the **Review/Submit Bid Questions** link, and then submit the question for the appropriate trade. All responses to appropriate pre-bid inquiries will be communicated via the OGS website. Those inquiries resulting in clarification and or changes to the bid documents will be communicated by Addenda to all persons who have obtained drawings and specifications.

3.4. Pre-bid inquiries answered by means other than Addenda will not be binding.

4. PREPARATION OF BIDS

4.1. **For electronic bids**: Prepare and submit bid using OGS Design & Construction's Electronic Bidding service, Bid Express®. Registration along with viewing, downloading, and electronic bidding can be accessed at the following website: http://www.bidexpress.com.

4.1.1. Prepare each bid on the official form furnished by the State within the Bid Express® website. Fill in all blank spaces. An incomplete entry may disqualify the bid in its entirety. No post bid meetings will be afforded to any bidder to explain or clarify an incomplete bid or entry omission(s).

4.1.2. Bidders must be registered with Bid Express® in advance. Bidders not previously registered with Bid Express® must complete a one-time registration for a user account. There is no cost to register, to view/download bid documents, or to submit a bid. Vendors can select 'Pay per solicitation (non-member)' when registering.

4.1.3. Bid Security is required in accordance with the BID SECURITY INFORMATION section within this document. Bidders must be registered with a Bid Express® approved bonding service in advance. Bidders not already registered must register with a Bid Express® approved bonding service, and shall refer to the instructions contained in the BID SECURITY INFORMATION section within this document.

4.1.4. Bidders must establish an Infotech® Digital ID in advance. The Infotech® Digital ID application process may take up to seven business days to complete. Refer to http://www.bidexpress.com for guidance on the application for and installation of Digital IDs. The Digital ID is an electronic tool that allows users to digitally sign bids, contracts, and forms. Digital IDs are used as part of a secure method of maintaining confidentiality and identity verification within the Bid Express® service.

4.2. **For paper bids**: Prepare each bid on the official form furnished by the State.

4.2.1. Make no erasures, cross-outs, whiteouts, write-overs, obliterations, or changes of any kind in the Bid Form phraseology, in the entry of unit prices, or anywhere on the Bid Form.

4.2.2. Fill in all blank spaces legibly. An illegible entry may disqualify the bid in its entirety. If a mistake is made, use a new Bid Form. No post bid meetings will be afforded to any bidder to explain or clarify illegible or changed entries.

4.2.3. Sign the Bid Form in the space provided. An officer or a principal of a corporation or a partnership signing for the bidder shall print or type the legal name of the person, partnership, or corporation on the line provided and place his/her signature after "SIGN BID HERE". The same procedure shall apply to the bid of joint venture by two or more firms, except that the signature and title of an officer or a principal of each member firm of the joint venture shall be required. All signatures must be original. Mechanically reproduced signatures, stamps, or copies are not acceptable. Submitted Bid Forms that do not conform to these requirements will be disqualified.

4.3. For paper or electronic bids, if the Project Manual contains Section 012300 - Alternates, indicate the amounts to be added to or deducted from the base bid in the spaces provided on the Bid Form. If the Work is to be performed at no change in cost, indicate "0". Any bid which fails to indicate an amount for each alternate will be held to be informal and may be rejected.

4.4. For paper or electronic bids, note in the space designated on the Bid Form, each Addenda by numbers, which have been issued.

4.4.1. For paper bids: If no Addenda have been issued, insert the word "NONE" in the space designated on the Bid Form.

4.5. For paper or electronic bids, all contractors submitting bids on public work projects are required to register with the New York State Department of Labor (NYSDOL) under Labor Law Section 220-i. The registration number must be entered in the space provided on the Bid Form. A complete and accurate registration number must be entered in the space provided on the Bid Form. Failure to possess an active and verifiable registration at the time of bid will result in disqualification of the bid.

4.6. All bidders must complete a form DCA-3 – ***Offerer Disclosure of Prior Non-Responsibility Determinations*** and submit it with their Bid.

4.6.1. For electronic bids: Complete and submit form DCA-3 within the Bid Express® website. Fill in all blank spaces.

4.6.2. For paper bids: Complete paper form DCA-3 and include it with the Bid Form. Fill in all blank spaces.

4.7. All bids, regardless of dollar value, must include the cost of Labor and Material and Performance Bonds.

5. BID SECURITY INFORMATION

5.1. Bid security is required as a guarantee that the bidder will enter into the Contract and furnish a satisfactory Performance Bond and Labor and Material Bond within the time specified on the Bid Form. Submit bid security in the amount indicated in the Advertisement for Bids in one of the following forms:

5.1.1. Certified check or bank check drawn upon a legally incorporated bank or trust company (payable to the Office of General Services).

5.1.2. Bid Bond on OGS Form 004313 to be issued by a Surety licensed in the State of New York.

5.1.2.1. **For electronic bids**: Electronic bid bond furnished by a Bid Express® approved bonding service is required for an Electronic Bid. Vendors must be registered with a Bid Express® approved bonding service. Refer to http://www.bidexpress.com for guidance and registration information. Vendors not already registered must complete a one-time registration with a Bid Express® approved bonding service. At the time of this publication, the Bid Express® approved bonding services are Tinubu at

https://www.tinubu.com, or Surety2000 at https://surety2000.com. Allow sufficient time for account registration and bond processing prior to the bid due date noted in the Advertisement for Bids.

5.1.2.2. **For paper bids:** Sign the bid bond in the space provided. An officer or a principal of a corporation or a partnership signing for the bidder shall print or type the legal name of the person, partnership, or corporation on the line provided and place his/her signature above "Principal". The same procedure shall apply to the bid security of a joint venture by two or more firms, except that the signature and title of an officer or a principal of each member firm of the joint venture shall be required. The same procedure shall apply to the signature for the Attorney-in-Fact. All signatures must be original. Electronic, mechanically-reproduced or stamped signatures, or copies, are not acceptable for either signature. Submitted Bid Security that does not conform to these requirements will be disqualified

5.2. Upon submission of a certified check or bank check, the bid security of the successful bidder will be returned (check issued by OSC) pending acceptance of the required bonds and the execution of Contract. The second low bidder's bid security will be returned after the successful bidder executes the Contract or with the submission of an approved Substitute Bid Bond on the Design and Construction form. The bid security of all other bidders with a bid security in the form of checks will be returned as soon as possible after the apparent low bidder has been determined.

5.3. Bid Bonds submitted as bid security will not be automatically returned to the bidder. Firms requesting to have bonds returned may do so in writing provided they are not the first or second low bidder prior to award. Only those requests made in writing, directed to the Contract Awards Unit, shall be considered for return.

6. SUBMISSION OF BID

6.1. Do not submit both electronic and paper bids. If both an electronic bid from Bid Express® and a paper bid are received from the same contractor, the electronic bid from Bid Express® will prevail, and the paper bid(s) will be disqualified.

6.2. Submit Bid Form, Bid Security and Form DCA-3 – ***Offerer Disclosure of Prior Non-Responsibility Determinations.***

6.2.1. **For electronic bids**: Complete and submit within Bid Express®.

6.2.1.1. Within Bid Express®, select the procurement from the 'Solicitations' tab and click 'Select For Bidding'. Fill in all blank spaces.

6.2.1.2. In accordance with the BID SECURITY INFORMATION section contained within this document, coordinate with a Surety Agent to obtain a Bond ID from one of the Bid Express® approved bonding services. Refer to the instructions in the BID SECURITY INFORMATION section of this document. Complete the Bid Bond information section within Bid Express® and click 'Verify Bid Bond'. Failure to submit a valid Bond ID from an approved electronic bonding service for a bond of the specified value may result in automatic bid disqualification.

6.2.1.3. Click 'Check Bid' and resolve any errors. Click 'Submit Bid'. Sign the electronic bid form using a Bid Express® approved digital ID by clicking 'Submit Bid'.

6.2.2. **For paper bids:** Provide bid in a sealed envelope addressed to:

NYS Office of General Services – Design & Construction Group, Division of Contract Management, Contract Awards Unit, 35th Floor, Corning Tower, Albany, NY 12242

Exterior of sealed envelope shall include the words "SEALED BID ENCLOSED", Project Number and Trade Designation of Bid, Bid Due Date, Company Name, Address and Federal ID Number.

6.2.3. Telephone, email, fax, or electronic bids other than electronic bids submitted within Bid Express® will not be accepted.

6.3. All bids must be received before the time specified, and at the place designated for the receipt of bids.

6.4. Late Bids:

6.4.1. Electronic bids cannot be accepted after the due date and time.

6.4.2. Paper bids received after the due date and time will be returned unopened with notification of the reason for its refusal.

6.4.3. A late paper bid will be considered if: (1) its arrival at the place designated after the time specified can be shown by documentary or other proofs to be due to mishandling by OGS and (2) that absent such mishandling, the bid would have arrived timely. Delays in the mail or any other means of transmittal, including couriers or agents of the State, other than employees of OGS will not suffice to excuse late arrival of the bid.

7. MODIFICATION OF BID

7.1. Bid Modifications By Amendment:

7.1.1. **For Modification to Electronic Bids:** Electronic bids may be modified on Bid Express® up to the deadline for receipt of bids. To modify your bid, access your bid in Bid Express®, modify applicable component(s), select Submit Bid to update the bid. Refer to the Submission Status to confirm the Last Submitted date and time. Only the submitted bid will be considered.

7.1.2. **For Modification to Paper Bids:** Modifications by amendment will only be considered on condition that the amendment arrives before the time specified and at the place designated for receipt of bids, and

7.1.2.1. The amendment is in writing and executed by a principal of the bidder firm, and

7.1.2.2. The bid, as amended, conforms in all respects with the Contract Documents. Bidders may mail or fax their bid modifications. Fax bid modifications to (518) 473-7862. Bidders may use a bid modification to acknowledge addenda and/or change the bid amount. Bid modifications received by fax must be on company letterhead and signed by a principal of the bidder firm. DO NOT use the OGS Bid Form to submit bid modifications by fax. Indicate any amounts to be added to or deducted from any part of the bid amount with the words "ADD" or "DEDUCT" next to the amount. The only amounts listed on a faxed bid modification should be the amounts to be added or deducted. **DO NOT expose the new bid amount on the faxed bid modification.** If the bid amount is shown on the faxed bid modification, or otherwise exposed at any time before the bid opening, the bid will be disqualified.

8. WITHDRAWAL OF BID

8.1. A bid may be withdrawn at any time prior to the time specified for receipt of bids.

8.1.1. For electronic bids, bidders can withdraw their bids on Bid Express® up to the time specified for receipt of bids.

8.1.2. For paper bids, should a bidder decide to withdraw its bid before the bid opening, the request must be prepared on company letterhead, signed by a principal of the bidder firm, and faxed to (518) 473-7862, or hand-delivered or mailed to the Contract Awards Unit at the place designated for receipt of bids. OGS will e-mail an acknowledgment of the withdrawal request that includes an indication that the unopened bid will be returned. Should the withdrawal request be in error, the bidder must call the Contract Awards Unit at (518) 474-0203 immediately. The unopened bid will be returned by mail to the bidder.

8.2. Not more than 7 calendar days after the bid opening or a scheduled pre-award meeting, whichever comes later, a low bidder may request the withdrawal of its bid based on a mistake. The request must be submitted via certified or registered mail to the address in Paragraph 6.2.2 of these Instructions to Bidders. The Contracting Officer may conduct or have conducted on his/her behalf a fact-finding proceeding to develop information concerning the request for withdrawal. A request for withdrawal of a bid made after the specified number of days allowed shall result in forfeiture of the bid security.

8.3. Following a timely request for withdrawal of a bid, the bid security will be returned if the bidder establishes by credible evidence, including original documents when requested, the following:

8.3.1. An error, clerical as opposed to judgmental in nature and verifiable by written evidence, occurred in the computation of the bid,

8.3.2. The error constitutes either an unintentional and substantial computational error or an unintentional omission of a substantial quantity of labor and/or material from the final bid computation,

8.3.3. The absence of gross negligence in the preparation of the bid. For the purposes of this subparagraph, gross negligence may include,

i) the apparent failure of a bidder to account for two or more categories (divisions) of work,

ii) the use of multiple erroneous quotations from subcontractors or suppliers,

iii) submission to the Contracting Officer of a bid withdrawal request within the preceding six (6) months.

8.4. If the bidder fails to meet its burden of proof, the request to withdraw without penalty shall be denied and its bid security will be forfeited and become the property of the State. The decision of the Contracting Officer shall be final and conclusive.

8.5. Once a request to withdraw is made, the bidder is ineligible for award. The Contracting Officer shall continue to progress the award process considering only the remaining bids.

9. DISQUALIFICATION

9.1. Any bid which fails to conform to the requirements of the Bidding and Contract Documents may be rejected.

9.2. The Commissioner may waive any informality or afford the bidder an opportunity to remedy any deficiency resulting from a minor informality or irregularity.

9.3. The State reserves the right to disqualify bidders, before or after bid opening, upon evidence of collusion with third parties or other illegal practices upon the part of the bidder.

9.4. Bidders may review the list of common Bid Informalities and Bid Disqualifications at:

https://online.ogs.ny.gov/dnc/contractorConsultant/esb/informalitylist.asp

10. GOVERNING LAWS AND REGULATIONS ADMINISTERED BY OTHER DEPARTMENTS

10.1. Taxes: All taxes pertaining to the Work must be paid. Address inquiries regarding taxes to the Tax Collecting Agency. For information regarding sales and use taxes contact the Sales Tax Bureau, Department of Taxation and Finance.

10.2. While all applicable laws, rules and regulations of the State of New York are incorporated by reference in this Contract, take special note of the provisions of the Labor Law and Industrial Code Rule 23 relative to the safety of workers and of persons lawfully occupying or using the premises. Address inquiries regarding labor law provisions to the New York State Department of Labor.

10.3. Anti-Discrimination Clause: Discrimination against any employee or applicant for employment because of race, creed, color, national origin, sex, age, disability, or marital status is prohibited.

11. OPENING OF BIDS

Bids will be opened as announced in the Advertisement for Bids.

12. DETERMINATION OF CONTRACTOR'S RESPONSIBILITY

12.1. The State Public Buildings Law requires that contracts for public work in the State of New York be awarded to the lowest responsible and reliable bidders as will best promote the public interest.

12.2. Each apparent low bidder, and each proposed subcontractor (for subcontract work of $100,000 or more) will be required to submit form CCA-2 - ***New York State Vendor Responsibility Questionnaire For Profit Construction*** prior to contract award or subcontractor approval. OGS reserves the right to request CCA-2 forms from proposed subcontractors for work of less than $100,000 if it is determined to be in the best interest of the State. Submission of these forms will assist the State in determining the responsibility and reliability of the vendor.

OGS recommends that vendors file the required CCA-2 form online via the New York State VendRep System. Use of this system requires that the vendor have a New York State Vendor Identification Number (Vendor ID). Please note that the Vendor ID is not the Taxpayer ID number.

If bidders do not already have a Vendor ID, they are encouraged to obtain one ***in advance of*** the bid opening.

To obtain a Vendor ID, contact the OSC Help Desk at 866-370-4672 or 518-408-4672, or by e-mail at ITServiceDesk@osc.state.ny.us.

To enroll in and use the VendRep System, see the **VendRep System** page at:

http://www.osc.state.ny.us./vendrep/info_vrsystem.htm

If you already have a User ID and password, go directly to the VendRep System online at:

https://www.osc.state.ny.us/state-vendors/vendrep/file-your-vendor-responsibility-questionnaire For direct VendRep System user assistance, contact the OSC Help Desk; the help desk phone numbers and e-mail address are shown above.

Vendors opting to file a paper questionnaire can obtain the appropriate questionnaire from the VendRep website at http://www.osc.state.ny.us/vendrep/forms_vendor.htm or may telephone the OSC Help Desk.

12.3. After the bids are opened, the apparent low bidder shall complete and file the CCA-2 within 5 days. Vendors using the online system may certify (or recertify) and file the CCA-2 electronically via the VendRep System https://www.osc.state.ny.us/state-vendors/vendrep/file-your-vendor-responsibility-questionnaire

12.4. It is recommended that all bidders become familiar in advance with all of the requirements of the CCA-2. As mentioned in 12.2, bidders who do not have a Vendor ID are encouraged to obtain one in advance of the bid opening.

12.5. All bidders must submit a completed form DCA-3 - ***Offerer Disclosure of Prior Non-Responsibility Determinations*** along with their Bid Form.

12.6. The determination of responsibility will include a review to ensure the Contractor has not knowingly and willfully violated the provisions of the Procurement Lobby Law or New York State Finance Law §139-j and §139-k.

12.7. New York State Finance Law §139-k (2) obligates a Governmental Entity to obtain specific information regarding prior non-responsibility determinations. This information must be collected in addition to the information that is separately obtained pursuant to State Finance Law §163(9). In accordance with State Finance Law §139-k, a Contractor must be asked to disclose whether there has been a finding of non-responsibility made within the previous four (4) years by any Governmental Entity due to: (a) a violation of State Finance Law §139-j or (b) the intentional provision of false or incomplete information to a Governmental Entity.

12.8. As part of its responsibility determination, State Finance Law §139-k(3) mandates consideration of whether a Contractor fails to timely disclose accurate or complete information regarding the above non-responsibility determination. In accordance with law, no procurement contract shall be awarded to any Contractor that fails to timely disclose accurate or complete information under this section, unless a finding is made that the award of the Procurement Contract to the Offerer is necessary to protect public property or public health safety, and that the Offerer is the only source capable of supplying the required Article of Procurement within the necessary time frame.

13. AWARD OF CONTRACT

13.1. The Contract may be awarded to the lowest responsible and reliable bidder as will best promote the public interest.

13.2. If alternates are included in the bidding documents, the State reserves the right to accept or reject any or all alternates. The State shall determine the lowest bid by adding to or deducting, from the Base Bid Amount of the bidders, the additive or deductive alternates, if any, that the State elects to accept after the opening of the bids. Alternates will be accepted in the order they are set forth in the contract documents.

13.3. The State reserves the right to reject any or all bids, and advertise for new bids, if in its opinion the best interest of the State will thereby be promoted. In the event that all bids are rejected, each bidder will be so notified.

13.4. A bidder may withdraw its bid if no award is made within forty-five (45) days after the receipt of bids. A written notice must be submitted via certified or registered mail to the address in Paragraph 6.2.2 of these Instructions to Bidders prior to approval of the contract by OSC. The notice must clearly state that the withdrawal is based on the fact that the contract was not awarded within 45 days after the receipt of bids.

13.5. Pursuant to Public Buildings Law § 8(6), effective January 11, 2020, for any projects where the project design commenced on or after January 1, 2020 and for any contracts over $5,000 for the work of construction, reconstruction, alteration, repair, or improvement of any State building, a responsible and reliable NYS-certified Minority or Women-Owned Business Enterprise ("MWBE") that submits a bid within ten percent of the lowest bid will be deemed the apparent low bidder provided that the MWBE bid is $1,680,923 or less, adjusted annually for inflation as of March 1, 2025. If more than one responsible or reliable NYS-certified MWBE firm meets these requirements, the MWBE firm with the lowest bid will be deemed the apparent low bidder. Refer to the Advertisement for Bids for applicability of projects subject to this criteria.

14. MINORITY- AND WOMEN-OWNED BUSINESS ENTERPRISES

14.1. Pursuant to New York State Executive Law Article 15-A and the rules and regulations promulgated thereunder, OGS is required to promote opportunities for the maximum feasible participation of NYS-certified Minority- and Women-owned Business Enterprises and the employment of minority group members and women in the performance of OGS contracts.

14.2. Information on the availability of subcontractors and suppliers for this project may be accessed by first using the following website link:

https://online.ogs.ny.gov/dnc/contractorConsultant/esb/esbplansavailableindex.asp

From this web page, first click on the project number link, then on Interested Subcontractors and Suppliers, and follow the prompts. A list of all interested vendors will be provided with their contact information, MWBE and SDVOB status', and construction specialties.

14.3. Other information on MWBEs, including a directory of MWBE's, is available from:

NYS Empire State Development
Minority and Women's Business Development Division
30 South Pearl Street
Albany, NY 12245
Telephone: (518) 292-5252
Website: https://esd.ny.gov/doing-business-ny/mwbe

15. SURETY BOND

If required, the Contractor shall furnish Performance and Payment Bonds in an amount equal to one hundred percent (100%) of the total Contract price as security for the faithful performance of this Contract, and for the payment of all persons performing labor or furnishing materials in connection with this contract. These bonds are to be executed on the State Comptroller's form and the surety company must be licensed in the State of New York, have a Best Rating of A- or better and appear on the most recent published Department of the Treasury's Listing of Approved Sureties (Department Circular *570*) at the time of filing the bonds.

16. VENDOR PROTEST POLICY

It is the policy of OGS to provide all vendors, prospective bidders, bidders, suppliers and contractors with an opportunity to resolve complaints or inquiries related to bid solicitations, contract awards, or other associated contract award actions. OGS encourages vendors to seek resolution of complaints related to bid solicitations, contract awards, or other associated actions through consultation with the agency designated contact(s). All such complaints will be given impartial and timely consideration. Vendors may also file formal written protests. A copy of the Design and Construction Vendor Protest Policy and Procedures may be obtained by contacting the designated contact or by visiting the OGS website at:

https://ogs.ny.gov/design-construction/vendor-protest-policy-procedures

17. POLICY ON TIED BIDS

A tie-bid is defined as an instance where bids are received from two or more bidders who are the apparent low responsive and reliable bidders with identical offers, or who are MWBEs with identical offers with bids of $1,680,923 or less and whose bids are within ten percent of the lowest bid. A tie-bid does not exist when an apparent low bidder has an identical offer to an MWBE, as the MWBE is deemed the apparent low bidder pursuant to Public Buildings Law § 8(6). It is the policy of OGS to settle the outcome of tie-bids by either drawing a name from a hat or flipping a coin within 24 hours of the bid opening. All affected firms will be notified of the tie and the time and place of the resolution of the tie, and shall be invited to witness the outcome. Attendance is not mandatory. The drawing/flip will be held at OGS, Contract Awards Unit, 35th Floor, Corning Tower, Albany, New York. Two impartial witnesses will be provided and shall be present. All attendees will acknowledge the results of the tie-breaker on the bid tabulation sheet. All firms affected by the tied bids will be notified of the results. The results pursuant to this provision shall be considered final.

18. WORKERS' COMPENSATION INSURANCE AND DISABILITY BENEFITS REQUIREMENTS

Workers' Compensation Law (WCL) §57 & §220 requires the heads of all municipal and state entities to ensure that businesses applying for permits, licenses or contracts provide proof that they have appropriate workers' compensation and disability benefits insurance coverage. These requirements apply to both original contracts and renewals, whether the governmental agency is having the work done or is simply issuing the permit, license or contract. Failure to provide proof of such coverage or a legal exemption will result in a rejection of the vendor's bid or renewal.

18.1. Proof of Compliance with Workers' Compensation Coverage Requirements: In order to provide proof of compliance with the requirements of the Workers' Compensation Law pertaining to workers' compensation coverage, a contractor shall: (1) obtain such coverage from an insurance carrier; or (2) be a Workers' Compensation Board-approved self-insured employer or participate in an authorized self-insurance plan; or (3) be legally exempt from obtaining Workers' Compensation insurance coverage.

An ACORD 25 form is **NOT** acceptable as proof of workers' compensation coverage.

A Contractor seeking to enter into a contract with the State of New York **MUST** provide **ONE** of the following forms to OGS upon request, prior to award:

18.1.1. CE-200, ***Certificate of Attestation of Exemption from NYS Workers' Compensation and/or Disability Benefits Coverage***, which is available on the Workers' Compensation Board's website, www.wcb.ny.gov, under the heading "Forms"; **OR**

18.1.2. C-105.2 – ***Certificate of Workers' Compensation Insurance*** (the contractor's insurance carrier will send this form to OGS upon request); contractors insured through the New York State Insurance Fund should use their version of the form, the U-26.3; **OR**

18.1.3. SI-12 – ***Certificate of Workers Compensation Self-Insurance*** (the contractor should call the Workers' Compensation Board's Self-Insurance Office at 518 402-0247), **OR** GSI-105.2 – ***Certificate of Participation in Workers' Compensation Group Self-Insurance*** (the contractor's Group Self-Insurance Administrator will send this form to OGS upon request).

18.2. Proof of Compliance with Disability Benefits Coverage Requirements: In order to provide proof of compliance with the requirements of the Workers' Compensation Law pertaining to disability benefits, a contractor shall: (1) obtain such coverage from an insurance carrier; or (2) be a Board-approved self-insured employer; or (3) be legally exempt from obtaining disability benefits coverage.

An ACORD 25 form is NOT acceptable as proof of disability benefits coverage.

A Contractor seeking to enter into a contract with the State of New York **MUST** provide **ONE** of the following forms to OGS upon request, prior to award:

18.2.1. CE-200 – ***Certificate of Attestation of Exemption from NYS Workers' Compensation and/or Disability Benefits Coverage,*** which is available on the Workers' Compensation Board's website, www.wcb.ny.gov, under the heading "Forms"; **OR**

18.2.2. DB-120.1 – ***Certificate of Disability Benefits Insurance*** (the contractor's insurance agent, broker or carrier will send this form to OGS upon request); **OR**

18.2.3. DB-155 – ***Certificate of Disability Benefits Self Insurance*** (the contractor should call the Workers' Compensation Board's Self-Insurance Office at 518 402-0247).

18.3. All of the above-referenced forms, except the CE-200, SI-12 and DB-155, must show the following as the Entity Requesting Proof of Coverage (entity being listed as the Certificate Holder):

NYS Office of General Services – Design & Construction Group
Division of Contract Management
35th Floor, Corning Tower, GNARESP
Albany, NY 12242

19. ELECTRONIC CONTRACTOR PAYMENTS (ECP)

The ECP Program is initiated with an Electronic Contractor Payments (ECP) Certification Form that is forwarded to the contractor with the project agreement and bond forms. This form must be completed, executed and returned with the executed Contract agreement in order for the contractor to participate in the ECP program. The executed ECP Certification Form will remain on file. Note that the certification will apply to this contract and to future ECP-eligible contracts.

19.1. Upon final approval of the contract, an e-mail will be sent to the contractor's designated e-mail address with a hyperlink that will enable the firm to register, using a temporary password, on the OGS Design & Construction Vendor Interface. The temporary password will be sent to the contractor in letter form that is mailed on the same day.

19.2. The OGS Vendor Interface website will provide the ability to view contract information, submit the detailed estimate and payments requests electronically, and communicate with OGS Design & Construction.

20. IRAN DIVESTMENT ACT

20.1 By submitting a bid in response to this solicitation or by assuming the responsibility of a Contract awarded hereunder, bidder/Contractor (or any assignee) certifies that it is not on the "Entities Determined To Be Non-Responsive bidders/Offerers Pursuant to The New York State Iran Divestment Act of 2012" list ("Prohibited Entities List") posted on the OGS website at

http://www.ogs.ny.gov/about/regs/docs/ListofEntities.pdf

and further certifies that it will not utilize on such Contract any subcontractor that is identified on the Prohibited Entities List. Additionally, bidder/Contractor is advised that should it seek to renew or extend a Contract awarded in response to the solicitation, it must provide the same certification at the time the Contract is renewed or extended.

20.2 During the term of the Contract, should OGS receive information that a person (as defined in State Finance Law §165-a) is in violation of the above-referenced certifications, OGS will review such information and offer the person an opportunity to respond. If the person fails to demonstrate that it has ceased its engagement in the investment activity which is in violation of the Act within 90 days after the determination of such violation, then OGS shall take such action as may be appropriate and provided for by law, rule, or contract, including, but not limited to, seeking compliance, recovering damages, or declaring the Contractor in default.

20.3 OGS reserves the right to reject any bid, request for assignment, renewal or extension for an entity that appears on the Prohibited Entities List prior to the award, assignment, renewal or extension of a contract, and to pursue a

responsibility review with respect to any entity that is awarded a contract and appears on the Prohibited Entities list after contract award.

21. NOT USED

END OF DOCUMENT

DOCUMENT 002213

SUPPLEMENTARY INSTRUCTIONS TO BIDDERS - MWBE-EEO

This Supplement modifies the Instructions to Bidders. Where any part of the Instructions to Bidders is modified by this supplement, the unaltered provisions of that part shall remain in effect.

Add the following:

22. GOALS

22.1 To ensure meaningful participation in the Project of certified Minority- and Women-Owned Business Enterprises ("MWBEs") under the Contract, the Commissioner of General Services has established goals set forth in the Supplementary Conditions.

22.2 All bidders should note that important definitions and conditions relating to the foregoing MWBE goals are contained in the Supplementary Conditions.

22.3 In order to assist the State in determining compliance with the goals set forth in the Supplementary Conditions the apparent low bidder will be required to submit an MWBE Utilization Plan via the New York State Contracting System (NYSCS) prior to Contract award or subcontractor approval.

22.4 If unable to submit an MWBE Utilization Plan through the NYSCS, the apparent low bidder must use Form BDC 328 to submit the plan. The BDC 328 form is available for download at https://ogs.ny.gov/mwbe/forms and may be mechanically reproduced. Additional copies may be obtained upon request from the address listed in Paragraph 23.2 below.

22.5 The apparent low bidder must submit the completed MWBE Utilization Plan within seven (7) calendar days after the bids are opened. OGS will review the submitted MWBE Utilization Plan and advise the bidder of OGS acceptance or issue a notice of deficiency within twenty (20) days of receipt.

23. CERTIFICATION

23.1 All Minority- and Women-Owned Business Enterprises ("MBEs" or "WBEs") proposed as contractors, subcontractors or suppliers must be certified by the NYS Empire State Development, Division of Minority and Women's Business Development to be eligible for MBE or WBE credit on this project.

23.2 UPON WRITTEN REQUEST, The New York State Office of General Services' Office of Business Diversity (OBD) will provide a computer printout of certified MBEs and WBEs in specific trades for a given geographical area of New York State.

This printout can be requested in writing as follows:

- By e-mail to: DCMWBEManager@ogs.ny.gov
- By fax to: (518) 486-2679

- By mail to:

  NYS Office of General Services
  Office of Business Diversity
  29th Floor, Corning Tower, GNARESP
  Albany, NY 12242

24. LIQUIDATED DAMAGES – MWBE PARTICIPATION

24.1 Refer to Article 27.8, Document 007307, Supplementary Conditions - MWBE-EEO, for "Liquidated Damages – MWBE Participation".

END OF DOCUMENT

DOCUMENT 002218

SUPPLEMENTARY INSTRUCTIONS TO BIDDERS - PRE-BID SITE VISIT

This Supplement modifies the Instructions to Bidders. Where any part of the Instructions to Bidders is modified by this supplement, the unaltered provisions of that part shall remain in effect.

2. VISIT TO THE SITE

Change 2.1 to Read:

2.1 Prospective bidders will be allowed to visit the job site to take field measurements and examine existing conditions of the project area only during the pre-bid site visit. Prospective bidders are urged to visit the site at this time. Prospective bidders or their representatives attending the pre-bid site visit will not be admitted on facility grounds without proper photo identification. Parking restrictions and security provisions will apply, and vehicles will be subject to search. The date, time, location of the pre-bid site visit, and the phone number are included in the Advertisement for Bids.

Phone a minimum of 48 hours in advance of the pre-bid site visit with the names of those who will attend.

All participants shall comply with facility rules and regulations.

Participants will not be allowed to deviate from the group walk-thru and must stay with the group for the duration of the visit. All participants will adhere to the direction given by the Director's Representative at all times during the visit.

Individuals shall not attend the site visit if they are feeling ill.

END OF DOCUMENT

DOCUMENT 002219

SUPPLEMENTARY INSTRUCTIONS TO BIDDERS - QUALIFICATIONS OF BIDDERS AND MANDATORY PRE-AWARD SUBMITTAL REQUIREMENTS

This Supplement modifies the Instructions to Bidders. Where any part of the Instructions to Bidders is modified by this supplement, the unaltered provisions of that part shall remain in effect.

Add the following Articles:

25. QUALIFICATIONS OF BIDDERS

25.1 The Contracting Officer or their representative will schedule a pre-award meeting to consider the bid responsiveness of the bid submitted by the apparent low bidder within fourteen (14) calendar days of the bid opening. Bidders will be notified of the time and place of the meeting. On a case-by-case basis, the State will examine and evaluate the bid as responsive by considering the contractors understanding of the overall project scope, estimated cost, utilization of proposed sub-contractors, expertise, workmanship and past performance in completing similar contracts.

25.2 The Contracting Officer or their respective representative will conduct an investigation to determine the responsibility of any Bidder, including the ability of any Bidder to perform the Work. Bidders shall furnish to the Officer all information and data requested, including complete financial data, within the time and in the form and manner requested. The Contracting Officer reserves the right to reject any bid if the evidence required by the Officer is not submitted as requested, or if the evidence submitted by or the investigation of any Bidder fails to satisfy the Contracting Officer that the Bidder is responsible, or is able and qualified to carry out the obligations of the Contract, or to complete the Work as indicated in the Contract Documents, or able to reasonably perform the Work for the Bid Amount.

25.3 The criteria contained in Executive Order No. 170.1 Uniform Guidelines for Determining the Responsibility of Bidders will be applied in the evaluation of Bidders. Special criteria that will be considered in establishing the responsibility of the Bidders shall include, but not be limited to established experience in performing the Work required by the Contract Documents. Experience will be viewed from comparable projects as well as experience and knowledge of construction by the firm's personnel.

26. MANDATORY PRE-AWARD SUBMITTAL REQUIREMENTS

26.1 The apparent low bidder must submit the required pre-award submittal package outlined below to the Regional Supervisor within seven (7) calendar days after the bids are opened.

Regional Supervisor Name: Edward Fischer

Address: Hughes State Office Building, 333 East Washington Street, Syracuse, NY 13202

Phone: 315-428-4419

Email: Region6preawardsubmittals@ogs.ny.gov

Submissions must be emailed and must include the Project Number of this contract in the Subject Line of the Pre-Award submission email (i.e., OGS PN 12345-C: Pre-Award Submission).

Pre-award Submittal Package:

1. References and Experience:
   a. List of all past contracts with OGS. Include OGS Project Number and date.
   b. Provide three (3) references (Name, Title, and Phone Number) associated with three (3) different projects (OGS, public, or private sector) of similar scope and size to the one identified in this contract. Additionally, include the names of two major suppliers used for each of these three (3) projects.

      Provide a copy of recent past experience as required under the filing of the NYS Vendor Responsibility Questionnaire (CCA-2 document) with the Office of the State Comptroller. Provide only Attachment A: Completed Construction Contracts and Attachment B: Uncompleted Construction Contracts. For additional information, see:

      http://www.osc.state.ny.us/vendrep/form_cca2.htm

2. Workforce and Work Plan – Provide a detailed written Work Plan which shall demonstrate the contractor's understanding of overall project scope and shall include, but not be limited, to the following:
   a. Sequential listing of specific project activities required to successfully complete the Work of the contract.
      1. Include Critical Milestones.
      2. Include phasing of the Work, if required.
      3. Include listing of long lead items.
      4. Impact of weather and restricted work period(s).
      5. Include a list of site-/project-specific safety hazards, and how such hazards will be considered in performance of the Work.
   b. Résumés for Contractor's proposed supervisory staff, including qualifications for specialized expertise or any certification(s) required to perform the Work.
   c. Schedule Preparer qualifications when required by specification 013200.
   d. Submittal Coordinator qualifications when required by specification 013300.
   e. Names of proposed major sub-contractors (more than 15% of the bid amount or where critical systems of work are identified in the contract) and a listing of the related trade of work and value.
   f. Any special coordination requirements with other trades.
   g. Any special storage and staging requirements for construction materials.

3. Detailed Cost Estimate:
   a. A copy of a Detailed Cost Estimate outlined in CSI format.

4. Provide information for any other special requirements at the request of the Director's Representative.

26.2 When requested by the Contracting Officer or his representative, Bidders shall, within the time specified by the Officer, submit to the Officer the names of the Subcontractors the Bidder proposes to use on the project. The Contracting Officer reserves the right to disapprove the use of any proposed Subcontractor. In such an event the Bidder shall submit the name of another Subcontractor in like manner within the time specified by the Officer. The Bidder shall have and will make no claim for compensation if the Contracting Officer disapproves any proposed Subcontractor. The Contracting Officer reserves the right to reject any bid if the names of proposed Subcontractors, or additional subcontract information, are not submitted as required.

END OF DOCUMENT

DOCUMENT 003126

EXISTING HAZARDOUS MATERIAL INFORMATION

1.01 ASBESTOS SURVEY REPORT

Samples listed in the report were collected at the Project Site and tested for Asbestos Containing Materials (ACM). The report was compiled for New York State Office of General Services, Design and Construction Group by an ELAP certified laboratory. In order to determine the Asbestos content, samples were analyzed by polarized light microscopy (PLM) and/or transmission electron microscopy (TEM). The report is intended for the State design and estimate purposes only and is included to provide bidders with that same information available to the State. The Bulk Samples are representative of Homogeneous Area (HA) and is defined as a suspect material of similar age, appearance, function and texture. All field information was organized in accordance with 40 CFR Part 763, Asbestos Hazard Emergency Response Act (AHERA). See the *Pre-Renovation Hazardous Materials Survey Report, dated April 2024,* report included in the Appendix for type, condition, location and approximate quantity of ACM.

No ACMs were confirmed to be present within the project scope rooms through laboratory analysis.

1.02 LEAD SURVEY REPORT

Samples listed in the report were collected at the Project Site and tested for Lead content. The report was compiled for New York State Office of General Services, Design and Construction Group by an ELAP certified laboratory. In order to determine the lead content, the Atomic Absorption method or a XRF Analyzer was used. This report is intended for State design and estimate purposes only and is included to provide bidders with the same information available to the State. The samples are representative of like materials in the Work area. All lead containing materials may not have been sampled. See the *Pre-Renovation Hazardous Materials Survey Report, dated April 2024,* report included in the Appendix for details.

No lead-based paints were found through analysis.

1.03 MOLD SAMPLING REPORT

Samples listed in the report were collected at the Project Site and tested for Mold. The report was compiled for New York State Office of General Services, Design and Construction Group by an ELAP certified laboratory having a Certified Industrial Hygienist (Mycologist) and an accreditation to microbial laboratories, Environmental Microbiology Laboratory Accreditation Program (EMLAP). The bulk sampling and/or air sampling was used in determining the Mold presence. This report is intended for State design and estimate purposes only and is included to provide bidders with the same information available to the State. All Mold containing materials may not have been sampled. See the *Renovation Hazardous Materials Survey Report, dated April 2024,* report included in the Appendix for details.

No mold was present within any of the project scope areas.

1.04 BIRD/BAT/MOUSE DROPPINGS SAMPLING REPORT

Samples listed in the report were collected at the Project Site and tested for bird/bat/mouse droppings. The report was compiled for New York State Office of General Services, Design and Construction Group by an ELAP certified laboratory. Bulk sampling was used in determining the bird/bat/mouse droppings presence. This report is intended for State design and estimate purposes only and is included to provide bidders with the same information available to the State. All bird/bat/mouse dropping materials may not have been sampled. See the *Pre-Renovation Hazardous Materials Survey Report, dated April 2024,* report included in the Appendix for details.

No bird guano was present within any of the project scope areas.

1.05 PCB SAMPLING REPORT

Samples listed in the report were collected at the Project Site and tested for PCBs. The report was compiled for New York State Office of General Services, Design and Construction Group by an ELAP certified laboratory. Bulk, wipe or air sampling was used in determining the PCB content. This report is intended for State design and estimate purposes only and is included to provide bidders with the same information available to the State. All PCB containing materials may not have been sampled. See the *Pre-Renovation Hazardous Materials Survey Report, dated April 2024,* report included in the Appendix for details.

Existing fluorescent light tubes/bulbs were unable to be inspected for PCB content.

END OF DOCUMENT

DETACH AND USE THIS FORM

BID FORM FOR: Q1894-C

CONSTRUCTION WORK
RENOVATE 70 BEDROOM UNITS, HARDEN WALLS
FINGER LAKES RESIDENTIAL CENTER
250 AUBURN RD
LANSING, NY

State of New York
Office of General Services
Design and Construction Group
Division of Contract Management
35th Floor, Corning Tower
The Gov. Nelson A. Rockefeller
Empire State Plaza
Albany, NY 12242

THIS IS A 4 PAGE BID FORM. ALL PAGES MUST BE COMPLETED.

THE STATE RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS. EACH BID FORM SHALL BE ACCOMPANIED BY BID SECURITY (AS DESCRIBED IN THE INSTRUCTIONS TO BIDDERS) IN THE AMOUNT STATED IN THE ADVERTISEMENT FOR BIDS.

The Undersigned agrees to complete the Work within the time stated in Section 011000 of the Specifications.

The Undersigned acknowledges his/her understanding of the social policy concerning minority and women business participation in the State building construction program, and pledges to cooperate with the State in the implementation of this policy, and further pledges to exert good faith efforts to achieve participation of minority and female employees.

The Undersigned certifies, as to each of the occupations listed in the Prevailing Rate Schedule applicable to this Project, the ability and willingness to exert good faith efforts to achieve the goal for minority and women workforce participation as set forth in the Supplementary Conditions.

The Undersigned certifies the ability and willingness to exert good faith efforts to achieve the goals for Minority and Women-Owned Business Enterprise and Service-Disabled Veteran-Owned Businesses participation as set forth in the Supplementary Conditions.

The Undersigned declares that the Bidding and Contract Documents have been carefully examined and that all things necessary for the completion of the Work shall be provided.

The Undersigned agrees that the bid security shall be subject to forfeiture if this bid is accepted by the State and he/she does not submit executed copies of the Agreement WITHIN TEN (10) DAYS OF RECEIPT OF A WRITTEN REQUEST TO PROVIDE SUCH AGREEMENT. A Performance Bond and a Labor and Material Bond, each in an amount equal to the contract sum, shall be supplied with the executed Agreement and shall be the statutory form of public bonds required by Sections 136 and 137 of the State Finance Law.

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of his/her knowledge and belief:

(1) The prices in this bid have been arrived at independently without collusion, consultation, communication, or agreement, for the purpose of restricting competition as to any matter relating to such prices with any other bidder or with any competitor;

(2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder or to any competitor;

(3) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

(4) This contract shall not cause or result in a violation of Section 74(3)(e) of the Public Officers Law which states: "No officer or employee of a state agency, member of the legislature or legislative employee should engage in any transaction as representative or agent of the State with any business entity in which he/she has a direct or indirect financial interest that might reasonably tend to conflict with the proper discharge of his/her official duties."

Federal Employer I.D. No. _____

(5) The Bidder understands and agrees to comply with the requirements of the Procurement Lobbying Law, State Finance Law § 139-j and § 139-k, and with OGS's procedures relating to permissible contacts during a procurement as required by State Finance Law § 139-j(3) and § 139-j(6)(b). Such requirements and procedures are posted at https://ogs.ny.gov/acpl.

(6) The bidder is not on the list created pursuant to paragraph (b) of subdivision 3 of section 165-a of the state finance law (NYS Iran Divestment Act of 2012). The list can be viewed at the following link:

https://ogs.ny.gov/iran-divestment-act-2012

(7) Will New York State Businesses be used in the performance of this contract (refer to Document 007324)?

Yes ☐ No ☐

(8) The New York State Human Rights Law (Human Rights Law), Article 15 of the Executive Law, prohibits discrimination and harassment based on age, race, creed, color, national origin, sex, pregnancy or pregnancy-related conditions, sexual orientation, gender identity, disability, marital status, familial status, domestic violence victim status, prior arrest or conviction record, military status or predisposing genetic characteristics.

The Human Rights Law may also require reasonable accommodation for persons with disabilities and pregnancy-related conditions. A reasonable accommodation is an adjustment to a job or work environment that enables a person with a disability to perform the essential functions of a job in a reasonable manner. The Human Rights Law may also require reasonable accommodation in employment on the basis of Sabbath observance or religious practices.

Generally, the Human Rights Law applies to:

- all employers of four or more people, employment agencies, labor organizations and apprenticeship training programs in all instances of discrimination or harassment;
- employers with fewer than four employees in all cases involving sexual harassment; and,
- any employer of domestic workers in cases involving sexual harassment or harassment based on gender, race, religion or national origin.

In accordance with Executive Order No. 177, the Bidder hereby certifies that it does not have institutional policies or practices that fail to address the harassment and discrimination of individuals on the basis of their age, race, creed, color, national origin, sex, sexual orientation, gender identity, disability, marital status, military status, or other protected status under the Human Rights Law.

Executive Order No. 177 and this certification do not affect institutional policies or practices that are protected by existing law, including but not limited to the First Amendment of the United States Constitution, Article 1, Section 3 of the New York State Constitution, and Section 296(11) of the New York State Human Rights Law.

(9) In accordance with State Finance Law § 139-l, by submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that the bidder has and has implemented a written policy addressing sexual harassment prevention in the workplace and provides annual sexual harassment prevention training to all of its employees. Such policy shall, at a minimum, meet the requirements of section two hundred one-g of the labor law.

If the bidder cannot make the foregoing certification, such bidder shall so state and shall furnish with the bid a signed statement that sets forth in detail the reasons that the bidder cannot make the certification.

Federal Employer I.D. No. _____

(10) In accordance with Section 165(5) of the State Finance Law, the bidder, by submission of this bid, certifies that it or any individual or legal entity in which the bidder holds a 10% or greater ownership interest, or any individual or legal entity that holds a 10% or greater ownership interest in the bidder, either (answer yes or no to one or both of the following, as applicable):

1. have business operations in Northern Ireland Yes ☐ No ☐ and if yes:

2. shall take lawful steps in good faith to conduct any business operations in Northern Ireland in accordance with the MacBride Fair Employment Principles relating to nondiscrimination in employment and freedom of workplace opportunity regarding such operations in Northern Ireland, and shall permit independent monitoring of compliance with such principles.

Yes ☐ No ☐

(11) Certification Under Executive Order No. 16 - Prohibiting State Agencies and Authorities from Contracting with Businesses Conducting Business in Russia

Executive Order No. 16 provides that "all Affected State Entities are directed to refrain from entering into any new contract or renewing any existing contract with an entity conducting business operations in Russia." The complete text of Executive Order No. 16 can be found here: https://www.governor.ny.gov/executive-order/no-16-prohibiting-state-agencies-and-authorities-contracting-businesses-conducting

The Executive Order remains in effect while sanctions imposed by the federal government are in effect. Accordingly, vendors who may be excluded from award because of current business operations in Russia are nevertheless encouraged to respond to solicitations to preserve their contracting opportunities in case the sanctions are lifted during a solicitation or even after award in the case of some solicitations.

As defined in Executive Order No. 16, an "entity conducting business operations in Russia" means an institution or company, wherever located, conducting any commercial activity in Russia or transacting business with the Russian Government or which the commercial entities headquartered in Russia or with their principal place of business in Russia in the form of contracting, sales, purchasing, investment, or any business partnership.

Is Vendor an entity conducting business operations in Russia, as defined above? Please answer by checking one of the following boxes:

☐ 1. No, Vendor does not conduct business operations in Russia within the meaning of Executive Order No. 16.

☐ 2.a. Yes, Vendor conducts business operations in Russia within the meaning of Executive Order No. 16 but has taken steps to wind down business operations in Russia or is in the process of winding down business operations in Russia. (Please provide a detailed description of the wind down process and a schedule for completion.)

☐ 2.b. Yes, Vendor conducts business operations in Russia within the meaning of Executive Order No. 16 but only to the extent necessary to provide vital health and safety services within Russia or to comply with federal law, regulations, executive orders, or directives. (Please provide a detailed description of the services being provided or the relevant laws, regulations, etc.)

☐ 3. Yes, Vendor conducts business operations in Russia within the meaning of Executive Order No. 16.

(12) In accordance with New York State Labor Law Section 220-i, the bidder certifies that it is registered with the New York State Department of Labor (NYSDOL) for public work projects. By submission of this bid and providing the registration number in the space indicated on this bid form, the bidder affirms that its registration is current and valid as of the date of bid submission.

Addenda to the Contract Documents are available at:
https://online.ogs.ny.gov/dnc/contractorConsultant/esb/ESBPlansAvailableIndex.asp
The Undersigned acknowledges receipt and review of all Addenda to the Contract Documents on the above website, listed by number in the space below:

_____

The Undersigned proposes to perform the Work required for this project in accordance with the Contract Documents for the following amount:

BID AMOUNT

1.	All Work except Allowance(s)	$ _____.00
2.	Allowance(s) (As described in Section 012100)	$ 202,666.00
	Total Bid Amount (Sum of 1. & 2.)	$ _____.00

FEDERAL EMPLOYER I.D. NO. _____

NYSDOL CONTRACTOR REGISTRATION NO. (per NYS LABOR LAW 220-i) _____

Is your firm a NYS-Certified Minority and Women-Owned Business Enterprise (MWBE)? Yes ☐ No ☐

MWBE CERTIFICATION FILE NO. _____

SIGN BID HERE _____
Authorized Signature

PRINT NAME OF SIGNER _____

TITLE OF SIGNER _____

OFFICIAL COMPANY NAME _____

MAILING ADDRESS _____
Street

_____
City State Zip

TELEPHONE NO. _____ FAX NO. _____
Area Code Area Code

E-MAIL ADDRESS _____

*****

Federal Employer I.D. No. _____

FORM OF BID BOND - BID SECURITY
STATE OF NEW YORK
OFFICE OF GENERAL SERVICES - DESIGN & CONSTRUCTION

Sub. 3, Sec. 8 - Public Buildings Law

BE IT KNOWN, That _____

_____
(Name of Contractor)

_____
(Address)

(hereinafter called the "Principal") and _____ a corporation created and existing under the Laws of the State of _____ having its principal office in the City of _____ duly licensed as an insurance company in the State of New York, (hereinafter called the "Surety"), are held and firmly bound unto The People of the State of New York (hereinafter called the "State"), in the full and just sum of $122,600 good and lawful money of the United States of America, for the payment of which said sum of money, well and truly to be made, and done, the Principal binds themselves (himself, herself, itself), their (his, hers, its) heirs, executors and administrators, successors and assigns, and the Surety binds itself, its successors and assigns jointly and severally, firmly by these presents:

WHEREAS, the Principal has submitted to the Office of General Services of the State of New York a proposal for Construction Work, Renovate 70 Bedroom Units, Harden Walls, Finger Lakes Residential Center, 250 Auburn Road, Lansing, NY

AND

WHEREAS, the Principal intends to file this bond to guarantee that the Principal will execute a contract and furnish performance and labor and material bonds required by the terms of the Principal's proposal.

NOW, THEREFORE, the condition of the foregoing obligation is such, that if the Principal shall promptly submit an executed agreement and furnish performance and labor and material bonds required by the terms of the Principal's proposal, then this obligation shall be null and void, otherwise to remain in full force and virtue.

NOW, THEREFORE, the condition of the foregoing obligation is such that if the Principal fails to promptly submit an executed agreement and furnish performance and labor and material bonds required by the terms of the Principal's proposal, then the Surety itself, its successors and assigns, jointly and severally, shall pay the whole sum of money previously set forth in this document to the State.

IN TESTIMONY WHEREOF, the Principal has hereunto set their (his, hers, its) hand and seal and the Surety has caused this instrument to be signed by its Attorney-in-fact, _____ and its corporate seal to be hereunto affixed.

Signed, sealed and delivered in the presence of:

(Corporate seal
of Principal if a corporation)

_____ (L.S.)

_____ (L.S.)

Principal

_____ Company

(Corporate seal of Surety Co.) _____

_____

Attorney-in-fact

Witness _____

Name

_____

Name

(Acknowledgment by principal, unless it be a corporation)

STATE OF NEW YORK
SS.:
COUNTY OF _____

On this _____ day of _____20_____, before me personally came _____ to me known and known to me to be the person described in and who executed the foregoing instrument, and acknowledged that he/she executed the same.

_____
Notary Public County

(Acknowledgment by principal, if a corporation)

STATE OF NEW YORK
SS.:
COUNTY OF _____

On this _____ day of _____20_____, before me personally came _____ to me known, who being by me duly sworn, did depose and say that he/she resides in _____; that he/she is the _____ of the _____; the corporation described in and which executed the foregoing instrument; that he/she knew the seal of said corporation; that the seal affixed to said corporation; that the seal affixed to said instrument was such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he/she signed his/her name thereto by like order.

_____
Notary Public County

(Acknowledgment by Surety Company)

STATE OF NEW YORK
SS.:
COUNTY OF _____

On this _____ day of _____ 20_____, before me personally came _____ to me known, who being by me duly sworn, did depose and say that he/she resides in _____; that he/she is the _____ of the _____; the corporation described in and which executed the within instrument; that he/she knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that is was so affixed by order of the Board of Directors of said corporation; and that he/she signed his/her name thereto by like order.

_____
Notary Public County

Empire State Development

NEW YORK STATE'S SURETY BOND

Assistance Program Helps Small Business Contractors Secure Surety Bonding

What is the NYS Surety Bond Assistance Program?

The NYS Surety Bond Assistance Program (NYSBAP) provides technical and financial assistance to help contractors secure surety bonding. Contractors may be eligible to receive a guarantee of up to 30% to secure a surety bond line, bid bond or a performance and payment bond on state projects.

How does the NYS Surety Bond Assistance Program work?

To apply for financial assistance, small business contractors should review eligibility requirements and fill out a pre-application assessment available at the Empire State Development (ESD) website.

If the assessment indicates you are eligible to submit an application, proceed with the Application and submit the required forms.

Guarantees of up to 30% on a bond line or individual contract bid bonds and payment/performance bonds are available from Empire State Development. Being eligible for this program does not automatically ensure bonding. Approval is based on both underwriting by a surety company and ESD's credit assessment. Participating surety companies will make a credit determination in accordance with their internal underwriting standards.

Small businesses can also enroll to receive training and technical support on how to become bond-ready by using the Contact Information below. The classroom training is held throughout New York State.

Who is eligible?

- Applicant must be a NYS small business or MWBE with at least two years of business operation.
- Maximum bond line or project size is $2 million
- Minimum average gross revenue of $400,000 in the last two fiscal or calendar years and maximum gross revenue not to exceed $5 million in the most recent calendar or fiscal year.
- Minimum credit score of 600.
- Previous experience completing similar work to the contract opportunity being pursued.

Find Out More

If interested in training or financial support, please visit ESD's website:
http://esd.ny.gov/BusinessPrograms/BondingAssistance.html

For additional inquiries, please contact:
Ms. Huey-Min Chuang
Senior Director of Business & Economic Development
212-803-3238
BAP@esd.ny.gov

Offerer Disclosure of Prior Non-Responsibility Determinations

See instructions on next page before completing this form.

Name of Individual or Entity Seeking to Enter into the Procurement Contract:

_____

Address: _____

_____

Name and Title of Person Submitting this Form: _____

_____

Contract Procurement Number: _____ Date: _____

1. Has any Governmental Entity made a finding of non-responsibility regarding the individual or entity seeking to enter into the Procurement Contract in the previous four years? (Please circle):

No Yes

If yes, please answer the next questions:

2. Was the basis for the finding of non-responsibility due to a violation of State Finance Law §139-j (Please circle):

No Yes

3. Was the basis for the finding of non-responsibility due to the intentional provision of false or incomplete information to a Governmental Entity? (Please circle):

No Yes

4. If you answered yes to any of the above questions, please provide details regarding the finding of non-responsibility below and attach additional pages as necessary.

Governmental Entity: _____

Date of Finding of Non-responsibility: _____

Basis of Finding of Non-Responsibility: _____

5. Has any Governmental Entity or other governmental agency terminated or withheld a Procurement Contract with the above-named individual or entity due to the intentional provision of false or incomplete information? (Please circle):

No Yes

6. If yes, please provide details below and attach additional pages as necessary.

Governmental Entity: _____

Date of Termination or Withholding of Contract: _____

Basis of Termination or Withholding: _____

Offerer certifies that all information provided to the Governmental Entity with respect to State Finance Law §139-k is complete, true and accurate.

By: _____ Date: _____

Signature

Instructions for Completing the DCA-3

Offerer Disclosure of Prior Non-Responsibility Determinations

Background:

New York State Finance Law §139-k(2) obligates a Governmental Entity to obtain specific information regarding prior non-responsibility determinations with respect to State Finance Law §139-j. This information must be collected in addition to the information that is separately obtained pursuant to State Finance Law §163(9). In accordance with State Finance Law §139-k, an Offerer must be asked to disclose whether there has been a finding of non-responsibility made within the previous four (4) years by any Governmental Entity due to: (a) a violation of State Finance Law §139-j or (b) the intentional provision of false or incomplete information to a Governmental Entity. The terms "Offerer" and "Governmental Entity" are defined in State Finance Law § 139-k(1). State Finance Law §139-j sets forth detailed requirements about the restrictions on Contacts during the procurement process. A violation of State Finance Law §139-j includes, but is not limited to, an impermissible Contact during the restricted period (for example, contacting a person or entity other than the designated contact person, when such contact does not fall within one of the exemptions).

As part of its responsibility determination, State Finance Law §139-k(3) mandates consideration of whether an Offerer fails to timely disclose accurate or complete information regarding the above non-responsibility determination. In accordance with law, no Procurement Contract shall be awarded to any Offerer that fails to timely disclose accurate or complete information under this section, unless a finding is made that the award of the Procurement Contract to the Offerer is necessary to protect public property or public health safety, and that the Offerer is the only source capable of supplying the required Article of Procurement within the necessary timeframe. See State Finance Law §§139-j (10)(b) and 139-k(3).

Instructions:

OGS Design and Construction includes this disclosure request regarding prior non-responsibility determinations in accordance with State Finance Law §139-k in its solicitation of proposals or bid documents or specifications or contract documents, as applicable, for procurement contracts. The attached form is to be completed and submitted by the individual or entity seeking to enter into a Procurement Contract, Supplement or Change Order. It shall be submitted to the OGS Design and Construction unit conducting the Governmental Procurement.

This document must accompany each Bid Form, Letter of Interest, or Proposal submitted by an offerer and will be required for any contract amendments over $15,000. This document must also accompany each Emergency Contract Bid Form.

STATE OF NEW YORK - EXECUTIVE DEPARTMENT

OFFICE OF GENERAL SERVICES - DESIGN & CONSTRUCTION GROUP

DOCUMENT 007213
GENERAL CONDITIONS
AUGUST 2010 EDITION

TABLE OF ARTICLES

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STANDARD CLAUSES FOR ALL NEW YORK STATE CONTRACTS - APPENDIX A 20

STANDARD CLAUSE FOR CONTRACTOR DEFAULT AND SURETY TAKEOVER - APPENDIX B 28

(Appendix A revised 06/2023)
(Articles 5, 10 and 21 revised in 01/2011)
(Article 23 corrected in 02/2017)

ARTICLE 1 - THE CONTRACT DOCUMENTS

1.1 The Contract Documents consist of the Agreement, the Performance and Payment Bonds, the General Conditions, the Supplementary Conditions, Appendix A, the Drawings and Specifications, Addenda issued prior to the receipt of bids and all subsequent modifications and changes issued pursuant to the General Conditions.

1.1.1 The Performance and Payment Bonds are not a part of Single Trade Contract less than two hundred thousand dollars.

1.2 The Contract Documents form the Contract. The Contract represents the entire and integrated agreement between the parties and supersedes all prior negotiations, representations and agreements, either written or oral including the bidding documents.

1.3 The Contract may not be modified except in accordance with the General Conditions.

1.4 The project is designed in accordance with the Building Codes of New York State and its reference standards. In no instance shall the Contractor deviate from the contract documents except as provided for in the contract. The Contractor shall notify the State of any deviations or conflicts observed that may violate the Building Codes.

ARTICLE 2 - DEFINITIONS

2.1 The following terms shall have the meanings ascribed to them in this Article, wherever they appear in the Contract Documents.

2.2 The term “Agency” means the officer, board, department, commission, authority, fund or public benefit corporation executing the Agreement.

2.3 The term “Commissioner” means the Commissioner of General Services.

2.4 The term “Comptroller” means the Comptroller of the State of New York.

2.5 The term “Contracting Officer” means the Director of Contract Administration of the Design and Construction Group of the Office of General Services or his representative designated in writing.

2.6 The term “Contractor” means the person, firm or corporation executing the Agreement or the successor or assignee of the Contractor approved in writing by the Contracting Officer. If the text requires, the term includes the person, firm or corporation executing any Agreement in furtherance of the Project or the successors or assigns approved in writing by the Contracting Officer.

2.7 The term “days” means calendar days.

2.8 The term “Director” means the Director of Construction of the Design and Construction Group of the Office of General Services who will have general direction and supervision of the Work.

2.9 The term “Director’s Representative” means the employee or agent of the Design and Construction Group designated in writing by the Director as such. Under the general supervision of the Director, the Director’s Representative shall have complete charge of the Work and shall exercise full supervision and direction of the Work. Where the Contract Documents specifically designate a person to perform a function or duty, that person shall be the Director’s Representative but only for the performance of that function or duty. Where the word “directed” appears in the Contract Documents, the words “by the Director’s Representative” shall be deemed inserted thereafter in each case except where it is obviously inappropriate in context.

2.10 The term “Group Director” means the Deputy Commissioner for Design and Construction, Office of General Services.

2.11 The term “liquidated damages” means the amount of money to be assessed against the Contractor for delay in physical completion of the Work.

2.12 The term “physical completion” means the date upon which the Director’s Representative certifies that all deficiencies noted on the Final Inspection List have been corrected and is evidenced by issuance of the Physical Completion Report.

2.13 The term “premises” means all land, buildings, structures and all other things of any kind located on or adjacent to the Site and owned, occupied or otherwise used by the State.

2.14 The term “product data” means manufacturer’s catalog sheets, brochures, standard diagrams, illustrations, schedules, performance charts, test data, standard schematic drawings, specifications and installation instructions.

2.15 The term “Project” means Work at the same Site carried out pursuant to one or more sets of Contract Documents.

2.16 The term “provide” means furnish and install complete, in place and ready for operation and use.

2.17 The term “sample” means physical examples submitted by the Contractor of materials, equipment or workmanship to establish a standard which the Contractor is required to meet and to show the quality, type, range of color, finish, and texture of the material intended to be furnished for the Work.

2.18 The term “shop drawing” means an original drawing prepared by a Contractor, subcontractor, supplier or distributor which illustrates some portion of the Work showing fabrication, layout, fitting or erection details.

2.19 The term “Site” means the area within the contract limit, as indicated by the Contract Documents, including all land, buildings, structures and other things located within those limits.

2.20 The term “State” means the State of New York.

2.21 The term “substantial completion” means that the Work or major milestones there of as contemplated by the terms of this contract are sufficiently complete so that the Work can be used for the purpose for which it is intended.

2.22 The term “Work” means all that which is required of the Contractor by the Contract Documents including labor, materials, tools and equipment.

2.23 The term “Offerer” shall mean the individual or entity, or any employee, agent, consultant or person acting on behalf of such individual or entity that contacts a governmental entity about a governmental procurement during the restricted period of such governmental procurement.

ARTICLE 3 - INTERPRETATION OF CONTRACT DOCUMENTS

3.1 The Contract Documents are complementary, and what is called for by one shall be as binding as if called for by all. It is not intended to include work not properly inferable from the Contract Documents.

3.2 Upon the Contractor’s written request, the Director’s Representative may issue written interpretation or drawings necessary for the proper execution or progress of the Work which interpretation shall be consistent with and reasonably inferable from the Contract Documents.

3.3 The language of the Contract Documents is directed at the Contractor unless specifically stated otherwise.

3.4 The organization of the Specifications into divisions, sections and articles, and the arrangement of Drawings shall not control the Contractor in dividing the Work among subcontractors or in establishing the extent of Work to be performed by any trade.

3.5 In the event of conflicting provisions in the Contract Documents, the drawings will take precedence over the specifications.

3.6 In the event of conflicting provisions within the drawings, the following order of precedence for resolution of the conflict shall apply: the more specific provision will take precedence over the less specific; if not resolved, the less stringent will take precedence over the more stringent; if not resolved, the less expensive item will take precedence over the more expensive. On all drawings, figures take precedence over scaled dimensions.

3.7 In the event of conflicting provisions within the specifications, the following order of precedence for resolution of the conflict shall apply: the more specific provision will take precedence over the less specific; if not resolved, the less stringent will take precedence over the more stringent; if not resolved, the less expensive item will take precedence over the more expensive.

3.8 If during the performance of the work, the Contractor identifies a conflict in the Contract Documents; the Contractor shall promptly notify the Director’s Representative in writing of the conflict and advise as to the course of action the Contractor proposes to follow. The Director’s Representative shall promptly acknowledge the notification in writing and advise the Contractor, pursuant to Paragraph 3.2 of these General Conditions, as to the interpretation to be followed in the performance of the Work.

ARTICLE 4 - SUBMITTALS

4.1 The Contractor and the Director shall adhere to the submittal and scheduling requirements specified in Division 01 - General Requirements.

4.2 The Contractor shall approve all submittals before submitting them. By such approval, the Contractor represents that it has determined and verified field measurements, field construction criteria, materials, catalog numbers, and similar data and that it has checked and coordinated shop drawings, product data and samples with the requirements of the Contract Documents and that it has verified the completeness, correctness, and accuracy of the submittal.

4.3 The Director’s approval of shop drawings, product data and samples shall not relieve the Contractor of responsibility for any deviation from the requirements of the Contract Documents unless the Contractor has previously informed the Director of any anticipated deviation utilizing the required deviation request form,

(available at the OGS D&C website),at the time of submission. Written approval of the specific deviations as outlined on the request form shall be required. The Director's approval shall not relieve the Contractor from responsibility for errors or omissions in the shop drawings, product data or samples.

4.4 Portions of the Work requiring shop drawings, product data, quality assurance information, or sample submittals shall not be commenced until the appropriate submittals have been approved by the Director.

4.5 The Contractor shall deliver to the Director, in the detail and form and at the time the Director shall require, information concerning the Contractor's operations and proposed operations upon the Project all in accordance with Division 01 - General Requirements.

4.6 During the term of this Project, the Director may require any Contractor to modify any schedules which it has submitted either before or after they are approved so that the Work of any contract in furtherance of the Project may be properly progressed and so that changes in the Work or the work of related contracts is properly reflected in the schedules.

4.7 Where indicated under the specific submittal requirements of the specifications, a re-evaluation fee of $250.00 will be assessed against the Contractor for each re-evaluation required of any submittal package that is deemed incomplete, or lacking appropriate content or required format as required by the individual specification section.

ARTICLE 5 - MATERIALS AND LABOR

5.1 All materials, equipment and articles used permanently in the Work which become the property of the State shall be new unless specifically stated otherwise.

5.2 Asbestos Free Materials: All materials used for construction shall be free of asbestos containing materials unless the materials containing the asbestos have been previously approved for use by the State. If asbestos is found in installed products not previously approved by the State, then it will be the responsibility of the contractor to abate the asbestos containing material and replace the work with new asbestos free materials at no cost to the State of New York in compliance with the requirements of the contract.

5.3 Except where specifically provided otherwise, whenever any product is specified by brand name, i.e., manufacturer's or supplier's name or trade name and catalog or model number or name, the intent is not to limit competition but to establish a standard of quality which the Director has determined is necessary. The words "or equal" shall be deemed inserted in each instance. The Contractor may use any product equal to that named in the Contract Documents which is approved by the Director and which meets the requirements of the Contract Documents providing the Contractor gives timely notice of the Contractor's intent in accordance with the submittal and scheduling requirements of Division 01 - General Requirements.

5.4 The Contractor shall have the burden of proving at the Contractor's own cost and expense, to the satisfaction of the Director, that the proposed product is equal to the named product. The Director may establish criteria for product approval. The Director shall determine with absolute discretion whether a proposed product is to be approved.

5.5 If the Contractor fails to comply with the provisions of this Article, or if the Director determines that the proposed product is not equal to that named, the Contractor shall supply the product named.

5.6 The Contractor shall have and make no claim for the extension of time or for damages because the Director requires a reasonable period of time to consider a product proposed by the Contractor or because the Director disapproves such a product.

5.7 Where optional materials or methods are specified, or where "or equal" submissions are approved, the Contractor shall make all adjustments to contingent Work, whether the contingent Work be the Work of its contract or the Work of other Contractor's, necessary to accommodate the option or "or equal" product it selects without extra or additional cost.

5.8 Royalties and Patents: The Contractor shall pay all royalties and license fees. The Contractor shall defend all suits or claims for infringement of any patent rights and shall save the State harmless from loss on account thereof, except that the State shall be responsible for all such loss when a particular design, process or the product of a particular manufacturer is specified.

ARTICLE 6 - CONTRACTOR'S SUPERVISION

6.1 The Contractor shall designate in writing competent supervision and/or management representatives as required below to represent the Contractor at all times with authority to act for the Contractor. All Direction given to the Contractor's Representatives shall be as binding as if given to the Contractor. A Superintendent or Project Manager shall be classified as management representatives included in the Contractor's overhead and shall perform management, supervisory and/or administrative tasks (non labor) only. Individuals listed under this Article shall have the ability to effectively communicate (verbal and written) with all parties associated with the administration/supervision of this contract.

6.1.1 For contracts valued up to $500,000 the contractor shall provide a supervisor for the Contractor's staff who shall be in attendance at the site throughout the active performance of the Work.

6.1.2 For contracts valued from $500,000 to $2,000,000 the Contractor shall provide a Superintendent for the Contractor's staff who shall be in attendance at the site throughout the active performance of the Work until Substantial Completion. Upon Substantial Completion the contractor shall provide a supervisor who shall be in attendance at the site throughout the active performance of the Work until Physical Completion. The Superintendent shall have the authority to direct and schedule the Work, shall attend all project meetings, shall coordinate the Work of subcontractors, and make purchase and cost decisions on behalf of the Contractor.

6.1.3 For contracts valued from $2,000,001 to $5,000,000 the contractor shall provide a Superintendent for the Contractor's staff who shall be in attendance at the site throughout the active performance of the Work until Substantial Completion. Upon Substantial Completion the contractor shall provide a supervisor who shall be in attendance at the site throughout the active performance of the Work until Physical Completion. The Superintendent shall have the authority to direct the Work, attend all project meetings, and coordinate the Work of subcontractors. The Contractor shall also provide a Project Manager who shall attend project meetings, maintain submittal and approval system, and be responsible for change order/field order responses and negotiations. The Contractor shall provide required information to the Director's Representative for the Project Schedule.

6.1.4 For contracts valued from $5,000,001 to $10,000,000 the contractor shall provide a Project Manager and Superintendent for the Contractor's staff that shall be in attendance at the site throughout the active performance of the Work until Substantial Completion. Upon Substantial Completion the contractor shall provide a supervisor who shall be in attendance at the site throughout the active performance of the Work until Physical Completion. The Superintendent shall have the authority to direct the Work, and coordinate the Work of subcontractors. The Project Manager shall attend project meetings, maintain the project schedule, maintain submittal and approval system, and be responsible for change order/field order responses and negotiations.

6.1.5 For contracts valued for more than $10,000,000 the contractor shall provide a Project Manager and Superintendent for the Contractor's staff who shall be in attendance at the site throughout the active performance of the Work until Substantial Completion. Upon Substantial Completion the contractor shall provide a supervisor who shall be in attendance at the site throughout the active performance of the Work until Physical Completion. The Superintendent shall have the authority to direct the Work, attend all project meetings, and coordinate the Work of subcontractors. The Project Manager shall attend project meetings, maintain the project schedule, maintain submittal and approval system, and be responsible for change order/field order responses and negotiations. If at any time there are more than five subcontractors performing work on the site simultaneously an additional Superintendent is required coordinate their Work.

6.2 Should the Director deem any employees of the Contractor incompetent or negligent or for any cause unfit for their duty, the Contractor shall dismiss them and they shall not again be employed on the Work.

6.3 Before any part of the Contract shall be sublet or material purchased, the Contractor shall submit to the Director in writing the name of each proposed subcontractor and supplier and obtain the Director's written consent to such subcontractor and supplier. The names shall be submitted in ample time to permit acceptance or rejection of each proposed subcontractor and supplier by the Director or Contracting Officer without causing delay in the work of the Project. The Contractor shall promptly furnish such information as the Director or Contracting Officer may require concerning the proposed subcontractor's and supplier's ability and qualifications, and Minority/Women Owned Business Enterprises Status. Each request for approval of a subcontractor whose subcontract will be valued at $10,000.00 or more shall also be accompanied by a NYS Vendor Responsibility Questionnaire - For-Profit Construction properly completed and executed by the proposed subcontractor.

6.4 The Contractor's use of subcontractors shall not diminish the Contractor's obligations to complete the Work in accordance with the Contract. The Contractor shall control and coordinate the Work of its subcontractors.

6.5 The Contractor shall be responsible for informing its subcontractors and suppliers of all the terms, conditions and requirements of the Contract Documents including, but not limited to the General Conditions, Supplementary Conditions, the Drawings and Specifications, Appendix A, and changes made by Addenda.

ARTICLE 7 - USE OF PREMISES

7.1 If the Premises are occupied, the Contractor, its subcontractors, and their employees shall comply with the regulations governing access to, operation of, and conduct while in or on the Premises and shall perform

the Work in such a manner as not to unreasonably interrupt or interfere with the conduct of business.

7.2 Any request received by the Contractor from any source other than the Director or the Director's Representative to change the Work or its sequence shall be referred to the Director's Representative for determination.

7.3 The Contractor, its subcontractors and their employees shall not have access to or be admitted to any area of the Premises outside the Site except with the written permission of the Director's Representative.

ARTICLE 8 - PERMITS AND COMPLIANCE

8.1 The Contractor shall obtain, maintain and pay for all permits and licenses legally required and shall give all notices, pay all fees and comply with all laws, rules and regulations applicable to the Work at no additional cost.

ARTICLE 9 - INSPECTION AND ACCEPTANCE

9.1 The Director's Representative will inspect and test the Work at reasonable times at the Site, unless the Director determines to make an inspection or test at a place of production, manufacture or shipment. Such inspection or test shall be conclusive as to whether the material and workmanship inspected or tested conforms to the requirements of the Contract. Such inspection or test shall not relieve the Contractor of responsibility for damage to or loss of the material prior to acceptance, nor in any way affect the continuing rights of the Director to reject the completed Work.

9.2 The Contractor shall, without charge, promptly correct any Work the Director's Representative finds does not conform to the Contract Documents unless in the public interest the Director consents to accept such Work with an appropriate adjustment on the Contract sum and/or to any terms and conditions of the Contract. The Contractor shall promptly remove rejected material from the Premises.

9.3 If the Contractor does not promptly correct rejected Work including the work of other sub-contractors destroyed or damaged by removal, replacement, or correction, the Director may (1) correct such Work and charge the cost thereof to the Contractor; or (2) terminate the Contract in accordance with Article 13 of the General Conditions.

9.4 The Contractor shall furnish promptly without additional charge all facilities, labor, material and equipment reasonably needed to perform in a safe and convenient manner such inspections and tests as the Director's Representative requires.

9.5 The Contractor shall keep the Director's Representative informed of the progress of the Contractor's Work and particularly when the Contractor intends to cover Work not yet inspected or tested. All inspection and tests by the Director's Representative shall be performed in such manner as not to unreasonably delay the Work.

9.5.1 The Contractor shall be responsible for all required tests and appropriate test schedules, approvals and inspections pursuant to the Contract Documents.

9.5.2 The Contractor shall be back-charged with any cost of inspection when the Work is not ready at the time specified by the Director's Representative for inspection, or for deficient work that shall require re-testing.

9.6 Should the Director's Representative determine at any time before acceptance of the entire Work to examine Work already completed by removing, uncovering or testing the same, the Contractor shall, on request, promptly furnish all necessary facilities, labor, materials and equipment to conduct such inspection, examination or test. If such Work is found to be defective or nonconforming in any material respect, the Contractor shall defray all the expenses of such examination and satisfactory reconstruction. If the Work is found to meet the requirements of the Contract Documents, the Contractor shall be compensated for the additional services involved in such examination and reconstruction by order on contract and, if completion of the Work has been delayed thereby, shall receive a suitable extension of time.

9.7 No previous inspection or certificates of payment shall relieve the Contractor from the obligation to perform the Work in accordance with the Contract Documents. The final payment shall not relieve the Contractor of the responsibility for failing to comply with the Contract Documents.

9.8 The Contractor shall remedy all defects, paying the cost of any damage to other work or property of the State resulting there from, which shall appear within a period of one year from the date of physical completion.

9.9 Contractor warrants that Product(s) furnished pursuant to this Contract shall, when used in accordance with the Product documentation, be able to accurately process date/time data (including, but not limited to, calculating, comparing, and sequencing) transitions, including leap year calculations. Where a Contractor proposes or an acquisition requires that specific Products must perform as a package or system, this warranty shall apply to the Products as a system.

9.9.1 Where Contractor is providing ongoing services, including but not limited to: i) consulting, integration, code or data conversion, ii) maintenance or support services, iii) data entry or processing, or iv) contract administration services (e.g. billing, invoicing, claim processing), Contractor warrants that services shall be provided in an accurate and timely manner without interruption, failure or error due to the inaccuracy of Contractor's business operations in processing date/time data (including, but not limited to, calculating, comparing, and sequencing) various date/time transitions, including leap year calculations. Contractor shall be responsible for damages resulting from any delays, errors or untimely performance resulting there from, including but not limited to the failure or untimely performance of such services.

9.9.2 This Date/Time Warranty shall survive beyond termination or expiration of this contract through: a) ninety (90) days or b) the Contractor's or Product manufacturer/developer's stated date/time warranty term, whichever is longer. Nothing in this warranty statement shall be construed to limit any rights or remedies otherwise available under this Contract for breach of warranty.

ARTICLE 10 - ORDERS ON CONTRACT (CHANGE ORDERS)

10.1 The State may make changes by altering, adding to or deleting from the Work, and adjusting the Contract sum accordingly. All changed Work shall be executed in conformity with the terms and conditions of the Contract Documents unless otherwise provided in the order on contract. Any change in the Contract sum or time for completion of the described work of the order on contract shall be contained in the order on contract. Any change in schedule resulting from an order on contract will be issued in accordance with the provisions of Paragraphs 4.6 and 13.5 of these General Conditions.

10.2 No written or oral instructions shall be construed as directing a change in the Work unless in the form of an order on contract signed by the Contracting Officer. The order on contract shall describe or enumerate the Work to be performed, state the amount (if any) to be added to or deducted from the Contract sum and state the time allowed (if any) for the performance of the changed work. If the extent or cost of the Work is not determinable until after the changed Work is performed, the order on contract shall specify the method for determining the cost and extent of the changed Work when completed. If the Contractor disagrees as to any element of the order on contract, the Contractor shall promptly indicate such disagreement in writing by certified mail directed to the Contracting Officer and shall promptly proceed in accordance with the order on contract. The Contractor's letter of disagreement shall identify by number the order on contract with which the Contractor is disagreeing, the elements with which the Contractor disagrees and a statement as to why there is a disagreement on each element. The letter of disagreement shall be accompanied by documentation of every material element of the Contractor's basis for disagreement. The Contracting Officer shall promptly review the Contractor's letter and supporting documentation and advise the Contractor in writing of any modifications to the order on contract or of the confirmation of the order on contract as issued. The Contracting Officer may, in the exercise of discretion, conduct informal discussions or meetings with the Contractor and/or State Officials, employees or agents prior to rendering a decision.

10.3 If the Contractor is required to perform Work for which the Contractor believes it is entitled to an order on contract, the Contractor shall give the Director prompt written notice and await instructions before proceeding to execute such Work. The Contractor shall thereafter proceed diligently with the performance of the contract in accordance with the Director's instructions. The Contractor shall maintain complete cost records including but not limited to time and payroll records, material invoices and delivery tickets, equipment rental and purchase invoices for itself and all subcontractors, suppliers and material-men when the Contractor performs work which the Contractor believes is extra or additional work. Failure to maintain such records shall waive any right to extra and additional costs beyond those costs supported by actual cost records.

10.4 The Contracting Officer shall determine the value of any order on contract by one or more of the methods provided in Division 01 - General Requirements.

10.5 Irrespective of the method used or to be used by the State in determining the value of a change order, the Contractor shall after receipt of a request, promptly submit to the State a detailed breakdown of the Contractor's estimate of the value of the omitted or extra work. The Contractor shall submit evidence, satisfactory to the Contracting Officer, to substantiate each and every item that constitutes his proposal for the change. The State shall promptly respond to such submission.

10.5.1 The contractor shall submit a responsive cost proposal to the Director's Representative in proper form subject to the provisions of this Article. The contractor shall respond no later than 30 days from the date of a "request for proposal" from the Director's Representative. Should the contractor fail to respond or submit the required cost proposal within the 30 day requirement, the State shall determine a fair market value for the work proposed and will issue an order on contract or field order to the contract. The Contractor, by failing to respond or provide an acceptable proposal; waives any claim or rights to any extra and or additional costs as determined by the Contracting Officer.

10.6 Unless otherwise specifically provided for in a change order, the compensation specified therein for extra work includes full payment for both the extra work covered thereby and for any damage or expense caused the Contractor by any delays to other work to be done under the Contract resulting from or on account of said extra work, and the Contractor waives all rights to any other compensation for said extra work, damage or expense.

10.7 No order on contract which creates a liability on the State shall be binding unless approved by the Office of the State Comptroller.

ARTICLE 11 - SITE CONDITIONS

11.1 If the Contractor encounters subsurface or other latent physical conditions at the Site which differ substantially from those shown, described or indicated in such information provided by the State or from any information which is a public record and which subsurface or other latent physical condition could not have been reasonably anticipated from that information or from the Contractor's own inspection and examination of the Site, the Contractor shall give immediate written notice to the Director before any such condition is disturbed. The Director shall promptly investigate and, if it is determined that the conditions substantially differ from those which should have been reasonably anticipated, shall make such changes in the Drawings and Specifications as may be required. If necessary, the Contract sum and completion date shall be adjusted, to reflect any increase or decrease in the cost of, or time required for, performance of the Contract.

ARTICLE 12 - SUSPENSION OF WORK

12.1 The Director may order the Contractor in writing to suspend, delay, or interrupt performance of all or any part of the Work for a reasonable period of time as the Director may determine.

12.2 Upon receipt of a suspension order, the Contractor shall, as soon as practicable, cease performance of the Work as ordered and take immediate affirmative measures to protect such Work from loss or damage.

12.3 The Contractor specifically agrees that a suspension, interruption or delay of the performance of the Work pursuant to this Article for a period or periods not exceeding thirty days in total shall not increase the cost of performance of the Work of this Contract other than costs directly related to demobilization and remobilization for the Work, temporary services costs, equipment rental which cannot be practically suspended and temporary protection measures which are unusual but necessary.

ARTICLE 13 - TIME OF COMPLETION AND TERMINATION FOR CAUSE

13.1 All time limits stated in the Contract are of the essence of the Contract.

13.2 Termination for Cause.

13.2.1 If in the judgment of the Group Director, the Contractor fails or refuses to prosecute the Work in accordance with the Contract, or is failing to complete the Work within the time provided by the Contract, the Group Director may terminate the Contract by written notice. In such event, the Group Director shall order the surety to complete the Work.

13.2.2 If it is determined after the award of the contract that there exists any cause of so serious or compelling a nature, including but not limited to, submission to a contracting agency of a false or misleading statement on a NYS Vendor Responsibility Questionnaire, or in some other form in connection with a bid for or award of this or any other contract or a request for approval of a subcontractor, that it raises questions about the present responsibility of a contractor or subcontractor, the Group Director may terminate the Contract by written notice. In such event, the Group Director may or may not in his sole discretion, order the surety to complete the Work.

13.2.3 The Director will notify the Contractor and Surety that the State is considering declaring the Contractor in default and will arrange a hearing with the Contractor and the Surety to discuss methods of performing and completing the contract work.

13.2.4 If the State formally declares the contractor in default the State will demand upon the Surety to complete any and all remaining work pursuant to the terms of the Contract and the Surety Takeover Guidelines incorporated as Appendix B. The Surety may undertake to perform and complete the work itself, through its agents or through independent contractors approved by the State. The State will agree to pay the balance of the Contract price to the Surety in accordance with the terms and conditions of the Contract or to the designee authorized in writing by the surety upon acceptance of the Surety's completion plan pursuant to Appendix B. incorporated herein.

13.2.5 The surety agrees to complete any investigation into the default of the Contractor and advise the Group Director as to its intended course of action within ten days of receipt of the written notice of default. That notice will detail the underlying reasons for the default and provide pertinent documentation including the surety takeover guidelines of the Contracting Officer. Any request by a surety for execution of a takeover agreement, shall be delivered to

the Contracting Officer for consideration, within the same ten day period. No changes in the terms and conditions of the Contract will be considered. All rights remedies and defenses of the parties are reserved and no rights, remedies or defenses of the parties are waived, by virtue of the surety's agreement to assume contract performance under the bond

13.2.6 The Surety may elect to forfeit the remaining penal sum of the Performance Bond within twenty days of notification of default by the State; with no additional penalties imposed, upon the execution of a release prepared by the State. The State will determine the value of the remaining Work based upon its investigation of the Work in place against payments previously authorized. As soon as practical the Surety will tender payment therefore to the State.

13.2.7 If the surety fails or refuses to complete the Work within twenty five days of the notification of the contractors default or if the Surety fails or refuses to complete the work within the time frames allotted by the State, the Group Director may take over the Work and prosecute it to completion by contract publicly let or otherwise, and may take possession of and utilize in completing the Work, such of the Contractor's materials, equipment and plant as may be on the Site of the Work. Whether or not the right to terminate is exercised, the Contractor and the Surety shall be liable for any damage to the State resulting from the failure or refusal to complete the Work in accordance with the Contract or the failure to complete the Work within the time provided by the Contract.

13.2.8 Should the Surety fail to commence the work the Group Director will notify the Surety that the State is considering declaring the Surety in default and will arrange a hearing with the Surety to discuss methods of performing and completing the contract work. It is the policy of the Office of General Services, Design and Construction Group to let a Contract for the remaining work after the 21st day of the demand upon the Surety to complete the Work pursuant to the terms and conditions of the Contract, and the Performance Bond filed with the Office of the State Comptroller.

13.3 The amount of Liquidated Damages shall be the product of $1,000.00 times the number of days of delay in physical completion of the work. Upon the assessment of such damages the State may withhold the sum of the damages contemplated from payments to avoid an overpayment to any firm where damages would apply.

13.3.1 If the Group Director terminates the Contract, damages shall consist of liquidated damages, if any, until the Work is physically completed, plus any increased costs occasioned the State in completing the Work.

13.3.2 If the Group Director does not terminate the Contract, the damages shall consist of liquidated damages, if any, until the Work is physically completed.

13.4 The Contract shall not be so terminated nor the Contractor charged with resulting damage if:

13.4.1 The delay in the completion of the Work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor, including but not restricted to, acts of God, acts of the public enemy, acts of the State in either its sovereign or contractual capacity, acts of another contractor in the performance of a contract with the State, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather, or delays of subcontractors or suppliers arising from unforeseeable causes beyond the control and without the fault or negligence of both the Contractor and such subcontractors or suppliers, and

13.4.2 The Contractor notifies the Director in writing of the causes of delay within ten days from when the Contractor knew or ought to have known of any such delay.

13.5 The Director will ascertain the facts and the extent of the delay and extend the time for completing the Work when, in the Director's judgment, the findings of fact justify such an extension, and the Director's findings of fact shall be final and conclusive on the parties.

13.6 If after notice of termination of the Contract, it is determined for any reason the Contractor was not in default or that the delay was excusable, the rights and obligations of the parties shall be the same as if the notice of termination had been issued pursuant to the termination for convenience clause.

13.7 The rights and remedies of the State provided in this Article are in addition to any other rights and remedies provided by law or under this Contract.

13.8 The State, as defined in Article 2 of these General Conditions, reserves the right to terminate this contract in the event it is found that the certification filed by the offerer in accordance with New York State Finance Law §139-k was intentionally false or intentionally incomplete. Upon such finding, the Governmental Entity may exercise its termination right by providing written notification to the offerer in accordance with the written notification terms of the contract.

ARTICLE 14 - TERMINATION OF CONTRACTOR'S EMPLOYMENT FOR THE CONVENIENCE OF THE STATE OF NEW YORK

14.1 The Group Director may terminate this Contract whenever the public interest so requires by delivering to the Contractor a notice of termination specifying the extent to which performance of Work under the Contract is terminated and the date upon which such termination becomes effective. Upon receipt of the notice of termination, the Contractor shall act promptly to minimize the expenses resulting from such termination. The State shall pay the Contractor the sum of:

14.1.1 The costs actually incurred by the Contractor, subcontractors, and sub-subcontractors or their suppliers up to the effective date of such termination, and

14.1.2 The cost of settling and paying claims, provided the concurrence of the Contracting Officer is obtained prior to agreeing to any such settlement, arising out of the termination of Work under subcontracts or orders exclusive of the amounts paid or payable on account of supplies or materials delivered or services furnished by the subcontractor prior to the effective date of the notice of termination of Work under this Contract, which amounts shall be included in the cost on account of which payment is made under 14.1.1 above, and

14.1.3 An amount determined by adding to the amount of the costs under 14.1.1 above a sum equal to 20% (comprised of 10% overhead and 10% profit) thereof, provided, however, that if it appears that the Contractor would have sustained a documentable loss on the entire Contract had it been completed, an appropriate adjustment shall be made reducing the amount to be paid under this Article to reflect the indicated rate of loss.

14.2 In no event shall the Contractor's compensation exceed the total Contract amount.

14.3 The detailed estimate or amount of progress payments made to the Contractor prior to the day termination was effective shall not be conclusive evidence of costs incurred but progress payments shall be offset against any payment which the State makes to the Contractor as a result of such termination.

ARTICLE 15 - DISPUTES

15.1 The Contractor specifically agrees to submit, in the first instance, any dispute or disagreement relating to the performance of this Contract to the Group Director, who shall render a decision in writing and furnish a copy thereof to the Contractor. The Contractor agrees that this clause does not apply to any dispute or disagreement which involves delay, acceleration, interference or any other act or omission constituting a breach of contract; any matter relating to extensions of time, bonuses or liquidated damages; to the value of any order on contract or field order (issued pursuant to Division 01 - General Requirements); any termination for cause or convenience; or to termination costs allowable pursuant to contract.

15.2 The Contractor must request such decision in writing by certified mail no more than fifteen days after the Contractor knew or ought to have known of the facts which are the basis of the dispute or disagreement. Such writing shall identify the nature of the dispute or disagreement; identify the person who rendered the decision or interpretation involved and the date of the decision or interpretation with which the Contractor disputes or disagrees, attaching a copy of such decision or interpretation; contain a statement of the contractual basis for the dispute or disagreement; and identify the relief sought.

15.3 The Group Director may cause an investigation to be made of the circumstances involving the dispute or disagreement and may cause a fact-finding proceeding to be conducted before rendering the decision.

15.4 The Contractor agrees that the decision of the Group Director shall be final and conclusive. Nothing in this Contract shall be construed as making final the decision of any administrative official upon a question of law.

ARTICLE 16 - STATUTORY REQUIREMENTS FOR UTILIZATION OF MINORITY AND WOMEN OWNED BUSINESS ENTERPRISES

16.1 Pursuant to Section 313 of Article 15-A of the Executive Law of the State of New York, the Director of the Division of Minority and Women's Business Development has promulgated rules and regulations (Parts 140 through 145 of Subtitle N of Title 9 New York Code of Rules and Regulations) (the "Regulations") for the purposes of ensuring that certified Minority and Women owned Business Enterprises shall be given the opportunity for meaningful participation in the performance of State contracts and to facilitate the award of a fair share of State contracts and subcontracts to such business enterprises.

16.2 The Contractor shall make a good faith effort to solicit active participation in the Work by enterprises identified in the directory of certified businesses obtainable from the Division of Minority and Women's Business Development, New York State Department of Economic Development.

16.3 The Contractor agrees, as a material condition of this contract, to be bound by the provisions of Section 316 of Article 15-A of the Executive Law of the State of

New York which relates to the resolution of disputes which may arise under this Article.

16.4 The Contractor agrees to include the provisions of Paragraphs 16.2 and 16.3 of these General Conditions in every subcontract it enters into as to Work in connection with this Contract in such a manner that the provisions will be binding upon such subcontractor. However, the provisions of this paragraph shall not be binding upon the Contractor or its subcontractors in the performance of work or the provision of services that are unrelated, separate or distinct from this Contract as expressed by its terms.

16.5 The Regulations referred to in Paragraph 16.1 of these General Conditions require, among other things, that a bidder or proposer for a State contract submit a utilization plan which shall identify certified Minority or Women Owned Business Enterprises which the bidder/proposer intends to use in connection with the performance of the proposed State contract. Such a utilization plan shall be submitted after bids are opened but prior to contract award.

16.5.1 Pursuant to the Regulations: (1) the Commissioner may require the submission by the Contractor of compliance reports relating to the implementation of and adherence to the utilization plan in performing the Contract; (2) the Commissioner shall allow the Contractor to apply for a partial or total waiver of the Minority and Women Owned Business participation requirements; (3) the Contractor may file a complaint with the Executive Director of the Division of Minority and Women's Business Development regarding a denial of a request for waiver of Minority and Women Owned Business participation requirements; (4) the Commissioner may file a complaint with the Executive Director of the Division of Minority and Women's Business Development in the event the Contractor fails to comply with the Minority and Women Owned Business participation requirements set forth in this Contract; and (5) the Commissioner may disqualify the Contractor's bid or proposal as being non-responsive for failure to remedy notified deficiencies contained in the Contractor's utilization plan after an administrative hearing on the record, reviewing all grounds for disqualification stated by the Commissioner and taking into consideration all the criteria set forth in Section 313 of the Executive Law.

16.5.2 The Contractor is referred to the entirety of the provisions of Section 316 of Article 15-A of the Executive Law of the State of New York and of the Regulations for the Contractor's full familiarization with their applicable provisions as terms of this Contract.

ARTICLE 17 - COORDINATION OF SEPARATE CONTRACTS

17.1 The State may award other contracts which affect the Work of this Contract. In that event, the Contractor shall coordinate its Work with the work of other contractors in such manner as the State may direct. Each contractor shall control and coordinate the work of its subcontractors, if any. The State shall approve or require the modification of the work schedules of all contractors to the end that the Project may be progressed as expeditiously as the case permits.

17.2 If any part of the Work depends for proper execution or results upon the work of any other contractor, the Contractor shall inspect and promptly report in writing to the Director's Representative any defects in such work. The Contractor's failure to inspect and report shall constitute an acceptance of the other contractor's work as fit and proper for the reception of the Contractor's Work.

17.3 The Director's Representative shall issue appropriate directions and take such other measures to coordinate and progress the Work as may be reserved to the State in the Contract, and which an ordinarily reasonable project owner in similar circumstances would be expected to take.

17.4 The award of more than one contract for the Project requires sequential or otherwise interrelated contractor operations, and will involve inherent delays in the progress of any individual contractor's work. Accordingly, the State does not guarantee the unimpeded operations of any contractor. The Contractor acknowledges these conditions, and understands that the Contractor shall bear the risk of all delays caused by the presence or operations of other contractors engaged by the State and delays attendant upon any State-approved construction schedule.

17.5 The State shall not be liable for delays which occur by reason of any contractor's failure to comply with directions of the State or because of the neglect, failure or inability of any contractor to perform its work efficiently.

17.6 The Contractor shall defend, indemnify and hold the State harmless from any and all claims or judgments of damages and from costs and expenses to which the State may be subjected or which it may suffer or incur by reason of or based upon an allegation of the Contractor's failure to promptly comply with the directions of the Director's Representatives.

17.7 Should the Contractor sustain any damage through any act or omission of any other contractor having a contract with the State for the performance of work upon the Site of work which may be necessary to

be performed for the proper prosecution of the Work to be performed hereunder, or through any act or omission of a subcontractor of such contractor, the Contractor shall have no claim against the State for such damage, but shall have a right to recover such damage from the other contractor under the provision similar to the following provision which has been or will be inserted in the contract with such other contractors.

17.8 Should any other contractor having or who shall hereafter have a contract with the State for the performance of work upon the Site sustain any damage through any act or omission of the Contractor hereunder or through any act or omission of any subcontractor of the Contractor, the Contractor agrees to reimburse such other contractor for all such damages and to indemnify and hold the State harmless from all such claims.

ARTICLE 17A - DELAYS

17A.1 For the purposes of this Contract, the term delay includes delay, disruption, interference, inefficiencies, impedance, hindrance and acceleration.

17A.2 The Contractor agrees to make claim only for additional costs as defined in Document 012200, section 1.01, paragraph H from causes listed below, attributable to delay in the performance of this contract, occasioned by any act or omission to act by the State or any of its representatives. The Contractor also agrees that delay from any other cause shall be compensated for solely by an extension of time to complete the performance of the work.

17A.2.1 The failure of the State to take reasonable measures to coordinate and progress the work.

17A.2.2 Extended delays attributable to the State in the review or issuance of orders on contract or field orders, in shop drawing reviews and approvals or as a result of the cumulative impact of multiple orders on contract, which constitute a qualitative change to the project work and which have a verifiable impact on project costs.

17A.2.3 The unavailability of the site for such an extended period of time which the Director determines to significantly affect the scheduled completion of the contract.

17A.2.4 The issuance by the Director of a stop work order relative to a substantial portion of work for a period exceeding thirty days.

17A.3 The Contractor shall provide "notice of claim" of an anticipated claim for delay to the Contracting Officer by personal service or certified mail no more than fifteen days after the Contractor knew or ought to have known of the facts which form the basis of the claim. The Contracting Officer shall acknowledge receipt of the Contractor's notice, in writing, within five days. The Contractor agrees that the State shall have no liability for any damages which accrue more than fifteen days prior to the delivery or mailing of the required notice. The notice shall at a minimum provide a description of any operations that were, are being, or will be delayed, the date(s) and reasons for the delay, and, to the extent known, the information required by Paragraph 17A.6 of these General Conditions. In no case, shall oral notice to the Director's Representative or contracting officer constitute notice under this provision or be deemed to constitute a waiver of the written notice requirement. In no case, shall written notice to the Director's Representative or any other individual other that the Contracting Officer constitute notice under this provision or be deemed to constitute a waiver of the written notice requirement. The Contracting Officer is located at the following location:

Division of Contract Administration
Contracting Officer
35th Floor, Corning Tower
Albany, New York 12242

17A.4 Failure by the Contractor to adequately progress the completion of the work will be considered in determining the causes of delay. For any claim asserted under this Article, the Contractor shall keep detailed written records of the costs and shall make them available to the Contracting Officer at any time for the purposes of audit and review. Failure by the Contractor to provide the required written notice or to maintain and furnish records of the costs of such claims to the Contracting Officer shall constitute a waiver of the claim.

17A.5 The provisions of this Article apply only to claims for extra or additional costs attributable to delay and do not preclude determinations by the Director allowing reimbursement for additional costs for extra work pursuant to Article 10 of these General Conditions.

17A.6 REQUIRED CONTENT OF CLAIM SUBMISSION.

17A.6.1 As noted in Paragraph 17.A.3 of these General Conditions, all claims for delay shall be submitted in writing to the Contracting Officer and must be in sufficient detail to enable the Contracting Officer to ascertain the basis and the amount of each claim. The following information shall be provided by the Contractor upon request of the Contracting Officer if not previously supplied:

a. A description of the operations that were delayed, the reasons for the delay and an explanation of how they were delayed.

b. A detailed factual statement of the claim providing all necessary dates, locations and items of work affected by the claim.

c. An as-built chart, "Critical Path Method" scheme or other diagram or chart depicting in graphic form how the operations were or are claimed to be adversely affected including the report and conclusions of all engineering and scheduling experts or other consultants, if any.

d. The date on which actions resulting in the claim occurred or conditions resulting in the claim became evident.

e. A copy of the approved project schedule and a copy of the "notice of claim" required for the specific claim by Paragraph 17A.3 of these General Conditions.

f. To the extent known, the name, function, and activity of each State official, employee or agent, involved in, or knowledgeable about facts that gave rise to such claim.

g. The name, function, and activity of each Contractor or subcontractor officer, or employee, involved in, or knowledgeable about facts that gave rise to such claim.

h. The identification of any pertinent documents, and the substance of any material oral communication relating to such claim.

i. The amount of additional compensation sought and a breakdown of that amount into the categories specified in Division 01 - General Requirements.

j. If an extension of time is also requested, the specific number of days for which it is sought and the basis for such request as determined by an analysis of the construction progress schedule.

17A.7 REQUIRED CERTIFICATION OF CLAIMS.

17A.7.1 When submitting any notice of claim or claim data, the Contractor must certify in writing and under oath:

a. That supporting data is accurate and complete to the Contractor's best knowledge and belief;

b. That the amount of the claim and the claim itself accurately reflects what the Contractor in good faith believes to be the State's liability.

17A.7.2 If the Contractor is an individual, the certification shall be executed by that individual. If the Contractor is not an individual, the certification shall be executed by a company official in charge of the Contractor's operations pertaining to this contract or an officer or general partner of the Contractor having overall responsibility for the conduct of the Contractor's affairs.

17A.7.3 Failure to timely comply with any of the requirements of Article 17A for the submission of any claim for delay may constitute grounds for denial of such claim.

ARTICLE 18 - RESPONSIBILITY FOR DAMAGE

18.1 The Contractor shall faithfully perform and complete all of the Work required by the Contract, and has full responsibility for the following risks:

18.1.1 Loss or damage, direct or indirect, to any property owned by the State or to the Work including the building or structure in which the Work is being performed, or any other construction in progress whether being performed by any other contractor or the State, or to any plant, equipment, tools, materials or property furnished, used, installed or received by the Director under this Contract or any other contract. The Contractor shall bear all such risk of loss or damage, until all of the Work covered by the Contract has been finally accepted. In the event of such loss or damage the Contractor shall forthwith repair, replace, and make good any such loss or damage without additional cost.

18.1.2 Injury to persons (including death resulting there from), or damage to property caused by an occurrence arising out of the performance of this Contract for which the Contractor may be legally liable under the laws of torts.

18.2 The Contractor, however, shall not be responsible for damages resulting from faulty design or from willful acts of State officials or employees or from negligence resulting solely from acts or omissions of the State, its officers or employees. Nothing herein shall vest in third parties any right of action beyond such as may legally exist irrespective of this Article.

18.3 The Contractor shall indemnify and save harmless the State, its employees and agents from suits, actions, damages, and costs of every name and description relating to the performance of this Contract during its prosecution and until the acceptance thereof, and the State may retain such moneys from the amount due the Contractor as may be necessary to satisfy any claim for damages recovered against the State. The Contractor's obligations under this paragraph shall not be deemed waived by the failure of the State to retain the whole or any part of such moneys due the Contractor, nor shall such obligation be deemed limited or discharged by the enumeration or procurement of any insurance for liability for damages imposed by law upon the Contractor, subcontractor or the State.

ARTICLE 19 - INSURANCE - BUILDER'S RISK, LIABILITY AND WORKERS' COMPENSATION

19.1 Before commencing the Work and until the established Physical Completion date, all insurance required by the Contract shall be obtained at the sole cost and expense of the Contractor; and the Contractor shall furnish to the Contracting Officer a Certificate of

Insurance in a form satisfactory to the Contracting Officer showing that the Contractor has complied with this Article. Insurance shall be maintained with insurance carriers licensed to do business in New York State and acceptable to the Contracting Officer; shall be primary and non-contributing to any insurance or self insurance maintained by OGS; and shall be endorsed to provide written notice be given to the Contracting Officer at least thirty days prior to the cancellation, non-renewal, or material alteration of such policies, which notice, evidenced by return receipt of United States Certified Mail, any notice shall be addressed to:

Division of Contract Administration
Director
35th Floor, Corning Tower
Albany, New York 12242

19.1.1 The endorsement shall name The People of the State of New York, its officers, agents, employees and the assigned construction manager as additional insureds there under. This additional insured shall be primary and non-contributory. (General Liability Additional Insured Endorsement shall be on Insurance Service Office's (ISO) form number CG 20 10 11 85 and a copy of which shall be furnished along with the Certificate of Insurance.) The Contracting Officer may modify the provisions of this Article when deemed in the best interest of the State by order on contract or field order.

19.1.2 The Contractor, throughout the term of this Contract, or as otherwise required by this Contract, shall obtain and maintain in full force and effect on an occurrence form, the following insurance with limits not less than those described in this article, and as required by the terms of this Contract, or as required by law, whichever is greater. If such insurance contains an aggregate limit, it shall apply separately on a per job, per location basis.

19.1.3 The Contractor shall be solely responsible for the payment of all deductibles and Self Insured Retentions.

19.1.4 Not less than thirty days prior to the expiration date or renewal date of any insurance policies reflected on such certificates, the Contractor shall supply OGS updated replacement Certificates of Insurance, and amendatory endorsements.

19.2 The kinds and amount of insurance is as follows:

19.2.1 Workers' Compensation Insurance and Disability Benefits Law. A policy covering the obligations of the Contractor in accordance with the Workers' Compensation Law and the Disability Benefits Law covering all operations under the Contract, whether performed by the Contractor or by its subcontractor.

19.2.2 Commercial General Liability, and if necessary, Commercial Umbrella Liability Insurance with a limit of not less than $2,000,000 each occurrence. Such liability shall be written on the ISO occurrence form CG 00 01, or a substitute form providing equivalent coverages and shall cover liability resulting in Bodily Injury, Property Damage, Personal Injury or loss of use arising from premises operations, independent contractors, products-completed operations, broad form property damage, personal & advertising injury, cross liability coverage, liability assumed in a contract (including the tort liability of another assumed in a contract) and explosion, collapse & underground coverage.

If such insurance contains an aggregate limit, it shall apply separately on a per job, per location basis.

19.2.3 Comprehensive Business Automobile Liability, and if necessary, Commercial Umbrella Liability Insurance with a limit of not less than $2,000,000 each accident. Such insurance shall cover liability arising out of any automobile including owned, leased, hired and non-owned automobiles.

19.2.4 Builder's Risk: The Contractor shall be liable for any and all damages and losses to the Project prior to the State of New York's acceptance of the Project as fully completed except that the Contractor shall not be liable for:

19.2.4.1 Losses covered by the Builder's Risk property insurance provided by the State of New York; except that the Contractor shall be liable for the applicable deductible.

19.2.4.2 All policies shall be issued by insurance companies licensed to conduct such business under the laws of the State of New York, shall be written for the benefit of the State of New York and for the Contractor as their interests may appear, and shall run until the contract physical completion date. The State of New York must be listed as loss payee pursuant to this policy. Policies expiring on a fixed date before physical completion must be renewed and re-filed not less than thirty days before such expiration date.

19.2.5 If the work involves abatement, removal, repair, replacement, enclosure, encapsulation and/or disposal of any petroleum, petroleum product, hazardous material or substance including asbestos, lead or mold, and those as defined by applicable State and federal laws and regulations, the Contractor shall procure, or otherwise obtain through an approved subcontractor, and maintain in full force and effect throughout the term of the contract, and for two years after completion hereof, pollution legal liability insurance with limits of not less than $5,000,000, providing coverage for bodily injury and property

damage, including loss of use of damaged property or of property that has not been physically injured. Such policy shall provide coverage for actual, alleged or threatened emission, discharge, dispersal, seepage, release or escape of pollutants, including any loss, cost or expense incurred as a result of any cleanup of pollutants or in the investigation, settlement or defense of any claim, suit, or proceedings against OGS arising from Contractor's work. The State of New York shall be named as additional insured and this shall be primary.

19.2.5.1 If automobiles are to be used for transporting hazardous materials, the Contractor shall provide pollution liability broadened coverage for covered autos (endorsement CA 99 48) as well as proof of MCS 90.

19.3 The Contractor may provide the required proof of insurance on industry forms provided that no other endorsements exclude, delete or restrict those coverage's provided for by this article. It is required that companies affording coverage list the company name in full as filed with the New York State Insurance Department. The contract number and project location must be provided in order to approve the certificate.

19.4 Should the Contractor fail to provide or maintain any insurance required by law the Contract will be considered null and void. Further, no contractor is permitted to access the project site without providing proof of proper insurance to the Contracting Officer or his designated representative. No payments will be authorized by the Contracting Officer to any firm who fails to comply with the provisions of this Article.

ARTICLE 20 - OCCUPANCY PRIOR TO COMPLETION AND ACCEPTANCE

20.1 The State shall have the right to take possession of or use any completed or partially completed portion of the Work. Written notice of such possession shall be given to the Contractor by the Director. The notice shall identify the date when such possession shall commence and the area, equipment or system involved. Written notice shall also be given the Contractor for any cessation of such possession by the State. Such possession or use shall not be deemed an acceptance of any Work. While the State is in such possession, the Contractor, notwithstanding the provisions of Article 18 of the Contract, shall be relieved of the responsibility for loss or damage to the Work except for that resulting from the Contractor's fault or negligence. If such possession or use by the State delays the progress of the Work or causes additional expense to the Contractor, an adjustment in the Contract price and/or the time of completion shall be made and the Contract modified in writing accordingly. The provisions relating to an adjustment in the Contract price or the time of completion contained in this paragraph shall not apply to occupancy or possession after Substantial Completion.

ARTICLE 21 - PAYMENT

21.1 The Contractor shall submit monthly, or at more frequent intervals if permitted in writing by the Contracting Officer, a requisition for a progress payment to the designated payment office for Work performed and materials furnished up to the date of the requisition, less any amount previously paid to the Contractor. Except as otherwise provided by this Contract, the Contracting Officer shall approve and cause to be paid the requisition for the progress payment less an amount necessary to satisfy any claims, liens or judgments against the Contractor which have not been suitably discharged and less any amount authorized by law to be retained. The requisition shall be in such form and supported by such evidence as the Contracting Officer may reasonably require. The designated payment office is listed as follows:

Division of Contract Administration
Bureau of Contract Performance
35th Floor, Corning Tower
Albany, New York 12242

21.1.1 For those contracts designated as Labor and Material reimbursement or similar type contracts, the contractor shall submit to the Contract Payment Audit Group no later than 60 days from the period of when the work occurred, acceptable proof of labor and material costs specific to the approved scope of work as verified by the Directors Representative, to the Contracting Officer for audit, verification and approval prior to the submission of any payment. The Contract Payment Audit Group is located at the following location:

Division of Contract Administration
Contract Payment Audit Group
35th Floor, Corning Tower
Albany, New York 12242

21.1.2 The submittal of cost for reimbursement to the Contractor shall be in such form and supported by such evidence as the Contracting Officer may reasonably require.

21.1.3 For those contracts designated as Electronic Contractor Requisition (ECR) eligible, if the contractor agrees to participate (participation is not mandatory – a contractor may still elect to submit paper requisitions) , the contractor shall provide an Electronic Contractor Requisition (ECR) Program Certification form which shall become part of this agreement. The contractor further certifies that the individual certifying the requisition is duly authorized to undertake requisitioning transactions. The contractor understands that the State will rely on the information disclosed in the contractor's requisition consistent with all of the

provisions of this Article. A contractor need not submit electronic requisitions in order to receive electronic payments.

21.2 The Director or the Contracting Officer may refuse to approve the requisition or a portion of it if the Contractor is failing or refusing to prosecute the Work in accordance with the Contract.

21.3 Payment will be made for approved materials not yet incorporated in the Work which are in short and/or critical supply and for materials determined to be specifically fabricated for the project. Requisitions which require payment for materials shall be accompanied by a notarized statement certifying that the materials for which payment is requisitioned are the Contractor's property and have been suitably stored and insured. The Contractor shall provide such evidence of the value of the material stored as the Contracting Officer may reasonably require. The Contractor shall have full continuing responsibility to insure and protect such materials and maintain them in proper condition to fulfill Contract requirements when installed.

21.4 When the Work or major milestones thereof as contemplated by the terms of this Contract are substantially completed, the Contractor shall submit to the Contracting Officer a requisition for payment of the remaining amount of the Contract balance. Upon receipt of such requisition the Contracting Officer shall, except as otherwise provided by this Contract, approve and cause to be paid the remaining amount of the Contract balance less two times the value of any remaining items to be completed and an amount necessary to satisfy any claims, liens or judgments against the Contractor which have not been suitably discharged. As the remaining items of Work are satisfactorily completed or corrected, the Contracting Officer shall cause to be paid, upon receipt of a requisition, for these remaining items less an amount necessary to satisfy any claims, liens or judgments against the Contractor which have not been suitably discharged.

21.5 No more than 60 days after the issuance of the Physical Completion Report, the Contractor shall submit to the Contracting Officer or his designated representative a requisition for payment of the remaining Contract balance. Upon receipt of this requisition, the Contracting Officer shall, except as otherwise provided by this Contract, approve and cause such requisition to be paid less any amount necessary to satisfy any claims, liens or judgments against the Contractor which have not been suitably discharged. The Contractor waives any claim or right to payment of any contract balance which has not been requisitioned for payment within 60 days of the issuance of the Physical Completion Report.

21.6 The final certificate letter will not be issued until all the labor and material required by the Contract has been furnished and completed, all disputes and claims relating to the performance of the Contract considered and disposed of and all accounts for extra work and materials and allowances for omissions have been rendered and considered. The Contractor waives any claim or right to additional compensation which has not been submitted in writing via certified or registered mail to the Contracting Officer pursuant to Article 17A, within thirty days of the issuance of the Physical Completion Report.

21.7 The final certificate letter will constitute the acceptance of the Work by the State, except as to Work thereafter found to be defective. The date of such certificate shall be regarded as the date of acceptance of the Work.

21.8 No payment will be made to a foreign Contractor until it furnishes satisfactory proof that it has paid all taxes required of foreign Contractors under the provisions of the New York State Tax Law. A foreign Contractor as used in this paragraph shall mean a Contractor denominated "foreign" by the New York State Tax Law.

21.9 The contractor is advised that consistent with Subdivision 3-a, of Section 220 of the Labor Law, the filing of certified payroll records is a condition precedent to payment of any sums due and owing to any person performing work on this project. The failure to file pursuant to this section will result in a payment delay until such time as the filing occurs.

21.10 The Contractor acknowledges that it will not receive payment on any requests for payment unless the contractor complies with the State Comptroller's electronic payment deposit procedures Payments requested by the contractor will only be facilitated via electronic deposit, except where the Commissioner has expressly authorized payment by paper check.

ARTICLE 22 - AUDITS AND RECORDS

22.1 The Group Director, the Comptroller or their representatives shall have the right to examine all books, records, documents, and other data of the Contractor, subcontractors, material-men or suppliers relating to the bidding, pricing or performance of this Contract or any change or modification thereto for the purpose of evaluating the accuracy, completeness, and currency of the cost or pricing data submitted. This right of examination shall extend to all documents necessary to permit adequate evaluation of the cost or pricing data submitted along with the computations and projections used therein.

22.2 The above materials shall be made available at the office of the Contractor, subcontractors, material-men or suppliers at all reasonable times for inspection,

audit or reproduction until the expiration of six years from the date of the final certificate for the Contract.

22.3 If this Contract is completely or partially terminated, the records relating to the Work terminated shall be made available for a period of six years from the date of any resulting final settlement.

22.4 Records which relate to the Disputes Clause of this Contract or litigation or the settlement of claims arising out of the performance of this Contract shall be made available until such appeals, litigation or claims have been disposed of.

22.5 The Contractor shall insert a clause containing all of the provisions of Paragraphs 22.1 to 22.4 of these General Conditions in all subcontracts or purchase orders issued hereunder.

22.6 The Contractor shall make available to the Contracting Officer, upon written request, all records required to be kept by this Contract or by Article 3-A of the Lien Law. The failure to provide said records upon the receipt of the written request shall bar any recovery for claimed extra or additional costs under this Contract.

ARTICLE 23 – LABOR LAW PROVISIONS

23.1 The contractor shall post, in a location designated by the State, a copy of the New York State Department of Labor schedules of prevailing wages and supplements for this Project, a copy of all re-determinations of such schedules for the Project, the Workers' Compensation Law Section 51 notice, all other notices required by law to be posted at the Site, the Department of Labor notice that this Project is a public work project on which each worker is entitled to receive the prevailing wages and supplements for the occupation at which he or she is working, and all other notices which the State directs the contractor to post. The contractor shall provide a surface for such notices which is satisfactory to the State. The contractor shall maintain such notices in a legible manner and shall replace any notice or schedule which is damaged, defaced, illegible or removed for any reason. The contractor shall post such notices before commencing any Work on the Site and shall maintain such notices until all Work on the Site is complete.

23.2 The contractor shall distribute to each worker for this Contract a notice, in a form provided by the State, that this Project is a public work project on which each worker is entitled to receive the prevailing wage and supplements for the occupation at which he or she is working. Worker includes employees of contractor and all Subcontractors and all employees of Suppliers entering the Site. Such notice shall be distributed to each worker before he or she starts performing any Work of this Contract. At the time of distribution, the contractor shall have each worker sign a statement, in a form provided by the State, certifying that the worker has received the notice required by this section, which signed statement shall be maintained with the payroll records required by Paragraph 23.3 of these General Conditions.

23.3 The contractor shall maintain on the Site the original certified payroll or certified transcripts thereof which the contractor and all of its Subcontractors are required to maintain pursuant to New York Labor Law Section 220. The contractor shall maintain with the payrolls or transcripts thereof, the statements signed by each worker pursuant to Paragraph 23.2 of these General Conditions.

23.4 A contractor or subcontractor who is required under New York Labor Law Section 220 to maintain transcripts of payroll records must submit to the contracting agency a transcript of the original payroll record within thirty days of issuance of its first payroll and every thirty days, thereafter. The copy of the payroll record must be subscribed and affirmed as true under penalty of perjury. The copy must include the contract number and should be directed to the Director's Representative at the job site. The Directors Representative is hereby designated as the individual responsible for the receipt, collection and review for authenticity of payroll records filed for this contract, consistent with Article 23.4, General Conditions and subparagraph (iii) and (iv) Section 220 Labor Law.

23.5 In accordance with New York Labor Law §222-H, the contractor agrees where the total cost of all work to be performed under the contract is at least two hundred fifty thousand dollars; all laborers, workers, and mechanics employed in the performance of this contract on the public work site, either by the contractor, sub-contractor or other person doing or contracting to do the whole or a part of the work contemplated by this contract, shall be certified prior to performing any work on the project as having successfully completed a course in construction safety and health approved by the United States department of labor's occupational safety and health administration that is at least ten hours in duration.

23.6 In accordance with New York Labor Law § 220 (3) (a), the Contractor and every sub-contractor agrees to notify all laborers, workers or mechanics in their employ in writing of the prevailing rate of wage for their particular job classification. Such notification shall be given to every laborer, worker or mechanic on their first pay stub and with every pay stub thereafter. At the beginning of performance of every public works contract, and with the first paycheck after July first of each year, the Contractor and every sub-contractor shall notify all laborers, workers, and mechanics in their employ in writing, in accordance with such form as is prescribed by the department, of the telephone number and address for the department. The notice shall also

inform each laborer, worker, or mechanic of his or her right to contact the department or some other representative if, at any time while working for the public works contractor or sub-contractor, he or she does not receive the proper prevailing rate of wages or supplements for his or her particular job classification that he or she is entitled to receive under the contract.

ARTICLE 24 - STATUTORY REQUIREMENTS FOR RESTRICTIONS ON CONTACTS DURING THE PROCUREMENT PROCESS AND DISCLOSURE OF CONTACTS AND RESPONSIBILITY OF OFFERERS MISCELLANEOUS PROVISIONS

24.1 New York State Finance Law §139-k requires that every procurement contract award subject to the provisions of State Finance Law §139-k or §139-j shall contain a certification by the offerer that all information provided to the procuring governmental agency with respect to State Finance Law §139-k is complete, true and accurate. The Contractor shall provide that certification in his contract or agreement.

24.2 New York State Finance Law

24.2.1 New York State Finance Law § 139-k(2) obligates a Governmental Entity to obtain specific information regarding prior non-responsibility determinations. This information must be collected in addition to the information that is separately obtained pursuant to State Finance Law § 163 (9). In accordance with State Finance Law § 139-k, an offerer must be asked to disclose whether there has been a finding of non-responsibility made within the previous four (4) years by any Governmental Entity due to: (a) a violation of State Finance Law § 139-j or (b) the intentional provision of false or incomplete information to a Governmental Entity.

24.2.2 As part of its responsibility determination, State Finance Law § 139-k(3) mandates consideration of whether an offerer fails to timely disclose or complete information regarding the above non-responsibility determination. In accordance with law, no procurement contract shall be awarded to any offerer that fails to timely disclose accurate or complete information under this section, unless a finding is made that the award of the Procurement Contract to the Offerer is necessary to protect public property or public health safety, and that the Offerer is the only source capable of supplying the required Article of Procurement within the necessary timeframe. The required forms to be completed by the offerer must be submitted to the Governmental Entity conducting the government procurement. The Governmental Entity will have included the disclosure request in its solicitation of proposals or bid documents or specifications of contract documents, as applicable, for procurement contracts.

ARTICLE 25 – MISCELLANEOUS PROVISIONS

25.1 Appendix A, standard clauses for all N.Y. State contracts, is attached hereto and is made a part of this agreement as if set forth herein.

25.2 If, in carrying out this Work, a harmful dust hazard is created for which appliances or methods for the elimination of harmful dust have been approved by the Board of Standards and Appeals, then the Contractor shall install, maintain and effectively operate such appliances and methods during the life of this Contract; and in case of Contractor's failure to comply, as provided by Section 222-a of the Labor Law, the Contract shall be void.

25.3 RETAINED PERCENTAGES: The Contractor agrees that, if the Contract Documents for this Contract includes Performance and Payment Bonds, the State shall retain five percent of the amount of each progress payment in accordance with Section 139-f of the State Finance Law. The Contractor further agrees that, if the Contract Documents for this Contract do not include Performance and Payment Bonds, the State shall retain ten percent of the amount of each progress payment in accordance with Section 139-f of the State Finance Law.

25.4 DOMESTIC STEEL: The Contractor agrees, that if the value of this contract exceeds $100,000 all structural steel, reinforcing steel and other major steel items to be incorporated in the Work of this Contract shall be produced and made in whole or substantial part in the United States, its territories or possessions.

25.5 COMMENCEMENT OF ACTIONS: The time, as prescribed by law, within which an action on the contract against the Contractor must be commenced shall be computed from the completion of physical work. The Contractor may notify the State in writing that the physical work of the contract has been completed by specifying a completion date, which date shall be no more than thirty days previous to the date of such notice. The completion date set forth in such notice shall be deemed the date of completion of the physical work unless the State, within thirty days of receipt of such notice, notifies the Contractor in writing of its disagreement. Any notice pursuant to this paragraph shall be sent by the Contractor by Certified Mail and addressed to:

Division of Contract Administration
Contracting Officer
35th Floor, Corning Tower
Albany, New York 12242

25.5.1 In the event that the Contractor fails to send the notice provided for herein or the State disagrees in the manner provided for herein, the date of completion of the physical work shall be determined in any other manner provided by law.

25.6 WORKER'S COMPENSATION LAW: In accordance with Worker's Compensation Law (WCL) §141-b (Suspension and Debarment), any person subject to a final assessment of civil fines or penalties or a stop-work order, or that has been convicted of a misdemeanor for a violation of WCL §§ 26 (Enforcement of Payment in Default), 52 (Effect of Failure to Secure Compensation) or 131 (Payroll Records), and any substantially-owned affiliated entity of such person, shall be ineligible to submit a bid on or be awarded any such public work contract or subcontract with the State, any municipal corporation or public body for a period of one (1) year from the final determination or conviction. Any person convicted of a felony under Article 8 (Administration) of the WCL, or a misdemeanor under WCL §§125 (Job Description Prohibited Based on Prior Receipt of Benefits) and 125-a (Civil Enforcement) shall be ineligible to submit a bid or be awarded any public work contract or subcontract with the State, any municipal corporation or public body for a period of five (5) years from such conviction.

25.7 ENVIRONMENTAL CONSERVATION LAWS: The Contractor certifies and warrants that all heavy duty vehicles, as defined in New York State Environmental Law (ECL) section 19-0323, to be used under this Contract, will comply with the specifications and provisions of ECL section 19-0323 and any regulations promulgated pursuant thereto, which requires the use of BART and ULSD, unless specifically waived by NYSDEC. Qualification for a waiver under this law will be the responsibility of the Contractor.

25.8 REPORTING OF ILLEGAL ACTIVITY: During the term of the contract, the Contractor agrees to report any observed or suspected illegal activity of its employees, agents or other third parties, to the Contracting Officer at 518-474-0201, the Group Director, OGS Legal Services, the State Inspector General or other law enforcement agency. Failure to report criminal conduct associated with a contract awarded by the Office of General Services, will be considered a material breach of the contract and may provide grounds for disqualification of the subject Contractor or Subcontractor for award of future contracts. The Contractor will include the provisions of this section in every subcontract, in such a manner that the provisions will be binding upon each Subcontractor as to work performed in connection with the State contract.

APPENDIX A

STANDARD CLAUSES FOR NEW YORK STATE CONTRACTS

**PLEASE RETAIN THIS DOCUMENT
FOR FUTURE REFERENCE.**

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STANDARD CLAUSES FOR NYS CONTRACTS

The parties to the attached contract, license, lease, amendment or other agreement of any kind (hereinafter, "the contract" or "this contract") agree to be bound by the following clauses which are hereby made a part of the contract (the word "Contractor" herein refers to any party other than the State, whether a contractor, licenser, licensee, lessor, lessee or any other party):

1. EXECUTORY CLAUSE. In accordance with Section 41 of the State Finance Law, the State shall have no liability under this contract to the Contractor or to anyone else beyond funds appropriated and available for this contract.

2. NON-ASSIGNMENT CLAUSE. In accordance with Section 138 of the State Finance Law, this contract may not be assigned by the Contractor or its right, title or interest therein assigned, transferred, conveyed, sublet or otherwise disposed of without the State's previous written consent, and attempts to do so are null and void. Notwithstanding the foregoing, such prior written consent of an assignment of a contract let pursuant to Article XI of the State Finance Law may be waived at the discretion of the contracting agency and with the concurrence of the State Comptroller where the original contract was subject to the State Comptroller's approval, where the assignment is due to a reorganization, merger or consolidation of the Contractor's business entity or enterprise. The State retains its right to approve an assignment and to require that any Contractor demonstrate its responsibility to do business with the State. The Contractor may, however, assign its right to receive payments without the State's prior written consent unless this contract concerns Certificates of Participation pursuant to Article 5-A of the State Finance Law.

3. COMPTROLLER'S APPROVAL. In accordance with Section 112 of the State Finance Law, if this contract exceeds $50,000 (or $75,000 for State University of New York or City University of New York contracts for goods, services, construction and printing, and $150,000 for State University Health Care Facilities) or if this is an amendment for any amount to a contract which, as so amended, exceeds said statutory amount, or if, by this contract, the State agrees to give something other than money when the value or reasonably estimated value of such consideration exceeds $25,000, it shall not be valid, effective or binding upon the State until it has been approved by the State Comptroller and filed in his office. Comptroller's approval of contracts let by the Office of General Services, either for itself or its customer agencies by the Office of General Services Business Services Center, is required when such contracts exceed $85,000. Comptroller's approval of contracts established as centralized contracts through the Office of General Services is required when such contracts exceed $125,000, and when a purchase order or other procurement transaction issued under such centralized contract exceeds $200,000.

4. WORKERS' COMPENSATION BENEFITS. In accordance with Section 142 of the State Finance Law, this contract shall be void and of no force and effect unless the Contractor shall provide and maintain coverage during the life of this contract for the benefit of such employees as are required to be covered by the provisions of the Workers' Compensation Law.

5. NON-DISCRIMINATION REQUIREMENTS. To the extent required by Article 15 of the Executive Law (also known as the Human Rights Law) and all other State and Federal statutory and constitutional non-discrimination provisions, the Contractor will not discriminate against any employee or applicant for employment, nor subject any individual to harassment, because of age, race, creed, color, national origin, citizenship or immigration status, sexual orientation, gender identity or expression, military status, sex, disability, predisposing genetic characteristics, familial status, marital status, or domestic violence victim status or because the individual has opposed any practices forbidden under the Human Rights Law or has filed a complaint, testified, or assisted in any proceeding under the Human Rights Law. Furthermore, in accordance with Section 220-e of the Labor Law, if this is a contract for the construction, alteration or repair of any public building or public work or for the manufacture, sale or distribution of materials, equipment or supplies, and to the extent that this contract shall be performed within the State of New York, Contractor agrees that neither it nor its subcontractors shall, by reason of race, creed, color, disability, sex, or national origin: (a) discriminate in hiring against any New York State citizen who is qualified and available to perform the work; or (b) discriminate against or intimidate any employee hired for the performance of work under this contract. If this is a building service contract as defined in Section 230 of the Labor Law, then, in accordance with Section 239 thereof, Contractor agrees that neither it nor its subcontractors shall by reason of race, creed, color, national origin, age, sex or disability: (a) discriminate in hiring against any New York State citizen who is qualified and available to perform the work; or (b) discriminate against or intimidate any employee hired for the performance of work under this contract. Contractor is subject to fines of $50.00 per person per day for any violation of Section 220-e or Section 239 as well as possible termination of this contract and forfeiture of all moneys due hereunder for a second or subsequent violation.

6. WAGE AND HOURS PROVISIONS. If this is a public work contract covered by Article 8 of the Labor Law or a building service contract covered by Article 9 thereof, neither Contractor's employees nor the

employees of its subcontractors may be required or permitted to work more than the number of hours or days stated in said statutes, except as otherwise provided in the Labor Law and as set forth in prevailing wage and supplement schedules issued by the State Labor Department. Furthermore, Contractor and its subcontractors must pay at least the prevailing wage rate and pay or provide the prevailing supplements, including the premium rates for overtime pay, as determined by the State Labor Department in accordance with the Labor Law. Additionally, effective April 28, 2008, if this is a public work contract covered by Article 8 of the Labor Law, the Contractor understands and agrees that the filing of payrolls in a manner consistent with Subdivision 3-a of Section 220 of the Labor Law shall be a condition precedent to payment by the State of any State approved sums due and owing for work done upon the project.

7. NON-COLLUSIVE BIDDING CERTIFICATION. In accordance with Section 139-d of the State Finance Law, if this contract was awarded based upon the submission of bids, Contractor affirms, under penalty of perjury, that its bid was arrived at independently and without collusion aimed at restricting competition. Contractor further affirms that, at the time Contractor submitted its bid, an authorized and responsible person executed and delivered to the State a non-collusive bidding certification on Contractor's behalf.

8. INTERNATIONAL BOYCOTT PROHIBITION. In accordance with Section 220-f of the Labor Law and Section 139-h of the State Finance Law, if this contract exceeds $5,000, the Contractor agrees, as a material condition of the contract, that neither the Contractor nor any substantially owned or affiliated person, firm, partnership or corporation has participated, is participating, or shall participate in an international boycott in violation of the federal Export Administration Act of 1979 (50 USC App. Sections 2401 et seq.) or regulations thereunder. If such Contractor, or any of the aforesaid affiliates of Contractor, is convicted or is otherwise found to have violated said laws or regulations upon the final determination of the United States Commerce Department or any other appropriate agency of the United States subsequent to the contract's execution, such contract, amendment or modification thereto shall be rendered forfeit and void. The Contractor shall so notify the State Comptroller within five (5) business days of such conviction, determination or disposition of appeal (2 NYCRR § 105.4).

9. SET-OFF RIGHTS. The State shall have all of its common law, equitable and statutory rights of set-off. These rights shall include, but not be limited to, the State's option to withhold for the purposes of set-off any moneys due to the Contractor under this contract up to any amounts due and owing to the State with regard to this contract, any other contract with any State department or agency, including any contract for a term commencing prior to the term of this contract, plus any amounts due and owing to the State for any other reason including, without limitation, tax delinquencies, fee delinquencies or monetary penalties relative thereto. The State shall exercise its set-off rights in accordance with normal State practices including, in cases of set-off pursuant to an audit, the finalization of such audit by the State agency, its representatives, or the State Comptroller.

10. RECORDS. The Contractor shall establish and maintain complete and accurate books, records, documents, accounts and other evidence directly pertinent to performance under this contract (hereinafter, collectively, the "Records"). The Records must be kept for the balance of the calendar year in which they were made and for six (6) additional years thereafter. The State Comptroller, the Attorney General and any other person or entity authorized to conduct an examination, as well as the agency or agencies involved in this contract, shall have access to the Records during normal business hours at an office of the Contractor within the State of New York or, if no such office is available, at a mutually agreeable and reasonable venue within the State, for the term specified above for the purposes of inspection, auditing and copying. The State shall take reasonable steps to protect from public disclosure any of the Records which are exempt from disclosure under Section 87 of the Public Officers Law (the "Statute") provided that: (i) the Contractor shall timely inform an appropriate State official, in writing, that said records should not be disclosed; and (ii) said records shall be sufficiently identified; and (iii) designation of said records as exempt under the Statute is reasonable. Nothing contained herein shall diminish, or in any way adversely affect, the State's right to discovery in any pending or future litigation.

11. IDENTIFYING INFORMATION AND PRIVACY NOTIFICATION. (a) Identification Number(s). Every invoice or New York State Claim for Payment submitted to a New York State agency by a payee, for payment for the sale of goods or services or for transactions (e.g., leases, easements, licenses, etc.) related to real or personal property must include the payee's identification number. The number is any or all of the following: (i) the payee's Federal employer identification number, (ii) the payee's Federal social security number, and/or (iii) the payee's Vendor Identification Number assigned by the Statewide Financial System. Failure to include such number or numbers may delay payment. Where the payee does not have such number or numbers, the payee, on its invoice or Claim for Payment, must give the reason or reasons why the payee does not have such number or numbers.

(b) Privacy Notification. (1) The authority to request the above personal information from a seller of goods or services or a lessor of real or personal property, and the authority to maintain such information, is found in Section 5 of the State Tax Law. Disclosure of this information by the seller or lessor to the State is mandatory. The principal purpose for which the information is collected is to enable the State to identify individuals, businesses and others who have been delinquent in filing tax returns or may have understated their tax liabilities and to generally identify persons affected by the taxes administered by the Commissioner of Taxation and Finance. The information will be used for tax administration purposes and for any other purpose authorized by law. (2) The personal information is requested by the purchasing unit of the agency contracting to purchase the goods or services or lease the real or personal property covered by this contract or lease. The information is maintained in the Statewide Financial System by the Vendor Management Unit within the Bureau of State Expenditures, Office of the State Comptroller, 110 State Street, Albany, New York 12236.

12. EQUAL EMPLOYMENT OPPORTUNITIES FOR MINORITIES AND WOMEN. In accordance with Section 312 of the Executive Law and 5 NYCRR Part 143, if this contract is: (i) a written agreement or purchase order instrument, providing for a total expenditure in excess of $25,000.00, whereby a contracting agency is committed to expend or does expend funds in return for labor, services, supplies, equipment, materials or any combination of the foregoing, to be performed for, or rendered or furnished to the contracting agency; or (ii) a written agreement in excess of $100,000.00 whereby a contracting agency is committed to expend or does expend funds for the acquisition, construction, demolition, replacement, major repair or renovation of real property and improvements thereon; or (iii) a written agreement in excess of $100,000.00 whereby the owner of a State assisted housing project is committed to expend or does expend funds for the acquisition, construction, demolition, replacement, major repair or renovation of real property and improvements thereon for such project, then the following shall apply and by signing this agreement the Contractor certifies and affirms that it is Contractor's equal employment opportunity policy that:

(a) The Contractor will not discriminate against employees or applicants for employment because of race, creed, color, national origin, sex, age, disability or marital status, shall make and document its conscientious and active efforts to employ and utilize minority group members and women in its work force on State contracts and will undertake or continue existing programs of affirmative action to ensure that minority group members and women are afforded equal employment opportunities without discrimination. Affirmative action shall mean recruitment, employment, job assignment, promotion, upgradings, demotion, transfer, layoff, or termination and rates of pay or other forms of compensation;

(b) at the request of the contracting agency, the Contractor shall request each employment agency, labor union, or authorized representative of workers with which it has a collective bargaining or other agreement or understanding, to furnish a written statement that such employment agency, labor union or representative will not discriminate on the basis of race, creed, color, national origin, sex, age, disability or marital status and that such union or representative will affirmatively cooperate in the implementation of the Contractor's obligations herein; and

(c) the Contractor shall state, in all solicitations or advertisements for employees, that, in the performance of the State contract, all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability or marital status.

Contractor will include the provisions of "(a), (b) and (c)" above, in every subcontract over $25,000.00 for the construction, demolition, replacement, major repair, renovation, planning or design of real property and improvements thereon (the "Work") except where the Work is for the beneficial use of the Contractor. Section 312 does not apply to: (i) work, goods or services unrelated to this contract; or (ii) employment outside New York State. The State shall consider compliance by a contractor or subcontractor with the requirements of any federal law concerning equal employment opportunity which effectuates the purpose of this clause. The contracting agency shall determine whether the imposition of the requirements of the provisions hereof duplicate or conflict with any such federal law and if such duplication or conflict exists, the contracting agency shall waive the applicability of Section 312 to the extent of such duplication or conflict. Contractor will comply with all duly promulgated and lawful rules and regulations of the Department of Economic Development's Division of Minority and Women's Business Development pertaining hereto.

13. CONFLICTING TERMS. In the event of a conflict between the terms of the contract (including any and all attachments thereto and amendments thereof) and the terms of this Appendix A, the terms of this Appendix A shall control.

14. GOVERNING LAW. This contract shall be governed by the laws of the State of New York except where the Federal supremacy clause requires otherwise.

15. LATE PAYMENT. Timeliness of payment and any interest to be paid to Contractor for late payment shall be governed by Article 11-A of the State Finance Law to the extent required by law.

16. NO ARBITRATION. Disputes involving this contract, including the breach or alleged breach thereof, may not be submitted to binding arbitration (except where statutorily authorized), but must, instead, be heard in a court of competent jurisdiction of the State of New York.

17. SERVICE OF PROCESS. In addition to the methods of service allowed by the State Civil Practice Law & Rules ("CPLR"), Contractor hereby consents to service of process upon it by registered or certified mail, return receipt requested. Service hereunder shall be complete upon Contractor's actual receipt of process or upon the State's receipt of the return thereof by the United States Postal Service as refused or undeliverable. Contractor must promptly notify the State, in writing, of each and every change of address to which service of process can be made. Service by the State to the last known address shall be sufficient. Contractor will have thirty (30) calendar days after service hereunder is complete in which to respond.

18. PROHIBITION ON PURCHASE OF TROPICAL HARDWOODS. The Contractor certifies and warrants that all wood products to be used under this contract award will be in accordance with, but not limited to, the specifications and provisions of Section 165 of the State Finance Law, (Use of Tropical Hardwoods) which prohibits purchase and use of tropical hardwoods, unless specifically exempted, by the State or any governmental agency or political subdivision or public benefit corporation. Qualification for an exemption under this law will be the responsibility of the contractor to establish to meet with the approval of the State.

In addition, when any portion of this contract involving the use of woods, whether supply or installation, is to be performed by any subcontractor, the prime Contractor will indicate and certify in the submitted bid proposal that the subcontractor has been informed and is in compliance with specifications and provisions regarding use of tropical hardwoods as detailed in § 165 State Finance Law. Any such use must meet with the approval of the State; otherwise, the bid may not be considered responsive. Under bidder certifications, proof of qualification for exemption will be the responsibility of the Contractor to meet with the approval of the State.

19. MACBRIDE FAIR EMPLOYMENT PRINCIPLES. In accordance with the MacBride Fair Employment Principles (Chapter 807 of the Laws of 1992), the Contractor hereby stipulates that the Contractor either (a) has no business operations in Northern Ireland, or (b) shall take lawful steps in good faith to conduct any business operations in Northern Ireland in accordance with the MacBride Fair Employment Principles (as described in Section 165 of the New York State Finance Law), and shall permit independent monitoring of compliance with such principles.

20. OMNIBUS PROCUREMENT ACT OF 1992. It is the policy of New York State to maximize opportunities for the participation of New York State business enterprises, including minority- and women-owned business enterprises as bidders, subcontractors and suppliers on its procurement contracts.

Information on the availability of New York State subcontractors and suppliers is available from:

NYS Department of Economic Development
Division for Small Business and Technology Development
625 Broadway
Albany, New York 12245
Telephone: 518-292-5100

A directory of certified minority- and women-owned business enterprises is available from:

NYS Department of Economic Development
Division of Minority and Women's Business Development
633 Third Avenue 33rd Floor
New York, NY 10017
646-846-7364
email: mwbebusinessdev@esd.ny.gov
https://ny.newnycontracts.com/FrontEnd/searchcertifieddirectory.asp

The Omnibus Procurement Act of 1992 (Chapter 844 of the Laws of 1992, codified in State Finance Law § 139-i and Public Authorities Law § 2879(3)(n)–(p)) requires that by signing this bid proposal or contract, as applicable, Contractors certify that whenever the total bid amount is greater than $1 million:

(a) The Contractor has made reasonable efforts to encourage the participation of New York State Business Enterprises as suppliers and subcontractors, including certified minority- and women-owned business enterprises, on this project, and has retained the documentation of these efforts to be provided upon request to the State;

(b) The Contractor has complied with the Federal Equal Opportunity Act of 1972 (P.L. 92-261), as amended;

(c) The Contractor agrees to make reasonable efforts to provide notification to New York State residents of employment opportunities on this project through listing any such positions with the Job Service Division of the New York State Department of Labor, or providing such notification in such manner as is consistent with existing collective bargaining contracts or agreements. The Contractor agrees to document these efforts and to provide said documentation to the State upon request; and

(d) The Contractor acknowledges notice that the State may seek to obtain offset credits from foreign countries as a result of this contract and agrees to cooperate with the State in these efforts.

21. RECIPROCITY AND SANCTIONS PROVISIONS. Bidders are hereby notified that if their principal place of business is located in a country, nation, province, state or political subdivision that penalizes New York State vendors, and if the goods or services they offer will be substantially produced or performed outside New York State, the Omnibus Procurement Act 1994 and 2000 amendments (Chapter 684 and Chapter 383, respectively, codified in State Finance Law § 165(6) and Public Authorities Law § 2879(5)) require that they be denied contracts which they would otherwise obtain. NOTE: As of May 2023, the list of discriminatory jurisdictions subject to this provision includes the states of South Carolina, Alaska, West Virginia, Wyoming, Louisiana and Hawaii.

22. COMPLIANCE WITH BREACH NOTIFICATION AND DATA SECURITY LAWS. Contractor shall comply with the provisions of the New York State Information Security Breach and Notification Act (General Business Law §§ 899-aa and 899-bb and State Technology Law § 208).

23. COMPLIANCE WITH CONSULTANT DISCLOSURE LAW. If this is a contract for consulting services, defined for purposes of this requirement to include analysis, evaluation, research, training, data processing, computer programming, engineering, environmental, health, and mental health services, accounting, auditing, paralegal, legal or similar services, then, in accordance with Section 163 (4)(g) of the State Finance Law (as amended by Chapter 10 of the Laws of 2006), the Contractor shall timely, accurately and properly comply with the requirement to submit an annual employment report for the contract to the agency that awarded the contract, the Department of Civil Service and the State Comptroller.

24. PROCUREMENT LOBBYING. To the extent this agreement is a "procurement contract" as defined by State Finance Law §§ 139-j and 139-k, by signing this agreement the contractor certifies and affirms that all disclosures made in accordance with State Finance Law §§ 139-j and 139-k are complete, true and accurate. In the event such certification is found to be intentionally false or intentionally incomplete, the State may terminate the agreement by providing written notification to the Contractor in accordance with the terms of the agreement.

25. CERTIFICATION OF REGISTRATION TO COLLECT SALES AND COMPENSATING USE TAX BY CERTAIN STATE CONTRACTORS, AFFILIATES AND SUBCONTRACTORS.
To the extent this agreement is a contract as defined by Tax Law § 5-a, if the contractor fails to make the certification required by Tax Law § 5-a or if during the term of the contract, the Department of Taxation and Finance or the covered agency, as defined by Tax Law § 5-a, discovers that the certification, made under penalty of perjury, is false, then such failure to file or false certification shall be a material breach of this contract and this contract may be terminated, by providing written notification to the Contractor in accordance with the terms of the agreement, if the covered agency determines that such action is in the best interest of the State.

26. IRAN DIVESTMENT ACT. By entering into this Agreement, Contractor certifies in accordance with State Finance Law § 165-a that it is not on the "Entities Determined to be Non-Responsive Bidders/Offerers pursuant to the New York State Iran Divestment Act of 2012" ("Prohibited Entities List") posted at: https://ogs.ny.gov/iran-divestment-act-2012

Contractor further certifies that it will not utilize on this Contract any subcontractor that is identified on the Prohibited Entities List. Contractor agrees that should it seek to renew or extend this Contract, it must provide the same certification at the time the Contract is renewed or extended. Contractor also agrees that any proposed Assignee of this Contract will be required to certify that it is not on the Prohibited Entities List before the contract assignment will be approved by the State.

During the term of the Contract, should the state agency receive information that a person (as defined in State Finance Law § 165-a) is in violation of the above-referenced certifications, the state agency will review such information and offer the person an opportunity to respond. If the person fails to demonstrate that it has ceased its engagement in the investment activity which is in violation of the Act within 90 days after the determination of such violation, then the state agency shall take such action as may be appropriate and provided for by law, rule, or contract, including, but not limited to, imposing sanctions, seeking compliance, recovering damages, or declaring the Contractor in default.

The state agency reserves the right to reject any bid, request for assignment, renewal or extension for an entity that appears on the Prohibited Entities List prior to the award, assignment, renewal or extension of a contract, and to pursue a responsibility review with respect to any entity that is awarded a contract and appears on the Prohibited Entities list after contract award.

27. ADMISSIBILITY OF REPRODUCTION OF CONTRACT. Notwithstanding the best evidence rule or any other legal principle or rule of evidence to the contrary, the Contractor acknowledges and agrees that it waives any and all objections to the admissibility into evidence at any court proceeding or to the use at any examination before trial of an electronic reproduction of this contract, in the form approved by the State Comptroller, if such approval was required, regardless of whether the original of said contract is in existence.

1. If the Contractor performs the Contract, the Surety and the Contractor shall have no obligation under the Performance Bond.

2. The Surety's obligation under this Bond shall arise after:

2.1 The State has notified the Contractor and the Surety in writing that the State is considering declaring a Contractor in default, or

2.2 The State has declared a Contractor in default and formally terminated the Contractor's right to complete the Contract, and

2.3 The State has agreed to pay the Balance of the Contract Price to the Surety or to a Contractor selected to complete the Contract in accordance with the terms of the Contract with the State.

3. The Surety shall promptly and at its own expense, take the following actions:

3.1 Undertake to perform and complete the Contract, through its agent or retained contractor; according to the following schedule:

Day 1-10 Immediately begins it investigation Advises OGS of its Representatives.

Day 10-25 Visits Site with OGS representatives to review the contract documents and completed work; and determines extent of acceptable Work.

Day 25-30 Submits proposed completion contractor, completion plan, and CPM as required, for approval by the Office of General Services.

Day 30-44 As completing contractor, the surety or its representative, presents its list of subcontractors to OGS for approval. Additionally an Insurance Certificate naming the Surety and completion Contractor as named insured must be submitted to the Contracting Officer prior to the beginning any completion of the Work. The completion plan and schedule is returned to Surety.

Day 45 Surety begins the Completion of the Work.

4. If the Surety does not proceed with reasonable promptness, the Surety shall be deemed to be in default on the Bond, and the State shall be entitled to enforce any remedy available pursuant to the terms of the contract.

5. After the State has terminated the Contractor's right to complete the Contract, and if the Surety elects to act then the responsibilities of the Surety to the State shall not be greater than those of the Contractor under the Contract, and the responsibilities of the State to the Surety shall not be greater than those provided under the Contract. To the limit of the amount of this Bond, the Surety is obligated to correct defective work and complete the work of the Contract in a timely manner.

6. The penal sum of the Performance Bond furnished by the contractor to the State, approved and filed with the Office of the State Comptroller, in no way shall be impaired or affected by any other bond that may relate to the contract in question.

END OF DOCUMENT

DOCUMENT 007305

SUPPLEMENTARY CONDITIONS - LIQUIDATED DAMAGES

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provisions of that part shall remain in effect.

ARTICLE 2 - DEFINITIONS

2.11 Delete this Paragraph in its entirety and replace with the following:

2.11 The term "liquidated damages" means the amount of money to be assessed against the Contractor for delay in completion of the Work.

ARTICLE 13 - TIME OF COMPLETION AND TERMINATION FOR CAUSE

13.3 Delete this Paragraph in its entirety and replace with the following:

13.3 Liquidated Damages: Should Contractor fail to substantially complete the Work within the time frame set forth in the contract, or as described in a subsequent Order(s) on Contract, the Group Director may assess Liquidated Damages for such failure in the amount of $1,000.00 per day until such time as the Group Director determines that the Work is substantially complete as defined in Section 2.21 herein. Should Contractor fail to achieve physical completion of the work within the time frame set forth in the contract, the Group Director may assess Liquidated Damages for such failure in the amount of $500.00 per day until such time as the Group Director determines that the Work is physically complete as defined in Section 2.12 herein. Notwithstanding the provisions of Article 21 herein, Contractor agrees that the Group Director may withhold the sum of the Liquidated Damages from payments to be made to Contractor as compensation to the State for administrative fees and public inconvenience.

END OF DOCUMENT

DOCUMENT 007307

SUPPLEMENTARY CONDITIONS – MWBE-EEO

CONTRACTOR REQUIREMENTS AND PROCEDURES FOR PARTICIPATION BY NEW YORK STATE CERTIFIED MINORITY- AND WOMEN-OWNED BUSINESS ENTERPRISES AND EQUAL EMPLOYMENT OPPORTUNITIES FOR MINORITY GROUP MEMBERS AND WOMEN

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provisions of that part shall remain in effect.

ARTICLE 16 - REQUIREMENTS FOR UTILIZATION OF MINORITY- AND WOMEN-OWNED BUSINESS ENTERPRISES (MWBEs)

Add the following:

16.6 Participation by Minority Group Members and Women with Respect to State Contracts: Requirements and Procedures: General Provisions:

16.6.1 OGS is required to implement the provisions of New York State Executive Law Article 15-A and 5 NYCRR Parts 140-145 ("MWBE Regulations") for all State contracts as defined therein, with a value (1) in excess of $25,000 for labor, services, equipment, materials, or any combination of the foregoing or (2) in excess of $100,000 for real property renovations and construction (the "Work").

16.6.2 The Contractor agrees, in addition to any other nondiscrimination provision of the Contract and at no additional cost to OGS, to fully comply and cooperate with OGS in the implementation of New York State Executive Law Article 15-A and the regulations promulgated thereunder. These requirements include equal employment opportunities for minority group members and women ("EEO") and contracting opportunities for MWBEs. Contractor's demonstration of "good faith efforts" pursuant to 5 NYCRR §142.8 shall be a part of these requirements. These provisions shall be deemed supplementary to, and not in lieu of, the nondiscrimination provisions required by New York State Executive Law Article 15 (the "Human Rights Law") or other applicable federal, State or local laws.

16.6.3 Failure to comply with all of the requirements herein may result in a finding of non-responsiveness, a finding of non-responsibility, a breach of contract, leading to the withholding of funds, liquidated damages pursuant to Section 27.9 herein, and/or enforcement proceedings as allowed by the Contract and applicable law.

16.7 Contract Goals:

16.7.1 OGS hereby establishes an overall goal of 30% for MWBE participation, 15% for Minority-Owned Business Enterprises ("MBE") participation and 15% for Women-Owned Business Enterprises ("WBE") participation (based on the current availability of MBEs and WBEs). The total contract goal can be obtained by utilizing any combination of MBE and /or WBE participation for subcontracting and supplies acquired under this Contract.

16.7.2 For purposes of providing meaningful participation by MWBEs on the Contract and achieving the Contract Goals established in Section 16.7.1 hereof, Contractor should reference the directory of NYS Certified MBWEs found at the following internet address:

https://ny.newnycontracts.com/FrontEnd/VendorSearchPublic.asp?TN=ny&XID=2528.

The MWBE Regulations are located at 5 NYCRR §§ 140 – 145. Additionally, Contractor is encouraged to contact the Division of Minority and Women's Business Development (518) 292-5250; (212) 803-2414; or (716) 846-8200) to discuss additional methods of maximizing participation by MWBEs on the Contract.

16.7.3 Pursuant to 5 NYCRR §142.8, Contractor must document "good faith efforts" to provide meaningful participation by MWBEs as subcontractors or suppliers in the performance of the Contract.

16.7.4 In accordance with Executive Law Section 316-a and 5 NYCRR §142.13, the Contractor acknowledges that if it is found to have willfully and intentionally failed to comply with the MWBE participation goals set forth in the Contract, such a finding constitutes a breach of contract and the Contractor shall be liable to OGS for liquidated or other appropriate damages, as set forth herein.

16.7.5 In accordance with 5 NYCRR § 142.8, Contractors must document their good faith efforts toward utilizing MWBEs on the Contract. Evidence of required good faith efforts shall include, but not be limited to, the following:

a. A list of the general circulation, trade, and MWBE-oriented publications and dates of publications in which the Contractor solicited the participation of certified MWBEs as subcontractors/suppliers, copies of such solicitations, and any responses thereto.

b. A list of certified MWBEs appearing in the Empire State Development ("ESD") MWBE directory that were solicited for this Contract. Provide proof of dates or copies of the solicitations and copies of the responses made by the certified MWBEs. Describe specific reasons that responding certified MWBEs were not selected.

c. Descriptions of the Contract documents/plans/specifications made available to certified MWBEs by the Contractor when soliciting their participation and steps taken to structure the scope of work for the purpose of subcontracting with, or obtaining supplies from, certified MWBEs.

d. A description of the negotiations between the Contractor and certified MWBEs for the purposes of complying with the MWBE goals of this Contract.

e. Dates of any pre-bid, pre-award, or other meetings attended by Contractor, if any, scheduled by OGS with certified MWBEs whom OGS determined were capable of fulfilling the MWBE goals set in the Contract.

f. Other information deemed relevant to the request.

16.7.6 The goal for participation in the conduct of the Work is expressed as a percentage equal to the dollar value of the Work performed divided by the Contract Sum. Where the cost to the Contractor of a single item of equipment exceeds twenty-five percent (25%) of the total contract price and where the Contractor has shown good faith efforts to obtain such equipment from MWBE manufacturers and suppliers, and was unsuccessful in obtaining the equipment from an MWBE, the cost of such equipment shall be deducted from the contract sum prior to computing the MWBE participation.

16.7.7 The MWBE utilization credit for Work performed by MWBEs will be determined as follows:

a. Where an MWBE is not the Contractor - MWBE utilization credit will vary depending on how the MWBE performs Work under the Contract, as follows:

i. Where the MWBE performs Work under the Contract as a subcontractor, MBE or WBE utilization credit will be 100% of the dollar value of the Work performed by the MBE or WBE.

ii. Where the MWBE performs Work under the Contract as a manufacturer, MBE or WBE utilization credit will be 100% of the dollar value of the Work performed by the MBE or WBE.

iii. Where the MWBE assists in the performance of the Work under the Contract as a supplier, MBE or WBE utilization credit will be 60% of the dollar value of the Work performed by the MBE or WBE.

iv. Where the MWBE assists in the performance of the Work under the Contract as a broker, MBE or WBE utilization credit will be equal to the percentage of the commission, or the mark-up percentage, of the items brokered, applied to the dollar value of the Work performed by the MBE or WBE.

b. Where the Contractor is a joint venture including one or more MWBEs as joint venturers, MBE or WBE utilization credit will be the Contract Sum multiplied by the percentage of the joint venture's profits (or losses) that are to accrue to the MWBE joint venturer(s) under the joint venture agreement.

c. Where any MWBE is the Contractor or where the Contractor is a joint venture consisting entirely of MWBEs, and the Contractor can document good faith efforts to subcontract to MWBE subcontractors and/or suppliers - the Contract Sum.

Add the following articles:

ARTICLE 26 – EQUAL EMPLOYMENT OPPORTUNITY (EEO)

26.1 The provisions of Article 15-A of the Executive Law and the rules and regulations promulgated thereunder pertaining to equal employment opportunities for minority group members and women shall apply to all Contractors, and any subcontractors, awarded a subcontract over $25,000 for labor, services, including legal, financial and other professional services, travel, supplies, equipment, materials, or any combination of the foregoing, to be performed, or rendered or furnished to, the contracting State agency ("the Work") except where the Work is for the beneficial use of the Contractor.

26.1.1 Contractor and Subcontractors shall undertake or continue existing EEO programs to ensure that minority group members and women are afforded equal employment opportunities without discrimination because of race, creed, color, national origin, sex, age, disability, or marital status. For these purposes, EEO shall apply in the areas of recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, and rates of pay or other forms of compensation. This requirement does not apply to: (i) the performance of work or the provision of services or any other activity that is unrelated, separate, or distinct from the Contract; or (ii) employment outside New York State.

26.1.2 By entering into this Contract, Contractor certifies that the text set forth in clause 12 of Appendix A, attached hereto and made a part hereof, is Contractor's equal employment opportunity policy. In addition, Contractor agrees to comply with the Non-Discrimination Requirements set forth in clause 5 of Appendix A.

The Contractor will include the provisions of Clause 26.1.2 and Clause 26.3 of this Article, which provides for relevant provisions of the Human Rights Law, in every subcontract in such a manner that the requirements of the subdivisions will be binding upon each subcontractor as to work in connection with the Contract.

26.2 New York State Contract System Workforce Utilization Reporting Module (Construction)

The Contractor shall submit, and shall require each of its subcontractors to submit, a Workforce Audit throughout the term of this Contract, by the 10th day of each month to report the actual workforce utilized during the previous month in the performance of the Contract by the specified categories listed including ethnic background, gender, and Federal

occupational categories. Contractor shall coordinate with its subcontractors to ensure that all workers associated with this Contract are properly counted and reported. To prepare the report, Contractor and its subcontractors shall use the New York State Contract System Workforce Audit Module found at the following website:

https://ny.newnycontracts.com/

The Workforce Audit must be submitted electronically in the New York State Contract System (NYSCS). Separate audits shall be completed by Contractor and all subcontractors. In limited instances, the Contractor or subcontractor may not be able to separate out the workforce utilized in the performance of the Contract from its total workforce. When a separation can be made, the Contractor or subcontractor shall submit the Workforce Audit and indicate that the information provided relates to the actual workforce utilized on the Contract. When the workforce to be utilized on the Contract cannot be separated out from the Contractor's or subcontractor's total workforce, the Contractor or subcontractor shall submit the Workforce Audit and indicate that the information provided is the Contractor's or subcontractor's total workforce during the subject time frame, not limited to work specifically performed under the Contract.

26.3 Contractor shall comply with the provisions of the Human Rights Law and all other State and Federal statutory and constitutional non-discrimination provisions. Contractor and subcontractors shall not discriminate against any employee or applicant for employment because of race, creed (religion), color, sex, national origin, sexual orientation, military status, age, disability, predisposing genetic characteristic, marital status or domestic violence victim status, and shall also follow the requirements of the Human Rights Law with regard to non-discrimination on the basis of prior criminal conviction and prior arrest.

ARTICLE 27- MWBE COMPLIANCE

27.1 By entering into a Contract with OGS, Contractor certifies that it has submitted a completed MWBE Utilization Plan via the New York State Contract System (NYSCS) prior to contract award and will follow such Plan for the performance of MWBEs on the Contract pursuant to the prescribed MWBE goals set forth in Section 16.7.1 of this Supplement. The NYSCS may be accessed at **https://ny.newnycontracts.com**. The Utilization Plan shall list the MWBEs the Bidder intends to use to perform the Contract, a description of the Contract scope of work the Bidder intends the MWBE to perform to meet the goals on the Contract, and the estimated, or if known, actual dollar amounts to be paid to an MWBE. If Contractor is unable to submit such Plan through the NYSCS, Contractor certifies that it used Form BDC 328 (Contractor's Utilization Plan) to submit the Plan. The BDC 328 form is available for download at https://ogs.ny.gov/mwbe/forms.

27.2 By entering into the Contract, Bidder/Contractor understands that only sums paid to MWBEs for the performance of a commercially useful function, as that term is defined in 5 NYCRR § 140.1, may be applied towards the achievement of the applicable MWBE participation goal. When an MWBE is serving as a broker on the Contract, only 25 percent of all sums paid to a broker shall be deemed to represent the commercially useful function performed by the MWBE.

27.3 OGS will review the submitted MWBE Utilization Plan and advise the Bidder of OGS' acceptance or issue a notice of deficiency within 30 calendar days of receipt. Contractor understands that making false representations or including information evidencing a lack of good faith as part of, or in conjunction with, the submission of a Utilization Plan is prohibited by law and may result in penalties including, but not limited to, termination of a contract for cause, loss of eligibility to submit future bids, and/or withholding of payments.

27.4 Contractor further agrees that a failure to submit and/or use such MWBE Utilization Plan shall constitute a material breach of the terms of the Contract. Upon the occurrence of such a material breach, OGS shall be entitled to any remedy provided herein, including but not limited to, a finding of Contractor non-responsiveness.

27.5 Access to the Contractor's Books: The Contractor shall permit access to its books, records and accounts by the State for purposes of investigation to ascertain compliance with the provisions of this Article. The contractor shall include this provision in every subcontract so that such provision will be binding upon each subcontractor.

27.6 If the Contractor, after making good faith efforts, is unable to comply with MWBE goals, the Contractor may submit an Application for MWBE Waiver form (BDC 333) documenting good faith efforts by the Contractor to meet such goals. If the documentation included with the waiver request is complete, OGS shall evaluate the request and issue a written notice of acceptance or denial within twenty (20) business days of receipt.

27.7 If OGS, upon review of the MWBE Utilization Plan and updated Contractors list of Subcontractors and Suppliers determines that Contractor is failing or refusing to comply with the Contract goals and no waiver has been issued in regards to such non-compliance, OGS may issue a notice of deficiency to the Contractor. The Contractor must respond to the notice of deficiency within seven (7) business days of receipt. Such response may include a request for partial or total waiver of MWBE Contract Goals.

27.8 **Monthly MWBE Contractor Compliance Report**

27.8.1 In accordance with 5 NYCRR § 142.10, Contractor is required to report Monthly MWBE Contractor Compliance to OGS during the term of the Contract for the preceding month's activity, documenting progress made towards achievement of the Contract MWBE goals. OGS requests that all Contractors use the NYSCS to report subcontractor and supplier payments made by Contractor to MWBEs performing work under the Contract. The NYSCS may be accessed at **https://ny.newnycontracts.com**. This is a New York State-based system that all State agencies and authorities will be implementing to ensure uniform contract compliance reporting throughout New York State.

27.8.2 When a Contractor receives a payment from OGS under an OGS contract, it is the Contractor's responsibility to pay its subcontractors and suppliers in a timely manner. On or after the first day of each month, the Contractor will receive an e-mail or fax notification ("audit notice") indicating that a representative of its company needs to log-in to the NYSCS to report the company's MWBE subcontractor and supplier payments for the preceding month. The Contractor must also report when no payments have been made to a subcontractor or supplier in a particular month with entry of a zero dollar value in the NYSCS. Once subcontractor and supplier payments have been entered into the NYSCS, the subcontractor(s) and supplier(s) will receive an email or fax notification advising them to log into the NYSCS to confirm that they actually received the reported payments from the Contractor. It is the Contractor's responsibility to educate its MWBE subcontractors and suppliers about the NYSCS and the need to confirm payments made to them in the NYSCS.

27.8.3 To assist in the use of the NYSCS, OGS recommends that all Contractors and MWBE subcontractors and suppliers sign up for the following two webinar trainings offered through the NYSCS: "Introduction to the System – Vendor Training" and "Contract Compliance Reporting - Vendor Training" to become familiar with the NYSCS. To view the training schedule and to register visit:

https://ny.newnycontracts.com/events.asp.

27.8.4 As soon as possible after the Contract is approved, Contractor should visit https://ny.newnycontracts.com and click on "Account Lookup" to identify the Contractor's account by company name. Contact information should be reviewed and updated if necessary by choosing "Change Info." It is important that the staff member who is responsible for reporting payment information for the Contractor be listed as a user in the NYSCS. Users who are not already listed may be added through "Request New User." When identifying the person responsible, please add "- MWBE Contact" after their last name (i.e., John Doe – MWBE Contact) to ensure that the correct person receives audit notices from the NYSCS. NYSCS Technical Support should be contacted for any technical support questions by clicking on the links

for “Contact Us & Support” then “Technical Support” on the NYSCS website.

27.8.5 If Contractor is unable to report MWBE Contractor Compliance via the NYSCS, Contractor must submit Contractor’s Monthly Payment Report on Form BDC 58 to OGS, by the 10th day of each month during the term of the Contract, for the preceding month’s activity to: OGS OBD, 29th Floor Corning Tower, Empire State Plaza, Albany, NY 12242. Phone: 518-486-9284; Fax: 518-486-9285.

27.8.6 It is the Contractor’s responsibility to report subcontractor and supplier payments. Failure to respond to payment audits in a timely fashion through the NYSCS, or by paper to OGS, may jeopardize future payments pursuant to the MWBE liquidated damages clause in Section 27.9 below.

27.9 Liquidated Damages – MWBE Participation

27.9.1 Where OGS determines that Contractor is not in compliance with the requirements of the Contract and Contractor refuses to comply with such requirements, or if Contractor is found to have willfully and intentionally failed to comply with the MWBE participation goals, Contractor shall be obligated to pay liquidated damages to OGS.

27.9.2 Such liquidated damages shall be calculated as an amount equaling the difference between:

a. All sums identified for payment to MWBEs had the Contractor achieved the contractual MWBE goals; and

b. All sums actually paid to MWBEs for work performed or materials supplied under the Contract.

27.9.3 After the Contractor has been afforded the process it is due, if OGS determines that Contractor is liable for liquidated damages and such identified sums have not been withheld by OGS, Contractor shall pay such liquidated damages to OGS within sixty (60) days after they are assessed. Provided, however, that if the Contractor has filed a complaint with the Director of the Division of Minority and Women’s Business Development pursuant to 5 NYCRR § 142.12, liquidated damages shall be payable only in the event of a determination adverse to the Contractor following the complaint process.

27.10 Any suspicion of fraud, waste, or abuse involving the contracting or certification of MWBEs shall be immediately reported to ESD’s Division of Minority and Women’s Business Development at (855) 373-4692.

DOCUMENT 007310

SUPPLEMENTARY CONDITIONS - CONTRACTOR'S SUPERVISION

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provisions of that part shall remain in effect.

ARTICLE 6 - CONTRACTOR'S SUPERVISION

ARTICLE 6 Delete this Article in its entirety and replace with the following:

6.1 The Contractor shall designate in writing, competent supervision and/or management representatives as required below to represent the Contractor at all times with authority to act for the Contractor. All direction given to the Contractor's representatives shall be as binding as if given to the Contractor. A superintendent or project manager shall be classified as management representatives included in the Contractor's overhead and shall perform management, supervisory and/or administrative tasks (non labor) only. Individuals listed under this Article shall have the ability to effectively communicate (verbal and written) with all parties associated with the administration/supervision of this contract.

6.1.1 For contracts awarded up to $1,000,000 the Contractor shall provide a supervisor, for the Contractor's staff, who shall be in attendance at the Site throughout the active performance of the Work, including active performance of the Work by subcontractors.

6.1.2 For contracts awarded from $1,000,001 to $5,000,000, the Contractor shall provide a superintendent, for the Contractor's staff, who shall be in attendance at the Site throughout the active performance of the Work until Substantial Completion. Upon Substantial Completion the Contractor shall provide a supervisor who shall be in attendance at the Site throughout the active performance of the Work until Physical Completion. The superintendent's responsibilities include, but are not limited to, directing and scheduling the Work, attending all Project meetings, coordinating and controlling the Work of subcontractors, and ensuring full compliance with the Contract documents. The Contractor shall also provide a project manager for the Contractor's staff from award through Substantial Completion. The Project Manager's responsibilities shall include, but are not limited to, developing and maintaining the submittal system and project schedules, attending Project meetings, making purchasing and cost decisions on behalf of the Contractor, Orders on Contract responses and negotiations, and closeout and warranty documentation. The Contractor shall provide required information to the Director's Representative for the Project schedule.

6.1.3 For contracts awarded from $5,000,001 to $10,000,000, in addition to the requirements of Article 6.1.2, the contractor shall provide a Project Manager for the Contractor's staff that shall be in attendance at the site throughout the active performance of the Work until Substantial Completion.

6.1.4 For contracts awarded for more than $10,000,000, in addition to the requirements set forth in Article 6.1.3, if at any time the Contractor has more than five subcontractors performing Work on the Site simultaneously, the Contractor shall provide an additional Superintendent to coordinate the Work of the subcontractors.

6.2 Should the Director deem any employees of the Contractor not satisfactory or unfit for their duty, the Contractor shall dismiss them and they shall not again be employed on the Work.

6.2.1 Infractions that are dismissible for project managers, superintendents, or supervisors include, but are not limited to, the failure to develop and maintain Project schedules, failure to comply and enforce safety regulations, failure to schedule inspections or provide adequate notice as required by Contract Documents, failure to attend and adequately prepare for meetings as required by Contract Documents, and failure to follow directions regarding the Work provided by the Director's Representative.

6.3 The experience levels noted below in this Article will be used in evaluating the qualifications and experience of the supervisors, superintendents, and Project Managers, as applicable.

6.3.1 Supervisors, required by paragraph 6.1.1, shall have a minimum of five years of experience in the role of supervisor with a minimum of three projects of similar size and scope, and shall be subject to review and written approval by the Director's Representative before commencing the Work, and subsequently during the course of the Project if the supervisor is replaced after Work has commenced. The Contractor will provide references to validate qualifications of the proposed supervisor upon request.

6.3.2 Superintendents, required for any contracts awarded above $1,000,000 as set forth in Article 6.1.2, shall have a minimum of five years of experience in the role of Superintendent with a minimum of three projects of similar size and scope, and shall be subject to review and written approval by the Director's Representative before commencing the Work, and subsequently during the course of the Project if the Superintendent is replaced after Work has commenced. The Contractor will provide references to validate qualifications of the proposed Superintendent upon request.

6.3.3 The Project Manager, required for any contracts awarded above $1,000,000 as set forth in Article 6.1.2, shall have a minimum of five years of experience in the role of Project Manager with a minimum of three projects of similar size and scope, and shall be subject to review and written approval by the Director's Representative before commencing the Work, and subsequently during the course of the Project if the Project Manager is replaced after Work has commenced. The Contractor will provide references to validate qualifications of the proposed Project Manager upon request.

6.4 No subcontractor shall be allowed at the Work Site before approval by the Director and the Contracting Officer. Before any part of the Contract shall be sublet or material purchased, the Contractor shall submit to the Director in writing the name of each proposed subcontractor and supplier and obtain the Director's written consent to such subcontractor and supplier. The names shall be submitted in ample time to permit acceptance or rejection of each proposed subcontractor and supplier by the Director or Contracting Officer without causing delay in the Work of the Project. The Contractor shall promptly furnish such information as the Director or Contracting Officer may require concerning the proposed subcontractor's and supplier's ability and qualifications, and certification status as a Minority- and Women-Owned Business Enterprises and/or Service-Disabled Veteran-Owned Business. For each proposed subcontractor, the Contractor shall also provide the New York State Department of Labor registration number in accordance with NYS Labor Law Section 220-i. Each request for approval of a subcontractor whose subcontract will be valued at $10,000 or more shall also be accompanied by a NYS Vendor Responsibility Questionnaire - For-Profit Construction properly completed and executed by the proposed subcontractor.

6.5 The Contractor's use of subcontractors shall not diminish the Contractor's obligations to complete the Work in accordance with the Contract. The Contractor shall control and coordinate the Work of its subcontractors.

6.6 The Contractor shall be responsible for informing its subcontractors and suppliers of all the terms, conditions and requirements of the Contract Documents including, but not limited to, the General Conditions, Supplementary Conditions, the Drawings and Specifications, Appendix A, and changes made by Addenda and Orders on Contract.

END OF DOCUMENT

DOCUMENT 007311

SUPPLEMENTARY CONDITIONS – PAYMENT

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provisions of that part shall remain in effect.

ARTICLE 21 - PAYMENT

Add the following sub-paragraph:

21.2.1 The Director or the Contracting Officer may withhold payment requisitions or refuse to approve a portion of a payment requisition if the Contractor fails to provide an agreed to Baseline Project Work Plan, Project Schedule Updates, Recovery Project Schedule, or other scheduling requirements in accordance with Division 01 - General Requirements.

END OF DOCUMENT

DOCUMENT 007322

SUPPLEMENTARY CONDITIONS - WORKERS' COMPENSATION

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provision of that part shall remain in effect.

ARTICLE 19 - INSURANCE - BUILDER'S RISK, LIABILITY AND WORKERS' COMPENSATION

Add the following paragraphs to 19.2.1:

The contractor agrees that pursuant to WCL Section 141-b, this contract may be terminated if it is determined that at the time of either the bid submission or contract award, the contractor was, in fact, debarred by WCL Section 141-b, or was a substantially owned affiliate of a debarred contractor.

Additionally, the contractor agrees that it must replace, at no additional charge to the State, any subcontractor who the State or the contractor learns was debarred by WCL Section 141-b prior to or during the contract.

END OF DOCUMENT

DOCUMENT 007323

SUPPLEMENTARY CONDITIONS – VENDOR RESPONSIBILITY

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provision of that part shall remain in effect.

ARTICLE 25 - MISCELLANEOUS PROVISIONS

Add the following paragraphs:

25.10 VENDOR RESPONSIBILITY: Contractor shall at all times during the Contract term remain responsible. Contractor agrees, if requested by the Commissioner of OGS or his or her designee, to present evidence of its continuing legal authority to do business in New York State, integrity, experience, ability, prior performance, and organizational and financial capacity.

The Commissioner of OGS or his or her designee, in his or her sole discretion, reserves the right to suspend any or all activities under this Contract, at any time, when he or she discovers any information that calls into question the responsibility of Contractor. In the event of such suspension, Contractor will be given written notice outlining the particulars of such suspension. Upon issuance of such notice, Contractor must comply with the terms of the suspension order. Contract activity may resume at such time as the Commissioner of OGS or his or her designee issues a written notice authorizing a resumption of performance under the contract.

Upon written notice to Contractor, and a reasonable opportunity to be heard with appropriate OGS officials or staff, the Contract may be terminated by the Commissioner of OGS or his or her designee at Contractor's expense where Contractor is determined by the Commissioner of OGS or his or her designee to be non-responsible. In such event, the Commissioner of OGS or his or her designee may complete the contractual requirements in any way he or she may seem advisable and pursue available legal or equitable remedies for breach.

In no case shall termination of the contract by the state be deemed a breach thereof, nor shall the state be liable for any damages or lost profits or otherwise, which may be sustained by Contractor as a result of such termination.

END OF DOCUMENT

DOCUMENT 007324

SUPPLEMENTARY CONDITIONS - ENCOURAGING USE OF NEW YORK STATE BUSINESSES IN CONTRACT PERFORMANCE

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provisions of that part shall remain in effect.

ARTICLE 25 – MISCELLANEOUS PROVISIONS

Add the following paragraphs:

25.11 Encouraging New York State Businesses

New York State businesses have a substantial presence in State contracts and strongly contribute to the economies of the state and the nation. In recognition of their economic activity and leadership in doing business in New York State, bidders/proposers for this contract are strongly encouraged and expected to consider New York State businesses in the fulfillment of the requirements of the contract. Such partnering may be as subcontractors, suppliers, protégés or other supporting roles.

Bidders need to be aware that all government entities benefiting from this contract will be strongly encouraged, to the maximum extent practical and consistent with legal requirements, to use responsible and responsive New York State businesses in purchasing commodities that are of equal quality and functionality and in utilizing services and technology. Furthermore, bidders are reminded that they must continue to utilize small, minority and women-owned businesses, consistent with current State law.

Utilizing New York State businesses in State contracts will help create more private sector jobs, rebuild New York's infrastructure, and maximize economic activity to the mutual benefit of the contractor and its New York State business partners. New York State businesses will promote the contractor's optimal performance under the contract, thereby fully benefiting the public sector programs that are supported by associated procurements.

Public procurements can drive and improve the State's economic engine through promotion of the use of New York businesses by its contractors. The State therefore expects bidders to provide maximum assistance to New York businesses in their use of the contract. The potential participation by all kinds of New York businesses will deliver great value to the State and its taxpayers.

Bidders can demonstrate their commitment to the use of New York State businesses by responding to the question shown below ***on the Bid Form for this project***:

Will New York State Businesses be used in the performance of this contract? _____ _____
Yes No

The successful bidder who answers "Yes" to this question on the bid form will be required to list the New York State business(es) that will be used on the **Contractor's List of Subcontractors/Suppliers** (Form BDC 329), which must be submitted within ***fifteen (15) days after award*** of the contract.

END OF DOCUMENT

DOCUMENT 007326

SUPPLEMENTARY CONDITIONS - ORDERS ON CONTRACT (CHANGE ORDERS)

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provision of that part shall remain in effect.

ARTICLE 10 - ORDERS ON CONTRACT (CHANGE ORDERS)

Replace paragraph 10.1 with the following:

10.1 The State may make changes by altering, adding to or deleting from the Work, and adjusting the Contract sum accordingly. All changed Work shall be executed in conformity with the terms and conditions of the Contract Documents unless otherwise provided in the order on contract. Any change in the Contract sum or time for completion of the described work of the order on contract shall be contained in the order on contract. The Contractor shall complete a time impact analysis (TIA) pursuant to specification section 013113 concurrently with the pricing of the order on contract. Potential time adjustments shall be determined based on the TIA with presented costs. If the Work of the order on contract impacts the substantial completion date, the Contractor must notify the Director's Representative prior to the negotiation of the order on contract and a time adjustment may be issued. If the Contractor does not develop a time impact analysis during the negotiation of an order on contract, the Contractor shall forfeit their right to a time adjustment.

Replace paragraph 10.5.1 with the following:

10.5.1 The contractor shall submit a responsive cost proposal to the Director's Representative in proper form subject to the provisions of this Article. The contractor shall respond no later than 15 calendar days from the date of a "request for proposal" from the Director's Representative with their cost proposal and time impact analysis (TIA). If the contractor believes additional time is required to prepare and submit a responsive proposal, a justification and proposed response duration must be submitted to the Director's Representative or his/her designated representative within 10 days from the date of a "request for proposal". If approved, the 10-day requirement will be extended as the State may deem appropriate. Should the contractor fail to respond or fail to submit the required cost proposal within the 15-day requirement, the State shall determine a fair market value for the work proposed and will issue an order on contract or field order to the contract. The Contractor, by failing to respond to a request for proposal or provide an acceptable and responsive cost proposal; waives any claim or rights to any extra and or additional costs and/or time as may be determined by the Contracting Officer, and the overrides resulting from this action will be limited to the values as set forth in section 012200.

END OF DOCUMENT

DOCUMENT 007327

SUPPLEMENTARY CONDITIONS – SDVOB

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provisions of that part shall remain in effect.

Add the following article:

ARTICLE 28 – PARTICIPATION OPPORTUNITIES FOR NEW YORK STATE CERTIFIED SERVICE-DISABLED VETERAN-OWNED BUSINESSES

Article 3 of the Veterans' Services Law provides for more meaningful participation in public procurement by certified Service-Disabled Veteran-Owned Businesses ("SDVOB"), thereby further integrating such businesses into New York State's economy. OGS recognizes the need to promote the employment of service-disabled veterans and to ensure that certified service-disabled veteran-owned businesses have opportunities for maximum feasible participation in the performance of OGS contracts.

In recognition of the service and sacrifices made by service-disabled veterans and in recognition of their economic activity in doing business in New York State, Bidders are expected to consider SDVOBs in the fulfillment of the requirements of the Contract. Such participation may be as subcontractors or suppliers, as protégés, or in other partnering or supporting roles.

28.1 Contract Goals

28.1.1 OGS hereby establishes overall goals under this contract of 6% for SDVOB participation for the C trade contractor, 3% for SDVOB participation for the E trade contractor, 3% for SDVOB participation for the H trade contractor, and 3% for SDVOB participation for the P trade contractor, based on the current availability of qualified SDVOBs. Trades with 0% goals are encouraged to make "good faith efforts" to promote and assist in the participation of SDVOBs on the Contract for the provision of services and materials. For purposes of providing meaningful participation by SDVOBs, the Bidder/Contractor should refer to the **List of Certified NYS Service-Disabled Veteran-Owned Businesses**, which can be accessed from the OGS website page at the following link:

https://online.ogs.ny.gov/SDVOB/search .

Questions regarding compliance with SDVOB participation goals should be directed to the Designated Contacts specified in Document 002113 Instructions to Bidders. Additionally, following Contract execution, Contractor is encouraged to contact DCSDVOB@ogs.ny.gov to discuss additional methods of maximizing participation by SDVOBs on the Contract.

28.1.2 Contractor must document "good faith efforts" to provide meaningful participation by SDVOBs as subcontractors or suppliers in the performance of the Contract (see clause 28.4 below).

28.2. SDVOB Utilization Plan

28.2.1 The Contractor's SDVOB Utilization Plan, using the form BDC 328S, available for download at https://ogs.ny.gov/veterans/forms, shall list the SDVOBs that the Bidder intends to use to perform the Contract, a description of the work that the Bidder intends the SDVOB to perform to meet the goals on the Contract, and the estimated dollar amounts to be paid to an SDVOB, or, if not known, an estimate of the percentage of Contract work the SDVOB will perform. By signing the Utilization Plan, the Bidder acknowledges that making false representations or providing information that shows a lack of good faith as part of, or in conjunction with, the submission of a Utilization Plan is prohibited by law and may result in

penalties including, but not limited to, termination of a contract for cause, loss of eligibility to submit future bids, and/or withholding of payments. Any modifications or changes to the agreed participation by SDVOBs after the Contract award and during the term of the Contract must be reported on a revised SDVOB Utilization Plan and submitted to OGS.

28.2.2 The apparent low bidder must submit the completed SDVOB Utilization Plan within seven (7) calendar days after the bids are opened. OGS will review the submitted SDVOB Utilization Plan and advise the bidder of OGS acceptance or issue a notice of deficiency within twenty (20) calendar days of receipt.

28.2.3 If a notice of deficiency is issued, Bidder/Contractor agrees that it shall respond to the notice of deficiency, within nine (9) calendar days of receipt, by submitting to OGS a written remedy in response to the notice of deficiency. If the written remedy that is submitted is not timely or is found by OGS to be inadequate, OGS shall notify the Bidder/Contractor and direct the Bidder/Contractor to submit, within seven (7) calendar days of notification by OGS, a request for a partial or total waiver of SDVOB participation goals on form BDC 333S. Failure to file the waiver form in a timely manner may be grounds for disqualification of the bid or proposal.

28.2.4 OGS may disqualify a Bidder's bid or proposal as being non-responsive under the following circumstances:

a. If a Bidder fails to submit an SDVOB Utilization Plan;

b. If a Bidder fails to submit a written remedy to a notice of deficiency;

c. If a Bidder fails to submit a request for waiver; or

d. If OGS determines that the Bidder has failed to document good faith efforts.

28.2.5 If awarded a Contract, Contractor certifies that it will follow the submitted SDVOB Utilization Plan for the performance of SDVOBs on the Contract pursuant to the prescribed SDVOB contract goals set forth in this section.

28.2.6 Contractor further agrees that a failure to use SDVOBs as agreed in the Utilization Plan shall constitute a material breach of the terms of the Contract. Upon the occurrence of such a material breach, OGS shall be entitled to any remedy provided herein, including but not limited to, a finding of Contractor non-responsibility.

28.3 Request for Waiver

28.3.1 In accordance with 9 NYCRR § 252.2(m), a Bidder/Contractor that is able to document good faith efforts to meet the goal requirements, as set forth in 28.4 below, may submit a request for a partial or total waiver on form BDC 333S (https://ogs.ny.gov/veterans/forms), accompanied by supporting documentation. A Bidder may submit the request for waiver at the same time it submits its SDVOB Utilization Plan. If a request for waiver is submitted with the SDVOB Utilization Plan and is not accepted by OGS at that time, the provisions of clauses 28.2.2, 28.2.3 and 28.2.4 will apply. If the documentation included with the waiver request is complete, OGS shall evaluate the request and issue a written notice of acceptance or denial within 20 days of receipt.

28.3.2 Contractor shall attempt to utilize, in good faith, the SDVOBs identified within its SDVOB Utilization Plan, during the performance of the Contract. Requests for a partial or total waiver of established goal requirements made subsequent to Contract award may be made at any time during the term of the Contract to OGS, but must be made prior to the submission of a request for final payment on the Contract. Such waiver requests shall be made on form BDC 333S, accompanied by supporting documentation, and emailed to ogs.sm.sdvobcomp@ogs.ny.gov.

28.3.3 If OGS, upon review of the SDVOB Utilization Plan (BDC 328S) and Contractor's Monthly SDVOB Payment Report (BDC 58S), determines that Contractor is failing or refusing to comply with the contract goals and no waiver has been issued in regards to such non-compliance, OGS may issue a notice of deficiency to the Contractor. The Contractor must respond to the notice of deficiency within nine (9) calendar days of receipt. Such response may include a request for partial or total waiver of SDVOB contract goals.

28.4 Required Good Faith Efforts

In accordance with 9 NYCRR § 252.2(n), Contractors must document their good faith efforts toward utilizing SDVOBs on the Contract. Evidence of required good faith efforts shall include, but not be limited to, the following:

a. A list of the general circulation, trade, and other publications and dates of publications in which the Contractor solicited the participation of certified SDVOBs as subcontractors/suppliers, copies of such solicitations, and any responses thereto.

b. A list of certified SDVOBs that were solicited for this Contract. Provide proof of dates or copies of the solicitations and copies of the responses made by the certified SDVOBs. Describe specific reasons that responding certified SDVOBs were not selected.

c. Descriptions of the Contract documents, plans and specifications made available to certified SDVOBs by the Contractor when soliciting their participation and steps taken to structure the scope of work for the purpose of subcontracting with, or obtaining supplies from, certified SDVOBs.

d. A description of the negotiations between the Contractor and certified SDVOBs for the purposes of complying with the SDVOB goals of this Contract.

e. Dates of any pre-bid, pre-award, or other meetings attended by Contractor, if any, scheduled by OGS with certified SDVOBs whom OGS determined were capable of fulfilling the SDVOB goals set in the Contract.

f. Other information deemed relevant to the request.

28.5 Monthly SDVOB Contractor Compliance Report

In accordance with 9 NYCRR § 252.2(q), Contractor is required to report Monthly SDVOB Contractor Compliance each month to OGS during the term of the Contract for the preceding month's activity, documenting progress made towards achieving the Contract SDVOB goals. This information must be reported by the Contractor using form BDC 58S (form and instructions located at https://ogs.ny.gov/veterans/forms) and emailed by the 10th day of each month for the preceding month's activity to ogs.sm.sdvobcomp@ogs.ny.gov.

28.6 Breach of Contract and Damages

In accordance with 9 NYCRR § 252.2(s), any Contractor found to have willfully and intentionally failed to comply with the SDVOB participation goals set forth in the Contract shall be found to have breached the contract and Contractor shall pay damages as set forth therein.

END OF DOCUMENT

DOCUMENT 007331

SUPPLEMENTARY CONDITIONS – LABOR LAW PROVISIONS

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provisions of that part shall remain in effect.

ARTICLE 23 – LABOR LAW PROVISIONS

Add the following paragraph:

23.7 In accordance with New York Labor Law §220-i, the Contractor and all subcontractors shall be registered with the New York State Department of Labor prior to commencing any Work. The Contractor is responsible for ensuring and verifying that all subcontractors are registered before they commence work on the project. Any delays or costs incurred due to a Contractor's or subcontractor's failure to be registered, or the Contractor's failure to verify such registration, shall be borne solely by the Contractor and shall not be grounds for an extension of time or additional compensation.

END OF DOCUMENT

SECTION 011000

SUMMARY OF THE WORK

PART 1 GENERAL

1.01 WORK COVERED BY CONTRACT DOCUMENTS

A. The title and location of the Work is printed on the cover of this Project Manual.

B. Type of Contract: Fixed Price

1.02 RELATED CONTRACTS

A. The Project consists of the following separate contracts:

Construction Work	Project No. Q1894-C
HVAC Work	Project No. Q1894-H
Plumbing Work	Project No. Q1894-P
Electrical Work	Project No. Q1894-E

B. The suffix letter at the end of the project number distinguishes the separate Contracts. The Sections in Division 01 of the Specifications which have more than one suffix letter (such as this Section) are common to each related Contract.

1.03 SUBSTANTIAL AND PHYSICAL COMPLETION DATES

A. Substantially complete the Work within 588 days after the Agreement is approved by the Comptroller.
   1. The time allocated for the performance of work under this contract includes 10 days for notification of the Contractor of the Comptroller's approval of the Agreement.
   2. The approval of the Agreement by the Comptroller constitutes the filing of the Contract Documents as a public record and notice to the Contractor that a fully executed contract exists between the Contractor and the State.

B. Physically complete the Work within 90 days after the established Substantial Completion date.

1.04 CONTRACT AWARD SUBMITTALS

A. Submittal No. 1: Submit the CONTRACTOR'S LIST OF SUBCONTRACTORS-SUPPLIERS information required in SCHEDULES AND RECORDS Article in Specification Section 013000 not later than 15 days after approval of the Contract by the Comptroller.

B. Submittal No. 2: Submit Preliminary Project Schedule related information noted in 013113 Project Planning and Scheduling or 013200 Construction Progress Documentation, whichever section is applicable, within 15 days after approval of

the Contract by the Comptroller for review by the Director's Representative and OGS Scheduling.

C. Submittal No. 3: Submit the Submittal Coordinator Qualifications not later than 10 days after Award. Include resume and references, and other certification, licenses, or other requested information.

1.05 RESTRICTED WORK PERIOD

A. Construction Work Contract: Do not perform the roofing and related Work on or after December 1st and up to, but not including April 1st unless approved otherwise, in writing, by the Director. During this period, clear the roof of materials, equipment, and debris. Maintain the roof in a watertight condition.

1.06 ITEMS NOT INCLUDED

A. The following items shown on the Drawings are not included in the Contract:
   1. Items indicated "NIC" (Not in Contract).
   2. Existing construction, except where such construction is to be removed, replaced, or altered.

1.07 CONFINED SPACE

A. Comply with confined space and permit-required confined space as defined in Title 29, Part 1910, Section 146 of the Code of Federal Regulations (29CFR 1910.146).

B. Comply with Safety Requirements for Confined Spaces (ANSI/ASSE Z117.1-2009).

C. All spaces shall be treated as permit-required confined spaces until the Contractor and/or subcontractors are able to re-classify the space to a non-permit confined space as per 29CFR 1910.146 and ANSI/ASSE Z117.1-2009.

D. Indicated confined spaces are not intended to limit or define Contractor's or subcontractors' regulatory compliance requirements. In addition to confined spaces indicated on the drawings, other confined spaces may be present or created by the work of this contract. Notify the Director's Representative, in writing, of confined spaces created or eliminated during execution of the Work.

E. For the purpose of inspecting ongoing work, furnish at no additional cost to the State, personnel, as directed, to allow the Director's Representative to enter confined space and permit-required confined space in compliance with Title 29, Part 1910, Section 146 of the Code of Federal Regulations (29CFR 1910.146).

1.08 OCCUPANCY

A. This is an occupied Facility. The building, except for the work areas, will be occupied during execution of the Work. Ingress to and egress from the building shall be maintained at all times.

1.09 CONTRACTOR USE OF PREMISES

A. Comply with Facility policies relating to smoking at the Site.

B. Routes of ingress and egress within the building to the location of the Work shall be as directed by the Director's Representative.

C. Store materials and perform the Work so that pedestrian and vehicular traffic is not obstructed.

D. Do not diminish the level of life safety during performance of the Work.

E. Utility Outages and Shutdowns: Do not interrupt utility services or branch services within the building except for the time required to make new connections. Arrange with the Director's Representative for the time and duration of interruptions of services. Provide temporary services required to maintain building services at all times other than during scheduled interruptions.

F. Do not use existing elevators for the Work.

G. Be responsible and accountable for employees, suppliers, subcontractors and their employees, with regard to their use of the premises. Direct them to comply with the Facility Regulations and with the security and traffic regulations.

H. Furnish Facility authorities with a telephone number or method to contact the supervisor for the Work in case of an emergency after work hours, including weekends and holidays.

I. Comply with applicable federal and State of New York Right-to-Know Law provisions. Provide Safety Data Sheets (SDS) documents for products that have SDS data prior to use on the project site.
   1. Upload and maintain electronic SDS documents on the Submittals Website (SDS tab).
   2. SDS tab is organized by prime contracts. To be readily identified, name products with SDS by specification section number and product name.
   3. Supply and maintain one hard copy of the appropriate SDS on the project site and one hard copy with the Facility's Right-to-Know Information Officer.

J. Direct employees to be watchful for people in or near the work area where safety hazards may be present. Notify the Facility Safety/Security Department, if necessary, to remove them from the work area or Site.

K. Report fire and other emergency situations to the Facility Safety/Security Department immediately.

1.10 REFERENCE SPECIFICATIONS AND STANDARDS

A. Comply with the requirements of the various specifications and standards referred to in these Specifications, except where they conflict with the

requirements of these Specifications. Such reference specifications and standards shall be the date of latest revision in effect at the time of receiving bids unless the date is given.

1.11 LAYING OUT

A. Examine the Contract Documents thoroughly and promptly report any errors or discrepancies to the Director's Representative before commencing the Work.

B. Lay out the Work in accordance with the Contract Documents.

1.12 SPECIAL INSPECTIONS

A. Special Inspections and tests are required by Chapter 17 of the Building Code of New York State (BCNYS). Inspections & Testing Services will be provided by the state unless otherwise noted.

B. Contractors are responsible for notifying the Directors Representative regarding individual inspections listed in the **STATEMENT OF SPECIAL INSPECTIONS**. Contractors shall cooperate with the inspectors and testing agencies and sufficient notice and lead time (minimum 48 hours) must be allowed for inspection and testing to be performed.

C. Where deficiencies are identified, the contractor must take corrective actions to comply with the contract documents or remedy the deficiencies in accordance with Article 9 of the General Conditions.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 011100

SAFETY

PART 1 GENERAL

1.01 SUMMARY

A. This section requires compliance with applicable Safety codes, standards, and regulations, including but not limited to OSHA, Building Code of New York State, Fire Code of New York State, and Facility Regulations.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Summary of the Work: Section 011000.

B. Regulatory Requirements: Section 014100.

1.03 DEFINITIONS, ABBREVIATIONS

A. OSHA: Occupational Safety and Health Administration.

B. BCNYS: Building Code of New York State.

C. EBCNYS: Existing Building Code of New York State.

D. FCNYS: Fire Code of New York State.

E. NFPA: National Fire Protection Association.

F. NEC: NFPA 70E.

1.04 SUBMITTALS

A. Provide a SITE-SPECIFIC SAFETY PLAN no later than 15 days after approval of the Contract by the Comptroller. The plan must include at a minimum:
   1. Cover page including Project Name/Location/Project Number/Contractor Name/Potential Start/Finish Dates.
   2. Complete Scope of work.
   3. Roles and Responsibilities page identifying Supervision, list of the names of all competent and/or qualified persons, including their qualifications, for each activity requiring a competent person i.e. excavations, scaffolding, rigging, fall protection, etc.
   4. A program for implementing appropriate PPE as specified in the High 5. Hazard Assessment detailed in Subparagraph 1.04 A.11 below.
   5. A program for assuring employees have proper work attire, i.e. substantial sole safety-toed footwear, long pants, shirts with minimum 4-inch sleeves, etc.
   6. A 100% 6-foot conventional fall protection program which provides full body harnesses, lanyards (connectors), and anchorage points, or guardrails for all trades when working 6 feet above a lower level.

a. Exception:
    1) When the employer can demonstrate that it is infeasible or creates a greater hazard to utilize these systems, the employer shall develop and implement a Fall Protection Plan, which meets the requirements of paragraph (k) 1926.502. This plan must be approved before implementation by the applicable OGS Regional Safety Manager.
    2) When working from portable ladders.

7. A program for raising employee awareness through the use of weekly Safety Talks (i.e. "Toolbox Talks" or "Tailgate Meetings") on topics related to upcoming/relevant work on the project. Contractor shall be required to verify that all employees on site participated in meeting, with documentation submitted to the Director's Representative.
8. Confined Space entry program and procedures for entry, when applicable.
9. A written Respirable Silica Protection Plan, including tasks for which employees could reasonably be expected to be exposed to harmful silica dust, and control methods that will be used to limit or eliminate exposure, as well as any PPE necessary to ensure protection.
10. Identify specific hazards related to this Project, and how employees will be protected from those hazards.
11. High Hazard Assessment's detailing procedures for all high hazard work activities including, but not limited to:
    a. All lifts involving cranes or material handling equipment.
    b. Scaffolding where scaffold working deck is expected to be 10' or higher from a lower level.
    c. Demolition.
    d. Excavations where anticipated depth is 5' or more.
    e. Hot work activities, which shall follow all applicable requirements stated in NFPA 51B.
    f. Steel erection with specific fall protection requirements detailed.
    g. Work at elevations, including roofing work.
    h. Electrical work involving Lock Out - Tag Out (LOTO) procedures.
        1) High Hazard Assessments shall include a step-by-step breakdown of a given task, the hazards associated with each step, the controls that will be utilized to eliminate or minimize the hazards, and the PPE that will be used to protect from remaining hazards.
        2) All required certifications shall be provided for all applicable types of work with required training/certifications (i.e. Powder Actuated Tools, Aerial Lifts, Forklifts, Crane Operators License, etc.).
12. A project safety inspection program, with a minimum of one documented safety inspection per week, during the course of construction. Submit copies of all resultant inspection reports to the Director's Representative on a weekly basis.
13. A program for providing proper care for injured employees, including the name of the employee with First Aid/CPR certification who will be

on site at all times during the course of construction, to include local hospital/medical facility locations and contact information.

14. Provide an Emergency Action and Evacuation Plan, including Fire Protection and Emergency Response, when applicable.
    a. Plan to include:
        1) Procedures for reporting a fire or other emergency.
        2) Procedures for emergency evacuation, including type of evacuation and exit route assignments.
        3) Emergency Contact information.
        4) Procedures on how to alert workers of an emergency.
        5) Procedures to account for all employees after evacuation and muster/evacuation points.
        6) A list of all major fire hazards, to include type of fire protection equipment necessary to control hazard.

B. Provide safety orientation training for each employee prior to their starting work on site. This orientation shall include, but not be limited to: Fitness for Duty (drug, alcohol, and cannabis policies), training on general safety hazards, site-specific safety policies and procedures, personal protective equipment, injury reporting and protocols, emergency evacuation and preferred medical providers, and HAZCOM (GHS Harmonization). Provide documentation of all safety orientation training for each new employee on the site, including all subcontractors, to the Director's Representative.

C. Accident Reporting: The Director's Representative shall be immediately notified of any and all accidents. A copy of a written accident report shall be furnished to the Director's Representative within 24 hours of an incident.
    1. After any incident on site resulting in an employee being injured or damage to property, a Post- Accident Review Investigation shall be held as soon as possible after any incident. As a minimum, this investigation will involve the injured person, his/her supervisor, the responsible project superintendent and/ or supervisor and the onsite safety supervisor. The contractor shall be responsible to provide a written Post-Accident Corrective Action Plan, which will detail immediate steps taken to correct any unsafe condition that led to injury/property damage, long-term actions to prevent repeat incidents from happening on the site, and roles and responsibilities of individuals who will be implementing the corrective measures, which will be reviewed for effectiveness and continually monitored for implementation.

1.05 STOP WORK ACTIVITY AUTHORITY

A. All NYS OGS Representatives have the authority to stop a work activity that exposes any Contractor employees to potentially serious injury and/or illness. The responsible Contractor shall immediately cease work, perform an assessment of the activity that is exposing employees to any Immediately Dangerous to Life or Health (IDLH) conditions, and take action necessary to satisfactorily address the unsafe condition(s), at no cost to the State. The activity may only resume when a NYSOGS Representative and respective Contractor's Safety Representative verify corrective measures have been satisfactorily completed.

Any related impact to time of completion shall be considered within the Contractor's control.

B. No site work, other than mobilization, shall commence until the Site-Specific Safety Plan is approved.

1.06 ADDITIONAL SAFETY POLICIES THAT WILL BE ADHERED TO THROUGHOUT THE CONSTRUCTION PHASE

A. All contractors are required to utilize head (hardhat) and eye protection (safety glasses) at all times well within the project limits.

B. Any employee exposed to equipment/vehicles shall be required to utilize an ANSI Level 2 Safety Work Vest.

C. Contractors are strictly prohibited from utilizing any state-owned equipment or materials during construction.

D. All tools/equipment on multi-trade projects shall bear identifiable markings as to which contractor the tool/equipment belongs to. If any tool/equipment on the project does not have contractor's markings, the tool shall be immediately removed from the site until owner claims the tool/equipment.

E. Seatbelts shall be utilized when operating all heavy equipment designed to be operated in a seated position. When traveling in a vehicle, all employees shall be seated in a secured seat with a seatbelt in place.

F. Inspections of scaffolding prior to use, and excavations prior to entry shall be documented by an on-site competent person. Documented inspection will be available on-site for inspection by the Director's Representative.

G. All electrical cords/water hoses, if feasible, shall be run overhead to avoid additional slip/trip hazards. If not feasible due to physical restrictions, cords/hoses shall be placed to avoid all walkways and work areas.

H. All heavy equipment being utilized on site shall have a fire extinguisher of suitable size/rating within reach of operator.

I. Any fuel-powered equipment shall have a fire extinguisher of suitable size/rating no closer than 10 feet and no further than 25 feet from the equipment.

J. All electrical work shall be done when panels/lines/boxes have been de-energized and locked out, unless otherwise approved in writing by the Director's Representative.

K. An applicable sized Spill Kit shall be available on all jobsites where heavy equipment is being utilized.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 012100

ALLOWANCES

PART 1 GENERAL

1.01 DESCRIPTION

A. Include in the contract sum the allowances stated in this Section.

B. Should the net cost be more than the specified amount of the allowance, the contract sum will be adjusted by Order on Contract in accordance with the General Conditions. No Work in excess of the allowance will be permitted except by Order on Contract. Should the net cost be less than the specified amount of the allowance, the balance will be deducted from the final payment.

1.02 TOTALS FOR ALLOWANCES

A. The sum of allowances required by the Construction Work Contract is $202,666

B. The sum of allowances required by the HVAC Work Contract is $30,866

C. The sum of allowances required by the Plumbing Work Contract is $40,057

D. The sum of allowances required by the Electrical Work Contract is $824,373

1.03 ALLOWANCES FOR CONTINGENCIES

A. Include in the contract sum the amount indicated below to cover the cost of additional labor and materials for contingent activities within the scope of the Contract as directed in writing by Field Order. The Field Order will include a description of the Work and a method for determining the cost of such Work.

1. Construction Work Contract: $ 202,666
2. HVAC Work Contract: $ 30,866
3. Plumbing Work Contract: $ 40,057
4. Electrical Work Contract: $ 45,427

B. The value of the directed Work under this allowance will be determined by one or more of the methods authorized in Section 012200 which will be specified in the Field Order.

1.04 ALLOWANCE FOR <u>FIRE ALARM</u> WORK

A. Electrical Work Contract: Include in the contract sum the amount of **$778,946** to cover the cost of providing **Modifications to the Fire Alarm System** as specified in **Section 283105** and as shown on the Drawings.

1. The cost of providing the Work of this allowance will be paid in the amount specified. It is a fixed price allowance. Progress payments will be determined, by the Director, by evaluating the work completed.

2. Include overhead and profit for administering this allowance separately in the contract sum, not in the allowance.
3. Cause the products covered by this allowance to be provided by such persons or firm and for such amount as designated.
4. The amount of the allowance includes furnishing and installing the products in accordance with the requirements of referenced Specification Section(s) and Drawings.
5. Execute agreement with designated persons or firm. Arrange for Samples, Shop Drawings, Product Data, Delivery and Installation in accordance with the requirements of referenced Specification Section(s) and Drawings.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 012200

COST COMPUTATIONS

PART 1 GENERAL

1.01 DESCRIPTION

A. The Contracting Officer shall determine the value of any order on contract or field order by one or more of the following methods:

1. Agreed to Amount:
    a. By estimating the fair and reasonable cost of:
        1) Labor, including all wages, required wage supplements and insurance/taxes required by law (workers' compensation, social security, disability, unemployment, etc.) paid to or on behalf of working foremen, workers and other employees below the rank of the Contractor's designated representative directly employed at the Site of the Project, and, on contracts with an award price less than $500,000, the Contractor's designated representative, regardless of job title or work status.
        2) Materials (to be installed or turned over to the State).
        3) Consumables are items that are used during the progression of the extra work that do not become a permanent part of the Work and as such are considered overhead.
        4) Equipment, excluding hand tools, which, in the judgment of the State, would have been or will be employed exclusively and directly on the omitted work or extra work.
        5) Where the omitted or extra work is performed directly by the Contractor; by adding to the total of such estimated costs a sum equal to 15 percent thereof, but, where the omitted or extra work is performed by a subcontractor, by adding a sum equal to 15 percent of said costs for the benefit of such subcontractor, and by adding, for the benefit of the Contractor (no further allowance will be made where extra work is performed by any sub-subcontractor), an additional sum equal to:
            a) 10 percent of the first $10,000 of the above-estimated costs, including the subcontractor's percentage override.
            b) Plus 5 percent of the next $90,000 of the total of said items.
            c) Plus 3 percent of any sum in excess of $100,000 of the total of said items.
            d) For the purposes of the aforesaid percentage overrides, the words "extra work" shall be defined as a complete item of added, modified or changed work as described in writing to the Contractor and the reductions enumerated shall be applied individually to each Order on contract issued on a Contract. Such "extra work" may include the work of one or more trades and/or subcontractors or sub-subcontractors and shall include all labor, material, plant, equipment, tools and all incidentals directly and/or indirectly necessary, related, involved in or convenient to the successful completion of the extra work item.

b. By accepting an amount agreed upon by both parties, which amount is to be calculated in a manner similar to that provided in subparagraph 1.01 A. 1. a.

c. Should the Contractor fail to submit the required proposal as required by Article 10.5.1, the Contractor shall be compensated as follows:

1) The costs will be determined by the State as described in 1.01 A. 1. a. above, but the percentages for profit and overhead will be as follows:

a) Where the omitted or extra work is performed directly by the Contractor; by adding to the total of such estimated costs a sum equal to 10 percent thereof, but, where the omitted or extra work is performed by a subcontractor, by adding a sum equal to 10 percent of said costs for the benefit of such subcontractor, and by adding, for the benefit of the Contractor (no further allowance will be made where extra work is performed by any sub-subcontractor), an additional sum equal to:

(1) 5 percent of the first $10,000 of the above-estimated costs, including the subcontractor's percentage override.

(2) Plus 3 percent of any sum in excess of $10,000 of the total of said items.

2. ACTUAL COSTS - By determining the actual cost of the extra work in the same manner as in the above Subparagraph 1.01 A. 1.a. except that actual costs of the Contractor be utilized in lieu of estimated costs. The State shall have the option to utilize this method provided it notifies the Contractor of its intent to do so prior to the time the Contractor is properly authorized to commence performance of such work.

3. By applying the applicable price or prices set forth in the Contract Documents or by applying a unit price agreed to by both parties.

4. All profit, overhead and expense of whatsoever kind and nature, other than those set forth above in Subparagraphs A.1.a. 1), 2) and 4), and below in Paragraph 1.01 F., of the Contractor, its subcontractors and sub-subcontractors, are covered by the aforesaid percentage overrides and no additional payment therefore will be made by the State.

B. Irrespective of the method used or to be used by the State in determining the value of extra or omitted work, the Contractor shall, after receipt of a request, shall within 15 days submit to the State a detailed breakdown of the Contractor's estimate of the value of the omitted or extra work. The Contractor shall submit evidence, satisfactory to the Contracting Officer, to substantiate each and every item that constitutes his proposal for the change. The State shall promptly respond to such submission.

C. Whenever this Contract requires the determination of labor hours, it shall be determined as follows:

1. Labor Hours shall be based on the labor factors as published in "RSMeans" by Reed Construction Data. The latest versions of the following books shall be used:
   a. Building Construction Cost Data
   b. Electrical Cost Data
   c. Mechanical Cost Data
   d. Plumbing Cost Data
   e. Site Work and Landscape Cost Data

2. In the event that a labor factor for an item of work is not available from these publications the Director shall establish a labor factor as to the amount of time it takes to perform an item of Work.
   a. Conditions that affect the performance of the extra work whether addressed in the Contract Documents or not shall be taken into consideration and negotiated.

b. Unforeseen conditions or conditions that are not identifiable shall not be included in the Contractor's proposal. If while in the process of performing the omitted or extra work a condition or event that affects the work becomes evident, it will be addressed at that time via a field order or change order.

D. Materials:

1. Materials used in performance of the extra work shall conform to Contract Documents and shall be listed by description, quantity and standard unit of measure.
2. Where the extended value of an item of material is FIVE THOUSAND DOLLARS OR MORE a quote or invoice from a supplier shall be included as part of the Contractor's proposal. The Director's Representative reserves the right to request substantiating pricing documentation to verify actual and reasonableness of any and all submitted costs. This requirement does not impede Subparagraph 1.01 B. above.
3. Travel costs including mileage, tolls, and overnight lodging and meal per diems incurred as a result of the extra work will be reimbursed at costs without any markup for the Contractor or subcontractor as the case may be. Daily travel to the project site must exceed 35 miles, one way, from the Contractor's office address to claim mileage and toll expenses; only mileage beyond 35 miles will be reimbursed. Distance must exceed 50 miles, one way, from Contractor's office address to the project site to claim overnight lodging and meal per diems. Actual cost for overnight lodging and meal per diems will be reimbursed up to the maximum rates listed per locality, as established by U.S. General Services Administration (GSA).
4. Personal Protection equipment required for hazardous materials abatement and materials used to create critical barriers and protection barriers, provided that they are expended during the performance of the extra work or turned over to the State at the request of the Director's Representative, are reimbursable as part of an order on contract.

E. Whenever this Contract requires the determination of the cost of equipment, it shall be determined as follows:

1. Equipment used or to be used in the performance of Work shall be specifically described by the manufacturer, model number and date of manufacture and be of suitable size and capacity required for the work to be performed.
2. Equipment, excluding hand tools which are defined as tools and equipment having a new purchase price of less than ONE THOUSAND DOLLARS, and which will be used exclusively and directly on the Work. For the purposes of computing the Contractor's cost for self-owned equipment, the rate used for periods of under five days shall be the monthly rate set forth for the item of equipment in the Equipment Watch® "Rental Rate Blue Book" published by Penton Media (800 669-3282) divided by 22 days to establish a **daily rate** and divided again by eight hours to establish an **hourly rate**. **The rate used for periods of 5 days or more shall be 45% of the published monthly rate.** In the event the "Rental Rate Blue Book" does not list the item of equipment used, the applicable rate shall be determined in the same manner as set forth above except that the monthly rate used shall be that set forth in "The AED Green Book" published by Penton Media (800 669-3282). In the event that a rate is not established in the "Rental Rate Blue Book" or "The AED Green Book" for a particular piece of equipment, the Contracting Officer shall establish a rate for ownership costs and operating costs for that piece of equipment that is consistent with its cost and expected life. Self-owned equipment is defined to include equipment rented from controlled or affiliated companies.
3. Rented equipment will be paid for at the actual rental cost. Equipment rented for the Work used in the performance of extra work will be reimbursed for operating costs only.

4. For the purposes of the performance of extra or additional work, when, in the opinion of the Contractor, and as approved in writing by the Director's Representative, suitable equipment is not available on the Site, the moving of said equipment to and from the Site will be paid for at actual cost.
5. Notwithstanding any other provision, if the State should determine that the nature or size of the equipment used by the Contractor in connection with the performance of Work is larger or more elaborate, as the case may be, than the size or nature of the minimum equipment determined by the State to be suitable for the performance of Work, the cost of equipment used in calculating the costs of extra work or delay damages will not be based upon the equipment used by the Contractor but instead will be based on the smallest or least elaborate equipment determined by the State to have been suitable for the performance of the Work. In no event shall the amount paid to the Contractor as the allowance for the use of self-owned construction equipment exceed the lower of the actual cost of such equipment or the depreciated value of such equipment as carried on the Contractor or subcontractors' books.
6. The Contractor shall be reimbursed for its operating costs for self-owned equipment based on actual cost data. Operating costs shall include fuel, lubricants, other operating expendables and preventive and field maintenance. Operating costs do not include the operator's wages. In the event, after documented and demonstrated due diligence, actual operating costs are not ascertainable, then the Contractor will be compensated utilizing 100 percent of the operating costs set forth in the "Rental Rate Blue Book" and the Contractor shall be reimbursed the product of the number of hours of actual use multiplied by the operating cost per hour.
7. The maximum amount of reimbursement for the ownership costs of self-owned equipment is limited to the original purchase price of the equipment as listed in the "Green Guide for Construction Equipment" published by Penton Media (800) 669-3282. In the specific event when the ownership reimbursement is limited by the original purchase price, the Contractor shall, nevertheless, be reimbursed for the operating cost per hour for each hour of actual use.

F. Insurance and Bonds:
1. The additional cost of all required Bonds and Liability and Builder's Risk Insurance Premium required by this Contract, arising from the additional cost of performing extra work shall be paid by a change order or field order to be issued upon physical completion of the Work and upon the submission of proof of payment of such additional premiums assessed by the respective insurance companies for such additional cost of the extra work.
2. Should the additional work require an additional insurance policy not initially required or anticipated in the execution of the contract, whether required of the Contractor or a subcontract between the Contractor and a subcontractor actually performing extra work, will be reimbursed based on actual cost.

G. Unless otherwise specifically provided for in an order on contract or field order, the compensation specified therein for extra work includes full payment for both the extra work covered thereby and for any damage or expense caused the Contractor by any delays to other work to be done under the Contract resulting from or on account of said extra work, and the Contractor waives all rights to any other compensation for said extra work, damage or expense.

H. In computing the value of an order on contract or field order which involves additions and deletions of work and the cost of the added work exceeds the cost of the deleted work, overhead and profit shall be computed on the amount by which the actual cost of additional labor and material exceeds the actual cost of the deleted labor and material, except no additional overhead

and profit shall be allowed on the value of any order on contract or field order determined by the method provided in Subparagraphs 1.01 A. 1.b. or 1.01 A. 3.

I. In computing the value of an order on contract or field order which involves additions and deletions of work and the cost of the deleted work exceeds the cost of the added work, the Contractor will be allowed to retain the overhead and profit on the amount by which the cost of the deleted work exceeds the cost of the added work, except that no overhead and profit shall be retained on the cost of work determined by the method provided in Subparagraphs 1.01 A. 1.b. or 1.01 A. 3.

J. Subject to the provisions of Article 17A of the General Conditions, the following elements of damage, and only the following elements, as determined by the Contracting Officer, will be recoverable by the Contractor as "delay damages" provided that they are actual, reasonable and necessary:

1. Documented additional or escalated job site labor expenses.
2. Documented additional or escalated costs for materials.
3. Documented additional or escalated equipment costs less appropriate credits, as such are determined in accordance with this Section.
4. Documented costs of extended job-site overhead (including job superintendent, office engineer and clerical staff, but not including working foremen).
5. An additional 15 percent of the total of the above items in Subparagraphs 1.01 J. 1., 2., 3. and 4. for home office overhead and profit thereon.
6. Documented additional or escalated insurance and bond costs.
7. When the work is performed by a subcontractor, the Contractor shall be paid the actual, reasonable and necessary cost of such subcontracted work as outlined Subparagraphs 1.01 J. 1. through 4., including the subcontractor's main office overhead and profit of 15 percent. The Contractor shall also be allowed an additional 5 percent administrative fee for processing.
8. The phrases "additional expenses", "escalated expenses", "additional costs" and "escalated costs" shall include expenses and costs above or below those normally incurred in the performance of the work, less any appropriate credit, and/or attributable, with appropriate credits, to the performance of work or portions of work in a different time period than that which was indicated on the approved progress schedule.

K. The parties agree that, with regard to delay damages, the State will have no liability for the following items and the Contractor further agrees it shall make no claim for the following items:

1. Profit, in excess of that provided for above.
2. Loss of anticipated or unanticipated profit.
3. Labor inefficiencies and loss of productivity.
4. Home office overhead in excess of that provided for above.
5. Consequential damages, including but not limited to interest on monies in dispute, including interest, which is paid on such monies, loss of bonding capacity, bidding opportunities, or interest on retainage or investment, or any resultant insolvency.
6. Indirect costs or expenses of any nature.
7. Direct or indirect costs attributable to performance of work where the Contractor, because of situations or conditions within its control, has not progressed in a manner satisfactory to the Executive Director.
8. Attorneys' fees, or claims preparation expenses.

L. Remedies Exclusive: With respect to extra costs and delay damages, the parties agree that the State shall have no liability to the Contractor for expenses, costs, or items of damage other than

those which are specifically identified as payable above. In the event any legal action is instituted against the State by the Contractor on account of any extra work or for additional compensation, whether on account of delay, acceleration, breach of contract, or otherwise, the Contractor agrees that the State's liability will be limited to those items which are specifically identified as compensable above. The Contractor further agrees to make no claim for expenses other than those which are specifically identified as compensable above.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 013000

ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 RELATED REQUIREMENTS SPECIFIED ELSEWHERE

A. Other requirements pertaining to payments are included in the General Conditions and in the various sections of the Specifications.

B. Cost Computations: Section 012200.

C. Submittals: Section 013300.

1.02 WAIVER OF CERTAIN SUBMITTAL REQUIREMENTS

A. The Electronic Contractor Payments (ECP) program facilitates electronic submission of payment applications and related documents and information via a secure web-based portal. This portal is hereinafter referred to as the "Vendor Interface". Hardcopy (paper) submission of the following forms is waived, and the information required by these forms shall be submitted via the Vendor Interface:
   1. BDC 169 (Contractor's Application for Payment form).
   2. BDC 187 (Detailed Estimate form).
   3. BDC 329 (Contractor's List of Subcontractors–Suppliers).

1.03 SCHEDULES AND RECORDS

A. Submit the following information not later than 15 days after approval of the Contract unless the Contractor or the Director determines an earlier submission is required to properly schedule or progress the Work.
   1. CONTRACTOR'S LIST OF SUBCONTRACTORS – SUPPLIERS: An affirmative review of the subcontractor's responsibility will be conducted. Any subcontractor disapprovals resulting from negative information derived from the State's review will result in written notice (by letter or e-mail) to the Contractor. A responsibility meeting may result from these actions. The Contractor will defer to the provisions of Article 6, General Conditions, regarding its responsibility to prosecute the work.
      a. Submit the CONTRACTOR'S LIST OF SUBCONTRACTORS – SUPPLIERS information using the required electronic entry process via the Vendor Interface.
      b. Indicate the items of Work proposed to be accomplished by subcontractors, the name and address of each proposed subcontractor, the dollar value of the subcontract, and Minority and Women-Owned Business Enterprise (MWBE) information.
         1) Attach a properly completed and executed NEW YORK STATE VENDOR RESPONSIBILITY QUESTIONNAIRE – FOR PROFIT CONSTRUCTION

(CCA-2) and forward to the Vendor Responsibility Unit for each subcontractor whose subcontract is valued at $100,000.00 or more unless requested otherwise by the Contracting Officer and/or the Director's Representative.

2) As an alternative to submitting a paper version of the form, subcontractors may opt to submit the CCA-2 on-line via the New York State VendRep System. Information on this system and the New York State vendor responsibility requirements is available at: http://www.osc.state.ny.us/vendrep/index.htm.

c. Indicate the names and addresses of proposed suppliers, the dollar value of the supplies, and MWBE information.

d. Failure in providing this information may result in payments being withheld and referral to the Contracting Officer for a responsibility determination.

B. If after initial approval, circumstances require a change in a subcontractor or supplier or require additional subcontractors or suppliers to be used, use the Vendor Interface to submit a revised BDC 329 form that reflects the changes or additions.

1.04 DETAILED ESTIMATE

A. Before making the first requisition for a progress payment, prepare a detailed estimate of quantities and prices for materials, labor and other items required for the Work, which shall aggregate the contract sum.

1. Submit the DETAILED ESTIMATE information using the required electronic entry process via the Vendor Interface.

B. The detailed estimate shall be supported by such evidence, including certified copies of subcontracts, as the Director may require.

C. The detailed estimate must be approved by the Director who may revise it as, in his reasonable judgment, is necessary to make the various items conform to their true values.

1. The value of each requisition for payment shall be based on the approved detailed estimate.

D. The Contractor shall bill any item of work listed as "Lump Sum" to 100%, no partial percentages will be allowed.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 013113

PROJECT PLANNING AND SCHEDULING

PART 1 GENERAL

1.01 RELATED REQUIREMENTS AND INFORMATION SPECIFIED ELSEWHERE

A. Summary of the Work: Section 011000.

B. Administrative Requirements: Section 013000.

C. Project Meetings: Section 013119.

1.02 SUMMARY

A. Section includes administrative and procedural requirements to plan, schedule, and document the progress of the Project, work in place, and predict and prevent delays to established activities and milestones during performance of the Work.

1.03 DEFINITIONS

A. Activity: A task or grouping of tasks containing an anticipated start-date and corresponding duration in workdays, anticipated labor resources, person responsible for the work, restricted work period, contract reference document, sequence of work, and budgeted cost (if required) comprising a generalized portion of the Work, that can be identified and measured for planning, coordinating, monitoring, and controlling the project.

B. Activity Duration: Time needed for the represented work in workdays. No duration in any baseline or recovery schedule shall be longer than one (1) reporting period as defined in Section 013119, except for submittal items. All procurement and work activities must be provided in sufficient detail to meet this duration requirement.

C. Baseline Agreement: The agreement document for Section 013113 which will contain the baseline schedule report.

D. Baseline Project Schedule: The schedule derived from the Contractors' Project Work Plan activities and their prescribed durations, predecessor activities, etc., recognizing the completion of the Work of the Project Work Plan in accordance with the Contract duration. The Baseline Project Schedule will remain unaltered as a tool to measure progress outlined and anticipated during the Initial Schedule Meetings and from the agreed-upon Baseline Project Schedule. The Project Team will agree to the resulting schedule by completing the Baseline Agreement within the Project Work Plan software. OGS Scheduling will maintain the agreed-upon Baseline Project Schedule as the assigned project baseline schedule.

E. Calendar: The calendar utilized for each activity, set according to the direction of OGS Scheduling to accurately reflect anticipated State and Federal holidays.

Calendars reflecting additional shifts or non-traditional work hours must be reviewed with the Director's Representative and approved by OGS Scheduling and prior to use in the schedule.

F. Constraints: Constraints are a function which can manipulate or hold specific dates. Constraints are used by OGS Scheduling in specific instances during the baseline process to hold dates dictated by the terms of the Contract or assigned to submittal & procurement items in the Project Work Plan. Constraints are not allowed to be used/entered by Contractors on any activities except for mobilization items.

G. Data Date: The progress point or "status date" for activities/tasks in the project. Project status is up to date as of the Data Date. OGS Scheduling will specify the Data Date for each Project Update Reporting Period.

H. Float: The measure of latitude in starting and/or completing an activity without impeding the successful realization of Project Milestones. It is an expiring Project resource that is jointly owned, not for the exclusive use or benefit of either the State or the Contractors. Float is available as needed to meet scheduled milestones and Project completion. Recognizing float within an activity, or chain of activities, does not permit the Contractors to disrupt progress or to delay completion of an activity.

I. Milestone Activity: A significant start or finish to Work on a given set of activities on the Project, defined by both the Director's Representative and the Contractors. The Project Team will identify milestones, activities, or summary activities for incorporation into the Baseline or Project Schedule to assist in planning, scheduling, and coordinating the Project. This may include major milestones or phases required by the Contract Documents to be utilized by the Contractors and Project Team in developing the Baseline Project Schedule.

J. OGS Project Work Plan System (OGS PWPS): The collaborative online system provided by OGS for Contractors to establish their Project Work Plan activities, duration, prerequisites, resources and budgeted cost (if required) for Work of the Project. All work is entered into the OGS PWPS by the Contractor(s).
1. Importing of any information is not allowed.
2. Time lags are not allowed to be scheduled between activities.

K. OGS Scheduling: The department responsible for assisting and training the Project Team, reviewing, reporting, and interpreting the Contractor Project Work Plan and related information.

L. Preliminary Project Schedule: This schedule is a summary outline of the Contractor's anticipated Project Work Plan for the sequence of work of this Contract through Substantial Completion as noted in the Summary of Work (Section 011000). The activities are developed using anticipated dates and are coordinated among the Contractor(s). The resulting Schedule outlines and aligns the sequence of work for the individual Contract and coordinates the Contracts that are part of a multiple trade Project. The Project Work Plan needs to address sequencing of the work, long lead items, and impact of weather and restricted work periods as noted in Section 002219. The Project Team will agree to the

resulting schedule by completing the Baseline Agreement within the Project Work Plan software.

M. Project: Work to be performed as part of one or more Contracts.

N. Project Team: The Designated Representatives acting on behalf of the State and/or Contractors to successfully plan, schedule, and coordinate the Work of the Project.

O. Project Update Reporting Period (Project Schedule Updates): A regular reporting period as stipulated for this Project in Section 013119, that is concluded by a Project Update Meeting for review, evaluation, and adjustments to the Project Work Plan and Activity progress.

P. Project Work Plan: A comprehensive list of Contractor tasks, including prerequisite activities, durations, labor resources, budgeted costs (if required), etc. used to develop the Project Schedule as entered by the Contractor's Supervision staff in the OGS PWPS.

Q. Recovery Project Schedule: Revised Project Work Plan developed from recovery options presented by the Contractor to the Director's Representative when Project Update Reporting indicates the Work is 15 or more workdays behind the current Substantial Completion dates of the agreed-to Baseline Project Schedule. The Contractor will update their Project Work Plan accordingly for the revision. The Project Team will agree to the resulting recovery project schedule by completing the Baseline Agreement within the Project Work Plan software. OGS Scheduling will maintain the Baseline Agreement Recovery Project Schedule as the assigned Baseline Project Schedule.

1. The Recovery Project Schedule will only be reviewed by OGS when it is entered in the OGS PWPS.

R. Resource: Any labor (workers), material, or equipment, shared or exclusive, required for the completion of the Work or an Activity, for which an associated cost is recognized.

S. Schedule: A comprehensive plan of necessary procedural tasks, including task sequencing, projected start and finish dates, and resource allocation required to successfully complete the Work by the Project completion date. The dates in the Schedule are the result of the sequence, duration, and requirements from the Project Work Plan.

PART 2 PRODUCTS

2.01 SCHEDULE SOFTWARE

A. The Project Work Plan software (Oracle Primavera) is provided by OGS through the OGS PWPS for use on this OGS contract only.

B. Contractors are required to have Internet access to utilize the OGS PWPS for all parts of this section.

C. Meetings will be held in accordance with Section 013119 and will be conducted via WebEx™ or an equivalent online method provided by OGS.

D. OGS will provide training for access and use of the OGS PWPS. Additional support is available by OGS Scheduling as requested.

PART 3 EXECUTION

3.01 PROJECT AWARD

A. OGS Scheduling will establish one account for each Contractor.

B. The Initial Schedule and Training Meeting is coordinated by the Director's Representative and Project Team. Prior to the meeting all Contractor accounts need to be set up by OGS Scheduling.

3.02 INITIAL SCHEDULE MEETING – (PERIOD DEFINED BY SECTION 013119)

A. The meeting is mandatory for the members of the Project Team and will be conducted by OGS Scheduling for the purpose of defining the intent of the specification and reporting structure of the Project. The mutual agreements reached at this, and subsequent meetings form the basis for the Baseline and other Project Schedule(s), and will be used for coordinating, scheduling, and monitoring the Work of all related contracts.

B. This meeting also includes training for the Project Team using the OGS PWPS. Each session will be one hour (total of two hours) via WebEx™ or an equivalent online method provided by OGS.
   1. SESSION 1 - Preliminary Project Schedule & Initial Training
   2. SESSION 2 - Baseline Project Schedule Training

3.03 PRELIMINARY PROJECT SCHEDULE – (PERIOD DEFINED BY SECTION 011000, IF SPECIFIED)

A. In the OGS PWPS, the Contractor will develop their Project Work Plan activities and provide information relating to activity naming, anticipated work dates, resources, and budgeted cost (if required) on the OGS PWPS. The Project Team will establish a focused work breakdown structure (WBS). The activities are developed using anticipated dates and are coordinated among the Contractor(s).

B. Activities are to be appropriately placed within the OGS PWPS. Activity durations are only limited by the requirements of coordinating the work of the Preliminary Project Schedule by the Project Team. For the purposes of coordinating this schedule, relationships (predecessors and successors) are not required between the activities.

C. The Preliminary Project Schedule must be agreed to by the Project Team. Each Contractor and the Director's Representative shall agree to it by completing the

Baseline Agreement within the Project Work Plan Software (sample agreement included at the end of Section 013113).

3.04 BASELINE PROJECT SCHEDULE – (45 DAYS AFTER AWARD)

A. The Contractor(s) shall develop and enter their Project Work Plan activities which adequately represent their scope of Work of the Contract and the required coordination efforts for the Project. This includes, but is not limited to, sequence requirements, identification of logical connections to other work critical to Substantial Completion, accounting for critical submittals or submissions, the fabrication and delivery of long-lead materials, products, specialized equipment or services, and the recognition of critical testing, inspection, or commissioning durations for coordination and tracking.

B. Each activity will identify the Contractor's anticipated duration for the activity defined in workdays, resources, and budgeted cost (if required) of the activity. The Contractor is responsible to provide the mandatory requirements outlined by OGS and the online OGS PWPS layout within the project structure provided by OGS. Revisions to the project structure must be agreed upon by the Project Team.

C. Activity durations cannot exceed the time frame in workdays of the Project Reporting Period as defined in Section 013119.

D. The Contractors will identify each activity with a unique Activity Name that clearly communicates the scope of the work item to the rest of the Project Team. No Activity Name or Activity ID will be altered without approval of the Director's Representative and OGS Scheduling after the Baseline Project Schedule has been agreed to by the Director's Representative.

E. The Baseline Project Schedule must be agreed to by the Project Team. Each Contractor and the Director's Representative shall agree to it by completing the Baseline Agreement within the Project Work Plan software (sample agreement included at the end of Section 013113).

3.05 PROJECT SCHEDULE UPDATES (PERIOD DEFINED BY SECTION 013119)

A. Project Schedule meetings will be led by the Director's Representative and held to review Contractor updates to the actual starts, actual finishes, and remaining duration of in-progress activities, and consider logic changes, predecessor alterations, duration amendments, time impact events, and scope changes, for the purpose of determining the status of construction progress for the updated Project Schedule. At each meeting the Project Team will:

1. Agree to the completed Activity dates.
2. Coordinate and agree to the next 6-week Project Work Plan.
3. Evaluate and acknowledge any impact to the Contractor's ability to execute the Project Schedule according to the Baseline Project Schedule.

B. During the progress of Work on the Project, the Contractors are required to document actual start, actual finish, and remaining duration on a daily basis.

Information will be posted by the Contractor to the OGS PWPS as defined during the Initial Schedule Meeting.

C. Contractors are required to update the status of all their activities two (2) days prior to the Project Schedule Meeting. The Contractors will notify the Director's Representative and OGS Scheduling when their update information for all activities is complete.
   1. Any variation of 5 days (+/-) in the start or finish date for each activity must be explained and posted to each activity.
   2. All necessary initiated documents such as Request for Information (RFI), Information Bulletins (IB), Field Orders (FO), Change Orders (CO), and Notice of Claim (NOC) must be incorporated by the Contractor into the Contractor's Work Plan.
   3. Any Contractor failing to progress their Work as outlined in the updated Project Work Plan will be informed of their deficiencies and, if required, be requested to provide a recovery option.

D. Performing Work out of sequence with the Project Schedule is not permitted unless written approval is obtained from the Director's Representative prior to commencement.

3.06 RECOVERY PROJECT SCHEDULE

A. When the Project Schedule completion date is projected to be greater than the agreed-to Baseline Project Schedule's Substantial Completion date by 15 or more workdays, the Contractor(s) will revise the existing Project Work Plan as necessary towards meeting the specified completion date within 10 calendar days after the Project Schedule update meeting.

B. Contractor recovery options may include, but are not limited to, allocating additional resources to reduce activity duration or modify activity sequencing.

C. Alterations to the Project Work Plan activities for a Recovery Work Plan will require the approval of the Contractor(s) and the Director's Representative. Agreed-to alterations to the Project Work Plan activities for a Recovery Work Plan will constitute the updated Project Schedule.

D. The updated Project Schedule must be agreed to by the Project Team. Each Contractor and the Director's Representative shall agree to it by completing the Baseline Agreement within the Project Work Plan Software (sample agreement included at the end of Section 013113).

E. The previous Baseline Project Schedule will be retained. The new agreed-upon Baseline Project Schedule will be used to measure progress moving forward.

3.07 SCHEDULE CLOSEOUT (AS-BUILT SCHEDULE)

A. A schedule meeting must occur to update the project schedule with the actual progress dates and to confirm that all activities are complete for Substantial Completion.

B. The Director's Representative will determine if any of the original Substantial Completion activities need to be tracked for Physical Completion in the project schedule.

3.08 TIME IMPACT AND TIME IMPACT ANALYSIS (TIA)

A. The Contractor(s) will represent the impact relative to the assigned Baseline Project Schedule in the OGS PWPS. The Contractor will incorporate the impact of any change in their Work Plan per the current OGS PWPS requirements for impacts. The requirements include but are not limited to:
   1. A day-for-day tracking of the impact to illustrate the sequence of the impact from the initiating event.
   2. All information required to create an Activity and the associated codes for the impact in the OGS PWPS as defined previously.
   3. Modification of existing activities so that the name of each associated task enhances the reader's understanding of the impact. Modification of the associated (TIA) codes for the change in the OGS PWPS.
   4. For the addition of any new activities, an explanation of how the modified scope impacts the agreed-to Baseline Project Schedule.

B. Contractors and the Project Team will use the most current Project Work Plan update to prepare the Time Impact representation.

C. If Project Work Plans have not been updated in accordance with this specification, an update by the Contractor must be generated which includes an accurate realization of the Work performed and progressed up to the Time Impact event. Failure to maintain Project Work Plan updates in accordance with this or related specifications will not absolve the Contractors of the responsibility to identify Time Impact as defined by, but not limited to, Specification Section 013113 or the General Conditions.

D. OGS Scheduling will assist the Contractor with this process as requested.

E. A Request for Time Extension will require Time Impact recognition within the OGS PWPS and Schedule.

F. Time Impact events will be reviewed for accuracy and are to be updated in accordance with relevant new information regarding time for resolution and impact to the remaining work on the Project.

G. All impacts (sequence, duration, and scope) must be agreed to by the Project Team.

3.09 SUBSTANTIAL COMPLETION DATE CHANGES

A. If the Substantial Completion date of the project is modified by an Order on Contract in accordance with the General Conditions, the Project Team will agree to a new Baseline Project Schedule within 10 calendar days after the approval of the Order on Contract.

1. The previous Baseline Project Schedule will be retained. The new agreed-upon Baseline Project Schedule will be used to measure progress moving forward.
2. The new Baseline Agreement must be agreed to by the Project Team. Each Contractor and the Director's Representative shall agree to it by completing the Baseline Agreement within the Project Work Plan Software (sample agreement included at the end of Section 013113).

SAMPLE BASELINE AGREEMENT

Baseline Agreement

NEW YORK STATE OF OPPORTUNITY. Office of General Services Design & Construction

Project:

It is agreed that the referenced Project Schedule defined by the following reports has been reviewed and is accepted for use in coordinating, scheduling, and monitoring the work of all related contracts

By acknowledging within the Project Work Plan software, OGS does not waive the terms and conditions set forth in the Contract Documents. In accordance with the General Conditions (Document 007213) any change in the Contract sum or time of completion requires an Order on Contract.

Refer to the following report for the specific dates.

Contract	Representative	Activity Name	Date

END OF SECTION

SECTION 013119

PROJECT MEETINGS

PART 1 GENERAL

1.01 INITIAL JOB MEETING

A. The Director's Representative will notify all parties concerned of the time and place of the initial job meeting. The meeting will be conducted by the Director's Representative. The agenda will be based on the Format for Initial Job Meeting. All items on the format, as they apply, will be discussed.
   1. A copy of the Facility's current Visitor Identification Policy will be distributed.

1.02 PROJECT SCHEDULE MEETINGS

A. The Initial Schedule Meeting will be held within 15 days of Project award. The Director's Representative will notify all members of the Project Team of the time and place of the meeting. The meeting will be conducted by the Director's Representative and OGS Scheduling via WebEx™ or an equivalent online method for the following purposes:
   1. Define the intent of the specification.
   2. Review the reporting structure of the Project.
   3. Provide training to the Project Team.

B. The Director's Representative will notify all members of the Project Team of any Schedule development/coordination meetings conducted by the Director's Representative and OGS Scheduling via WebEx™ or an equivalent online method.

C. The Project will have monthly project update reporting periods. The update meetings will be conducted by the Director's Representative and OGS Scheduling via WebEx™ or an equivalent online method for the following purposes:
   1. Agree to the completed Activity dates.
   2. Coordinate and approve the next 6-week Project Work Plan.
   3. Evaluate and acknowledge any impact to the Contractor's ability to execute the Project Schedule according to the approved Baseline Project Schedule.

1.03 BIWEEKLY JOB MEETINGS

A. Unless otherwise directed, job meetings will be held biweekly, at a time and place agreed upon by the Director's Representative, the Contractor, and the Facility Representative. Other interested parties may attend when needed, e.g., subcontractors and representatives from suppliers, public utilities, and local government. The meetings will be conducted by the Director's Representative for the following purposes:

1. Review job progress, quality of Work, and approval and delivery of materials.
2. Identify and resolve problems which impede planned progress.
3. Coordinate the efforts of all concerned so that the project progresses on schedule to on-time completion.
4. Maintain sound working relationships between the Contractors and the Director's Representative, and a mutual understanding of the project requirements.
5. Maintain sound working procedures.

1.04 PRE-INSTALLATION MEETINGS

A. Pre-installation meetings will be held to review the specifications, Project Schedule, drawings, and approved submittals in preparation for start of a particular activity.

B. The meetings shall be attended by the Director's Representative, a Design Representative, and the Contractor's Representative, including installer and representatives of manufacturers & fabricators involved in or affected by the installation and its coordination with other materials/trades.

C. The Director's Representative shall schedule the meetings prior to the start of the work. The goal of these meetings is to ensure the quality of construction and to maintain the schedule.

1.05 ATTENDANCE

A. A Contractor's Representative shall be required to attend all meetings scheduled by the Director's Representative, as set forth above.

B. If the Contractor's Representative fails to attend two scheduled meetings without prior approval, the Contractor will be directed to replace the current Contractor's Representative. Further incidents of non-attendance by the Contractor's Representative will form the basis for review of the Contractor's responsible vendor status.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 013300

SUBMITTALS

PART 1 GENERAL

1.01 RELATED REQUIREMENTS SPECIFIED ELSEWHERE

A. Other requirements pertaining to submittals are included in the General Conditions and in the various sections of the Specifications.

B. Summary of the Work: Section 011000.

C. Administrative Requirements: Section 013000.

D. Contract Closeout Submittals: Section 017716.

1.02 DEFINITIONS

A. Deviation: Changes in products, materials, equipment and methods of construction from those required by the Contract Documents and proposed by the Contractor.

B. Acceptable Manufacturer, Company or Product: A manufacturer, company or product capable of achieving the requirements established in the Contract Documents and demonstrating compliance.

C. Portable Document Format (PDF): An open standard file format used for representing documents in a device-independent and display resolution-independent fixed layout document format.

D. Environmental Product Declaration (EPD): a third-party verified (also known as "type III") product declarations that quantify environmental information the full life cycle of a product, from raw material supply, transport, manufacturing, installation, and operational use, through to waste processing and disposal at end-of-life, per ISO 14025.

1.03 DEVIATIONS FROM REQUIREMENTS OF THE CONTRACT DOCUMENTS

A. Deviations from the requirements of the Contract Documents will not be allowed unless a request for deviation is made in writing prior to or at the time of submission and the specific deviation is approved by the Director's Representative subject to the requirements of Article 4 of the General Conditions. The request for deviation shall be made utilizing the CONTRACT DOCUMENT DEVIATION REQUEST FORM (Form BDC 49) accessible from the OGS Web Site.

1. The submission of a deviation shall be done in a timely manner according to the schedule of submittals to allow the Director sufficient time for review.

1.04 "OR EQUAL" TO BRAND NAME PRODUCTS

A. Whenever a product is specified by brand name, a comparable brand, equal to that named, may be submitted for approval subject to the requirements of Article 5 of the General Conditions.
   1. The Contractor shall bear the burden of proving that the proposed product is equal to the specified product. The submission of an "or equal" shall be done in a timely manner to allow the Director sufficient time to review the proposed product.
   2. Whenever a color or pattern is indicated by a specific manufacturer's name or number, the intent is to communicate the required color or pattern of the material. Other manufacturers' comparable colors or patterns may be submitted for approval as equal.

1.05 WAIVER OF CERTAIN SUBMITTAL REQUIREMENTS

A. Unless otherwise specified, the requirement to submit product data and samples for approval will be waived for products specified by brand name if the specifically named products are furnished for the Work. In such cases, submit required Product Data to the Director's Representative via Submittal Exchange® for information only.

1.06 ADMINISTRATIVE REQUIREMENTS

A. Participate in the OGS's hosted web-based collaboration service (Submittal Exchange® at www.submittalexchange.com) to transmit and track Contractor provided project related documents.

B. Identify submittals by project title and number. Include Contractor's name, date, and revision date. On shop drawings, product data and samples, also include the name of the supplier and subcontractor (if any), and applicable specification section number. Stamp each submittal and initial or sign the stamp to certify review and approval of submittal.

C. Assemble submittals in accordance with the requirements in the individual sections of the Specifications and as required by this section. It is the Contractor's responsibility to review and verify that all information required for each submittal is included in the submittal package. Errors or omissions found by the Contractor are to be corrected prior to the submission of the submittal package for approval. Incomplete submittal packages that have been submitted for review and approval will be returned.
   1. It is the Contractor's responsibility to verify that portions of the submittal package to be provided by a subcontractor (or supplier) are complete, as well as portions of the submittal package being provided directly by the Contractor.
   2. Do not combine the submittals of more than one specification section with submittals required by other specification sections unless specifically stated in the contract Specifications.

D. If a submittal is based on, or the result of, a change order or field order to the Contract Documents, include copies of the applicable change order or field order with the submittal.

E. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
   1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
   2. Submit all submittal items required for each specification section concurrently unless instructions for partial submittals are required in a specific specification section requiring sequential submissions.
   3. Submit action submittals and informational submittals required by the same specification section as separate packages under separate transmittals.
   4. Coordinate transmittals of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
      a. The Director's Representative reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

F. Processing Time: Allow time for submittal review, including time for resubmittals, as follows. Time for review shall commence on uploading the submittal to Submittal Exchange®. No extension of the project schedule will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
   1. Initial Review: Allow time for the initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. The Designer of Record will advise the Director's Representative when a submittal being processed must be delayed for coordination.
   2. Resubmittal Review: Allow time for review of each resubmittal.
   3. Sequential Review: Where sequential review of submittals by the project team is necessary for coordination, allow time for review.

G. The Construction Contractor(s) shall employ or otherwise provide a full-time Submittal Coordinator for no less than 90 days after the Initial Job Meeting (IJM). The Submittal Coordinator is responsible to manage, coordinate and facilitate the submittal process on behalf of the Contractor. The Submittal Coordinator shall have regularly been engaged in construction administration for a minimum of 3 years and shall not be employed or otherwise engaged as the Project Manager or Superintendent for either the Work of this Contract or be employed in any role, full or part time, outside of this Contract.

1.07 SUBMITTALS

A. Submittal Coordinator Qualifications: Not later than 10 days after Award. Include resume and references, and other certification, licenses, or other requested information.

B. Schedule of Submittals acknowledgement: Provide written acknowledgement that the Schedule of Submittals has been received and reviewed with Critical Submittals identified and Contractor's Projected Dates (three dates inserted into each column) are entered for each specification item.

1.08 RE-EVALUATION FEE

A. In accordance with Article 4.7 of the General Conditions, a re-evaluation processing fee will be levied against the Contractor for each re-evaluation of a Submittal or Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content or format.

1.09 ELECTRONIC SUBMITTALS

A. Submittal Exchange® is used to provide an on-line database and repository which shall be used to transmit and track project related documents. The intent for using this service is to expedite the construction process by reducing paperwork, improving information flow, and decreasing submittal review turnaround time.
   1. Project submittals (shop drawing, product data and quality assurance submittals) shall be transmitted by the Contractor in PDF to Submittal Exchange®, where it will be tracked and stored for retrieval for review. After the submittal is reviewed it is uploaded back to Submittal Exchange® for action or use by the Contractor and Director's Representatives.
   2. The service also tracks and stores documents related to the project such as RFI's (Request for Information), IB's (Information Bulletins), CAD Coordination, Minutes, Testing, Closeout, and SWPPP documents.

B. For each submittal, the Contractor shall review and apply electronic stamp certifying that the submittal complies with the requirements of the Contract Documents, including verification of manufacturer/product, dimensions and coordination of information with other parts of the work.

C. It is the Contractor's responsibility to provide submittals in PDF. The Contractor may use the following options:
   1. Subcontractors and suppliers provide electronic submittals in PDF to the Contractor through Submittal Exchange®.
   2. Subcontractors and suppliers provide paper submittals to the Contractor, who electronically scans and converts them to PDF.
   3. Contract a Scanning Service, which will allow the Contractor and the Contractor's subcontractors and suppliers to provide paper submittals to the Scanning Service, which electronically scans and converts them to PDF. It will be the Contractor's responsibility to transmit the scanned submittals to Submittal Exchange®.

D. Image Quality:
   1. Image resolution: The PDF files shall be created at a minimum resolution of 200 dots per inch utilizing the original document size. The Contractor will be responsible to increase the resolution of the scanned

file or images being submitted as required to adequately present the information.

2. Image Color Rendition: When information represented requires color to convey the intent and compliance, provide full color PDF reproduction.

E. Internet Service and Equipment Requirements:
   1. The Contractor will be required to have an Email address and Internet access at Contractor's main office.
   2. Unless the Contractor will exclusively be using a Scanning Service to create PDF documents, the Contractor will be required to own a PDF reviewing, creating and editing software, such as Adobe Acrobat (www.adobe.com), Bluebeam PDF Revu® (www.bluebeam.com), or other similar PDF reviewing, creating and editing software for applying electronic stamps and comments.

F. Training and Support:
   1. Submittal web-based collaboration training and support shall be available, free of charge from Submittal Exchange®, for project participants using the submittals website.
   2. Training schedule will be coordinated through the Director's Representative.

G. Paper prints (hardcopies) of reviewed submittals:
   1. Record Copy: Each Contractor shall provide one paper copy of each submittal they are responsible for to the Director's Representative within 14 days of receipt of a released submittal (i.e. marked "Approved", "Approved As Noted", or other implied acceptance of a submittal), or meeting the requirements of Waiver Of Certain Submittal Requirements Article of this specification section.
      a. Exception: Paper copies are not required for a submittal that is disapproved or requiring resubmission.
      b. Paper copies shall be printed in a size format equal to the original document.
      c. Scaled Shop Drawings shall be printed to the scale noted on the drawings.
      d. The resolution of the printed copy shall be equal to that of the PDF file that it is being printed from.
      e. The Record Copy shall be used by the Director's Representative during the construction of the project and shall be retained as a turn-over item to the facility at the end of the project as required under Section 017716 Contract Closeout.
   2. Use for Construction: Retain complete copies of submittals on project site. The Contractor shall not commence work for related activities until the appropriate submittals are approved and the corresponding record copies are delivered to the Director's Representative.
   3. Distribution: The Contractor will furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Maintain transmittal forms indicating distribution of submittals.

1.10 SHOP DRAWINGS

A. Provide shop drawings in the format required by the Specifications. Show the information, dimensions, connections and other details necessary to insure that the shop drawings accurately interpret the Contract Documents. Show adjoining construction in such detail as required indicating proper connections. Where adjoining connected construction requires shop drawings or product data, submit such information for approval at the same time so that connections can be accurately checked.

B. Electronic copies of CAD Drawings of the Contract Drawings will be provided by the Director's Representative for Contractor's use in preparing submittals.
   1. The Director's Representative will furnish one set of digital data drawing files of the Contract Drawings for use in preparing Shop Drawings.
      a. The Director's Representative makes no representations as to the accuracy or completeness of digital data drawing files as they relate to the Contract Drawings.
      b. Digital Drawing Software Program: The Contract Drawings are available in Revit.
      c. The following digital data files will be furnished for each appropriate discipline:
         1) Floor Plans.
         2) Reflected Ceiling Plans
         3) Sections / Details / Finish Schedules
   2. The Contractor will be required to sign a Use Agreement for Project Documents prior to release of digital data drawing files of the Contract Drawings.

C. Have shop drawings prepared by a qualified detailer. Shop drawings shall be neatly drawn and clearly legible. Machine duplicated copies of Contract Drawings will not be accepted as shop drawings.
   1. Where shop drawings are indicated to be drawn to scale:
      a. Use scale normally found on an "Architect" or "Engineer" scale.
      b. Written Scale: Clearly label scales being used on each drawing and/or on each detail on the drawing.
         1) Examples: 1/8" = 1'-0" 1" = 40'-0".
      c. Graphic Scale: Adjacent to each Written Scale, provide a graphic scale delineating the scale being used. Graphic scale shall be divided into measuring units relating to the accuracy required for the drawing or details.
      d. Clearly dimension key elements of the drawing or detail.
   2. When the drawing sheet is printed full size, the minimum text size shall be 1/8" (3.2 mm) for hand drafting and 3/32" (2.5 mm) for CADD drawings.

D. Submit the shop drawings through Submittal Exchange®. The shop drawings will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review. If the review results in disposition of "DISAPPROVED" or "RETURNED FOR CORRECTION", promptly correct the deficiencies and resubmit the shop drawings meeting Contract requirements.

1.11 PRODUCT DATA

A. Provide product data in the format required by the Specifications. Modify product data by deleting information that is not applicable to the project or by marking the product data to identify pertinent products. Supplement standard information, if necessary, to provide additional information applicable to project.

B. Submit the product data through Submittal Exchange®. The product data will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review. If the review results in disposition of "DISAPPROVED" or "RETURNED FOR CORRECTION", promptly correct the deficiencies and resubmit the product data meeting Contract requirements.

C. Comply with applicable federal and State of New York Right-to-Know Law provisions. Provide Safety Data Sheets (SDS) documents for products that have SDS data prior to use on the project site.
   1. Upload and maintain electronic SDS documents on the Submittal Exchange® SDS tab.
   2. SDS tab is organized by prime contracts. To be readily identified, name products with SDS by specification section number and product name.
   3. Supply and maintain one hard copy of the appropriate SDS on the project site and one hard copy with the Facility's Right-to-Know Information Officer.

1.12 ENVIRONMENTAL PRODUCT DECLARATION (EPD)

A. Provide EPDs for the specific material required by the Specifications, if available.

B. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 Environmental labels and declarations, ISO 14044 Environmental management – Life cycle assessment, and ISO 21930 Core rules for environmental product declarations of construction products and services.

C. Include completed Environmental Product Declaration (EPD) Cover Form found on the OGS Web Site with the submission of each EPD.

D. A statement of the contractors' good faith effort to obtain the EPD shall be provided via Environmental Product Declaration (EPD) Waiver Form found on the OGS Web Site if EPD is not available.

E. Submit the product data through Submittal Exchange®. The EPD will be reviewed, and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review. If the review results in disposition of "DISAPPROVED" or "RETURNED FOR CORRECTION", promptly correct the deficiencies and resubmit the product data meeting Contract requirements.

1.13 QUALITY ASSURANCE

A. Provide quality assurance information in the format required by the Specifications, including supporting documentation as required.

B. Submit the quality assurance information through Submittal Exchange®. The quality assurance information will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review. If the review results in disposition of "DISAPPROVED" or "RETURNED FOR CORRECTION", promptly correct the deficiencies and resubmit the quality assurance information meeting Contract requirements.

1.14 SAMPLES

A. Submit 2 (unless a different number is specified) of each sample required by the Specifications.

B. Samples will become the property of the State when submitted and will not be incorporated in the Work unless specifically stated otherwise.

C. The electronic submittal process is not intended for color samples, color charts, or physical material samples.

D. Record transmittal of each sample required by the Specifications through Submittal Exchange®.

E. Consult with the Director's Representative for direction on where Samples will be sent for review.

F. The sample will be reviewed and the review results will be posted on Submittal Exchange®. Contractor will receive email notice of completed review.

1.15 REVIEW OF SUBMITTALS

A. Items submitted for review will be reviewed for compliance with the Contract Documents, based upon the information submitted. The items will be acted upon with the following dispositions:

1. Approved:
   Where the submittal is marked "Approved", the work covered by the submittal may proceed provided it complies with the Contract Documents. Final acceptance will depend on that compliance.
2. Approved as Noted:
   Where the submittal is marked "Approved as Noted", the work covered by the submittal may proceed provided it complies with the review comments noted on the submittal and the Contract Documents. Final acceptance will depend on that compliance.
3. Disapproved:
   Where the submittal is marked "Disapproved", do not proceed with the work covered by the submittal, including purchasing, fabrication, delivery or other activity for the item submitted. Prepare a new submittal

according to the review comments noted on the submittal and meeting the Contract Documents.

4. Returned for Correction:
   Where the submittal is marked "Returned for Correction", do not proceed with the work covered by the submittal, including purchasing, fabrication, delivery or other activity for the item submitted. Revise or prepare a new submittal according to the review comments noted on the submittal and meeting the Contract Documents.
5. Acknowledged:
   Where the submittal is marked "Acknowledged", receipt of the submittal is acknowledged and has been recorded.
6. No Action:
   Where the submittal is marked "No Action" or "No Action Taken", no review was made of this item, see comments noted on submittal and take appropriate action.
7. Multi-Action:
   Where the submittal is marked "Multi-Action", separate dispositions were made for the items submitted, see the review comments for the disposition of each item submitted.

1.16 SCHEDULES AND RECORDS

A. Submit the following Schedules and Records information not later than 15 days after approval of the Contract unless the Contractor or the Director determines an earlier submission is required to properly schedule or progress the Work.

1. SCHEDULE OF SUBMITTALS (S.O.S.):
   a. Follow the Instructions to the Contractor in the S.O.S (cover page of the Microsoft Excel form supplied by the State).
   b. Confirm submittal items listed and indicate in the spaces following each item, the date the item will be submitted (Projected Transmittal Date).
   c. Confirm critical submittals and long lead items identified by the Architect / Engineer. Identify and mark with "X" additional submittals deemed as critical or having long lead times. In addition to the date each item will be submitted, include the date approval is required (allow at least 3 weeks), and the date delivery of the material or equipment is necessary for timely completion of the Work in accordance with the Project Schedule.
   d. Notify the Director's Representative of modifications and/or additional submittals necessary for the project prior to requesting revisions with Submittal Exchange®.
2. SUBMITTALS WEBSITE LOG:
   a. The submittal website log will be populated by Submittal Exchange® by means of the S.O.S.
   b. Review the log and verify that all long lead items and critical submittals are properly indicated according to the latest version of the S.O.S. For each item to be submitted indicate the following:
      1) In the "Date Expected" column insert the date the item will be submitted for review and approval (this is the same date as the S.O.S "Projected Transmittal Date").

2) In the “Date Requested on Site” column insert the date the item will be delivered to the project site (this is the same date as the S.O.S “Projected Delivery Date”).

c. The submission date that is entered shall provide sufficient time for the item to be reviewed, ordered, delivered and installed for timely completion of the Work in accordance with the Project Schedule. The date entered for submittal of each item is the last day a deviation will be considered.

1.17 TRANSMITTALS

A. Submittal Transmittal (Form BDC 42) accessible from the OGS Web Site:
   1. Furnish separate Form BDC 42 for each submitted item sent to Submittal Exchange® for review.
      a. Contractor may utilize their own Transmittal Form (or Transmittal Letter) in lieu of utilizing the Form BDC 42, contingent on the Contractor’s Transmittal Form includes all information and certifications required by Form BDC 42.
   2. Clearly identify applicable specification section number of submitted item (product data, shop drawing, etc.) on the Form BDC 42.

B. All Contracts:
   1. Transmit items designated in the Schedule of Submittals (and project Specifications) to the Submittal Exchange®.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 014100

REGULATORY REQUIREMENTS

PART 1 GENERAL

1.01 COMPLIANCE

A. Comply with applicable regulatory requirements and various codes referenced in these specifications. Where conflicts exist between local, State, and/or Federal regulatory requirements, codes, or these specifications, advise the Director's Representative. The Director's Representative will assist in resolving the conflicts to the satisfaction of the regulatory agencies prior to commencing the Work.

1.02 UNIFORM CODE, ENERGY CODE, AND CONTRACTOR QUALIFICATIONS

A. All Work shall comply with OSHA (including site-specific safety plans required on all projects), and the New York State Uniform Fire Prevention and Building Code (the "Uniform Code"), which includes the publications incorporated by reference in Title 19 NYCRR Part 1219 through 1228:
   1. 2020 Residential Code of New York State (the "Residential Code")
   2. 2020 Building Code of New York State (the "Building Code")
   3. 2020 Plumbing Code of New York State (the "Plumbing Code")
   4. 2020 Mechanical Code of New York State (the "Mechanical Code")
   5. 2020 Fuel Gas Code of New York State (the "Fuel Gas Code")
   6. 2020 Fire Code of New York State (the "Fire Code")
   7. 2020 Property Maintenance Code of New York State (the "Property Maintenance Code")
   8. 2020 Existing Building Code of New York State (the "Existing Building Code")
   9. All other standards referenced in 19 NYCRR Parts 1219 through 1228.

B. The contractor shall be aware of, and comply with, contractor requirements identified in the above-referenced codes and standards; for example, but not limited to:
   1. OSHA (Occupational Safety and Health Administration).
   2. 2020 Building Code Chapter 33 Safeguards During Construction.
   3. 2020 Existing Building Code Chapter 15 Construction Safeguards.
   4. 2020 Fire Code Chapter 33 Fire Safety During Construction and Demolition
   5. 2020 Fire Code Chapter 35 Welding and Other Hot Work (which governs safety during construction).

C. All Work shall comply with the 2020 Energy Conservation Construction Code of New York State ("Energy Code") promulgated pursuant to Article 11 of the New York State Energy Law. The Energy Code is contained in 19 NYCRR, Part 1240, and in the publications incorporated by reference in 19 NYCRR Part 1240. The publications incorporated by reference in 19 NYCRR Part 1240 include:

1. The publication entitled “2020 Energy Conservation Construction Code” published by International Code Council, Inc.
2. The publication entitled “ANSI / ASHRAE / IES Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings” published by American Society of Heating, Refrigeration and Air-Conditioning Engineers, Inc.
3. The other referenced standards mentioned and/or referred to in 19 NYCRR Part 1240.

D. Electrical Work: Conform to the requirements of the National Electrical Code (NEC), as referenced in the Uniform Code, unless otherwise shown or specified. The Director will be the sole judge of the interpretation of these rules and requirements.

1.03 STATE-REQUIRED PERMITS AND INSPECTIONS

A. No Work shall commence without a Construction Permit issued by the OGS Division of Codes and Construction Permitting. Contractors shall not file for and not pay for Construction Permits for Work located on New York State property.

B. A New York Board of Fire Underwriters inspection or certificate is not required.

1.04 LISTINGS

A. Equipment and materials for which Underwriters’ Laboratories, Inc. (UL) provides product listing service, shall be listed and bear the listing mark.
1. Alternately, any product listed and bearing the mark from one of the other Nationally Recognized Testing Laboratories (NRTL – as recognized by OSHA) shall be an acceptable alternative to being UL listed and marked, if the listed product has been tested to the applicable standard.

1.05 FIRE-RESISTANT CONSTRUCTION MATERIALS AND ASSEMBLIES

A. Conform to the fire rating classifications based upon the test methods and acceptance criteria in the “Standard for Fire Tests of Building Construction and Materials” for which Underwriters’ Laboratories, Inc. (UL) provides listings.
1. Materials and assemblies shall comply with the acceptance criteria, detailed description of the assembly, its performance in the fire test, and other pertinent details such as specification of materials, Classification coverage, and alternate assembly details.
2. Alternatively, fire resistance rating classifications by other issuing organizations listed in the New York State Uniform Fire Prevention and Building Code are acceptable.

1.06 FIRE ALARM AND SECURITY WORK

A. The Work to install, modify, repair, or service Fire Alarm Systems and/or Security Systems shall be performed in accordance with the requirements of Article 6-D (Business of Installing Security or Fire Alarm System) of the New York State General Business Law.

1. Fire Alarm Work: New York State Fire Alarm License is required for installation.

1.07 MATERIALS WITH TRACE AMOUNTS OF ASBESTOS

A. Perform Work required to remove, disturb, or repair any material that contains less than 1 percent by weight of asbestos (trace) in accordance with all applicable OSHA regulations (29 CFR Part 1926.1101).

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 014339

MOCKUP REQUIREMENTS

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. 087100 - Door Hardware

1.02 SUBMITTALS

A. Quality Control Submittals
   1. Mockup Plan: Copy of proposed plan.

1.03 DEFINITIONS

A. Mockups (General): Full-size physical assemblies that are constructed on-site. Mockups are constructed to verify selections made under sample submittals; to demonstrate aesthetic effects and, where indicated, qualities of materials and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with specified installation tolerances.
   1. Mockups are not Samples.
   2. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.

1.04 QUALITY ASSURANCE

A. Mockup Plan: Detailed, dimensioned plans and elevations showing mockup size, and items and materials that will be included in proposed mockup.

B. Pre-Mockup Conference: Prior to the mockup for the hardware installation, a conference will be called by the Director's Representative at the Site for the purpose of reviewing the requirements, and intent of mockup. The conference shall be attended by the Director's Representative, Contractor, and person supervising this phase of the Work.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION

3.01 INSTALLATION

A. Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish as directed.

1. Notify the Director's Representative a minimum of 2 days in advance of dates and times when hardware mockups will be conducted and able to be inspected.
2. Employ supervisory personnel to oversee hardware mockup installation.
3. Demonstrate the proposed range of aesthetic effects and workmanship.
4. Commence the Work after mockup has been inspected and approved in writing by Director's Representative.
5. The mockup will establish the standard of quality of workmanship by which the Work will be judged.
6. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work. Failure to maintain the mockup, until directed, will be cause for rejection of the Work.
7. Demolish and remove mockups when directed unless otherwise indicated.

B. Mockup Types: Construct mockup in accordance with approved shop drawings, project manual, and Contract Drawings, using exact materials and methods approved for the Project, including required accessories.

END OF SECTION

SECTION 015000

CONSTRUCTION FACILITIES & TEMPORARY CONTROLS

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Security: Section 015633.

1.02 PROJECT CONDITIONS

A. Provide construction facilities and temporary controls necessary for the Work.

1.03 TEMPORARY LIGHT AND POWER

A. Electric energy will be made available without charge, at source or sources directed, for lighting and for power tools. Power supply for motors rated in excess of 1/2 hp will be made available within the limits of the existing circuitry and usage.

B. Provide temporary lighting as required to maintain a minimum of 10-foot candles in the work areas.

C. Provide ground-fault protection for personnel (such as portable plug-in type ground-fault circuit-interrupters) on single phase 15 and 20 ampere receptacle outlets which are in use.

D. Receptacle outlets and portable cord connectors shall have standard NEMA configuration.

E. Provide temporary wiring and equipment in conformance with the National Electrical Code.

1.04 TEMPORARY WATER

A. Water will be made available for the Work without charge at source or sources directed within the limits of the existing supply and usage.

B. Prevent waste of water.

1.05 TEMPORARY TOILETS

A. Restroom will be available on the units under construction for the contractor to use.

B. Existing toilet rooms to be used by the Contractors' and subcontractor's employee will be designated by the Director's Representative.

C. Construction Work Contract: Maintain assigned toilet rooms in a sanitary condition.

D. Thoroughly clean each individual restroom in each unit that it completed at the end of construction within that unit.

1.06 BARRIERS AND ENCLOSURES

A. Provide barriers during performance of the Work to:
1. Prevent unauthorized entry to work areas.
2. Allow for State's occupancy of Site.
3. Protect existing facilities and adjacent properties from damage.
4. Protect vehicular and pedestrian traffic.

B. Temporary Partitions: Provide temporary partitions to form fire resistive barriers between work areas and areas occupied by State personnel. Construct the partitions of 3-5/8-inch width steel framing or 2 x 4 wood framing, with 5/8-inch-thick Type X (ASTM C 36) gypsum board on both sides of partition. Secure the partitions in place without damaging existing construction. Seal joints on the State occupied side with joint tape and compound. Provide 1-3/4-inch-thick solid core flush wood doors or 18 gage flush steel doors, and steel door frames. Equip doors with full mortise hinges and lockset. Furnish the Director's Representative with 2 keys for each lock.

C. Temporary Dust Barriers: Provide temporary dust barriers to prevent the spread of dust from the work areas. Construct the dust barriers of wood framing sheathed with 6 mil polyethylene film. Secure the dust barriers in place without damaging existing construction.

1.07 TEMPORARY FENCE ENCLOSURE

A. Provide temporary fence not less than 8 feet in height above grade.

B. Fabric: #9 gage galvanized steel, or equal gage aluminum, woven together into 2-inch diamond mesh, with both top and bottom edges having a twisted and barbed finish.

C. Posts, Rails, and Connections: Standard galvanized steel products of an approved manufacturer, of the size and types as required and approved. Provide top and bottom rails between all posts secured with bolted connections.

D. Gates: Provide access gates for passage of employees and materials, complete with padlock. Fabricate gates with galvanized steel pipe perimeter covered with same fabric specified for fence. Furnish the Director's Representative with 2 keys per gate.

E. Erection: Set posts 4 feet into the ground and not more than 10 feet apart. Install bottom rail not more than 2 inches above existing grade. Pull fabric taut and wire tightly to posts and rails at not more than 2 feet on center.

1.08 PROTECTION OF WORK AND EXISTING PROPERTY

A. Protect installed Work and existing construction and finishes during performance of the Work.

B. Maintain the building in a watertight condition during performance of the Work.

C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.

D. Provide protective coverings at wall projections, jambs, sills, and soffits of openings.

E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, and movement of heavy objects by covering them with durable sheet materials.

F. Protect smoke detectors from airborne dust and debris.
   1. At the beginning of each workday, provide protective coverings over smoke detectors in areas where airborne dust and debris will be generated by the Work.
   2. At the end of the workday, clean the areas in which the smoke detectors are located by whatever means necessary to assure that airborne dust and debris will not contaminate the smoke detectors, then remove protective coverings.
   3. Provide signs, instructions and alternate methods for reporting a fire during the periods that the smoke detectors are covered.
   4. Notify the Director's Representative and have procedures approved.

G. Prohibit traffic or storage upon waterproofed and roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

H. Protect existing trees and plants during performance of the Work unless otherwise indicated. Box trees and plants within the grading limit lines. Do not deposit excavated materials or store building materials around trees or plants. Do not attach guy wires to trees.

I. Prohibit traffic from landscaped areas.

J. Cleaning tools of cementitious and other insoluble materials:
   1. Do not wash tools in sinks or other sanitary drainage systems. Protect all drainage systems from debris that can clog or damage piping and fixtures.
   2. Take all precautions necessary to prevent cementitious and other insoluble materials from flowing into floor drains.
   3. Dispose of excess cementitious and other insoluble debris with the other rubbish.

1.09 WATER CONTROLS

A. Provide and maintain pumping equipment necessary to keep the work areas free from water. Discharge water into existing storm drainage systems or otherwise disperse as directed.

1.10 FIRE PREVENTION

A. Take precautions necessary to prevent fires.

B. Fuel for cutting and heating torches shall be gas only and shall be contained in Underwriters Laboratory approved containers.

C. Furnish and maintain a currently inspected 20-pound capacity multi-class A B C fire extinguisher in the immediate vicinity where welding tools or torches are in use.

D. Furnish and maintain a currently inspected fire extinguisher of the appropriate class and size whenever the temporary storage of materials changes that areas classification of fire load or life safety.

E. Do not use flammable liquids, other than those specified, within a building without written approval from the Director's Representative.

F. Tarpaulins shall be flameproof and shall be securely anchored when attached to scaffolding or when used to enclose any portion of a building.

G. If required by the nature of the work and facility regulations, the Contractor shall obtain from the facility and pay all costs associated with "Hot Work Permits" including fire watches to execute the work of its contract. Perform hot work in accordance with the Fire Code of New York State and the Hot Work Program approved for the work**.** Prior to, during and after performing hot work, inspect the hot work area for compliance with the requirements of the permitted Hot Work Program.
   1. Post signage "Caution: Hot Work In Progress - Stay Clear" in conspicuous locations warning others before they enter a hot work area where the area is accessible to persons other than the operator of the hot work equipment.
   2. See applicable facility permits and conditions bound in the Appendix.

1.11 TEMPORARY FIRE PROTECTION

A. If the existing building is to be partially occupied during the course of the project, all existing exits, fire walls, fire barriers and fire protection systems shall be continuously maintained in the occupied phases in compliance with the Fire Code of New York State. Comply with NFPA 241 for items not specifically addressed in the Fire Code of New York State.

B. Those portions occupied by the facility must be available for their use 24 hours a day, seven days a week during the contract period unless otherwise scheduled in these documents.

C. Prior to removal of existing fire walls, fire barriers and fire protection systems, if such removal is part of the work, install equivalent temporary fire walls, fire barriers and fire protection systems as defined in these documents and as approved by the Director's Representative and/or the facilities representative.

D. The cost of all labor, fire watches, variances, materials, installations, maintenance and removal of such temporary fire protection systems or modifications to the existing systems are the responsibility of the Contractor. Install permanent fire walls, fire barriers and fire protection systems, if provided as part of the work, as soon as practical.

1.12 ACCESS ROADS

A. Routes of ingress and egress on the premises to the location of the Work shall be as directed.

B. Keep designated access roads clear of dirt and debris resulting from the Work.

C. Provide means of removing mud from vehicle wheels before entering paved roads.

1.13 PARKING

A. Parking areas shall be where designated by the Director's Representative.
   1. Keep designated parking areas clear of dirt and debris resulting from the Work.
   2. If requested, register vehicles which are to be parked at the Facility with the Facility Safety/Security Department.
   3. Remove ignition key from unattended vehicles and lock doors.

1.14 RUBBISH REMOVAL

A. Clean up and containerize the rubbish (refuse, debris, waste materials, and removed materials and equipment) resulting from the Work at the end of each workday and leave work areas broom clean, except where more stringent cleaning is specified. Locate containerized rubbish where directed.

B. Remove rubbish from State property at least once a week and more often if the rubbish presents a hazard. Properly dispose of rubbish.

C. Burning of rubbish will not be permitted.

D. Also comply with the requirements of Section 017419.

1.15 RELOCATION AND REMOVALS

A. Should a change in location of any construction facilities and temporary controls be necessary in order to progress the Work properly, remove and relocate such items as directed.

B. Remove the construction facilities and temporary controls when they are no longer required. Restore permanent facilities used for or connected to temporary facilities to their original condition or better.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 015633

SECURITY

PART 1 GENERAL

1.01 SUMMARY

A. The Work of this Contract is being performed at a fenced residential Facility.

B. Any reference to the "Contractor" shall mean contractors, sub-contractors, and any/all of their employees. Any other persons such as suppliers and equipment manufacturers must comply with the Facility's visitor regulations.

C. Comply with and adhere to the Facility's security regulations.

1.02 SCHEDULING FOR FACILITY SECURITY COVERAGE

A. If at any time a contractor or sub-contractor is performing work within the secure perimeter of a Facility, security coverage must be provided as deemed appropriate by the Facility's Representative from the Office of Children and Family Services (OCFS), Capital Facilities Bureau.
   1. The amount of security coverage may be modified when the construction site meets any of the following criteria:
      a. Area within a control fenced area.
      b. Area inaccessible to youths.
      c. Sites are in close proximity to one another or to an existing post.
   2. In all cases, sufficient security coverage must be provided by the Facility to maintain the project schedule and to ensure the security requirements of these facilities are met.

B. Notify the Director's Representative and Facility's Representative at least 48 hours in advance of each day's activities, regarding the number of crews that will be working and when and where they will be working.
   1. Failure to work the number of crews for the times and areas as scheduled, may make the Contractor liable for the additional costs to the State, for security coverage resulting from changes, unless 48 hours advance notice has been given for any changes that affect security coverage.

1.03 SECURITY REGULATIONS

A. The Work of this contract is being performed at a secure Facility.
   1. Contractors' and Subcontractors' employees at the Facility may be fingerprinted without charge by the Facility I.D. Officer, and may be subject to the approval of the OCFS.
   2. As a result of information gained through fingerprinting, anyone deemed inappropriate to work in a Facility will not be allowed access to the work site.

3. Former inmates of the State correctional system, or any County, City, Federal or another State's correctional system may not be permitted inside a Facility, unless reviewed and approved by the OCFS Capital Bureau Representative, in consultation with the Facility Director.

B. Work Hours: The Contractor will have access to the Work site a full day as allowed by the Department of Labor.
   1. Anticipate additional processing time into and out of the Facility per day.
   2. The actual time when Contractors' employees, including truck drivers, may enter and leave the Facility will be established by the OCFS Capital Facilities Bureau Representative and the Facility.
   3. Employees who are more than 30 minutes late for their scheduled entrance time may be denied entry, with the exception of the Construction Superintendent and/or Project Manager.
   4. Unless pre-approved, employees, other than superintendents and truck drivers as approved, will not be allowed to leave the Facility during the workday and will be required to bring their lunches and eat in the work areas.

1.04 SCREENING PROCESS

A. All contractors shall familiarize themselves with the facility contraband list to include but not limited to: cellphones, cameras, cigarettes, lighters, matches, medications, glass, metal cans, weapons etc.
   1. Secure these items in their respective personal vehicles outside of facility secured perimeter.

B. Alcoholic beverages or illegal drugs of any kind will not be allowed on facility premises.
   1. Only prescription medications necessary for critical medical conditions (i.e. Nitoglycerin pills for heart patients), will be allowed and must be brought to the attention of security personnel upon arrival.
   2. Only a single day supply of prescription medications will be allowed into the facility.
   3. Persons under the influence of illegal drugs or alcohol will not be allowed into the Facility and may be permanently removed from the construction project.

C. Firearms, ammunition, or other weapons (including mace or pepper spray), will not be allowed on Facility premises at any time.

D. Contact, communication, or exchange of any article with youths or facility staff is strictly prohibited.
   1. Any attempts by youths to contact or communicate with contractors must be reported immediately to the Director's Representative and Facility's Representative.

E. All contractors will sign in before starting work and sign out before exiting the facility.

1. Photo Identification is required at the time of admittance and a relinquishing of the vehicle keys is required (unless vehicle is authorized to go inside the gate).

F. All contractors are subject to screenings as conducted at the facility and on facility grounds.
   1. These include but are not limited to the use of walk through metal detectors and hand wand detectors.
   2. Contractors arriving on grounds at the specific jobsite in a vehicle shall be subject to a hand-held scanner by the facility escort person.
   3. This is to ensure that no undeclared metal objects or other contraband items are on your person.

G. Use clear plastic bags to bring meals into the Facility.
   1. No coolers shall be permitted in facility, or within secured grounds/perimeter.
   2. No glass, metal or aluminum is permitted at the Facility.
   3. All items are subject to search by facility personnel.

H. When contractors are in the facility or within the secure perimeter/grounds of the facility they will be accompanied by facility personnel.

I. Electronic Devices:
   1. Phones: The possession of cell phones within facility buildings and within facility fenced area is strictly prohibited.
      a. Secure cell phones in locked contractor vehicles outside of the fence line when working on grounds.
      b. Access to a land line phone will be made available to a designated contractor or foreman when inside the facility.
      c. Contractors will be responsible for the cost of all calls at a pre-determined price per minute.
      d. The use of cell phones outside the perimeter fence is permitted.
   2. Radios: Radios require approval for use on facility premises by the Facility Director for a specific task.
      a. If approved, radios must be strictly accounted for and removed from the facility on a daily basis and cannot interfere in any way with any of OCFS Facility radio systems.
   3. Laptop Computers: Laptop computers (with or without modems) when necessary for the installation, maintenance, or repair of equipment will be permitted by prior written approval by the Facility Director via a Gate Pass.
      a. All computers must be removed daily from the work site.
   4. Cameras: Should the work required photographs for a specific purpose the facility shall provide a camera and upload the images to designated receiver.

1.05 DAILY OPERATIONS

A. In the event of an emergency or incident that interferes with the safety, security and good order of the facility operations, the facility reserves the right to stop work for a period of time.

1. During this period, contractors shall remain in designated areas and shall follow directions of the facility personnel on duty.

B. Tools and Tool Classifications:
   1. Tool Check In: Before the start of work, an inventory of tools and materials shall be forwarded to Facility's Representative for review.
      a. As part of the security check and screening process all tools, materials, and vehicles entering a secured area are subject to search.
      b. Contractors working inside the Facility area shall maintain inventory logs of all tools and other equipment on a daily basis.
      c. These inventory logs shall be available for immediate inspection upon request by facility personnel.
      d. A daily copy of the inventory shall be verified.
      e. Contractors must notify the Director's Representative and Facility's Representative immediately if a tool is discovered missing. Facility escorts or other facility designee shall verify inventory.
   2. Contractor shall check tools in and out of the facility and assume responsibilities for checked tools-.
      a. All authorized tools when not in immediate use shall be stored in an approved locked toolbox, or other secured areas where directed by the designated facility representative.
      b. All extremely hazardous tools present a higher risk to a correctional setting. These tools are as follows:
         1) Bolt-cutters.
         2) Locksmith tools.
         3) Powder-activated tools (e.g., ram-set, Hilti, etc.).
         4) Pneumatic nailers.
         5) Rescue saws (K-12 type, gasoline or electric).
         6) Torches (all cutting--mixing gauges & torch heads).
         7) Metal cutting blades and/or disc.
         8) HEPA Masks, N-95 Masks, M-17 Protective Masks, self-contained breathing apparatus, respirators, and filters. All disposable respirator masks must be accounted for, inventoried, and disposed of properly.
         9) Blueprints are regarded as tools and should be handled accordingly. All blueprints are to be secured, accounted for, and turned over to the Facility at the conclusion of the project.
   3. In the event that tools and equipment shall be retained on site, tools shall be collected and secured in an area whenever possible the door cores shall be changed, and the contractors shall retain the keys to the specific storage area.
      a. If residents occupy the area the tools and equipment shall be removed daily at the conclusion of the workday.

C. Control of Vehicles and Heavy Equipment:
   1. Authorized vehicles which are left unattended on Facility grounds shall be securely locked. Vehicle locks shall be kept in operating order at all times.

2. No vehicle will be allowed access to any area without proper authorization.
3. Vehicles and equipment shall not be left idling or in operation without immediate attendance.
4. All vehicles in the secure perimeter will be searched by facility personnel upon entering or leaving the facility.
5. Vehicles as necessary for the specific job (i.e. cement trucks, dump trucks, water trucks, heavy equipment, company vans and box trucks filled with tools and equipment) shall be permitted as needed.
6. Personal vehicles are not permitted on grounds. An allowance however may be granted for the transport of contractor employees to the job site.
7. Secure Staging Area: The facility will provide a staging area for the Contractor to store materials, job trailer, tools, and heavy equipment.
    a. If otherwise unavailable, the Contractor shall furnish and install a 6 ft. chain link fence and all necessary ground treatment.
    b. At the end of the project the Contractor shall remove the fence and restore the area back to its original condition.

1.06 SECURITY REQUIREMENTS FOR SCAFFOLDING, HOISTS, LADDERS, EQUIPMENT, MATERIALS, AND DEBRIS

A. All ladders and scaffolding shall be secured by chain and locked to a stationary object when not in use or in a secure area.
    1. A ladder inventory, by size, shall be maintained by the person in charge of the work areas.
    2. A copy of the inventory shall be sent to the Facility's Representative.

B. Storage of building materials and equipment on Facility premises will be permitted in areas designated by the Facility's Representative.

C. Work areas are to be cleaned daily of debris and materials that would jeopardize the safety and security of the Facility as determined by the Facility's Representative.

D. Facility personnel will inspect the area the contractors were working in to ensure no items have been left behind. These items include, but are not limited to equipment, supplies and debris.
    1. Inventory verification shall be conducted at the immediate work site and again if deemed necessary for security purposes upon exit from main entry.

E. Work actions that would constitute a breach of the Facility's security must be addressed to the satisfaction of the Facility's Representative prior to the end of the workday.

F. Right To Know: The Director's Representative and Facility's Representative will advise Contractors of hazardous chemicals/materials, if any, that may be encountered in the normal course of their work at the Facility.
    1. Likewise, the Contractor will advise the Facility Representative of hazardous chemicals/materials that will be brought into the facility for use on the job.

2. During initial job meetings, the Director's Representative will review hazardous chemicals/ materials that the Contractor may use, to ensure that the products are properly accounted for, and secured when not in use.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 016500

MATERIALS AND EQUIPMENT

PART 1 GENERAL

1.01 RELATED REQUIREMENTS SPECIFIED ELSEWHERE

A. Specific requirements pertaining to materials and equipment specified elsewhere are additional to the provisions of this Section.

1.02 PRODUCT LABELS

A. When materials or equipment are specified to conform to ASTM, Federal or other reference specifications, the materials delivered to the site shall bear the manufacturer's printed labels stating that the materials meet the requirements of such referenced specifications.

1.03 TRANSPORTATION AND HANDLING

A. Deliver factory packaged materials and equipment in the manufacturer's original containers.

B. Transport and handle materials and equipment in such a manner as to prevent their damage.

C. Arrange for delivery of materials and equipment during the hours of the day established by the Director's Representative.

D. Have workers available to receive and unload materials and equipment delivered to the site. Do not deliver, or have delivered, any materials and equipment to the site unless such forces are available.

E. Facility personnel are not authorized to sign for receipt of Contractor's material or equipment.

1.04 STORAGE AND PROTECTION

A. Neatly pile, store, protect, and secure materials and equipment in locations where directed.

B. Protect materials and equipment subject to damage by temperature or other weather conditions.

C. Do not store volatile liquids in a State building.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 017329

REMOVALS, CUTTING, AND PATCHING

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Rubbish Removal: Section 015000.

B. Construction Waste Management: Section 017419.

1.02 DEFINITIONS

A. Remove: Detach items from existing construction and dispose of them off-site unless indicated to remain the Property of the State.

B. Cutting: Removal of in-place construction necessary to permit installation or performance of subsequent work.

C. Patching: Fitting and repair work required to restore construction to original conditions after installation of subsequent work

1.03 PROJECT CONDITIONS

A. Existing Conditions: Do not disturb existing structures, construction, materials or equipment unless required by the Contract.
   1. Do not cut, drill or remove structural members such as joists, beams or columns supporting construction that is to remain unless expressly required by the Contract Documents.

B. Existing Paint: Assume existing painted surfaces to contain lead based paints. Take precautions as required to prevent spread of lead containing particles and dust.

C. Items to Remain the Property of the State: The following items shall remain the property of the State and shall be stored at the site where directed:
   1. Construction Work Contract:
      a. Radiator covers as indicated on the drawings by Keyed Note R2
      b. Metal Doors and Hardware as indicated on the Drawings by Keyed Note R5
      c. Ceiling mounted devices associated with ceiling system removals shall be coordinated with Director's Representative.

1.04 QUALITY ASSURANCE

A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
   1. Structural Elements: When cutting and patching structural elements, or when encountering the need for cutting and patching of elements whose

structural function is not known, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.

2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operational elements include the following:
   a. Primary operational systems and equipment.
   b. Fire separation assemblies.
   c. Air or smoke barriers.
   d. Fire-suppression systems.
   e. Plumbing piping systems.
   f. Mechanical systems piping and ducts.
   g. Control systems.
   h. Communication systems.
   i. Fire-detection and -alarm systems.
   j. Conveying systems.
   k. Electrical wiring systems.
   l. Operating systems of special construction.
3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety. Other construction elements include but are not limited to the following:
   a. Water, moisture, or vapor barriers.
   b. Membranes and flashings.
   c. Exterior curtain-wall construction.
   d. Sprayed fire-resistive material.
   e. Equipment supports.
   f. Piping, ductwork, vessels, and equipment.
   g. Noise- and vibration-control elements and systems.
4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory.

PART 2 PRODUCTS

2.01 MATERIALS

A. Match the appearance and performance of existing corresponding materials as closely as practicable, unless otherwise indicated.
   1. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible, unless otherwise indicated.

2. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Director's Representative for the visual and functional performance of in-place materials.

B. Use materials that are not considered hazardous.

C. Comply with requirements specified in other sections.

PART 3 EXECUTION

3.01 EXAMINATION

A. Prior to cutting, drilling or removal, investigate both sides of the surface involved. Determine the exact location of structural members.

B. If unforeseen obstructions are encountered, take precautions necessary to prevent damage and obtain instructions from the Director's Representative before proceeding with the Work.

3.02 PREPARATION

A. Provide temporary shoring and other supports necessary to prevent settlement or other damage to existing construction which is to remain.

B. Prepare existing surfaces properly to receive and, where required, bond with the Work.

C. Adjacent Occupied Areas: Where interference with use of adjoining areas or interruption of free passage to adjoining areas is unavoidable, coordinate cutting and patching in accordance with requirements in Section 011000 "Summary.

3.03 REMOVALS, CUTTING, AND ALTERING

A. Proceed with cutting and patching at the earliest feasible time, and complete without delay.

B. In addition to the items indicated to be removed on the Drawings, remove existing construction superseded by the Work except items such as pipes, conduits, recessed boxes, and ducts which are built into existing construction that is to remain. Cut off and conceal such items at face of remaining construction. Provide cover plates on recessed boxes.

C. Remove and alter existing construction as required to install and connect the Work to adjacent construction in an approved manner.

D. Cut and alter existing materials as required to perform the Work. Limit cutting to the smallest amount necessary. Core drill round holes and saw cut other openings where possible.

1. Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
    a. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
    b. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
    c. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill.
    d. Excavating and Backfilling: Comply with requirements in applicable Sections where required by cutting and patching operations.
    e. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.

E. Perform cutting, drilling, and removals in a manner which will prevent damage to construction which is to remain.
    1. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching.

F. Perform removal of items to remain the property of the State with such care as necessary to prevent damage to these items.

G. Proceed with patching after construction operations requiring cutting are complete.

H. Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to prevent interruption to occupied areas.

I. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.

3.04 PATCHING

A. Patch existing construction and finishes defaced, damaged, or left incomplete due to alterations and removals. Patching, except as otherwise indicated, shall be limited to the areas which have been cut or altered. Finish patched surfaces to match existing adjacent surfaces as closely as practicable.

B. Perform patching around items penetrating existing construction in a manner that will maintain the water and fire resistive capability of the existing construction.

C. Existing Spray Fire-Resistive Materials (SFRM)

1. Verification of Conditions: Examine the substrate and conditions under which fireproofing is to be applied. Do not proceed with the fireproofing Work until unsatisfactory conditions have been corrected.
   a. Verify that hangers, clips, sleeves, and other items that will penetrate the fireproofing are in place.
   b. Check paint on substrate for compatibility with primer/fireproofing and adequacy of bond strength in accordance with fireproofing manufacturer's instructions.
   c. For fireproofing on underside of steel decks, verify that concrete Work on the decks is completed.
   d. For fireproofing on underside of roof deck assembly, verify that deck roofing Work is completed.
2. Protection & Preparation of Surfaces
   a. Protect surfaces that are not to receive fireproofing with suitable covers.
   b. Cover openings in the work areas with suitable temporary closures.
   c. Remove dirt, dust, oil, grease, loose paint and rust, mill scale, and other foreign matter that may impair the bonding of the fireproofing to the substrate. Clean substrate free of contamination from chemicals and solvents.
   d. Apply primer/adhesive where necessary to obtain bond strength of fireproofing to steel shop paint and where recommended by the fireproofing manufacturer. Follow manufacturer's instructions.
   e. Install reinforcement and other metal items where recommended by the fireproofing manufacturer, and when required by the fire rated design of the existing installation. Install reinforcement and accessories in accordance with fireproofing manufacturer's instructions, unless otherwise indicated.
3. Application
   a. Apply the fireproofing in to match UL fire test report for the existing installation and the manufacturer's application instructions.
   b. Application Method: Apply the fireproofing material by spraying, except use trowel application where spraying is impractical.
   c. Thickness and density of fireproofing shall be in accordance with the approved product data and as required to produce the hourly fire resistance rating of the existing SFRM installation.
   d. Apply the fireproofing in a monolithic covering of uniform density and texture, free of seams, staging breaks, holes, voids, and other defects that might impair the fire resistance. Install the fireproofing to the full required thickness over entire area of each surface to be covered.
      1) Stop-off application operation at natural stopping points, such as inside corners, wherever possible.
      2) Edge of fireproofing adjoining other materials shall be sharp and clean, without overlapping.

4. Field Quality Control
    a. Special Inspections and Testing Agency: The State will engage a qualified special inspections and testing agency to perform special inspections, tests, and prepare reports. The special inspections and testing agency will interpret the tests and indicate in each report whether the tested work complies with or deviates from project requirements. The special inspections and testing agency will perform tests in accordance with the New York State Uniform Fire Prevention and Building Code (BCNYS).
5. Adjusting: Correct fireproofing in damaged areas, and areas with less than the required thickness or standard of quality.
6. Cleaning: After completion of the fireproofing in each containable area of the project, remove protective covers and temporary closures, and clean surfaces that have been soiled performing the Work.

D. Paint patched areas to match existing adjacent surfaces as closely as practicable using same type of paint. Painting, except as otherwise indicated, shall be limited to the areas which have been patched, except as indicated below:
1. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate coat over entire unbroken surface containing the patch, corner to corner of wall and edge to edge of ceiling. Provide additional coats until patch blends with adjacent paint coats appropriate for substrate over the patch and apply final paint surfaces.

E. Where surfaces exposed by removals are to remain as exposed surfaces, paint such areas to match existing adjacent surfaces as closely as practicable using same type of paint.

F. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.

G. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

3.05 REINSTALLATION

A. Where reinstallation of removed items is indicated, reinstall them to a condition equal to or better than their condition before removal.

END OF SECTION

SECTION 017419

CONSTRUCTION WASTE MANAGEMENT

PART 1 GENERAL

1.01 SUMMARY

A. This Section includes requirements for Construction Waste Management (CWM), with criteria for recycling and/or salvaging demolition and construction waste generated during the project. A Construction Waste Management (CWM) Plan shall be developed for approval by the Director's Representative. The Plan shall be implemented throughout the duration of the project and shall be documented in accordance with the SUBMITTALS Article below.

B. Each contract shall supply the means for proper disposal, recycling, and/or salvaging job site waste. Locations for removal bins or dumpsters shall be coordinated with Directors Representative.

1.02 PERFORMANCE REQUIREMENTS

A. Each Contract shall prepare and submit a Construction Waste Management (CWM) Plan to the Director's Representative for approval. The CWM Plan shall outline the provisions to be implemented to properly dispose of, recycle, and/or salvage demolition and construction waste generated during the project.
   1. The CWM Plan should be developed with a goal of diverting 75% of waste away from landfill.

B. Upon approval of the CWM Plan by the Director's Representative, it shall be implemented throughout the duration of the project and documented in accordance with the SUBMITTALS Article below.

C. Unless otherwise indicated, demolition and construction waste become the property of the Contractor.

D. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their content, commemorative plaques and tablets, and other items of interest or value that may be uncovered during demolition remain the property of the State. Coordinate with Director's Representative.
   1. Carefully salvage in a manner to prevent damage and promptly return to the Director's Representative.

E. The CWM Plan shall include, but not be limited to, the following components:
   1. Identify a single point of contact to act as the Construction Waste Manager. Provide the individuals name, email, and phone number.
   2. Listing of Materials: Develop a list of the waste materials and expected quantity from the Project. Categorize what will be targeted for reuse, salvage, composting, recycling, or disposal at landfill. At minimum, the following materials shall be accounted for:
      a. Acoustical tiles & panels

b. Asphalt roofing shingles.
c. Insulation
d. Temporary construction materials
e. Universal Waste

3. Sorting Method: Provide a description of the proposed means of sorting and transporting the recyclable materials (whether materials will be site-separated and self-hauled to designated centers, or whether mixed materials will be collected by a waste hauler and removed from the site for off-site sorting).
   a. If off-site sorting is utilized, the facility shall provide a sorting method description to be included in the CWM Plan.
4. Compost Facility: Provide the name and address of the composting facility where compostable material will be accepted and current NYSDEC permit.
5. Composting: Provide a description of the proposed means of ensuring compostable material remains uncontaminated during construction and transportation.
6. Packaging Waste: Provide an estimate of packaging materials generated and note whether suppliers will eliminate or take back packaging. Packaging material may include, but is not limited to:
   a. Paper
   b. Cardboard
   c. Boxes
   d. Plastic sheet and film
   e. Polystyrene packaging
   f. Wood crates
   g. Wood pallets
   h. Plastic pails
7. Landfill Information: Provide the name and address of the landfill(s) where trash will be disposed of and current operating permit.
8. Recycling facilities: Provide the name and address of the recycling facilities(s) where materials will be sent for recycling, current operating permit, and description of how it will be recycled.
9. Universal Waste Facility: Provide the name and address of the facility where universal waste will be disposed of and current NYSDEC permit.
10. Refrigerant Recovery Technician Qualifications: The technician shall be Universal certified by EPA approved certification program.
    a. Type I - For servicing small appliances
    b. Type II - For servicing or disposing of high- or very high-pressure appliances, except small appliances and MVACs
    c. Type III - For servicing or disposing of low-pressure appliances
    d. Universal - For servicing all types of equipment
11. Waste Transporter: Provide name and address of proposed waste transporters and appliable NYSDEC registration and/or permits.
12. Re-Used materials/Equipment: Materials or equipment to be removed from the site or turned over to the State which are classified as recycled materials and shall be documented. Documentation shall include the materials turned over, weight or quantity of materials/equipment and a letter on company letterhead indicating the intended use of items.

13. Additional Information: Include any additional information deemed relevant to describe the scope and intent of the CWM Plan to the Director's Representative.
14. Subcontractor Requirements: CWM and recycling requirements shall be incorporated into all Subcontractor's contracts.

1.03 SUBMITTALS

A. Submittal Requirements:
1. A copy of the Construction Waste Management (CWM) Plan, as defined in the PERFORMANCE REQUIREMENTS Article above.
2. Contractors shall submit monthly CWM Reports. This submission shall include explanation of actual waste management compared to the CWM Plan, waste receipts and a completed CWM Reporting Form (sample included at the end of this Section identified as Exhibit "A").
3. Calculations and supporting documentation to demonstrate disposal, recycling, and/or salvage rates meeting the requirements of the CWM Plan. The process for recording and assembling documentation shall be as follows:
   a. Record and document the quantity of all demolition and construction waste materials sent to the landfill. The final reporting form shall specify:
      1) The type of waste disposed of.
      2) The total quantity of the waste disposed of.
      3) Provide the name and permit of the landfill that accepted the materials. Receipts or other proof of facility reception of materials is required.
   b. Record and document the total quantity of all demolition and construction waste materials reused on-site, reused off-site, recycled, or otherwise salvaged. The final reporting form shall specify:
      1) The type of reused, recycled, or salvaged material.
      2) The quantity of the reused, recycled, or salvaged material.
      3) Provide the name and permit of the receiving facilities/companies that purchased or accepted the reused, recycled, or salvaged materials. Receipts or other proof of facility reception of materials is required.
      4) For materials separated for recycling off-site, establish a method for tracking the quantity of the recycled material. The method shall be included in the CWM Plan for the Director's Representative review and approval.
   c. Record and document the total quantity of materials composted. The final reporting form shall specify:
      1) The type of material composted.
      2) The quantity of the material composted.
      3) Provide the name and permit of the receiving facilities/companies that purchased or accepted the material to be composted. Receipts or other proof of facility reception of materials is required.

d. For materials turned over to others (not the State) for reuse (sale or donation), provide documentation on company letterhead indicating the material(s), the quantity (either by weight or units), the date, contact information, indicate whether the organization is tax exempt, and the intended reuse of the product.

e. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered.

B. Contract Closeout Submittals:

1. Contractors shall submit a Final Waste Management Report. This submission shall compile all monthly data for the duration of the project. The final report shall include an explanation of actual waste managed, lessons learned, and a final CWM Reporting Form. Resubmission of waste receipt is not necessary.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION

3.01 IMPLEMENTATION

A. The Contractor shall be responsible for the provision of containers and the removal of all waste, non-returned surplus materials, and rubbish from the site in accordance with the CWM Plan. The Contractor shall oversee and document the results of the Plan. Each trade shall be responsible for collecting, sorting, and depositing in designated areas, their waste, non-returned surplus materials, and rubbish, as per the CWM Plan.

1. The Prime Contractor shall be responsible for ensuring their subcontractors abide by the CWM Plan.

B. Instruction: The Contractor shall provide on-site instruction of appropriate separation, handling and recycling, salvage, reuse and return methods to be used by all parties in appropriate stages of the Project.

C. Separation Facilities: The Contractor shall provide signage for specific area(s) to facilitate separation of materials for potential recycling, salvage, composting, reuse, and return. Signage shall be multi-lingual as appropriate. Each potential material shall be collected and stored to avoid being mixed with other materials. Recycling and waste bin areas are to be kept neat and clean, and clearly marked.

3.02 MEETINGS

A. Conduct CWM meetings. Meetings shall include Subcontractors affected by the CWM Plan. At a minimum, waste management goals and issues shall be discussed at the following meetings:

1. Pre-bid meeting.
2. Pre-construction meeting.
3. Regular job-site meetings.

4. Close out meeting.

B. Any non-compliant practices in the field will be addressed at regular job-site meetings.

3.03 MONTHLY CONSTRUCTION WASTE MANAGEMENT REPORTING

A. Monthly CWM Reporting Forms, as required in the SUBMITTALS Article above, shall be submitted to the Director's Representative for review throughout the duration of the project.

END OF SECTION

SECTION 017716

CONTRACT CLOSEOUT

PART 1 GENERAL

1.01 RELATED REQUIREMENTS SPECIFIED ELSEWHERE

A. Other provisions pertaining to this Section are included in Article 9 of the General Conditions.

1.02 CONTRACT CLOSEOUT INSPECTIONS

A. The following 3 inspections will be made in addition to the normal inspections to ensure that all Contract requirements are met and that the Work is complete and acceptable. The purpose of each of these inspections is to furnish the Contractor a written list of Contract exceptions, omissions, and incompletions so that the Work can be progressed to timely completion in accordance with the Contract Documents.

1. Detailed Inspection: The "Detailed Inspection" will be made when the Work is substantially complete. A copy of the detailed inspection list will be furnished to the Contractor. When this inspection progresses over any length of time, copies of the list will be furnished as the inspection progresses so that the Contractor may proceed with the required Work without delay.
2. Final Inspection: The Contractor will be advised by letter of the date and time of final inspection. A copy of the final inspection list containing all incomplete or unsatisfactory items and the time allowed to complete the Work will be furnished to the Contractor.
3. Joint Inspection for Physical Completion: The joint inspection for physical completion may be made to verify completion of the exception items listed on the final inspection list so that the physical completion date (defined in the General Conditions) may be established.

1.03 FINAL CLEANING

A. Perform final cleaning prior to joint inspection for physical completion. Leave the premises in a neat, unobstructed condition, the work areas broom clean (except where more thorough cleaning is specified), and everything in perfect repair and adjustment.

B. Clean site; sweep paved areas, rake clean landscaped surfaces.

C. Remove tools, equipment, waste and surplus materials, rubbish, and construction facilities from the premises as soon as possible upon completion of the Work.

1.04 PROJECT RECORD DOCUMENTS

A. Maintain on site, 2 sets of the following record documents; record actual revisions to the Work:
   1. Contract Drawings.
   2. Project Manual.
   3. Addenda.
   4. Change Orders and other modifications to the Contract.
   5. Reviewed shop drawings, product data, and samples.

B. Store record documents separate from documents used for construction.

C. Record information concurrent with construction progress.

D. Record Documents and Shop Drawings: Legibly mark each item to record actual construction including:
   1. Measured depths of foundations in relation to finish (first) (main) floor datum.
   2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
   3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
   4. Field changes of dimension and detail.
   5. Details not on original Contract Drawings.

E. Upon completion of the work, create electronic versions of the project record documents. Black and white documents are to be scanned into TIFF format using CCIT Group 4 compression. Documents with color, which include black line documents with color notations, are to be scanned into TIFF format using a minimum of 8 colors and "packbit" compression.
   1. The scanned images are to be put on a compact disc (CD) using ISO 9660 format. Name the electronic files with the same name as the drawing. Create a folder on the CD for each trade and one for Shop Drawings.
   2. Label the CD with the project number, name, and title as it appears on the project manual cover. If there is more than one CD include notation to that effect on the label; i.e., 1 of 3, 2 of 3, 3 of 3. The project record documents and CD(s) are to be turned over to the Director's Representative.

F. Applications for progress payments will not be approved if the record documents are not kept current. Application for final payment will not be approved until the project record documents are delivered to the Director's Representative.

1.05 OPERATION AND MAINTENANCE DATA

A. Prepare 2 sets comprised of 8-1/2 x 11 inch text pages bound in capacity expansion binders with durable plastic covers identified with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS", title of project, and subject matter of binder when multiple binders are required. Prepare a printed

Table of Contents for each volume, with each product or system description identified. Internally subdivide the binder contents with permanent page dividers, logically organized as described below, with tab titles clearly printed under reinforced laminated plastic tabs:

Part 1: Directory, listing names, addresses, and telephone numbers of Architect/Engineer, Contractor, subcontractors, and major equipment suppliers.

Part 2: Operation and maintenance instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of subcontractors and suppliers. Identify the following:

1. Significant design criteria.
2. List of equipment.
3. Parts list for each component.
4. Operating instructions.
5. Maintenance instructions for equipment and systems.
6. Maintenance instructions for finishes, including recommended cleaning methods and materials and special precautions identifying detrimental agents.

Part 3: Project documents and certificates, including the following:

1. Shop drawings and product data.
2. Air and water balance reports.
3. Certificates.
4. Photocopies of warranties.

B. Submit one copy of completed volumes in final form 15 days prior to final inspection. This copy will be returned after final inspection, with the Director's comments. Revise content of documents as required prior to final submittal.

C. Submit 2 volumes prior to final Application for Payment.

1.06 WARRANTIES

A. Furnish warranty certification and copies of warranties that extend beyond the one year period required by the General Conditions. Warranties submitted without warranty certification will not be accepted.

1. Warranty Certification: Written certification from the warrantor that invoices for installation, service, supplies, and warranty fees have been paid in full to persons or firms due payment, and that the warranty is in effect and non-retractable due to any of the specified conditions.

B. Prepare printed Table of Contents and assemble warranty certifications and warranty copies in a binder with a durable plastic cover.

C. Deliver the binder to the Director's Representative prior to final Application for Payment.

D. For items of Work delayed beyond date of Substantial Completion, provide updated submittal within 10 days after acceptance, indicating date of acceptance as start of warranty period.

E. Applications for final payment will not be approved until the warranty certification and warranty documents are delivered to the Director's Representative.

1.07 SPARE PARTS AND MAINTENANCE MATERIALS

A. Label and deliver spare parts, maintenance items, and extra materials to the Site. Place in locations as directed.
   1. Include "NOT FOR WARRANTY REPAIRS" on the labels.
   2. Obtain receipt prior to final payment.

B. Do not use the spare parts and maintenance materials required by the Contract Documents to remedy defects during the one-year period described in Paragraph 9.8 of the General Conditions except when approved otherwise by authorized Facility Representative. In such cases, replace items used.

C. Furnish the names, business addresses, and telephone numbers of fully equipped authorized service organizations to the Director's Representative.

D. Applications for final payment will not be approved until these items are delivered to the Director's Representative.

PART 2 PRODUCTS (Not Used)

PART 3 EXECUTION (Not Used)

END OF SECTION

SECTION 019113

GENERAL COMMISSIONING REQUIREMENTS

1.01 SUMMARY

A. This Section specifies the Contractor's responsibilities in the commissioning process. Commissioning requires the participation of the Contractor to ensure that all systems are operating in a manner consistent with the Contract Documents.

B. The commissioning process integrates the traditionally separate functions of system documentation, equipment startup, performance testing and training. Commissioning during the construction phase is intended to achieve the following specific objectives in accordance with the Contract Documents:
   1. Verify and document that applicable equipment and systems are installed according to the manufacturer's recommendations, contract requirements, and industry standards and that they receive adequate operational checkout by installing contractors.
   2. Verify and document proper performance of equipment and systems.
   3. Verify and document that O&M documentation is complete.
   4. Verify and document that the Facility operating personnel are properly trained.

C. The systems and equipment to be commissioned are listed in this Section. The Contractor's general commissioning requirements and coordination are detailed in this Section. Specific requirements for commissioning of each system or piece of equipment are detailed in the specification Section for the individual systems or pieces of equipment. A detailed description of the overall commissioning process is included in the appendix.

D. The commissioning process does not reduce the responsibility of the Contractor to provide finished and fully functional systems and equipment.

1.02 SYSTEMS TO BE COMMISSIONED

A. The following systems will be commissioned in this project. Specific requirements for the commissioning of each system are included in the related specification Section.
   1. HVAC Work Contract:
      a. Air Handling Units
      b. Boiler and Packaged Controls
      c. Air-Cooled Chiller
      d. Temperature Control System
      e. Exhaust Systems
      f. Unit Heaters
      g. HVAC Piping
      h. Pumps
      i. Ductwork Distribution System
      j. Variable Air Volume Boxes
      k. Variable Speed Drives
      l. Testing and Balancing
   2. Plumbing Work Contract:
      a. Domestic Hot Water System (fed from heating boilers)

3. Electrical Work Contract:
    a. Lighting Fixtures
    b. Lighting Controls and Occupancy Sensors

1.03 DEFINITIONS

A. Acceptance Phase: Phase of construction after startup and initial checkout when functional performance tests, O&M documentation review and training occurs.

B. Approval: Acceptance that a piece of equipment or system has been properly installed and is functioning in the tested modes in accordance with the Contract Documents.

C. Commissioning authority (CA): An independent agent responsible for the direction and coordination of the commissioning activities. The CA responsible to the Director's Representative.

D. Commissioning Plan: An overall plan that provides the structure, schedule and coordination planning for the commissioning process.

E. Commissioning Team: The members of the commissioning team consist of the Commissioning Authority, the Director's Representative, the Contractor, the architect and design engineers. The owner and the building or plant operator/engineer also may be members of the commissioning team.

F. Deferred Functional Tests: Functional tests that are performed after substantial completion, due to partial occupancy, seasonal requirements, design or other site conditions that prevent the test from being performed prior to substantial completion.

G. Deficiency: A condition in the installation or function of a component, piece of equipment or system that is not in compliance with the Contract Documents.

H. Factory Testing: Testing of equipment on-site or at the factory by factory personnel.

I. Functional Performance Test (FT): Test of the dynamic function and operation of equipment and systems using manual (direct observation) or monitoring methods. Functional testing is the dynamic testing of systems (rather than just components) under full operation. Systems are tested under various modes, such as during low cooling or heating loads, high loads, component failures, unoccupied, varying outside air temperatures, fire alarm, power failure, etc. The CA develops the functional test procedures in sequential written form. The CA coordinates, oversees and documents the actual testing. The Contractor performs the functional tests. FTs are performed after prefunctional checklists and startup are complete.

J. Phased Commissioning: Commissioning that is completed in phases (by floors, for example) due to the size of the structure or other scheduling issues, in order to minimize the total construction time. Commissioning shall be provided for each phase according to the schedule for that phase. Some repetition and/or remobilization may be required.

K. Prefunctional Checklist (PC): A list of items to inspect and component tests to conduct to verify proper installation of equipment prior to initiating functional testing.

L. Startup: The initial starting or activating of dynamic equipment, including executing prefunctional checklists.

1.04 COORDINATION

A. The CA is hired by, and works for, the Director. The CA directs and coordinates the commissioning activities. All members of the commissioning team shall work together to fulfill their contractual responsibilities and meet the objectives of the Contract Documents.

B. The CA will work with the Contractor according to established protocols to schedule the commissioning activities. The Contractor shall integrate all commissioning activities into the approved progress schedule. All parties will address scheduling problems and make necessary notifications and changes in a timely manner in order to expedite the commissioning process and maintain the approved progress schedule.

1.05 COMMISSIONING PROCESS

A. Commissioning Plan. The commissioning plan provides guidance in the execution of the commissioning process. Following the initial commissioning scoping meeting the CA will update the plan which is then considered the "final" plan, although it may be revised as the project progresses.

B. Commissioning Process. The following narrative provides a brief overview of the typical commissioning tasks during construction and the general order in which they occur. A more detailed description of the commissioning process can be found in the Appendix.

1. Commissioning during construction begins with a scoping meeting conducted by the CA where the commissioning process is reviewed with the Commissioning Team.
2. Additional meetings will be required throughout construction, scheduled by the Director's Representative, to plan, scope, coordinate, and schedule future activities and to resolve problems. When possible, commissioning meetings will be scheduled immediately following construction meetings.
3. Equipment documentation is submitted to the CA during the submittal process, including detailed start-up procedures.
4. The CA works with the Contractor to develop startup activity lists and startup documentation. The CA provides prefunctional checklists to be completed by the Contractor during the startup process.
5. In general, the checkout and performance verification proceeds from simple to complex; from component level to equipment to systems and intersystem levels. In each case prefunctional checklists are completed, submitted, and approved before functional testing begins.
6. The Contractor executes and documents the prefunctional checklists, and provides notification to the Director's Representative and the CA. The Contractor performs startup and initial checkout. The CA documents that the checklists and startup were completed according to the approved plans.
7. The CA develops specific equipment and system functional performance test procedures. The Contractor reviews the procedures and submits suggestions or comments. Procedures are finalized by the CA.
8. The procedures are executed by the Contractor, under the direction of the CA.
9. Items of non-compliance in material, workmanship, or setup are corrected and retested at the Contractor's expense. The Contractor is responsible for providing all resources, manpower, and materials necessary to rectify deficiencies as per requirements of the approved schedule.

10. The O&M documentation prepared by the Contractor is reviewed for completeness by the CA.
11. Commissioning is completed before Substantial Completion.
12. The CA reviews, pre-approves and coordinates the training provided by the Contractor and verifies that is was completed.
13. Deferred testing is conducted, as specified or required.

1.06 CONTRACTOR'S RESPONSIBILITIES

A. The Contractor's commissioning responsibilities are as follows (all references apply to commissioned systems and equipment only):
   1. Construction and Acceptance Phase:
      a. Attend the commissioning scoping meeting and other necessary meetings scheduled by the Director's Representative to facilitate the commissioning process.
      b. Facilitate the coordination of the commissioning work by the CA, and with the CA ensure that commissioning activities are being scheduled into the approved progress schedule.
      c. Provide detailed manufacturer installation and start-up, operating, troubleshooting and maintenance procedures, factory test reports, and full warranty information, including all responsibilities of the Director to keep the warranty in force. The installation, start-up and checkout materials that are actually shipped with the equipment and the actual field checkout sheet forms to be used by the factory or field technicians shall be submitted to the CA. The CA may request further documentation necessary for the commissioning process.
      d. In each purchase order or subcontract written, include requirements for submittal data, O&M data, commissioning tasks and training.
      e. Ensure that all subcontractors execute their commissioning responsibilities according to the Contract Documents and approved progress schedule.
      f. Assist in the process of writing detailed test procedures by clarifying the operation and control of commissioned equipment.
      g. Review test procedures to ensure feasibility, safety and equipment protection and provide necessary written alarm limits to be used during the tests.
      h. Develop a full start-up and testing plan using manufacturer's start-up procedures and the prefunctional checklists from the CA for all commissioned equipment. Submit to the CA for review and approval prior to startup.
      i. During the startup and initial checkout process, execute all portions of the prefunctional checklists for all commissioned systems and equipment. Verify that system installations include all ports, gages, thermometers, access doors, valves, etc., required for specified functional performance testing.
      j. Provide all special tools and instruments (only available from vendor, specific to a piece of equipment) required for testing equipment.
      k. Perform and clearly document all completed startup and system operational checkout procedures, providing a copy to the CA.
      l. Address incomplete Work before functional performance testing.
      m. Provide skilled technicians to execute startup of equipment and to execute the functional performance tests. Ensure that they are available

and present during the agreed upon schedules and for sufficient duration to complete the necessary tests, adjustments and problem-solving.

n. Provide skilled technicians to perform functional performance testing under the direction of the CA for specified equipment. Provide Manufacturer's Representative as required and as specified in the Specification. Assist the CA in interpreting the monitoring data, as necessary.

o. Correct deficiencies (differences between specified and observed performance) as directed by the Director's Representative.

p. Prepare O&M manuals according to the Contract Documents, including clarifying and updating the original sequences of operation to as-built conditions. Provide a copy of the O&M manuals and submittals of commissioned equipment to the CA for review and approval.

q. Provide training as specified.

r. Coordinate with equipment manufacturers to determine specific requirements to maintain the validity of the warranty.

2. Warranty Period:

a. Execute seasonal or deferred functional performance testing in accordance with the specifications

b. Correct deficiencies and make necessary adjustments to O&M manuals and as-built drawings for applicable issues identified in any seasonal testing.

PART 2 - PRODUCTS

2.01 TEST EQUIPMENT

A. All standard testing equipment required to perform startup and initial checkout and required functional performance testing shall be provided by the Contractor.

B. Specified special equipment, tools and instruments (only available from vendor, specific to a piece of equipment) required for testing equipment shall be provided by the Contractor, and turned over to the facility at the completion of the Work.

C. Datalogging equipment and software required to test equipment will be provided by the Contractor, but shall not become the property of the Director's Representative.

D. All testing equipment shall be of sufficient quality and accuracy to test and/or measure system performance with the tolerances specified in the Specifications. All equipment shall be calibrated according to the manufacturer's recommended intervals. Calibration tags shall be affixed or certificates readily available.

PART 3 - EXECUTION

3.01 MEETINGS

A. Scoping Meeting. Prior to the commencement of construction, the CA will schedule, plan and conduct a commissioning scoping meeting with the Commissioning Team.

B. Miscellaneous Meetings. Other meetings will be planned and conducted by the CA as construction progresses. These meetings will cover coordination, deficiency resolution and planning issues with the Contractor, appropriate sub-contractors and suppliers, the Owner's Representative, and the Director's Representative.

3.02 START-UP, PREFUNCTIONAL CHECKLISTS, AND INITIAL CHECKOUT

A. Prefunctional checklists and initial checkout shall ensure that the equipment and systems are hooked up and operational. Each piece of equipment receives full prefunctional checkout. No sampling strategies are used. The prefunctional testing for a given system must be successfully completed prior to formal functional performance testing of systems or equipment.

B. Start-up and Initial Checkout Plan. The CA shall assist the commissioning team members responsible for startup of any equipment in developing detailed start-up plans for all equipment. The primary role of the CA in this process is to ensure that there is written documentation that each of the manufacturer's recommended procedures have been completed.

C. Execution of Prefunctional Checklists and Startup.
1. Four weeks prior to startup, the Contractor shall schedule startup and checkout with the Director's Representative.
2. The Contractor shall execute startup and provide the CA with a signed and dated copy of the completed start-up and prefunctional tests and checklists.

3.03 FUNCTIONAL PERFORMANCE TESTING

A. Development of Test Procedures. Using the requirements in the specifications, the CA shall develop specific test procedures and forms to verify and document proper operation of each piece of equipment and system. The Contractor shall provide assistance to the CA in developing the procedures. Prior to testing, the CA shall provide a copy of the test procedures to the Contractor who shall review the tests for feasibility, safety, equipment and warranty protection.

B. Functional performance testing shall document that each system is operating in accordance with the Contract Documents. During the testing process, areas of deficient performance shall be identified. Deficiencies shall be corrected by the Contractor and functional testing shall be re-scheduled. The Contractor shall be responsible for all costs associated with re-testing for functional performance.

C. Each system shall be operated through all modes of operation. Proper responses to such modes and conditions as power failure, freeze condition, low oil pressure, no flow, equipment failure, etc. shall also be tested.

D. Test Methods. Each function and test shall be performed under conditions that simulate actual conditions as closely as possible. The Contractor shall execute the test and shall provide all necessary materials, system modifications, etc. to produce the necessary flows, pressures, temperatures, etc. necessary to execute the test according to the specified conditions. At the completion of the test, the Contractor shall return all building equipment and systems affected by these temporary modifications to their pre-test condition.

3.04 OPERATION AND MAINTENANCE MANUALS

A. Standard O&M Manuals. The specific content and format requirements for the standard O&M manuals are detailed in Section 017716.

B. The Contractor shall compile and prepare commissioning documentation for all equipment and systems and include this information in the O&M manuals.

3.05 TRAINING

A. The Contractor shall be responsible for coordinating, scheduling, and documenting that all required training has been completed successfully.

B. The Contractor shall have the following training responsibilities:
   1. Provide a training plan two weeks before the planned training.
   2. Provide comprehensive orientation and training in the understanding of the systems and the operation and maintenance of each piece of equipment.
   3. Training shall normally start with classroom sessions followed by hands-on training on each piece of equipment.
   4. The training sessions shall follow the outline in the Table of Contents of the operation and maintenance manual and illustrate whenever possible the use of the O&M manuals for reference.
   5. Training shall include:
      a. Use of the printed installation, operation and maintenance instruction material included in the O&M manuals.
      b. A review of the written O&M instructions emphasizing safe and proper operating requirements, preventative maintenance, special tools needed and spare parts inventory suggestions. The training shall include start-up, operation in all modes possible, shut-down, and any emergency procedures.
      c. Discussion of relevant health and safety issues and concerns.
      d. Discussion of warranties and guarantees.
      e. Common troubleshooting problems and solutions.
      f. Explanatory information included in the O&M manuals and the location of all plans and manuals in the facility.
      g. Discussion of any peculiarities of equipment installation or operation.

3.06 DEFERRED TESTING

A. Unforeseen Deferred Tests. If any check or test cannot be completed due to project conditions, required occupancy condition or other deficiency, execution of checklists and functional testing may be delayed upon approval of the Director's Representative. These tests will be conducted in the same manner as the seasonal tests as soon as possible.

B. Seasonal Testing. Seasonal testing (tests delayed until weather conditions are closer to the system's design conditions) shall be completed as part of this contract. Make any final adjustments to the O&M manuals and as-builts resulting from information gained during testing.

END OF SECTION

SECTION 024119

SELECTIVE REMOVALS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Removals of selected portions of building or structure.

B. Related Requirements:
   1. Section 011000 "Summary of the Work" for restrictions on use of the premises, partial occupancy requirements, and phasing requirements.
   2. Section 017329 “Removals, Cutting and Patching” for cutting and patching procedures

1.02 DEFINITIONS

A. Remove: Detach items from existing construction and dispose of them off-site unless indicated to be salvaged or reinstalled.

B. Remove and Salvage: Detach items from existing construction, in a manner to prevent damage, store and deliver to Director’s Representative ready for reuse.

C. Remove and Reinstall: Detach items from existing construction, in a manner to prevent damage, prepare for reuse, and reinstall where indicated.

D. Existing to Remain: Leave existing items that are not to be removed and that are not otherwise indicated to be salvaged or reinstalled.

E. Dismantle: To remove by disassembling or detaching an item from a surface, using gentle methods and equipment to prevent damage to the item and surfaces; disposing of items unless indicated to be salvaged or reinstalled.

1.03 MATERIALS OWNERSHIP

A. Unless otherwise indicated, removals waste becomes property of Contractor.

B. Historic items, relics, antiques, and similar objects including, but not limited to, cornerstones and their contents, commemorative plaques and tablets, and other items of interest or value to the Director’s Representative that may be uncovered during removals remain the property of the facility.
   1. Carefully salvage in a manner to prevent damage and promptly return to Director’s Representative.

1.04 PRE-REMOVALS MEETINGS

A. Pre-removals Conference: Conduct conference at Project site.
   1. Inspect and discuss condition of construction to be selectively removed.
   2. Review structural load limitations of existing structure.
   3. Review and finalize selective removals schedule and verify availability of materials, removals personnel, equipment, and facilities needed to make progress and avoid delays.
   4. Review requirements of work performed by other trades that rely on substrates exposed by selective removals operations.
   5. Review areas where existing construction is to remain and requires protection.

1.05 INFORMATIONAL SUBMITTALS

A. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, for dust control and, for noise control. Indicate proposed locations and construction of barriers.

B. Schedule of Selective Removals Activities: Indicate the following:
   1. Detailed sequence of selective removals work, with starting and ending dates for each activity. Ensure on-site operations are uninterrupted.
   2. Interruption of utility services. Indicate how long utility services will be interrupted.
   3. Coordination for shutoff, capping, and continuation of utility services.
   4. Use of elevator and stairs.
   5. Coordination of continuing occupancy of portions of existing building and partial occupancy of completed Work.

C. Pre-removals Photographs or Video: Show existing conditions of adjoining construction, including finish surfaces, that might be misconstrued as damage caused by salvage and removals operations. Comply with Section 013233 "Photographic Documentation." Submit before Work begins.

1.06 CLOSEOUT SUBMITTALS

A. Inventory: Submit a list with photographs of each item that has been removed and salvaged.

1.07 FIELD CONDITIONS

A. Existing Conditions: Do not disturb existing structures, construction, materials or equipment unless required by the Contract.
   1. Do not cut, drill or remove structural members such as joists, beams or columns supporting construction that is to remain unless expressly required by the Contract Documents.

B. Portions of the building immediately adjacent to selective removals area will remain occupied. Conduct selective removals such that facility operations will not be disrupted.

C. Conditions existing at time of inspection for bidding purpose will be maintained as far as practical.
   1. Before selective removals, the Director's Representative will be responsible for the removal of the following items:
      a. Wall mounted furnishings.
         1) Removal of remaining wall- and ceiling-mounted furnishings, fixtures, equipment, and devices affected by the work shall be the Contractor's responsibility.

D. Notify Director's Representative of discrepancies between existing conditions and Drawings before proceeding with selective removals.

E. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work.
   1. If suspected hazardous materials are encountered, do not disturb; immediately notify Director's Representative. Hazardous materials will be removed by a separate contract.
   2. Hazardous Materials will be removed by a Separate Contract.

F. Storage or sale of removed items or materials on-site is not permitted.

G. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective removals operations.
   1. Maintain fire-protection facilities in service during selective removals operations.

1.08 WARRANTY

A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during selective removals, by methods and with materials and using approved contractors so as not to void existing warranties. Notify Director's Representative prior to commencement of selective removals work that may affect existing warranties,

B. Notify Director's Representative on completion of selective removals, and obtain documentation verifying that existing system has been inspected and warranty remains in effect. Submit documentation at Project closeout.

1.09 COORDINATION

A. Arrange selective removals schedule so as not to interfere with ongoing operations of adjacent occupied spaces.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective removals. Comply with hauling and disposal regulations of authorities having jurisdiction.

B. Standards: Comply with ANSI/ASSP A10.6 and NFPA 241.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective removals operations.

B. Review Project Record Documents of existing construction or other existing condition and hazardous material information provided by Director's Representative. Director's Representative does not guarantee that existing conditions are same as those indicated in Project Record Documents.

C. Engage a professional engineer to perform an engineering survey of condition of building to determine whether removing any element might result in structural deficiency or unplanned collapse of any portion of structure or adjacent structures during selective building removals operations.
   1. Perform surveys as the Work progresses to detect hazards resulting from selective removals activities.

D. Verify that hazardous materials have been remediated before proceeding with building removals operations.

E. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs or video and templates.
   1. Before selective removals of existing building elements that will be reproduced or duplicated in final Work, make permanent record of measurements, materials, and construction details required to make exact reproduction.

3.02 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.

B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off utility services and mechanical/electrical systems serving areas to be selectively removed.
   1. Contractor to coordinate shut off of building services with the Director's Representative.

2. Contractor to arrange shut off of utilities with utility companies.
3. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective removals and that maintain continuity of services/systems to other parts of building.
4. Disconnect and remove fire-suppression systems, plumbing, and HVAC systems, equipment, and components indicated on Drawings to be removed.
    a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
    b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material and leave in place.
    c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
    d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
    e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Director's Representative.
    f. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
    g. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material and leave in place.

3.03 PROTECTION

A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
1. Provide protection to ensure safe passage of people around selective removals area and to and from occupied portions of building.
2. Provide temporary weather protection, during interval between selective removals of existing construction on exterior surfaces and new construction, to prevent water leakage and damage to structure and interior areas.
3. Protect walls, ceilings, floors, and other existing finish work that are to remain or that are exposed during selective removals operations.
4. Cover and protect furniture, furnishings, and equipment that have not been removed.
5. Comply with requirements for temporary enclosures, dust control, heating, and cooling specified in Section 015000 "Temporary Facilities and Controls."

B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being removed.
1. Strengthen or add new supports when required during progress of selective removals.

C. Remove temporary barricades and protections where hazards no longer exist.

3.04 SELECTIVE REMOVALS, GENERAL

A. General: Remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
   1. Proceed with selective removals systematically, from higher to lower level. Complete selective removals operations above each floor or tier before disturbing supporting members on the next lower level.
   2. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping. Temporarily cover openings to remain.
   3. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
   4. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
   5. Maintain fire watch during and for at least two (2) hours after flame-cutting operations.
   6. Maintain adequate ventilation when using cutting torches.
   7. Remove decayed, vermin-infested, or otherwise dangerous or unsuitable materials and promptly dispose of off-site.
   8. Remove structural framing members and lower to ground by method suitable to avoid free fall and to prevent ground impact or dust generation.
   9. Locate selective removals equipment and removals debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
   10. Dispose of removed items and materials promptly. Comply with requirements in Section 017419 "Construction Waste Management and Disposal."

B. Site Access and Temporary Controls: Conduct selective removals and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective removals. When permitted by Architect, items may be removed to a suitable, protected storage location during selective removals **and cleaned** and reinstalled in their original locations after selective removals operations are complete.

3.05 SELECTIVE REMOVALS PROCEDURES FOR SPECIFIC MATERIALS

A. Concrete: Remove in small sections. Using power-driven saw, cut concrete to a depth of at least 3/4 inch (19 mm) at junctures with construction to remain. Dislodge concrete from reinforcement at perimeter of areas being removed, cut reinforcement, and then remove remainder of concrete. Neatly trim openings to dimensions indicated.

B. Masonry: Remove in small sections. Cut masonry at junctures with construction to remain, using power-driven saw, and then remove masonry between saw cuts.

C. Concrete Slabs-on-Grade: Saw-cut perimeter of area to be removed, and then break up and remove.

D. Resilient Floor Coverings: Remove floor coverings and adhesive according to recommendations in RFCI's "Recommended Work Practices for the Removal of Resilient Floor Coverings."
   1. Do not use methods requiring solvent-based adhesive strippers.

E. Roofing: Remove no more existing roofing than what can be covered in one day by new roofing and so that building interior remains watertight and weathertight.
   1. Remove existing roof membrane, flashings, copings, and roof accessories.
   2. Remove existing roofing system down to substrate.

3.06 DISPOSAL OF REMOVED MATERIALS

A. Remove removals waste materials from Project site and dispose of them in an EPA-approved construction and removals waste landfill acceptable to authorities having jurisdiction.
   1. Do not allow removed materials to accumulate on-site.
   2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
   3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.
   4. Comply with requirements specified in Section 017419 "Construction Waste Management and Disposal."

B. Burning: Do not burn removed materials.

3.07 CLEANING

A. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective removals operations. Return adjacent areas to condition existing before selective removals operations began.

END OF SECTION

SECTION 033001

CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1.01 REFERENCES

A. Except as shown or specified otherwise, the Work of this Section shall conform to the requirements of Specifications for Structural Concrete for Buildings ACI 301-16 of the American Concrete Institute.

1.02 DEFINITIONS (Amendments to ACI 301, Section 1.2):

A. Exposed Construction: Exposed to view.

1.03 SUBMITTALS

A. Submittals Package: Submit product data for design mix(es) and materials for concrete specified below at the same time as a package.

B. Submit an Environmental Product Declaration (EPD) from the manufacturer for concrete within this specification section, if applicable. A statement of the contractor's good faith effort to obtain the EPD shall be provided if not available.
   1. Manufacturer – provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 Environmental labels and declarations, ISO 14044 Environmental management – Life cycle assessment, and ISO 21930 Core rules for environmental product declarations of construction products and services.

C. Shop Drawings: Placing drawings for bar reinforcement.

D. Product Data:
   1. Concrete design mix(es) with name and location of batching plant.
   2. Portland Cement: Brand and manufacturer's name.
   3. Fly Ash: Name and location of source, and DOT test numbers.
   4. Air-entraining Admixture: Brand and manufacturer's name.
   5. Water-reducing Admixture: Brand and manufacturer's name.
   6. Aggregates: Name and location of source, and DOT test numbers.
   7. Bonding Agent (Adhesive): Brand and manufacturer's name, and preparation and application instructions.
   8. Expansion Joint Filler: Brand and manufacturer's name.
   9. Emery Aggregate: Brand and manufacturer's name, and application instructions.

E. Samples:
   1. Bar Supports: Full size.

F. Quality Control Submittals:
   1. Certificates: Affidavit required under Quality Assurance Article.

1.04 QUALITY ASSURANCE

A. Concrete batching plant shall be currently approved as a concrete supplier by the New York State Department of Transportation.

B. Fly ash supplier shall be currently approved as a fly ash supplier by the New York State Department of Transportation.

C. Certifications: Affidavit by the bar reinforcement manufacturer certifying that bar material meets the contract requirements.
   1. Submit evidence consisting of certification of source of material, copies of purchase orders and manufacturer's certifications. For stock material, submit copies of latest mill or purchase orders for material replacement.
      a. Documentation to confirm compliance with General Conditions Article 25.4 Domestic Steel.
   2. Fabricator's and Erector's Qualifications Data: Name and experience of fabricator and erector.

D. The Contractor agrees, that if the value of this contract exceeds $100,000 all structural steel, reinforcing steel and other major steel items to be incorporated in the Work of this Contract shall be produced and made in whole or substantial part in the United States, its territories or possessions.

E. Source Quality Control: The Director reserves the right to inspect and approve the following items, at his own discretion, either with his own forces or with a designated inspection agency:
   1. Batching and mixing facilities and equipment.
   2. Sources of materials.

1.05 STORAGE

A. Store materials so as to insure the preservation of their quality and fitness for the Work. Materials, even though accepted prior to storage, are subject to inspection and shall meet the requirements of the Contract before their use in the Work.

PART 2 PRODUCTS

2.01 MATERIALS (Amendments to ACI 301, Section 4, for Normal Weight Concrete):

A. Water-reducing Admixture: ASTM C 494, Type A, and on the New York State Department of Transportation’s current “Approved List”.

B. Fly Ash (Pozzolans): ASTM C 618, including Table 1A (except for footnote A), Class F except that loss on ignition shall not exceed 4.0 percent.

C. Chemical Curing and Anti-Spalling Compound: ASTM C-309, Type 1D, Class B, with a minimum 18 percent total solids content. No thinning of material allowed.

1. SureCure Emulsion, Kaufman Products, Inc. 3811 Curtis Avenue, Baltimore, MD 21226, (800) 637-6372.
2. Cure & Seal 25 percent (J-22UV) by Dayton Superior Corp., 1125 Byers Rd., Miamisburg, OH 45342, (800) 745-3700.
3. MasterKure CC 200 WB by Master Builders/ BASF Building Systems, 23700 Chagrin Blvd., Cleveland, OH 44122, (800) 628-9990.

D. Type 1 Expansion Joint Filler: Preformed, resilient, non-extruding cork units; ASTM D 1752, Type II.

E. Epoxy Bonding Agent (Adhesive): 100 percent solids epoxy-resin-base bonding compound, complying with ASTM C 881, Types I, II, IV and V, Grade 2 (horizontal areas) or Grade 3 (overhead/vertical areas), and Class B (40-60 degrees Fahrenheit) or Class C (60 degree Fahrenheit and above).
1. SurePoxy HM Series by Kaufman Products, Inc., 3811 Curtis Avenue, Baltimore, MD 21226, (800) 637-6372.
2. Sikadur Hi-Mod 32 by Sika Corporation, 201 Polito Avenue, Lyndhurst, NJ 07071, (800) 933-7452.
3. MasterEmaco ADH 327 RS by by Master Builders/ BASF Building Systems, 23700 Chagrin Blvd., Cleveland, OH 44122, (800) 628-9990.

F. Emery Aggregate: Natural emery, crushed, polyhedral in shape, with not more than 10 percent flat or elongated pieces, properly screened, graded and packaged in the manufacturer's plant, and delivered to the site in sealed, labeled packages. Approved products include:
1. Emerundum by Anti Hydro International, Inc., 265 Badger Ave., Newark, NJ 07108, (800) 777-1773.
2. Non-Slip Aggregate by Setcon Industries, Inc., 5 Mathews Ave., Riverdale, NJ 07457-1020, (201) 283-0500.
3. MasterTop 120SR by Master Builders/ BASF Building Systems, 23700 Chagrin Blvd., Cleveland, OH 44122, (800) 628-9990.

2.02 PROPORTIONING (Amendments to ACI 301, Sections 4 & 7):

A. Compressive Strength: As indicated on drawings.

B. Weight: Normal

C. Durability: Where indicated on drawings, concrete shall be air-entrained. Design air content shall be according to ACI 318-14 Table 19.3.2.1 "Requirements for concrete by exposure class", and ACI 318-14 Table 19.3.3.1 "Total air content for concrete exposed to cycles of freezing and thawing", with an allowable tolerance of plus or minus 1.5 percent for total air content. Entrained air shall be provided by use of an approved air-entraining admixture. Air-entrained cement shall not be used.

D. Slump: Maximum 4 inches; minimum 1 inch before the addition of any water-reducing admixtures or high-range water-reducing admixtures (superplasticizers) at the Site.

E. Admixtures: Do not use admixtures in concrete unless specified or approved in writing by the Director.

F. Selection of Proportions: Concrete proportions shall be established on the basis of previous field experience or laboratory trial batches, unless otherwise approved in writing by the Director.

1. Optional Material: Fly ash may be substituted for (Portland) cement in normal weight concrete up to a maximum of 15 percent by weight of the required minimum (Portland) cement. If fly ash is incorporated in a concrete design mix, make necessary adjustments to the design mix to compensate for the use of fly ash as a partial replacement for (Portland) cement.

a. Adjustments shall include the required increase in air-entraining admixture to provide the specified air content.

b. Lower early strength of the concrete shall be considered in deciding when to remove formwork.

2.03 REINFORCEMENT (Amendments to ACI 301, Section 3):

A. Bar Reinforcement: ASTM A 615, Grade 60, deformed steel bars.

B. Bar Supports: Galvanized steel or AISI Type 430 stainless steel, and without plastic tips.

C. Tie Wire: Black annealed wire, 16-1/2 gage or heavier.

2.04 JOINTS AND EMBEDDED ITEMS (Amendments to ACI 301, Section 5.3.2.6):

A. Obtain bond at construction joints by the use of bonding agent (adhesive) in accordance w/section 5.2.1.7 or the use of cement grout.

2.05 PRODUCTION (Amendments to ACI 301, Section 5):

A. Provide ready-mixed concrete, either central-mixed or truck-mixed.

PART 3 EXECUTION

3.01 EXAMINATION AND PREPARATION

A. Do not use items of aluminum for mixing, chuting, conveying, forming or finishing concrete, except magnesium alloy tools may be used for finishing.

B. Keep excavations free of water. Do not deposit concrete in water.

C. Hardened concrete, reinforcement, forms, and earth which will be in contact with fresh concrete shall be free from frost at the time of concrete placement.

D. Prior to placement of concrete, remove all hardened concrete spillage and foreign materials from the space to be occupied by the concrete.

3.02 FORMWORK (Amendments to ACI 301, Section 2):

A. The formwork shall be designed for loads, lateral pressure, and allowable stresses outlined in Chapter 4 - Design of "Guide to Formwork for Concrete" (ACI 347-14).

B. All formwork shall be removed after the concrete has sufficiently hardened, except in inaccessible spaces where approved.

C. After the ends or end fasteners of form ties have been removed, the embedded portion of the ties shall terminate not less than 3/4 inch from the formed surfaces of concrete.

3.03 PLACING REINFORCEMENT (Amendments to ACI 301, Section 3):

A. At the time concrete is placed, reinforcement shall be free of mud, oil, loose rust, loose mill scale, and other materials or coatings that may adversely affect or reduce the bond.

3.04 PLACING CONCRETE (Amendments to ACI 301, Section 5):

A. Operation of truck mixers and agitators and discharge limitations shall conform to the requirements of ASTM C 94.

B. Do not allow concrete to free fall more than 4 feet.

3.05 FINISHING SLABS (Amendments to ACI 301, Section 5.3.4):

A. Slabs On Grade: Provide key type joints unless otherwise shown. Tool exposed joints.

B. Finish Schedule: Except where indicated otherwise on the Drawings, provide the finishes below:
   1. Floated Finish for:
      a. Treads and platforms of exterior steps and stairs.
   2. Troweled Finish for:
      a. Interior slabs that are to be exposed to view.
      b. Slabs and fill over which resilient wood flooring, resilient tile or sheet flooring, carpet, or thin-film coating system is required.
      c. Slabs and fill over which thin-set ceramic tile is required, except fine-broom finished surface.
   3. Broom or Belt Finish for:
      a. Exterior slabs. Texture, as approved by the Director's Representative.
   4. Scratched Finish for:
      a. Surfaces to be covered with ceramic tile set in a bonded thick mortar bed, except screed to a Class B tolerance.
      b. Surfaces to be covered with floor topping.
   5. Integral Emery Aggregate Surfacing with Floated Finish for:
      a. Interior pedestrian ramps.

C. Finishing, General: Provide monolithic finishes on concrete floors and slabs without the addition of mortar or other filler material. Finish surfaces in true planes, true to line, with particular care taken during screeding to maintain an excess of concrete in front of the screed so as to prevent low spots. Screed and darby concrete to true planes while plastic and before free water rises to the surface. Do not perform finishing operations during the time free water (bleeding) is on the surface.

D. Integral Emery Aggregate Surfacing: Provide a nonslip "dry shake" finish with emery aggregate. Apply emery aggregate in accordance with the manufacturer's printed application instructions for a moderate duty nonslip surface, unless otherwise indicated.

3.06 CURING AND PROTECTION (Amendments to ACI 301, Section 5.3.6):

A. Maintain concrete surfaces in a moist condition for at least 7 days after placing, except where otherwise indicated. Do not use curing compound.
   1. For surfaces of exterior slabs (on grade), apply chemical curing and anti-spalling compound in accordance with the recommendations of the manufacturer.

3.07 FIELD QUALITY CONTROL (Amendments to ACI 301, Section 1):

A. Make available to the Director's Representatives whatever test samples are required to make tests. Furnish shipping boxes for compression test cylinders.

END OF SECTION

SECTION 035400

CEMENTITIOUS SELF-LEVELING TOPPING

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Division 09 Section “Resilient Tile Flooring”

B. Division 09 Section “Resinous Flooring.”

C. Division 09 Section “Sheet Carpeting.”

1.02 REFERENCES

A. This system consists of a primer and a mix of special cements and binders which, when mixed with water, becomes a highly liquid cement compound that seeks its own level and produces a flat, smooth surface. Surface shall be true to plane within 1/8” maximum deviation under a 10’ straight edge in accordance with ACI 302 1R-96, Flatness Tolerance.

1.03 SUBMITTALS

A. Product Data: Manufacturer’s catalog sheets, specifications, and installation instructions for each item specified, including but not limited to:
   1. Cementitious self-leveling topping
   2. Reinforcement
   3. Primer
   4. Surface sealer
   5. Cleaning Agent

B. Shop Drawings: Include plans indicating substrates, locations, and average depths of underlayment based on survey of substrate conditions.

C. Submit an Environmental Product Declaration (EPD) from the manufacturer for concrete within this specification section, if available. A statement of the contractor’s good faith effort to obtain the EPD shall be provided if not available.
   1. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 *Environmental labels and declarations*, ISO 14044 *Environmental management – Life cycle assessment*, and ISO 21930 *Core rules for environmental product declarations of construction products and services.*

D. Quality Control Submittals:
   1. Test Sample: Provide field applied 5’ x 5’ x contract thickness sample of topping.

1.04 QUALITY ASSURANCE

A. Material Container Labels: Material containers shall bear the manufacturer's label indicating manufacturer's name, trade name of product, lot number, self life of product, and mix ratio (if applicable).

1.05 DELIVERY AND STORAGE

A. Deliver materials to the site in original, sealed containers. Do not deliver materials which have exceeded shelf life limitation set forth by the manufacturer.

B. Comply with manufacturer's printed instructions for storing materials.

1.06 PROJECT CONDITIONS

A. Environmental Requirements: Comply with the product manufacturer's printed limitations and instructions.
   1. Unless otherwise indicated by the Manufacturer, place hydraulic cement underlayments only when ambient temperature and temperature of substrates are between 50 and 80 deg F (10 and 27 deg C).

PART 2 PRODUCTS

2.01 MATERIALS

A. The following brand names are specified to establish product generic type and standard of quality. Other comparable products in the manufacturer's same product series may be required to closely fit the particular job conditions. Use appropriate product for depth of patch and temperature at time of application. More than one product may be required for a particular type of patching mortar. When choice of color is available, select color to match adjoining concrete. A bonding agent/primer and/or sealer shall be used as recommended by the patching mortar manufacturer.

B. Cementitious Self-Leveling Topping: Cement Base, Self-Leveling, Ardex K15 Self-Leveling Underlayment by Ardex, or Level-1 by CMP Specialty Products.
   1. Compressive Strength at 28 Days: ASTM C 109, minimum 4,000 psi. Cement: One of the following complying with the indicated requirements:
   2. Flexural Strength at 28 Days: ASTM C 348, minimum 900 psi.
   3. Aggregate: Underlayment mortar manufacturer's recommended sizes, for thicknesses involved, if required.

C. Provide all Miscellaneous and Accessory Products as recommended by the patching mortar manufacturer, including but not limited to:
   1. Primer: Product of underlayment manufacturer recommended in writing for substrate, conditions, and application indicated
   2. Reinforcement as per patching mortar manufacturer for surface preparation.

3. Surface Sealer: Designed to reduce porosity as recommended by manufacturer for type of floor covering to be applied to underlayment.
4. Cleaning Agent

D. Water: Clean and free of deleterious amounts of acids, alkalis, and organic materials.

PART 3 EXECUTION

3.01 PREPARATION

A. Examine substrates, with Installer present, for conditions affecting performance of the Work.
1. Proceed with application only after unsatisfactory conditions have been corrected. Commencement of installation shall signify acceptance of existing and field conditions.
2. Protection: Cover or otherwise protect adjacent surfaces not being repaired. Protect mortar after placement in accordance with the product manufacturer's printed instructions

B. Surface Preparation:
1. Prepare surface in accordance with the product manufacturers printed instructions.
2. Remove paint, oils, grease, dirt, salt deposits, laitance and other contaminants from surfaces to be patched. Use cleaning agent where required.
3. Clean areas to be filled with air or water under pressure, except as otherwise recommended by the mortar manufacturer.

C. Coat contact surfaces of existing materials with a bonding agent/primer if recommended in the product manufacturer's instructions.

D. Treat nonmoving substrate cracks according to manufacturer's written instructions to prevent cracks from telegraphing (reflecting) through underlayment.

E. Fill substrate voids to prevent underlayment from leaking.

F. Concrete Substrates: Mechanically remove, according to manufacturer's written instructions, laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants that might impair underlayment bond.
1. Moisture Testing: Perform tests so that each test area does not exceed 200 sq. ft. (18.6 sq. m) and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
a. Anhydrous Calcium Chloride Test, ASTM F1869: Proceed with installation only after substrates do not exceed manufacturer's maximum moisture-vapor-emission rate in 24 hours.

b. Relative Humidity Test: Using in situ probes, ASTM F2170. Proceed with installation only after substrates meet manufacturer's maximum relative humidity level measurement.

G. Adhesion Tests: After substrate preparation, test substrate for adhesion with underlayment according to manufacturer's written instructions.

3.02 INSTALLATION

A. Mixing Underlayment Mortar: Comply with mortar manufacturer's printed instructions. Proportion components and sizes of aggregate as recommended by mortar manufacturer for the particular job conditions. Do not over water underlayment mortar.

B. Close areas to traffic during underlayment installation and for time period after installation recommended in writing by manufacturer.

C. Coordinate installation of components to provide optimum adhesion to substrate and between coats.

D. At substrate expansion, isolation, and other moving joints, allow joint of same width to continue through underlayment.

E. Apply primer over prepared substrate at manufacturer's recommended spreading rate.

F. Apply the underlayment mortar in accordance with the product manufacturer's printed instructions.
1. Install underlayment to produce uniform, level surface.
2. Feather edges to match adjacent floor elevations.

G. Cure underlayment according to manufacturer's written instructions. Prevent contamination during installation and curing processes.

H. Do not install floor coverings over underlayment until after time period recommended in writing by underlayment manufacturer.

I. Apply surface sealer at rate recommended by manufacturer.

J. Remove and replace underlayment areas that evidence lack of bond with substrate, including areas that emit a "hollow" sound when tapped.

K. Tolerances: Finish and measure surface, so gap at any point between underlayment surface and an unleveled, freestanding, 10-foot- (3.05-m-) long straightedge resting on two high spots and placed anywhere on the surface does not exceed 1/8 inch (3 mm) and 1/16 inch (1.6 mm) in 2 feet (610 mm).

3.03 CLEANING

A. Clean up spatters and droppings.

B. Protect underlayment from concentrated and rolling loads for remainder of construction period.

END OF SECTION

SECTION 042000

UNIT MASONRY

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes:
   1. Concrete masonry units.
   2. Mortar and grout.
   3. Steel reinforcing bars.
   4. Masonry-joint reinforcement.
   5. Ties and anchors.
   6. Miscellaneous masonry accessories.

B. Products Installed but not Furnished under This Section:
   1. Steel lintels in unit masonry.

1.03 DEFINITIONS

A. CMU(s): Concrete masonry unit(s).

B. Reinforced Masonry: Masonry containing reinforcing steel in grouted cells.

1.04 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at project site.

1.05 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For the following:
   1. Masonry Units: Show sizes, profiles, coursing, and locations of special shapes.
   2. Reinforcing Steel: Indicate bending, lap lengths, and placement of unit masonry reinforcing bars. Comply with ACI 315R. Indicate elevations of reinforced walls.

C. Samples for Verification: For each type and color of the following:
   1. Accessories embedded in masonry.

1.06 INFORMATIONAL SUBMITTALS

A. Qualification Data: For testing agency.

B. Material Certificates: For each type and size of the following:
   1. Masonry units.
      a. Submit certified test reports for each size showing that units for delivery to the Project meet the requirements of these Specifications.
   2. Cementitious materials. Include name of manufacturer, brand name, and type.
   3. Mortar admixtures.
   4. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
   5. Grout mixes. Include description of type and proportions of ingredients.
   6. Joint reinforcement.
   7. Reinforcing bars.
   8. Anchors, ties, and metal accessories.

C. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.
   1. Include test reports for mortar mixes required to comply with property specification. Test according to ASTM C 109/C 109M for compressive strength, ASTM C 1506 for water retention, and ASTM C 91/C 91M for air content.
   2. Include test reports, according to ASTM C 1019, for grout mixes required to comply with compressive strength requirement.

D. Statement of Compressive Strength of Masonry: For each combination of masonry unit type and mortar type, provide statement of average net-area compressive strength of masonry units, mortar type, and resulting net-area compressive strength of masonry determined according to TMS 602/ACI 530.1/ASCE 6.

1.07 QUALITY ASSURANCE

A. Testing Agency Qualifications: Qualified according to ASTM C 1093 for testing indicated.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.

B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.

C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.

D. Deliver preblended, dry mortar mix in moisture-resistant containers. Store preblended, dry mortar mix in delivery containers on elevated platforms in a dry location or in covered weatherproof dispensing silos.

E. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

1.09 FIELD CONDITIONS

A. Protection of Masonry: During construction, protect masonry work from damage.

B. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry to be left exposed or painted. Immediately remove grout, mortar, and soil that come in contact with such masonry.
   1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.
   2. Protect sills, ledges, and projections from mortar droppings.
   3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Source Limitations for Masonry Units: Obtain masonry units of a uniform texture and color, or a uniform blend within the ranges accepted for these characteristics, from single source from single manufacturer for each product required.

B. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quality, including color for exposed masonry, from single manufacturer for each cementitious component and from single source or producer for each aggregate.

2.02 PERFORMANCE REQUIREMENTS

A. Provide unit masonry that develops indicated net-area compressive strengths at 28 days.
   1. Determine net-area compressive strength of masonry from average net-area compressive strengths of masonry units and mortar types (unit-strength method) according to TMS 602/ACI 530.1/ASCE 6.

B. Seismic Performance: Masonry to withstand the effects of earthquake motions determined in accordance with ASCE/SEI 7.

2.03 UNIT MASONRY, GENERAL

A. Masonry Standard: Comply with TMS 602/ACI 530.1/ASCE 6, except as modified by requirements in the Contract Documents.

B. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated. Do not use units where such defects are exposed in the completed Work**.**

2.04 CONCRETE MASONRY UNITS

A. Shapes: Provide shapes indicated and as follows, with exposed surfaces matching exposed faces of adjacent units unless otherwise indicated.
   1. Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.
   2. Provide square-edged units for outside corners unless otherwise indicated.

B. CMUs: ASTM C 90.
   1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 3050 psi (21.0 MPa).
   2. Density Classification: Normal weight.
      a. ASTM C 33; dry net weight not less than 125 lb per cu ft.
   3. Size (Width): Manufactured to dimensions 3/8 inch (10 mm) less than nominal dimensions.
      a. Provide nominal 6-inch wide units unless otherwise indicated in the Drawings.
   4. Bond: Running bond

2.05 MORTAR AND GROUT MATERIALS

A. Portland Cement: ASTM C 150/C 150M, Type I or II, except Type III may be used for cold-weather construction. Provide natural color or white cement as required to produce mortar color indicated.

B. Mortar Cement: ASTM C 1329/C 1329M.
   1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      a. Lafarge North America Inc.; Lafarge Mortar Cement or Magnolia Superbond Mortar Cement.
      b. Spec Mix
      c. Holcim (US) Inc.; Rainbow Mortamix Custom Color Cement/Lime.

C. Aggregate for Mortar: ASTM C 144.
   1. For mortar that is exposed to view, use washed aggregate consisting of natural sand or crushed stone.
   2. For joints less than 1/4 inch (6 mm) thick, use aggregate graded with 100 percent passing the No. 16 (1.18-mm) sieve.
   3. Colored-Mortar Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.
      a. Color: neutral gray

D. Aggregate for Grout: ASTM C 404.

E. Water: Potable.

2.06 REINFORCEMENT

A. Uncoated-Steel Reinforcing Bars: ASTM A615/A615M or ASTM A996/A996M, Grade 60 (Grade 420).

B. Reinforcing Bar Positioners: Wire units designed to fit into mortar bed joints spanning masonry unit cells and to hold reinforcing bars in center of cells. Units are formed from 0.148-inch (3.77-mm) steel wire, hot-dip galvanized after fabrication. Provide units designed for number of bars indicated.
   1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      a. Hohmann & Barnard,Inc.
      b. Heckmann Building Products.
      c. Wire-Bond

C. Masonry-Joint Reinforcement, General: ASTM A 951/A 951M.
   1. Interior Walls: Hot-dip galvanized carbon steel.
   2. Wire Size for Side Rods: 0.187-inch (4.76-mm) diameter.
   3. Wire Size for Cross Rods: 0.187-inch (4.76-mm) diameter.
   4. Spacing of Cross Rods, Tabs, and Cross Ties: Not more than 16 inches (406 mm) o.c.
   5. Provide in lengths of not less than 10 ft. (3 m), with prefabricated corner and tee units.

D. Masonry-Joint Reinforcement for Single-Wythe Masonry: Ladder type with single pair of side rods.
   1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      a. Hohmann & Barnard,Inc.
      b. Heckmann Building Products.
      c. Wire-Bond

2.07 TIES AND ANCHORS

A. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated:
   1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A1064/A1064M, with ASTM A153/A153M, Class B-2 coating.
   2. Steel Sheet, Galvanized after Fabrication: ASTM A1008/A1008M, Commercial Steel, with ASTM A153/A153M, Class B coating.

B. Adjustable Anchors for Connecting to Structural Steel Framing: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.
   1. Anchor Section for Welding to Steel Frame: Crimped 1/4-inch- (6.4-mm-) diameter, hot-dip galvanized steel.
   2. Tie Section: Triangular-shaped wire tie made from 0.25-inch- (6.4-mm-) diameter, hot-dip galvanized steel.

C. Adjustable Anchors for Connecting to Masonry: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.
   1. Tie Section: Triangular-shaped wire tie made from 0.25-inch- (6.35-mm-) diameter, hot-dip galvanized steel wire with steel tie/anchor designed for tying to concrete or concrete masonry units; Hohmann & Barnard 345-BT Flexible Tie or a comparable product by another manufacturer.
   2. Anchor: 1/4" diameter high-performance wedge expansion anchor, carbon steel, zinc plated, externally threaded, for use in concrete and concrete masonry units; Hilti Kwik Bolt 3 wedge anchor or a comparable product by another manufacturer.

D. Rigid Anchors: Fabricate from steel bars 1-1/2 inches (38 mm) wide by 1/4 inch (6.4 mm) thick by 24 inches (610 mm) long, with ends turned up 2 inches (51 mm) or with cross pins unless otherwise indicated.
   1. Corrosion Protection: Hot-dip galvanized to comply with ASTM A153/A153M

E. Lateral Masonry Support: Manufactured product sized for unit masonry thickness, fabricated from 12 gauge steel plate, 8” long with 2” minimum vertical bent legs and (2) 7/16” diameter holes. Use with neoprene compressible filler. Provide one support per block at top of wall.
   1. Corrosion Protection: Hot-dip galvanized to comply with ASTM A153/A153M

2.08 MISCELLANEOUS MASONRY ACCESSORIES

A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene or urethane.

B. Preformed Control-Joint Gaskets: Made from styrene-butadiene-rubber compound, complying with ASTM D 2000, Designation M2AA-805 and designed to fit standard sash block and to maintain lateral stability in masonry wall; size and configuration as indicated.

C. Bond-Breaker Strips: Asphalt-saturated felt complying with ASTM D 226/D 226M, Type I (No. 15 asphalt felt).

2.09 MORTAR AND GROUT MIXES

A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.
   1. Do not use calcium chloride in mortar or grout.
   2. Use portland cement-lime mortar unless otherwise indicated.

B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.

C. Mortar for Unit Masonry: Comply with ASTM C 270, Proportion. Provide the following types of mortar for applications stated unless another type is indicated or needed to provide required compressive strength of masonry.
   1. For reinforced masonry and for other applications where another type is not indicated, use Type N.

2.10 SOURCE QUALITY CONTROL

A. Tests:
   1. Test brick in accordance with ASTM C 67.
   2. Test concrete masonry units in accordance with ASTM C 140 and ASTM C 426.
   3. Have tests performed by a qualified independent testing laboratory.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
   1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
   2. Verify that adjacent construction is within tolerances specified.
   3. Verify that substrates are free of substances that impair mortar bond.

B. Proceed with installation only after unsatisfactory conditions have been corrected.
   1. Commencement of installation shall signify acceptance of existing and field conditions.

C. Lay out walls and partitions with one course of unit masonry, or other suitable means, to define the spaces, and to serve as a guide for other trades in the installation of conduits, pipes, coordination with adjacent construction, etc.

D. Clean off supporting surface under first course of masonry just prior to laying the masonry units.

E. Protection:
   1. Protect face materials against staining.
   2. Protect newly laid masonry from exposure to precipitation, excessive drying, freezing, soiling, and other harmful elements.
   3. Cover top of masonry with non-staining waterproof covering when Work is not in progress. Place with minimum 2-foot overhang of protective covering on each side of wall and securely anchor.

3.02 INSTALLATION, GENERAL

A. Thickness: Build single-wythe walls to actual widths of masonry units, using units of widths indicated.

B. Build chases and recesses to accommodate items specified in this and other Sections.

C. Leave openings for equipment to be installed before completing masonry. After installing equipment, complete masonry to match construction immediately adjacent to opening.

D. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.

3.03 TOLERANCES

A. Dimensions and Locations of Elements:
   1. For dimensions in cross section or elevation, do not vary by more than plus 1/2 inch (12 mm) or minus 1/4 inch (6 mm).
   2. For location of elements in plan, do not vary from that indicated by more than plus or minus 1/2 inch (12 mm).
   3. For location of elements in elevation, do not vary from that indicated by more than plus or minus 1/4 inch (6 mm) in a story height or 1/2 inch (12 mm) total.

B. Lines and Levels:
   1. For bed joints and top surfaces of bearing walls, do not vary from level by more than 1/4 inch in 10 feet (6 mm in 3 m), or 1/2-inch (12-mm) maximum.
   2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2-inch (12-mm) maximum.
   3. For vertical lines and surfaces, do not vary from plumb by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2-inch (12-mm) maximum.
   4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2-inch (12-mm) maximum.
   5. For lines and surfaces, do not vary from straight by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2-inch (12-mm) maximum.
   6. For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 feet (6 mm in 3 m), or 1/2-inch (12-mm) maximum.

C. Joints:
   1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm), with a maximum thickness limited to 1/2 inch (12 mm).
   2. For exposed bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch (3 mm).
   3. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch (9 mm) or minus 1/4 inch (6 mm).
   4. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm).[Do not vary from adjacent bed-joint and head-joint thicknesses by more than 1/8 inch (3 mm).]

5. For exposed bed joints and head joints of stacked bond, do not vary from a straight line by more than 1/16 inch (1.5 mm) from one masonry unit to the next.

3.04 LAYING MASONRY WALLS AND INFILL CONSTRUCTION

A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.

B. Install masonry units plumb and true to line with level courses accurately spaced.

C. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond; do not use units with less-than-nominal 4-inch (102-mm) horizontal face dimensions at corners or jambs.

D. Adjust units to final position while mortar is soft and plastic. Remove units disturbed after mortar has stiffened; clean units and joints of mortar and re-lay in fresh mortar.

E. Lay only dry concrete masonry units.

F. Lay concealed masonry with all units in a wythe in running bond. Bond and interlock each course of each wythe at corners. Do not use units with less-than-nominal 4-inch (100-mm) horizontal face dimensions at corners or jambs.
   1. Where cutting of masonry units is necessary, cut with a power saw. Lay out Work to avoid use of less than half-size units.

G. Lay hollow units with full mortar coverage on horizontal and vertical face shell surfaces. Bed webs in mortar in starting course on footings and foundation walls, in all courses of piers, columns and pilasters, where adjacent to cells or cavities to be reinforced or filled with concrete or mortar, and within 1'-6" of each side of openings.

H. Stopping and Resuming Work: Stop work by stepping back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar, remove loose masonry units and mortar, and wet brick if required before laying fresh masonry.

I. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.

J. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.

K. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath, wire mesh, or plastic mesh in the joint below, and rod mortar or grout into core.

L. Fill all cores in hollow CMUs with grout.

M. Provide CMU reinforced bond beam full length top of masonry partitions, minimum 1 full course above highest adjacent ceiling.

3.05 MORTAR BEDDING AND JOINTING

A. Lay CMUs as follows:
   1. Bed face shells in mortar and make head joints of depth equal to bed joints.
   2. Bed webs in mortar in grouted masonry, including starting course on footings.
   3. Fully bed entire units, including areas under cells, at starting course on footings where cells are not grouted.
   4. Fully bed units and fill cells with mortar at anchors and ties as needed to fully embed anchors and ties in mortar.

B. Lay solid masonry units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.

C. Construct uniform mortar joints, 3/8 inch thick unless otherwise indicated.

D. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.
   1. Cut joints flush for masonry walls to receive plaster or other direct-applied finishes (other than paint) unless otherwise indicated.

3.06 MASONRY-JOINT REINFORCEMENT

A. Reinforce horizontal joints with continuous masonry wall reinforcement spaced every 16 inches vertically.

B. Interrupt joint reinforcement at control and expansion joints unless otherwise indicated.

C. Install factory fabricated corner and tee sections at corners and wall intersections respectively

3.07 ANCHORING MASONRY TO STRUCTURAL STEEL AND CONCRETE

A. Anchor masonry to structural steel and concrete, where masonry abuts or faces structural steel or concrete, to comply with the following:
   1. Provide an open space not less than 1/2 inch (13 mm) and not more than 1 inch (25 mm) wide between masonry and adjacent construction unless otherwise indicated. Keep open space free of mortar and other rigid materials
   2. Anchor masonry with anchors embedded in masonry joints and attached to structure.

B. Space anchors as indicated, but not more than 16 inches o.c. vertically and 36 inches (914 mm) o.c. horizontally.

3.08 ANCHORING MASONRY INFILL TO ABUTTING CONSTRUCTION

A. Anchor masonry to structural steel and concrete, where masonry abuts or faces concrete or concrete masonry units, to comply with the following:
   1. Provide an open space not less than 1/2 inch (13 mm) and not more than 1 inch (25 mm) wide between masonry and adjacent construction unless otherwise indicated. Keep open space free of mortar and other rigid materials.
   2. Anchor masonry with corrugated metal anchors embedded in masonry joints and attached to adjacent construction.
   3. Space anchors as indicated, but not more than 8-inches o.c. vertically centered on the masonry CMU infill..

3.09 CONTROL AND EXPANSION JOINTS

A. General: Install control- and expansion-joint materials in unit masonry as masonry progresses. Do not allow materials to span control and expansion joints without provision to allow for in-plane wall or partition movement.

B. Form control joints in concrete masonry **as follows:**
   1. Install preformed control-joint gaskets designed to fit standard sash block.
   2. Provide continuous backer rod and concave tooled Type 6 Sealant, full height, both sides of joint.

3.10 LINTELS

A. Install lintels over openings in masonry. Center lintel over opening. Set in full bed of mortar under each end.
   1. Provide hot dipped galvanized steel angle lintels unless otherwise indicated in the Drawings.

B. Provide minimum bearing of 8 inches (200 mm) at each jamb unless otherwise indicated.

3.11 REPAIRING, POINTING, AND CLEANING

A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.

B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.

C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.
   1. Cut off mortar projections remaining from tooling joints and dry-brush masonry before the end of each day’s work.

3.12 MASONRY WASTE DISPOSAL

A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.

B. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.
   1. Crush masonry waste to less than 4 inches (100 mm) in each dimension.
   2. Mix masonry waste with at least two parts of specified fill material for each part of masonry waste. Fill material is specified in Section 312000 "Earth Moving."
   3. Do not dispose of masonry waste as fill within 18 inches (450 mm) of finished grade.

C. Masonry Waste Recycling: Return broken CMUs not used as fill to manufacturer for recycling.

D. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above or recycled, and other masonry waste, and legally dispose of off Owner's property.

END OF SECTION

SECTION 051201

STRUCTURAL STEEL

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Construction Painting: Section 099101

1.02 REFERENCES

A. Except as shown or specified otherwise, the Work of this Section shall meet the requirements of the following:
   1. Design, Fabrication, and Erection: "Specification for Structural Steel Buildings", July 7, 2016, by the American Institute of Steel Construction (AISC Specification).
   2. Standard Practice: Fabrication and erection practices shall comply with the "Code of Standard Practice for Steel Buildings and Bridges", June 15, 2016, by the American Institute of Steel Construction (AISC Code).
   3. Welding: Welding shall comply with the provisions of the "Structural Welding Code - Steel, AWS D1.1", by the American Welding Society (AWS Code).
   4. High-Strength Bolting: “Specification for Structural Joints Using High-Strength Bolts”, August 1, 2014, by the Research Council on Structural Connections (Specification for Structural Joints).
   5. Cleaning Steel: Comply with the appropriate specifications (SSPC SP-X) by the Steel Structures Painting Council.

1.03 DEFINITIONS

A. AISC Manual: Where reference is made to the AISC Manual, it shall mean the Manual of Steel Construction, 15th Edition, of the American Institute of Steel Construction.

1.04 REQUIREMENTS FOR CONNECTIONS

A. Field Connections:
   1. Bolted field connections need only be tightened to the snug tight condition.

B. Standard Beam Connections:
   1. Standard beam connections shown on the Drawings shall be fabricated as detailed. Substitutions will not be approved.

C. High-Strength Bolted Connections (Amendments to the Specification for Structural Joints):
   1. In Item 3.4 of the specification, change the second sentence to read "Burrs shall be removed."

2. In Item 3.3 of the specification, delete the last two sentences, and add the following sentence: "Flame cut surfaces shall be ground smooth.".
3. In Item 3.3.2 of the specification, add the following to the last sentence: ", except that oversize holes shall not be used in connections with galvanized faying surfaces.".
4. In Item 3.3.3 of the specification, add the following to the last sentence: ", except that short slotted holes shall not be used in connections with galvanized faying surfaces when the force on the joint is in a direction other than normal to the axis of the slot.".
5. In Item 3.3.4 of the specification, add the following to the last sentence: ", except that long slotted holes shall not be used in connections with galvanized faying surfaces when the force on the joint is in a direction other than normal to the axis of the slot.".
6. Change Item 6.1 of the specification to read as follows: "All fully-tensioned high-strength bolts shall have a hardened washer under the element (nut or bolt head) turned in tightening, regardless of the method of tightening."
7. In Item 7.1 of the specification, change the first sentence to read: "A tension measuring device shall be required at all work sites where fully-tensioned high-strength bolts are being installed.".

D. Design, Fabrication and Erection (Amendments to the AISC Specification):
1. In Item A2. of the specification, change "American Welding Society" to "American Welding Society (Latest Adoption Date)". Delete the date from all referenced AWS Codes.

E. Fabrication and Erection (Amendments to the AISC Code):
1. In Item 4.1. of the code, delete the last sentence of the first paragraph.
2. In Item 5.1. of the code, change the first paragraph to read: "Contract Drawings are not considered released for construction. Orders for materials may be placed only after approval of erection drawings or written approval of the Director."

1.05 SUBMITTALS

A. Shop Drawings: Submit shop drawings for all structural steel required by this Contract. Machine-duplicated copies of Contract Drawings will not be accepted as shop drawings. Shop drawings shall be standard 24 by 36 inch size sheets, except that erection drawings may be larger. The margin line shall be drawn a minimum of 1/2 inch from edge of sheet. The title block shall be placed in the lower right hand corner of the drawing, and shall contain the fabricator's name, address, and telephone number. Failure to submit legible drawings of required size will be cause for their disapproval without review. If the drawings are not prepared by a detailer under the direct control of the fabricator, the fabricator shall stamp each drawing and initial or sign the stamp to certify review and approval of the drawings, and conformance with the fabricator's shop practice and capability.
1. Include the following in the initial submission:
a. Drawings of proposed job standards for shop and field connections, including standard and special connections, complying with the requirements.

b. Erection drawings indicating sizes, weights, and locations of all structural members.
c. Anchor rod and base plate plans.

2. Do not submit detail drawings, other than for anchor bolts and base plates, until after approval of the job standards and the erection drawings.
3. All shop drawings shall be checked by the detailer before submission. Failure to submit checked shop drawings will be cause for their disapproval without review.
4. Changes initiated by the detailer or fabricator to previously reviewed shop drawings shall be resubmitted.
5. Include the following in subsequent submissions:
   a. Index sheets and revised erection drawings to which erection marks have been added.
   b. Detail drawings of all structural members.
6. Indicate all required shop and field welds by Standard AWS Welding Symbols in accordance with AWS A2.4.
7. Indicate shop painting requirements.
8. When shop drawings are marked "Approved as Noted", promptly resubmit copies of corrected shop drawings for formal approval and record.
9. Contract Drawings are not considered released for construction. Orders for materials may be placed only after approval of erection drawings or written approval of the Director.

B. Product Data:
   1. Shop Paint: Manufacturer's name and printed product literature, including storage and application instructions.

C. Quality Control Submittals:
   1. Test Reports: Submit test reports no later than the end of the week covered by the reports. Submit copy of each test report required under Quality Assurance Article.
   2. Certificates: Copy of certificates required under Quality Assurance Article.
   3. Fabricator’s Qualifications Data:
      a. Firm’s name, business address and telephone number.
      b. Summary of their quality control programs.
   4. Erector’s Qualifications Data:
      a. Firm’s name, business address and telephone number.
      b. Summary of their quality control programs.
   5. Welder’s Qualifications Data:
      a. Name of each person who will be performing the Work and their employer’s name, business address and telephone number.
      b. Welder’s Certification: Copy of AWS certification for type of welding required.

1.06 QUALITY ASSURANCE

A. Test Reports:
   1. Steel Manufacturer’s Mill Test Reports: Covering physical and chemical tests, for all main material.

2. Bolt Manufacturer's Test Reports: Covering physical and chemical tests, for each lot of high strength bolts supplied.

B. Certification: Affidavit by the structural steel manufacturer certifying that structural steel items meet the contract requirements.
   1. Submit evidence of steel material compliance with this Specification. Evidence shall consist of certification of source of material, copies of purchase orders and manufacturer's certifications. For stock material, submit copies of latest mill or purchase orders for material replacement.
      a. Documentation to confirm compliance with General Conditions Article 25.4 Domestic Steel.

C. The Contractor agrees, that if the value of this contract exceeds $100,000 all structural steel, reinforcing steel and other major steel items to be incorporated in the Work of this Contract shall be produced and made in whole or substantial part in the United States, its territories or possessions.

D. Qualifications:
   1. Fabricator: The fabricator of the structural steel shall be regularly engaged in the fabrication of structural steel for a minimum of 5 years, and shall be subject to the approval of the Director.
      a. AISC Quality Certified Fabricators (latest list issued) are approved.
   2. Erector: The structural steel erector shall be regularly engaged in the erection of structural steel for a minimum of 5 years, and shall be subject to the approval of the Director.
   3. Welder: Welding shall be performed only by welders, welding operators, and tackers who have been qualified by tests as prescribed in the AWS Code to perform the type of welding required. Welders shall be certified for each type weld and position before fabrication.

E. Do not deviate from the requirements of the Contract Documents except where an option is specifically mentioned. The Director, however, may accept deviations proposed by the Contractor when it is deemed in the best interest of the State and if the deviations are consistent with sound and accepted engineering practice. Requests for deviations shall be made prior to the submission of shop drawings to preclude delay in the expeditious preparation and approval of the required shop drawings. In addition, design calculations or other data may be required to establish conformity of such deviations with the applicable Standards.

F. Pre-Fabrication Meeting: A minimum of 14 days prior to the initial submission of shop drawings, a meeting will be held at the Site for the purpose of reviewing the Contract Documents, and discussing the requirements and procedures for submittals and for the Work. The meeting will be conducted by the Director's Representative. The Contractor and the fabricator's project coordinator and certified welding inspector must attend the meeting. The Director's Representative and a representative of OGS D&C Structural Engineering will also attend.

1.07 INSPECTION

A. Quality Control Inspection: Maintain Quality Control (QC) inspection during the fabrication and erection of structural steel.

1. Submit for approval a summary of the QC programs of the proposed fabricator and erector, including a list of their QC personnel and respective duties. Failure to obtain approval of the QC programs will result in rejection of the proposed fabricator and erector. AISC Quality Certified Fabricators submit copy of QC Certificate (Submission of QC program summary is waived).
2. At least one of the fabricator's and one of the erector's QC personnel shall be an American Welding Society Certified Welding Inspector (CWI). If the fabricator and/or the erector find it necessary to temporarily employ an independent CWI, they shall not utilize Atlantic Testing Laboratories (under contract to the State) for structural steel inspection.
3. The fabricator's CWI shall make minimum QC inspections as follows and shall prepare daily reports of such inspections:
    a. At the start of fabrication to review welder qualifications, welding procedure specifications and qualifications, welding equipment and consumables, structural steel identification and tracking procedures and to perform all other CWI duties appropriate to start up of the specific project.
    b. Periodically during the preparation and fit up of material for groove welding.
    c. At all times that full penetration groove welding is being performed.
    d. As necessary to ensure that all welding related requirements of this section are being complied with.
    e. Minimum QC inspection time by the CWI shall be one-half day every other day that any welding related structural steel fabrication is being performed.
4. The erector's CWI shall make minimum QC inspections as follows, and shall prepare daily reports of such inspections:
    a. Prior to commencement of field welding operations to review welder qualifications, welding procedure specifications and qualifications, welding equipment and consumables and to perform all other CWI duties appropriate to start up of field welding for the specific project.
    b. Periodically during fit-up of material for full penetration groove welds.
    c. At all times that full penetration groove welding is being performed.
    d. As necessary to ensure that all welding related requirements of this section are being complied with.
    e. Minimum QC inspection time shall be one-half day on at least three separate days for every week that any structural steel field welding is being performed. This minimum time may be reduced if, in the opinion of the Director's Representative, such reduction is appropriate.

B. Quality Assurance (QA) inspection of structural steel fabrication and field welding and high-strength bolting may be made at the discretion of the Director. The qualification of welding procedures, welders, and tackers will be covered by such QA inspection. Representatives of the Director and/or designated inspection laboratory shall be given free and easy access to fabrication shop and field at all times that work is in progress. QA inspections will be made without cost to the Contractor.

1. If QA inspection is made by the State, it shall not relieve the Contractor, fabricator, and erector of responsibility for their own QC programs.
2. When QA inspection is made by the State, schedule and perform the Work as required to minimize the cost to the State for QA inspection. When failure to schedule and perform the Work, or to coordinate with the QA inspectors, results in excessive QA inspection costs, the State will backcharge such excess cost to the Contractor.
3. When non-destructive testing, Radiographic Testing (RT) or Ultrasonic Testing (UT), is required by the contract documents, it shall be performed by the State or its designated inspection laboratory, at the State's expense.
4. When QA inspection is made by the State, send 3 additional copies of required material certifications and mill test reports to the designated inspection laboratory, or to OGS Design & Construction, Division of Construction when no inspection laboratory has been designated.
5. Keep copies of the results of welder qualification test on file and make them available to the QA inspector upon request.
6. Do not ship structural steel, except anchor bolts and base plates, from the fabricating shop prior to QA inspection and approval by the State or designated inspection laboratory, unless such inspection is waived by the Director. A waiver of prior QA inspection and approval shall not reduce the Contractor's responsibility to provide structural steel in conformance with the Contract Documents.

1.08 WELDING PROCESSES

A. Use only shielded metal arc, submerged arc, gas metal arc, or flux cored arc welding.

1.09 WELDING PROCEDURE QUALIFICATION

A. Shielded metal arc, submerged arc, gas metal arc, or flux cored arc welding procedures which conform to the provisions of the AWS Code shall be considered to be prequalified.

B. The welding procedures requiring qualification shall conform to the requirements of AWS D1.1.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Deliver anchor rods and other devices which are to be embedded in cast-in-place concrete or masonry construction, for anchorage of structural steel, one week prior to the start of that Work, unless otherwise required.

B. Receiving Shop Paint: Receive paint in original, unopened containers bearing paint manufacturer's printed label.
   1. Label shall show manufacturer's name, trade name of paint, Federal Specification compliance (if applicable), shelf life, and date of manufacture.

C. Protection:
   1. Upon delivery to the site, promptly cover and protect steel items (which are not required to receive shop paint) from rusting.
   2. Store shop paint in accordance with paint manufacturer's printed instructions.

1.11 ENVIRONMENTAL REQUIREMENTS FOR SHOP PAINTING

A. Comply with the following conditions for the application of paint unless otherwise stated in the paint manufacturer's printed directions.
   1. Minimum ambient, steel surface, and paint temperatures: 40 degrees F.
   2. Maximum steel surface temperature: 100 degrees F.
   3. Maximum relative humidity: 85 percent.
   4. Surface of steel: Dry.

PART 2 PRODUCTS

2.01 MATERIALS

A. Wide Flange Structural Steel: ASTM A-992.

B. Angles: ASTM A 36.

C. Steel for Anchor Rods: ASTM F 1554 Grade 36.

D. High-Strength Threaded Fasteners (High-Strength Bolts): ASTM A 325 heavy hexagon structural bolts, nuts, and hardened washers.

E. Steel Hollow Structural Sections (Round, Square, or Rectangular): ASTM A 500, Grade C.

F. Weld Filler Metal:
   1. General: Weld filler metal shall be in accordance with Table 4.1.1 of the AWS Code, except as follows:
      a. Only electrode and flux combinations complying with AWS Classifications F7AX-EXXX or F7AX-EXXX-a, (a = B2, Ni1, Ni2, Ni3 or W), shall be used for submerged arc welding.
      b. Only electrode and shielding gas combinations complying with AWS Classifications E 7XT-1 or E 7XT-5 shall be used for flux cored arc welding.
   2. Weld filler metal for shielded metal arc, submerged arc, gas metal arc, and flux cored arc welding which conforms to AWS Specifications A5.1 or A5.5 shall be considered to be prequalified.

G. Shop Paint (General): Steel primer selected from the following:
   1. TNEMEC 10-99 (Red), 10-99G (Green) or 10-1009 (Gray).
   2. Rust-Oleum 769.
   3. Valspar 13-R-53.
   4. Sherwin-Williams "Kromik".

H. Bedding Mortar:
   1. Shrink-Resistant Grout (Non-Staining): Factory-packaged, non-ferrous mortar grouting compound selected from the following:
      a. Masterflow 713 by Master Builders, 23700 Chagrin Blvd., Cleveland, OH 44122 (800) 227-3350.
      b. Sonogrout by Sonneborn, Chemrex, Inc., 57-46 Flushing Ave., Maspeth, NY 11378, (800) 433-9517.
      c. Five Star Grout by Five Star Products, Inc.,425 Stillson Rd., Fairfield, CT 06430, (800) 243-2206.
      d. Crystex by L&M Construction Chemicals, 14851 Calhoun Rd., Omaha, NB 68152, (800) 362-3331.
      e. Non-Corrosive, Non-Shrink Grout by A.C. Horn, Inc., Tamm Industries, 7405 Production Dr., Mentor, OH 44060, (800) 862-2667.

2.02 FABRICATION

A. Do not commence fabrication until the fabricator has been approved and the fabrication schedule has been coordinated with the designated Quality Assurance inspection agency (independent inspection laboratory or the State).
   1. Give the Director's Representative one week advance notice of the commencement of fabrication.

B. Progress shop fabrication from "Approved" or "Approved as Noted" detail drawings only.
   1. When detail drawings are "Approved as Noted", progress fabrication in strict accordance with notes thereon.
   2. Fabrication progressed from "DISAPPROVED" or "RETURNED FOR CORRECTION" detail drawings will be rejected. The contractor shall have no claim against the State for any costs or delays due to rejection of items fabricated from "DISAPPROVED" or "RETURNED FOR CORRECTION" detail drawings.

C. Finish column ends at base plates and at load carrying cap plates to a true plane square to the column, with a maximum American National Standards Institute surface roughness value of 500 microinches.

D. Make provision for connections of other Work, including all cutting and punching of structural members where required by the Drawings, or for which information is furnished prior to approval of the shop drawings.

E. Weld and inspect steel studs in accordance with Section 7 of the AWS Code.

F. Remove extension bars or run-off plates upon the completion and cooling of groove welds. Grind the ends of the welds smooth and flush with the edges of the abutting parts.

G. Remove tack welds not incorporated into the final weld, and temporary welds. Grind affected surfaces smooth and flush.

H Detail all fillet welded joints so as to permit the welding electrode or wire to be positioned at a minimum angle of 30 degrees from the face of any material upon which weld metal is to be deposited.

I. Prepare material in accordance with Section 3 of the AWS Code. Do not use gas or air carbon-arc cutting to cut or enlarge bolt holes.

2.03 SHOP PAINTING

A. Thoroughly clean all structural steel. Remove oil, grease, and similar contaminants in accordance with SSPC SP-1 “Solvent Cleaning”. Remove loose mill scale, loose rust, weld slag and spatter, and other detrimental material in accordance with SSPC SP-2 “Hand Tool Cleaning”, SSPC SP-3 “Power Tool Cleaning”, SSPC SP-6“ Commercial Blast Clean” or SSPC SP-7 “Brush-Off Blast Cleaning, or SSPC SP-10 “Near-White Blast Cleaning”.

B. Apply one coat of shop paint to all steel surfaces except as follows:
1. Do not paint steel members designated "NP" on the Drawings.
2. Paint steel surfaces inaccessible after assembly, except surfaces in contact, with two coats of shop paint before assembly.
3. Do not paint steel surfaces to be field welded, contact surfaces of high-strength bolted slip-critical connections, steel to be encased in cast-in-place concrete, steel receiving sprayed-on fireproofing (if recommended by manufacturer of the fireproofing material approved for use on this Project), and the top flange of beams and girders in composite construction.
4. Do not paint galvanized items which are not to be finish painted under Section 099101.
5. Apply two shop coats of High-Ratio Water Based Inorganic Zinc Silicate to all exterior steel member surfaces.

C. Apply paint and compound to the following minimum thickness per coat:
1. Shop Paint (General): 4.0 mils wet film.
2. Shop Paint for Galvanized Steel: 3.0 mils wet film.
3. Cold Galvanizing Compound: 2.0 mils dry film.
4. Shop Paint for Steel to receive Sprayed-On Fireproofing: Follow manufacturer's recommendations.
5. Shop Paint (Water-Based Zinc Silicate): 3.0 mils dry film.

PART 3 EXECUTION

3.01 ERECTION

A. Erect steel in accordance with the AISC Specification, the AISC Code, the AWS Code and the Specification for Structural Joints, except as otherwise specified.

B. Prepare and place shrink-resistant grout in accordance with grout manufacturer's printed instructions.
   1. Comply with manufacturer's instructions for preparation of surfaces in contact with the grout, and for curing and protection of the grout.

C. Install and inspect steel studs in accordance with Section 7 of the AWS Code.

D. Remove extension bars and run-off plates upon the completion and cooling of groove welds. Grind the ends of the welds smooth and flush with the edges of the abutting parts.

E. Remove tack welds not incorporated into the final weld, and temporary welds. Grind affected surfaces smooth and flush.

F. Delete Paragraph M2.2. of the AISC Specification. Prepare material in conformance with Section 3 of the AWS Code. Do not use gas or air carbon-arc cutting to cut or enlarge bolt holes.

G. Do not make corrections or alterations to fabricated steel without prior written approval by the Director's Representative.

END OF SECTION

SECTION 054000

COLD-FORMED METAL FRAMING

PART 1 GENERAL

1.01 REFERENCES

A. Except as shown or specified otherwise, the Work of this Section shall meet the requirements of the following:
   1. General Standard: "Specification for the Design of Cold-Formed Steel Structural Members" by the American Iron and Steel Institute (AISI Specification).
   2. Welding: "Structural Welding Code - Sheet Steel, AWS D1.3" by the American Welding Society (AWS Code).

B. Organizations:
   1. AISI: American Iron and Steel Institute, 1140 Connecticut Ave., NW, Suite 705, Washington, D.C. 20036, (202) 452-7100, www.steel.org.
   2. AWS: American Welding Society, 550 N.W. LeJeune Rd., Miami, FL 33126, (800) 443-9353, www.aws.org.
   3. ASTM: ASTM International, 100 Barr Harbor Dr., PO Box C700, West Conshohocken, PA, 19428-2959, (610) 832-9500, www.astm.org.
   4. SSPC: The Society for Protective Coatings, 40 24th Street, 6th Floor, Pittsburgh PA 15222-4656, (877) 281-7772, www.sspc.org.

1.02 SYSTEM DESCRIPTION

A. Type of Metal Framing: Load carrying, formed steel framing.
   1. Framing with studs and accessories.

1.03 SUBMITTALS

A. Shop Drawings: Erection and fabrication drawings for all load carrying metal framing and accessories. Show plans and elevations at not less than 1/4 inch to 1'-0" scale, and details at not less than 1-1/2 inch to 1'-0" scale.
   1. Include the following in an early submission:
      a. Erection drawings indicating sizes and locations of all metal framing members.
      b. Anchor bolt plan showing anchor bolts, if any, to be placed in cast-in-place concrete Work.
      c. Show plans and elevations at not less than 1/4 inch to 1'-0" scale, and details at not less than 1-1/2 inch to 1'-0" scale.
   2. Do not submit fabrication drawings, other than for anchor bolts, until after approval of the erection drawings.
   3. When shop drawings are marked "Approved as Noted", promptly resubmit copies of corrected shop drawings for formal approval and record.

B. Submit an Environmental Product Declaration (EPD) from the manufacturer for steel within this specification section, if available. A statement of the contractor's good faith effort to obtain the EPD shall be provided if not available.
   1. Manufacturer provided EPDs must be Product Specific Type III (Third Party Reviewed), in adherence with ISO 14025 *Environmental labels and declarations,* ISO 14044 *Environmental management – Life cycle assessment, and* ISO 21930 *Core rules for environmental product declarations of construction products and services.*

C. Product Data: Manufacturer's printed specifications and installation instructions for each type of metal framing and accessory, including data required to show compliance with the Drawings and Specifications.

D. Quality Control Submittals:
   1. Certificates: Affidavit required under Quality Assurance Article.

1.04 QUALITY ASSURANCE

A. Certification: Affidavit certifying that sheet steel complies with specified quality, grade, and zinc-coating.

B. Fire Rated Construction: Wherever a fire resistance classification is indicated for metal framing components, provide framing and accessories which have been tested and classified or listed for the construction and rating shown.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver metal framing to the Site in manufacturer's unopened containers or bundles, identified with brand, type, and gage.

B. Protect metal framing from damage and rusting. Store off the ground in dry, ventilated space.

C. Store and handle metal framing in a manner that will not cause distortion.

PART 2 PRODUCTS

2.01 MATERIALS

A. Framing (including Studs, Tracks, and Perimeter Channel):
   1. Members of 12, 14, and 16 Gage Steel: Galvanized, structural quality sheet steel; ASTM A653, Grade D (minimum yield 50 ksi).
   2. Members of 18 and 20 Gage Steel: Galvanized, structural quality sheet steel; ASTM A653, Grade A (minimum yield 33 ksi).

B. Accessories and Fasteners:
   1. Bracing, Bridging, Strapping, Reinforcement, Stiffeners, Plates, Gussets, Clip Angles, and Hangers: Unless otherwise indicated, metal framing manufacturer's standard products formed from ASTM A653 galvanized, structural quality sheet steel. Thickness and grade shall be determined

by application requirements, with a minimum thickness of 20 gage and a minimum yield of 33 ksi.

2. Power-Actuated Fasteners: Low velocity, powder activated, threaded studs complying with ASTM E 1190 and zinc coated in accordance with ASTM B633, Type III, Classification 5.
   a. Minimum Stud Size: 1/4-20 thread, 0.145 inch dia shank, with 1/4-20 nut and 5/8 inch outside dia washer.
   b. Stud Material: ASTM A510 1060 or 1065 steel.
   c. Minimum Core Hardness: 51-56 Rockwell C.
   d. Minimum Tensile Strength: 285,000 psi.
   e. Minimum Shear Strength: 182,000 psi.
3. Self-Drilling Fasteners: Cadmium plated, No. 12-14 x 3/4 inch, hex washer head, self-drilling, self-tapping fastener with pilot point.

C. Galvanizing: Hot-dip process complying with ASTM A653, Coating Designation G 60.

D. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

2.02 FABRICATION

A. Fabricate metal framing in accordance with "Approved" or "Approved as Noted" fabrication drawings only.
   1. When fabrication drawings are "Approved as Noted", progress fabrication in strict accordance with the marks and notes thereon.

B. Repairing Galvanizing: Clean shop welded and abraded surfaces, and repair them with a 2 mil (dry) minimum thick coating of galvanizing repair paint. Comply with paint manufacturer's application instructions.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Examine surfaces to receive metal framing for defects that will adversely affect the execution and quality of the Work. Do not proceed until unsatisfactory conditions are corrected.

3.02 SURFACE PREPARATION

A. Clean surfaces that support the Work of this Section.

3.03 INSTALLATION

A. Install metal framing and accessories in accordance with approved shop drawings, and with the metal framing manufacturer's printed installation instructions.

B. Provide temporary bracing to ensure stability of the structure during construction.

C. Repairing Galvanizing: Clean field welded and abraded surfaces, and repair them with a 2 mil (dry) minimum thick coating of galvanizing repair paint. Comply with paint manufacturer's application instructions.

D. Tolerances:
   1. Spacing of Studs: Not more than + 1/8 inch from the designed spacing, providing that the cumulative error does not exceed the requirements of the finishing materials.

E. Installation of Runner Tracks:
   1. Install continuous bottom and top tracks of size and gage shown. Align track accurately and, unless otherwise shown, attach to supporting structure with power-driven fasteners at 16 inches oc. Install fasteners at corners and ends of tracks.
   2. At track butt joints, securely attach abutting pieces of track to a common structural element, or splice them with a welded butt joint.

F. Installation of Studs:
   1. Install studs of size and gage shown. Space studs 16 inches maximum oc, unless otherwise shown.
   2. Install additional studs at wall corners and intersections, adjacent to wall openings, at wall ends, and at both sides of control joints (if any).
      a. For gypsum board applications, keep studs not less than 2 inches nor more than 6 inches from inside corners.
   3. Install full length studs, without splices, between runner tracks.
   4. Install axially loaded studs with full bearing against the webs of the bottom and top runner tracks.
   5. Plumb and align studs and, unless otherwise shown, provide positive attachment to runner tracks using self-drilling fasteners or welds on both flanges of studs.
   6. Install lintels at wall openings wider than the stud spacing as shown or scheduled, or if not shown or scheduled, as recommended by the metal framing manufacturer for the opening spans and loads involved.
   7. Unless otherwise shown, install rough framing at openings using full length studs at the ends of lintels and jack studs from the bottom track to the underside of the lintels. Install horizontal header tracks and, where required, horizontal sill tracks. Cut horizontal tracks to length, with split flanges and bent webs for flange overlap and attachment to jack studs with self-drilling fasteners. Install cut to length intermediate studs between jack studs at head and sill sections at the same spacing as full length studs.
   8. At door openings, install rough framing as specified in 7. above. Coordinate jack studs with the types of door frames to be furnished.
      a. Where solid core wood doors, double doors, or doors weighing more than 50 pounds are shown or scheduled, install 2 full length studs at the ends of lintels instead of one.
   9. Install horizontal bridging in equally spaced rows, not exceeding 3'-4" oc. For each row, install solid bridging between studs at corners, ends of walls, openings, and not exceeding 5'-4" oc, plus continuous 2 inch by 16 gage strapping on both sides of the wall. Attach solid bridging to

each flange of the studs with one self-drilling fastener, or make an equivalent welded connection. Attach the continuous strapping to flanges of all solid bridging with four self-drilling fasteners and to flanges of all studs with one self-drilling fastener, or make equivalent welded connections.

10. Install diagonal bracing as shown.

END OF SECTION

SECTION 055000

METAL FABRICATIONS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Miscellaneous framing and supports.
   2. Miscellaneous steel trim.
   3. Loose bearing and leveling plates.
   4. Radiator covers, valve access covers, and associated retaining clips and angles

B. Products furnished, but not installed, under this Section include the following:
   1. Loose steel lintels: Installed under Section 033000
   2. Anchor Bolts: Installed under Division 04 Section "Unit Masonry".
      a. Anchor bolts, steel pipe sleeves, slotted-channel inserts, and wedge-type inserts indicated to be cast into concrete or built into unit masonry.
   3. Loose Bearing Plates: Installed under Division 04 Section "Unit Masonry".

C. Related Requirements:
   1. Division 04 Section "Unit Masonry" for installing loose lintels, anchor bolts, and other items built into unit masonry.

1.02 REFERENCES

A. Except as shown or specified otherwise, the Work of this Section shall meet the requirements of the following:
   1. Design, Fabrication, and Erection: “Specification for Structural Steel Buildings, Allowable Stress Design and Plastic Design” adopted by the American Institute of Steel Construction, June 1, 1989 (AISC Specification).
      a. Design and Fabrication of Cold-Formed Shapes: “Specification for the Design of Cold-Formed Steel Structural Members”, by the American Iron and Steel Institute (AISI Specification).
   2. Welding: “Structural Welding Code - Steel, AWS D1.1”, or “Structural Welding Code - Sheet Steel, AWS D1.3”, by the American Welding Society (AWS Codes).

B. Organizations:
   1. AISC: American Institute of Steel Construction, One East Wacker Dr., Suite 700, Chicago, IL 60601-1802, 866-275-2472, www.aisc.org.
   2. AISI: American Iron and Steel Institute, 1140 Connecticut Ave., NW, Suite 705, Washington, D.C. 20036, (202) 452-7100, www.steel.org.
   3. AWS: American Welding Society, 550 N.W. LeJeune Rd., Miami, FL 33126, (800) 443-9353, www.aws.org.

4. ANSI: American National Standards Institute, 1819 L Street, NW, 6th Floor, Washington, DC 20036, (202) 293-8020, www.ansi.org.
5. ASME: ASME International, 3 Park Ave., New York, NY 10016-5990, (800) 843-2763, www.asme.org.
6. ASTM: ASTM International, 100 Barr Harbor Dr., PO Box C700, West Conshohocken, PA, 19428-2959, (610) 832-9500, www.astm.org.
7. MPI: The Master Painters Institute Inc., 2808 Ingleton Ave., Burnaby, BC, V5C 6G7, (888) 674-8937, www.specifypaint.com.
8. SSPC: The Society for Protective Coatings, 40 24th Street, 6th Floor, Pittsburgh PA 15222-4656, (877) 281-7772, www.sspc.org

1.03 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written instructions to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of metal fabrications that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.04 ACTION SUBMITTALS

A. Product Data: Catalog sheets, specifications, and installation instructions for each fabricated item specified, except submit data for fasteners only when directed.

B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide Shop Drawings for the following:
1. Miscellaneous framing and supports for applications where framing and supports are not specified in other Sections.
2. Miscellaneous steel trim.

C. Submit an Environmental Product Declaration (EPD) from the manufacturer for steel within this specification section, if available. A statement of the contractor's good faith effort to obtain the EPD shall be provided if not available.
1. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 *Environmental labels and declarations*, ISO 14044 *Environmental management – Life cycle assessment*, and ISO 21930 *Core rules for environmental product declarations of construction products and services.*

1.05 INFORMATIONAL SUBMITTALS

A. Welding certificates.

B. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.

C. Certificates: Certificates: Copy of certificates required under Quality Assurance Article

1.06 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel in accordance with the following welding codes:
   1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."

B. Galvanizing: Stamp galvanized items with galvanizer's name, weight of coating, and applicable ASTM number

1.07 DELIVERY AND STORAGE

A. Coordinate delivery of items to be built into other construction to avoid delay.

B. Promptly cover and protect steel items delivered to the Site.

1.08 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls, floor slabs, decks, and other construction contiguous with metal fabrications by field measurements before fabrication.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
   1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

2.02 METALS

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes

B. Steel Plates, Shapes, and Bars: ASTM A36/A36M.
   1. Steel Plates to be Bent or Cold-Formed: ASTM A 283, Grade C.
   2. Steel Bars and Bar-Size Shapes: ASTM A 675, Grade 70; or ASTM A 36.
   3. Cold-Finished Steel Bars: ASTM A 108, grade as selected by fabricator.

C. Steel Tubing: ASTM A500/A500M, cold-formed steel tubing.

D. Steel Pipe: ASTM A 53, type as selected, Grade A; black finish unless galvanizing is required; standard weight (Schedule 40), unless otherwise shown or specified.

E. Cast Iron: Either gray iron, ASTM A48/A48M, or malleable iron, ASTM A47/A47M, unless otherwise indicated.

F. Aluminum Plate and Sheet: ASTM B209 (ASTM B209M), Alloy 6061-T6.

G. Aluminum Extrusions: ASTM B221 (ASTM B221M), Alloy 6063-T6.

H. Aluminum Castings: ASTM B26/B26M, Alloy 443.0-F.

I. Anchors: Except where shown or specified, select anchors of type, size, style, grade, and class required for secure installation of metal fabrications. For exterior use and where built into exterior walls, anchors shall be galvanized or of corrosive-resistant materials.

1. Expansion Anchors: Anchor bolt and sleeve assembly of material indicated below with capability to sustain, without failure, a load equal to six times the load imposed when installed in unit masonry and equal to four times the load imposed when installed in concrete, as determined by testing per ASTM E 488, conducted by a qualified independent test agency.
    a. Carbon Steel: Zinc-Plated; ASTM B 633, Class Fe/Zn 5.
    b. Stainless Steel: Bolts, Alloy Group 1 or 2; ASTM F593, Nuts; ASTM F 594

2.03 FASTENERS

A. Fasteners: Except where shown or specified, select fasteners of type, size, style, grade, and class required for secure installation of metal fabrications. For exterior use and where built into exterior walls, fasteners shall be galvanized.

1. Provide stainless steel fasteners for fastening aluminum.
2. Stainless Steel Fasteners: ASTM A 666; Type 302/304 for interior Work; Type 316 for exterior Work; Phillips flathead (countersunk) screws and bolts for exposed Work unless otherwise specified.

B. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A307, Grade A (ISO 898-1, Property Class 4.6); with hex nuts, ASTM A563 (ASTM A563M); and, where indicated, flat washers.

C. High-Strength Bolts, Nuts, and Washers: ASTM F3125/F3125M, Grade A325 (Grade A325M), Type 3, heavy-hex steel structural bolts; ASTM A563, Grade DH3, (ASTM A563M, Class 10S3) heavy-hex carbon-steel nuts; and where indicated, flat washers.

D. Stainless Steel Bolts and Nuts: Regular hexagon-head annealed stainless steel bolts, ASTM F593 (ISO 3506-1); with hex nuts, ASTM F594 (ASTM F836M); and, where indicated, flat washers; Alloy Group 1 (A1).

E. Anchor Bolts: ASTM F1554, Grade 36, of dimensions indicated; with nuts, ASTM A563 (ASTM A563M); and, where indicated, flat washers.
   1. Hot-dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.

F. Anchors, General: Capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in concrete, as determined by testing in accordance with ASTM E488/E488M, conducted by a qualified independent testing agency.

G. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors.
   1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, unless otherwise indicated.
   2. Material for Where Stainless Steel Is Indicated: Alloy [Group 1 (A1) stainless steel bolts, ASTM F593 (ISO 3506-1), and nuts, ASTM F594 (ASTM F836M).

H. Toggle Bolts: Spring Wing Type; Wing AISI 1010, Trunion Nut AISI1010 or Zamac Alloy, Bolt Carbon Steel ANSI B18.6.3

I. Eyebolts: ASTM A 489.

J. Machine Bolts: ASME B18.5 or ASME B18.9, Type, Class, and Form as required.

K. Machine Screws: ASME B18.6.3.

L. Lag Screws: ASME B18.2.1.

M. Wood Screws: Flat head, ASME B18.6.1.

N. Plain Washers: Round, ASME B18.22.1

O. Lock Washers: Helical, spring type, ASME B18.21.1

2.04 MISCELLANEOUS MATERIALS

A. Shop Primers: Provide primers that comply with Section 099123 "Interior Painting."

B. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.
   1. Use primer that contains pigments that make it easily distinguishable from zinc-rich primer.

C. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc-coated metal and compatible with finish paint systems indicated.
   1. Epoxy zinc-rich primer; complying with MPI#20 and compatible with topcoat.

D. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

E. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

F. Shrinkage-Resistant Grout: Factory-packaged, nonmetallic, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

G. Concrete: Comply with requirements in Section 033000 "Cast-in-Place Concrete" for normal-weight, air-entrained concrete with a minimum 28-day compressive strength of 3000 psi (20 MPa).

H. Bedding Mortar:
1. Cement Grout: Portland cement complying with ASTM C 150, Type I or III, and clean uniformly graded natural sand complying with ASTM C 404, size No. 2; mixed at a ratio (by volume) of 1.0 part cement to 3.0 parts sand, with only the minimum amount of water required for placement and hydration.

I. Shrink-Resistant Grout (Ferrous): Factory-packaged, non-catalyzed, ferrous aggregate mortar grouting compound selected from the following:
1. Embeco 636 by Master Builders, 23700 Chagrin Blvd., Cleveland, OH 44122 (800) 227-3350
2. Ferrolith G-NC by Sonneborn, Chemrex, Inc., 57-46 Flushing Ave., Maspeth, NY 11378, (800) 433-9517
3. Ferro-Grout by L&M Construction Chemicals, 14851 Calhoun Rd., Omaha, NB 68152, (800) 362-3331.
4. Vibra-Foil by A.C. Horn, Inc., Tamm Industries, 7405 Production Dr., Mentor, OH 44060, (800) 862-2667.

J. Shrink-Resistant Grout (Non-Staining): Factory-packaged, non-ferrous mortar grouting compound selected from the following:
1. Masterflow 713 by Master Builders, 23700 Chagrin Blvd., Cleveland, OH 44122 (800) 227-3350.
2. Sonogrout by Sonneborn, Chemrex, Inc., 57-46 Flushing Ave., Maspeth, NY 11378, (800) 433-9517.
3. Five Star Grout by Five Star Products, Inc., 425 Stillson Rd., Fairfield, CT 06430, (800) 243-2206.
4. Crystex by L&M Construction Chemicals, 14851 Calhoun Rd., Omaha, NB 68152, (800) 362-3331.
5. Non-Corrosive, Non-Shrink Grout by A.C. Horn, Inc., Tamm Industries, 7405 Production Dr., Mentor, OH 44060, (800) 862-2667.

2.05 FABRICATION, GENERAL

A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

B. Use materials of size and thickness indicated. If not indicated, use material of required size and thickness to produce adequate strength and durability for the intended use of the

finished product. Furnish suitable, compatible anchors and fasteners to support assembly.

C. Fabricate items to be exposed to view of material entirely free of surface blemish, including pitting, seam marks, roller marks, rolled trade names, and roughness. Remove surface blemishes by grinding or by welding and grinding prior to cleaning, treating, and finishing. Ease exposed edges to a radius of approximately 1/32 inch unless otherwise shown.
   1. Joints: Fabricate accurately for close fit. Weld exposed joints continuously unless otherwise indicated or approved. Dress exposed welds flush and smooth.

D. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm) unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

E. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

F. Form exposed work with accurate angles and surfaces and straight edges.

G. Weld corners and seams continuously to comply with the following:
   1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
   2. Obtain fusion without undercut or overlap.
   3. Remove welding flux immediately.
   4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

H. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.
   1. Provide flat washer under connections requiring raised bolt heads.
   2. Provide lock washer under nuts when through-bolting occurs.

I. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

J. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.

K. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

L. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors, 1/8 by 1-1/2 inches (3.2 by 38 mm), with a minimum 6-inch (150-mm) embedment and 2-inch (50-mm) hook, not less than 8 inches (200 mm) from ends and corners of units and 24 inches (600 mm) o.c., unless otherwise indicated.

2.06 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.

B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.

C. When required to be built into other Work, equip units with integral anchors spaced not more than 24 inches on center.

D. Hot dip galvanize exterior steel framing and supports and as indicated on the Drawings.

E. Galvanize miscellaneous framing and supports where indicated.

F. Prime miscellaneous framing and supports with zinc-rich primer where indicated.

2.07 MISCELLANEOUS STEEL TRIM

A. Unless otherwise indicated, fabricate units from steel shapes, plates, and bars of profiles shown with continuously welded joints and smooth exposed edges. Miter corners and use concealed field splices where possible.

B. Provide cutouts, fittings, and anchorages as needed to coordinate assembly and installation with other work.
   1. Provide with integrally welded steel strap anchors for embedding in concrete or masonry construction.

C. Galvanize and prime exterior miscellaneous steel trim.
   1. Prime exterior miscellaneous steel trim with zinc-rich primer.

2.08 LOOSE BEARING AND LEVELING PLATES

A. Provide loose bearing and leveling plates for steel items bearing on masonry or concrete construction. Drill plates to receive anchor bolts and for grouting.
   1. Furnish bearing plates where shown and where required for steel items bearing on masonry or concrete construction.

B. Galvanize bearing and leveling plates.
   1. Prime plates with zinc-rich primer.

2.09 LOOSE STEEL LINTELS

A. Fabricate loose steel lintels from steel angles and shapes of size indicated for openings and recesses in masonry walls and partitions at locations indicated. Fabricate in single lengths for each opening unless otherwise indicated. Weld adjoining members together to form a single unit where indicated.

B. Size loose lintels to provide bearing length at each side of openings equal to one-twelfth of clear span, but not less than 8 inches (200 mm) unless otherwise indicated.

C. Galvanize and prime loose steel lintels.
   1. Prime loose steel lintels located in exterior walls with zinc-rich primer.

2.10 GENERAL FINISH REQUIREMENTS

A. Finish metal fabrications after assembly.

B. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.11 STEEL AND IRON FINISHES

A. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A153/A153M for steel and iron hardware and with ASTM A123/A123M for other steel and iron products.
   1. In addition to specific items specified or noted to be galvanized, galvanize items attached to, embedded in, or supporting exterior masonry (including interior wythe of exterior masonry walls) and concrete Work.
   2. Unless otherwise specified or noted, items indicated to be galvanized shall receive a zinc coating by the hot-dip process, after fabrication, complying with the following:
      a. ASTM A 123 for plain and fabricated material, and assembled products.
      b. ASTM A 153 for iron and steel hardware.
   3. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.
   4. Galvanizing process shall include methods to minimize clogging of perforations in sheet metal fabrications, including but not limited to use of additives to the galvanizing metal, active fettling, vibration, and compressed air.
   5. Fabricator shall inspect galvanized fabrications and remove galvanizing material that clogs perforations in sheet metal by use of heat and wire brush.

B. Preparation for Shop Priming Galvanized Items: After galvanizing, thoroughly clean galvanized surfaces of grease, dirt, oil, flux, and other foreign matter, and treat with metallic phosphate process.

C. Shop prime iron and steel items not indicated to be galvanized unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.
   1. Shop prime with universal shop primer unless otherwise specified.

D. Preparation for Shop Painting: Thoroughly clean all steel surfaces. Remove oil, grease, and similar contaminants in accordance with SSPC SP-1 “Solvent Cleaning”. Remove loose mill scale, loose rust, weld slag and spatter, and other detrimental material in accordance with SSPC SP-2 “Hand Tool Cleaning”, SSPC SP-3 “Power Tool Cleaning”, or SSPC SP-7 “Brush-Off Blast Cleaning”.

1. Galvanized Items:
    a. Galvanized items which are to be finish painted under Section 099101 shall be rinsed in hot alkali or in an acid solution and then in clear water.
    b. Galvanized items to receive a powder coat painted finish shall be sweep blasted with an appropriate media to adequately roughen the surface without significantly decreasing the galvanized coating thickness.
    c. Welded and abraded areas of galvanized surfaces shall be wire brushed and repaired with a coating of cold galvanizing compound.
2. Apply one coat of shop paint to all steel surfaces except as follows:
    a. Do not shop paint steel surfaces to be field welded and steel to be encased in cast-in-place concrete.
    b. Apply 2 coats of shop paint, before assembly, to steel surfaces inaccessible after assembly or erection, except surfaces in contact.
    c. Do not paint galvanized items which are not to be finished painted.
3. Apply paint and compound on dry surfaces in accordance with the manufacturer's printed instructions, and to the following minimum thickness per coat:
    a. Shop Paint (General): 4.0 mils wet film.
    b. Shop Paint for Galvanized Steel: 3.0 mils wet film.
    c. Cold Galvanizing Compound: 2.0 mils dry film.
4. Stripe paint corners, crevices, bolts, welds, and sharp edges.
5. Galvanized radiator covers:
    a. Provide electro-static powder coat painted finish.

2.12 ALUMINUM FINISHES

A. As-Fabricated Finish: AA-M12.

B. Clear Anodic Finish: AAMA 611, Class I, AA-M12C22A41.

PART 3 EXECUTION

3.01 PREPARATION

A. Temporarily brace and secure items which are to be built into concrete, masonry, or similar construction.

B. Isolate non-ferrous metal surfaces to be permanently fastened in contact with ferrous metal surfaces, concrete, or masonry by coating non-ferrous metal surface with bituminous mastic, prior to installation.

3.02 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

C. Set loose items on cleaned bearing surfaces, using wedges or other adjustments as required. Solidly pack open spaces with bedding mortar or grout.

D. Field Welding: Comply with the following requirements:
   1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
   2. Obtain fusion without undercut or overlap.
   3. Remove welding flux immediately.
   4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

E. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.

F. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

G. Corrosion Protection: Coat concealed surfaces of aluminum that come into contact with grout, concrete, masonry, wood, or dissimilar metals with the following:
   1. Cast Aluminum: Heavy coat of bituminous paint.
   2. Extruded Aluminum: Two coats of clear lacquer.

3.03 INSTALLATION OF MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.

B. Anchor supports for securely to, and rigidly brace from, building structure.

3.04 INSTALLATION OF MISCELLANEOUS STEEL TRIM

A. Anchor to concrete construction to comply with manufacturer's written instructions.

3.05 INSTALLATION OF LOOSE BEARING AND LEVELING PLATES

A. Clean concrete and masonry bearing surfaces of bond-reducing materials, and roughen to improve bond to surfaces. Clean bottom surface of plates.

B. Set bearing and leveling plates on wedges, shims, or leveling nuts. After bearing members have been positioned and plumbed, tighten anchor bolts. Do not remove

wedges or shims but, if protruding, cut off flush with edge of bearing plate before packing with shrinkage-resistant grout. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.

3.06 REPAIRS

A. Touchup Painting:
   1. Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
      a. Apply by brush or spray to provide a minimum 2.0-mil (0.05-mm) dry film thickness.
   2. Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint are specified in Section 099123 "Interior Painting."

B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A780/A780M.

END OF SECTION

SECTION 055213

PIPE AND TUBE RAILINGS

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Steel guard railings for mechanical equipment platforms.

B. Related Requirements:
   1. Division 05 Section "Metal Fabrications" for miscellaneous metal fabrications.

1.02 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.03 ACTION SUBMITTALS

A. Product Data:
   1. Manufacturer's product lines of mechanically connected railings.
   2. Paint: Manufacturer’s name and printed product literature, including storage and application instructions.

B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
   1. nclude anchor bolt location plan (if any), erection drawings, and detail drawings of all components.
   2. Indicate shop and field welds by standard AWS welding symbols in accordance with AWS A2.4.

C. Samples for Initial Selection: For products involving selection of color, texture, or design, including mechanical finishes.

D. Samples for Verification: For each type of exposed finish required.
   1. Sections of each distinctly different linear railing member, including handrails, top rails, posts, and balusters, including finish.
   2. Fittings and brackets.

3. Assembled Sample of railing system, made from full-size components, including top rail, post, handrail, and infill. Sample need not be full height.
    a. Show method of connecting and finishing members at intersections.

E. Delegated Design Submittal: For railings, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.04 INFORMATIONAL SUBMITTALS

A. Qualification Data: For delegated design professional engineer.

B. Welding certificates.

C. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.

D. Product Test Reports: For tests on railings performed by a qualified testing agency, in accordance with ASTM E894 and ASTM E935.

E. Research Reports: For post-installed anchors, from ICC-ES or other qualified testing agency acceptable to authorities having jurisdiction.

1.05 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel in accordance with the following:
    1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."

B. Delegated Design: To be designed, documented and certified by a structural Engineer licensed to practice in New York State.

1.06 REFERENCES

A. Except as shown or specified otherwise, the Work of this Section shall meet the requirements of the following:
    1. Design, Fabrication, and Erection: “Specification for Structural Steel Buildings, Allowable Stress Design and Plastic Design” adopted by the American Institute of Steel Construction, June 1, 1989 (AISC Specification).
        a. Design and Fabrication of Cold-Formed Shapes: “Specification for the Design of Cold-Formed Steel Structural Members”, by the American Iron and Steel Institute (AISI Specification).
    2. Welding: “Structural Welding Code - Steel, AWS D1.1”, or “Structural Welding Code - Sheet Steel, AWS D1.3”, by the American Welding Society (AWS Codes).
    3. High Strength Bolting: “Specification for Structural Joints Using ASTM A325 or A490 Bolts, August 14, 1980”, by the Engineering Foundation’s Research Council on Riveted and Bolted Structural Joints (Specification for Structural Joints).

1.07 DELIVERY, STORAGE, AND HANDLING

A. Protect mechanical finishes on exposed surfaces of railings from damage by applying a strippable, temporary protective covering before shipping.

1.08 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with railings by field measurements before fabrication.

PART 2 PRODUCT

2.01 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, to design railings, including attachment to building construction.

B. Structural Performance: Railings, including attachment to building construction, withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
   1. Top Rails of Guards:
      a. Uniform load of 50 lbf/ ft. (0.73 kN/m) applied in any direction.
      b. Concentrated load of 200 lbs (0.89 kN) applied in any direction, within 2-inches of the top edge, at any point along the top rail.
         1) When the 200 lbs is applied in the downward direction, the top rail of the of the guardrail system must not deflect to a height of less than 39-inches above the walking-working surface.

      c. Uniform and concentrated loads need not be assumed to act concurrently.
   2. Intermediate guard rails and posts:
      a. Uniform load of 50 lbf/ ft. (0.73 kN/m) applied in any direction.
      b. Concentrated load of 150 lbs (0.667 kN) applied in any direction.

C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
   1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

2.02 METALS, GENERAL

A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.

B. Brackets, Flanges, and Anchors: Cast or formed metal of same type of material and finish as supported rails unless otherwise indicated.

2.03 STEEL RAILINGS

A. Pipe: ASTM A53/A53M, Type F or Type S, Grade A, Standard Weight (Schedule 40), unless another grade and weight are required by structural loads.

B. Plates, Shapes, and Bars: ASTM A36/A36M.

2.04 FASTENERS

A. Fastener Materials:
   1. Ungalvanized-Steel Railing Components: Plated steel fasteners complying with ASTM F1941/F1941M, Class Fe/Zn 5 for zinc coating.
   2. Finish exposed fasteners to match appearance, including color and texture, of railings.

B. Fasteners for Anchoring Railings to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction and capable of withstanding design loads.

C. Fasteners for Interconnecting Railing Components:
   1. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless exposed fasteners are unavoidable or are the standard fastening method for railings indicated.

2.05 MISCELLANEOUS MATERIALS

A. Welding Rods and Bare Electrodes: Select in accordance with AWS specifications for metal alloy welded.

B. Shop Primers: Provide primers that comply with Division 09 Section "Construction Painting."

C. Intermediate Coats and Topcoats: Provide products that comply with Division 09 Section “Construction Painting."
   1. Provide paint system Type IAL-3

2.06 FABRICATION

A. General Guard Rail Requirements:
   1. Fabricate stair railings and handrails of 1-1/2 inch (nominal) diameter steel pipe, unless otherwise shown.
   2. Unless otherwise shown, railings shall consist of top rail and intermediate rails, with posts spaced not more than 4 feet on center. Close ends of rails which do not terminate with a flange or continuous return.
      a. Top of guard rail: continuous, minimum 42” above height of adjacent walking or worksurface

b. Horizontal intermediate rails: Equally spaced, as required to prevent the passage of a sphere 21-inches in diameter unless otherwise indicated on the Drawings
c. Bottom rail: 2-inches above mechanical platform perimeter angle.
d. Bends and corner joints: inside diameter 1 1/2" radiused bends and corner joints.
e. Configuration: Three-sided enclosure of the mechanical platform.
1) One side removable, as required to access mechanical equipment. Contractor to coordinate removable portion with service requirements of guardrail protected mechanical unit.
f. Anchor posts to steel with steel flanges, angle type or floor type as required by conditions, welded to posts and bolted to the steel supporting members.

B. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage, but not less than that required to support structural loads.

C. Shop assemble railings to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations.
1. Clearly mark units for reassembly and coordinated installation.
2. Use connections that maintain structural value of joined pieces.

D. Cut, drill, and punch metals cleanly and accurately.
1. Remove burrs and ease edges to a radius of approximately 1/32 inch (1 mm) unless otherwise indicated.
2. Remove sharp or rough areas on exposed surfaces.

E. Form work true to line and level with accurate angles and surfaces.

F. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.

G. Connections: Fabricate railings with welded connections unless otherwise indicated.
1. Provide non welded, removable type anchors at removable section(s) of the guardrail assembly.

H. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.
1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove flux immediately.
4. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Finish #3 welds; utilitarian appearance not subject to view, partially dressed weld with spatter removed.

I. Nonwelded Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.
1. Fabricate splice joints for field connection, using an epoxy structural adhesive, if this is manufacturer's standard splicing method.

J. Form changes in direction as follows:
   1. As detailed.
   2. By radius bends of radius indicated or by inserting prefabricated elbow fittings of radius indicated.

K. Bend members in jigs to produce uniform curvature for each configuration required. Maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.

L. Close exposed ends of hollow railing members with prefabricated cap and end fittings of same metal and finish as railings.

M. Provide wall returns at ends of wall-mounted handrails unless otherwise indicated. Close ends of returns unless clearance between end of rail and wall is 1/4 inch (6 mm) or less.

N. Brackets, Flanges, Fittings, and Anchors: Provide miscellaneous fittings, and anchors to interconnect railing members to other work unless otherwise indicated.

O. For removable railing posts, fabricate slip-fit sockets from stainless steel tube or pipe whose ID is sized for a close fit with posts; limit movement of post without lateral load, measured at top, to not more than one-fortieth of post height.
   1. Provide socket covers designed and fabricated to resist being dislodged.
   2. Provide chain with eye, snap hook, and staple across gaps formed by removable railing sections at locations indicated. Fabricate from same metal as railings.

P. Toe Boards: Provide continuous perimeter 4” x 6” long leg horizontal steel angle toe board full perimeter of platform.

2.07 STEEL FINISHES

A. Preparation for Shop Priming: Prepare uncoated ferrous-metal surfaces to comply with SSPC-SP 3.

B. Primer Application: Apply shop primer to prepared surfaces of railings unless otherwise indicated. Comply with requirements in SSPC-PA 1 for shop painting. Primer need not be applied to surfaces to be embedded in concrete or masonry.
   1. Shop prime uncoated railings with primers specified in Division 09 Section "Construction Painting".

C. Intermediate and top coat paint application: Comply with Division 09 Section “Construction Painting”.

PART 3 EXECUTION

3.01 EXAMINATION

A. Mechanical equipment platform assembly, including toe board, verify that locations posts and anchorages are acceptable for installation.

1. Commencement of installation shall indicate acceptance of existing and field conditions.

3.02 INSTALLATION, GENERAL

A. Perform cutting, drilling, and fitting required for installing railings.
   1. Fit exposed connections together to form tight, hairline joints.
   2. Install railings level, plumb, square, true to line; without distortion, warp, or rack.
   3. Set railings accurately in location, alignment, and elevation; measured from established lines and levels.
   4. Do not weld, cut, or abrade surfaces of railing components that are coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
   5. Set posts plumb within a tolerance of 1/16 inch in 3 feet (2 mm in 1 m).
   6. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet (6 mm in 3.5 m).

B. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.
   1. Coat concealed surfaces of aluminum that will be in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

C. Adjust railings before anchoring to ensure matching alignment at abutting joints.

D. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.

E. Install railing gates level, plumb, and secure for full opening without interference.
   1. Attach hardware using tamper-resistant or concealed means.
   2. Adjust hardware for smooth operation.

3.03 RAILING CONNECTIONS

A. Nonwelded Connections: Use mechanical or adhesive joints for permanently connecting railing components. Use wood blocks and padding to prevent damage to railing members and fittings. Seal recessed holes of exposed locking screws, using plastic cement filler colored to match finish of railings.

B. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article, whether welding is performed in the shop or in the field.

C. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve, extending 2 inches (50 mm) beyond joint on either side; fasten internal sleeve securely to one side; and locate joint within 6 inches (150 mm) of post.

3.04 ANCHORING POSTS

A. Anchor posts to metal surfaces with flanges, angle type, or floor type, as required by conditions, connected to posts and to metal supporting members as follows:
   1. For steel railings, weld flanges to post and bolt to metal supporting surfaces, unless otherwise specified by delegated design requirements.

3.05 REPAIR

A. Touchup Painting:
   1. Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
      a. Apply by brush or spray to provide a minimum 2.0-mil (0.05-mm) dry film thickness.
   2. Cleaning and touchup painting of field welds, bolted connections, and abraded areas of shop paint to comply with Division 09 Section "Construction Painting."

3.06 PROTECTION

A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.

B. Restore finishes damaged during installation and construction period, so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

END OF SECTION

SECTION 061000

ROUGH CARPENTRY

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Wood products.
   2. Wood-preservative-treated lumber.
   3. Miscellaneous lumber.

1.02 DEFINITIONS

A. Boards or Strips: Lumber of less than 2 inches nominal (38 mm actual) size in least dimension.

B. Dimension Lumber: Lumber of 2 inches nominal (38 mm actual) size or greater but less than 5 inches nominal (114 mm actual) size in least dimension.

C. Lumber grading agencies, and abbreviations used to reference them, include the following:
   1. NeLMA: Northeastern Lumber Manufacturers' Association.
   2. NLGA: National Lumber Grades Authority.
   3. SPIB: The Southern Pine Inspection Bureau.
   4. WCLIB: West Coast Lumber Inspection Bureau.
   5. WWPA: Western Wood Products Association.

1.03 REFERENCES

A. Standards: Comply with the following unless otherwise specified or indicated on the Drawings:
   1. Lumber: American Softwood Lumber Standard PS 20 by the U.S. Department of Commerce. Comply with applicable provisions for each indicated use.
   2. Plywood: Product Standard PS 1 for Softwood Plywood, Construction and Industrial by the U.S. Department of Commerce.
   3. Plywood Installation: APA Design/Construction Guide, Residential & Commercial by the American Plywood Association (APA)..
   4. Grading Requirements:
      a. Douglas Fir, Hem-Fir, Idaho White Pine, and other Western Woods: Western Wood Products Association (WWPA) or West Coast Lumber Inspection Bureau (WCLIB)..
      b. Southern Pine: Southern Pine Inspection Bureau (SPIB).
      c. Redwood: Redwood Inspection Service (RIS).

d. Spruce-Pine-Fir: National Lumber Grades Authority (NLGA).

5. Preservative Treatment: American Wood Preservers' Association (AWPA) and American Wood Preservers Bureau (AWPB) Standards, quality control methods, and inspection requirements.
6. Fire-Retardant Treatment: American Wood Preservers' Association (AWPA) Standards.
7. Framing Installation: American Forest and Paper Association (AFPA).

1.04 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
   1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
   2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Include physical properties of treated materials based on testing by a qualified independent testing agency.
   3. For fire-retardant treatments, include physical properties of treated lumber both before and after exposure to elevated temperatures, based on testing by a qualified independent testing agency in accordance with ASTM D5664.
   4. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.

1.05 INFORMATIONAL SUBMITTALS

A. Material Certificates:
   1. For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.
   2. For preservative-treated wood products. Indicate type of preservative used and net amount of preservative retained.

1.06 QUALITY ASSURANCE

A. Mill and Producers Mark: Each piece of lumber and plywood shall be grade stamped indicating type, grade, mill, and grading agency certified by the Board of Review of the American Lumber Standards Committee. Mark shall appear on unfinished surface, or ends of pieces with finished surfaces.
   1. Pressure Preservative Treated Material: Accredited agency quality mark, on each piece of wood, indicating treatment.

a. Pressure treated wood shall bear a stamp or tag indicating the name of the treating company, year treated, preservative used, the level of treatment, intended use (appropriate AWPA Standard), and logo of inspecting company,

2. Fire-Retardant Treated Material: Accredited testing agency mark, on each piece of wood, indicating compliance with the fire hazard classification.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Stack wood products flat with spacers beneath and between each bundle to provide air circulation. Protect wood products from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.
   1. Store lumber a minimum of 6 inches off the ground, in a dry, well-ventilated place, protected from the weather.

B. Keep materials dry.

PART 2 PRODUCTS

2.01 WOOD PRODUCTS

A. Lumber: Comply with DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, comply with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Grade lumber by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
   1. Factory mark each piece of lumber with grade stamp of grading agency.
   2. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry wood products.
   3. Dress lumber, S4S, unless otherwise indicated.

B. Maximum Moisture Content:
   1. General: Furnish seasoned dimension lumber dressed to nominal sizes indicated with 19 percent maximum moisture content at time of dressing, marked “S-DRY”. Comply with dry size requirements of PS 20, unless otherwise indicated.

   2. Dimension Lumber: 15 percent for 2-inch nominal (38-mm actual) thickness or less; 19 percent for more than 2-inch nominal (38-mm actual) thickness unless otherwise indicated.

2.02 WOOD-PRESERVATIVE-TREATED LUMBER

A. Preservative Treatment by Pressure Process: AWPA U1, Use categories as follows:
   1. UC3A (Commodity Specification A): Coated sawn products in exterior construction not in contact with ground but exposed to all weather cycles including intermittent wetting. Include all rough carpentry.

2. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium. Do not use inorganic boron (SBX) for sill plates.

B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or that does not comply with requirements for untreated material.

C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
1. For exposed lumber indicated to receive a stained or natural finish, mark end or back of each piece.

D. Application: Treat items indicated on Drawings, and the following:]
1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, exterior wall reconstruction, flashing, vapor barriers, and waterproofing.
2. Wood sills, sleepers, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.
3. Wood framing members that are less than 18 inches (460 mm) above the ground in crawlspaces or unexcavated areas.

2.03 FIRE-RETARDANT-TREATED LUMBER

A. General: Where fire-retardant-treated materials are indicated, materials are to comply with requirements in this article, that are acceptable to authorities having jurisdiction, and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.

B. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Products with a flame-spread index of 25 or less when tested in accordance with ASTM E84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2 m) beyond the centerline of the burners at any time during the test.
1. Treatment is not to promote corrosion of metal fasteners.
2. Exterior Type: Treated materials are to comply with requirements specified above for fire-retardant-treated lumber and plywood by pressure process after being subjected to accelerated weathering in accordance with ASTM D2898. Use for exterior locations and where indicated.
3. Interior Type A: Treated materials are to have a moisture content of 28 percent or less when tested in accordance with ASTM D3201/D3201M at 92 percent relative humidity. Use where exterior type is not indicated.
4. Design Value Adjustment Factors: Treated lumber is to be tested according to ASTM D5664 and design value adjustment factors are to be calculated according to ASTM D6841. For enclosed roof framing, framing in attic spaces, and where high temperature fire-retardant treatment is indicated, provide material with adjustment factors of not less than 0.85 modulus of elasticity and 0.75 for extreme fiber in bending for Project's climatological zone.

C. Kiln-dry lumber after treatment to maximum moisture content of 19 percent.

D. Identify fire-retardant-treated wood with appropriate classification marking of qualified testing agency and other information required by authorities having jurisdiction.
   1. For exposed lumber indicated to receive a stained or natural finish, mark end or back of each piece.

E. For exposed items indicated to receive a stained or natural finish, chemical formulations are not to bleed through, contain colorants, or otherwise adversely affect finishes.

F. Application: Treat items indicated on Drawings

2.04 MISCELLANEOUS LUMBER

A. Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
   1. Blocking.
   2. Nailers.
   3. Cants.
   4. Furring.
   5. Grounds.

B. Dimension Lumber Items: Construction or No. 2 grade lumber of the following species:
   1. Nailers and Blocking: Douglas Fir, Hem-Fir, Idaho White Pine, Southern Pine, or Spruce-Pine-Fir.
   2. Furring, cants, and grounds: Spruce, Hem-Fir, or Spruce-Pine-Fir except Douglas Fir or Southern Pine for furring required to receive preservative treatment.

2.05 MISCELLANEOUS MATERIALS

A. Underlayment Patching Compound: Hardsetting, quicksetting type with latex or polyvinyl acetate binder.

B. Asphalt Felt: Asphalt-saturated felt, No. 15, without perforations, complying with ASTM D 226.

C. Rosin Paper: Commercial, rosin-sized building paper, 0.010 inch thick.

2.06 FASTEERS AND ANCHORING DEVICES

A. Select and furnish items of type, size, style, grade, and class as required for secure installation of the Work. Items shall be hot dipped galvanized for exterior locations, high humidity locations, and for use with treated wood. Unless shown or specified otherwise, comply with the following:
   1. Nails and Staples: FS FF-N-105.
   2. Wood Screws: FS FF-S-111..
   3. Bolts and Studs: FS FF-B-575.
   4. Nuts: FS FF-N-836.

5. Washers: FS FF-W-92.
6. Lag Bolts or Lag Screws: FS FF-B-561.
7. Masonry Anchoring Devices: Expansion shields, masonry nails and drive screws: FS FF-S-325.
8. Toggle Bolts: Cadmium or zinc plated tumble - wing type; FS FF-B-588.
9. Bar or Strap Anchors: ASTM A575 carbon steel bars.
10. Wall Plugs: Corrugated type, galvanized steel, 24 USS gage min, not less than 2 inches wide x 2-1/2 inches deep.
11. Expansion Anchors: G185 Hot dipped galvanized steel wedge anchors, FS FF-S-325, Group II, Type 4, Class 1
12. Metal Hangers and Framing Anchors: Size and type for intended use, galvanized finish, manufacturer's recommended fasteners.

PART 3 EXECUTION

3.01 INSTALLATION

A. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.

B. Set work to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry accurately to other construction. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.

C. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, siding, thermally broken zee girts, sheathing and trim.
1. Provide metal clips for fastening gypsum board or lath at corners and intersections where framing or blocking does not provide a surface for fastening edges of panels. Space clips not more than 16 inches (406 mm) o.c.

D. Provide fire blocking in furred spaces, stud spaces, and other concealed cavities as indicated and as follows:
1. Fire block furred spaces of walls, at each floor level, at ceiling, and at not more than 96 inches (2438 mm) o.c. with solid wood blocking or noncombustible materials accurately fitted to close furred spaces.
2. Fire block concealed spaces of wood-framed walls and partitions at each floor level, at ceiling line of top story, and at not more than 96 inches (2438 mm) o.c. Where fire blocking is not inherent in framing system used, provide closely fitted solid wood blocks of same width as framing members and 2-inch nominal (38-mm actual) thickness.
3. Fire block concealed spaces between floor sleepers with same material as sleepers to limit concealed spaces to not more than 100 sq. ft. (9.3 sq. m) and to solidly fill space below partitions.
4. Fire block concealed spaces behind combustible cornices and exterior trim at not more than 20 feet (6 m) o.c.

E. Sort and select lumber so that natural characteristics do not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.

F. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
   1. Use inorganic boron for items that are continuously protected from liquid water.
   2. Use copper naphthenate for items not continuously protected from liquid water.

G. Where wood-preservative-treated lumber is installed adjacent to metal decking, install continuous flexible flashing separator between wood and metal decking.

H. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
   1. Table 2304.10.1, "Fastening Schedule," in ICC's International Building Code (IBC).
   2. Table R602.3(1), "Fastener Schedule for Structural Members," and Table R602.3(2), "Alternate Attachments," in ICC's International Residential Code for One- and Two-Family Dwellings.

I. Securely attach roofing nailers to substrates by anchoring and fastening to withstand bending, shear, or other stresses imparted by Project wind loads and fastener-resistance loads as designed in accordance with ASCE/SEI 7.

J. Use steel common nails unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood. Drive nails snug but do not countersink nail heads unless otherwise indicated.
   1. Countersink fasteners if they interfere with the proper installation of items to be attached to the nailers and blocking.

K. Space fasteners equally at not more than 16 inches on center and 4 inches from each end of each member, unless noted otherwise. Secure the nailers and blocking with the following types of fasteners:
   1. To Cast-In-Place Concrete, Solid Concrete Masonry Units, and Brick: Use expansion anchors or self-threading masonry screws.
   2. To Faces of Hollow Concrete Masonry Units: Use toggle bolts.
   3. To Tops of Hollow Concrete Masonry Units: Use anchor bolts extending to course below, embedded in 3000 psi concrete filled cores.
   4. To Wood: Use nails or screws.
   5. To Metal: Use bolts or self-tapping screws.

3.02 INSTALLATION OF WOOD BLOCKING AND NAILERS

A. Install where indicated and where required for screeding or attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.

1. Install nailers and blocking true to line and plane within a tolerance of 1/8 inch in 10 feet.
2. Fit joints neatly with no more than 1/16 inch space between abutting members.
3. Do not install nailers or blocking across bonding expansion joints.
4. Attach nailers and blocking securely as required to properly support the items that will be attached to them.

B. Attach wood blocking to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.

C. Attach wood roofing nailers securely to substrate to resist the designed outward and upward wind loads indicated on Drawings and in accordance with ANSI/SPRI ED-1, Tables A6 and A7.

3.03 INSTALLATION OF WOOD FURRING

A. Install level and plumb with closure strips at edges and openings. Shim with wood as required for tolerance of finish work.

END OF SECTION

SECTION 061600

SHEATHING

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes:
   1. Wall sheathing.
   2. Roof sheathing.
   3. Parapet sheathing.
   4. Composite nail base insulated roof sheathing.
   5. Subflooring.
   6. Underlayment.
   7. Sheathing joint and penetration treatment.

B. Related Requirements:
   1. Section 061000 "Rough Carpentry" for plywood backing panels.

1.03 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.04 ACTION SUBMITTALS

A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.

B. Manufacturer’s installation instructions shall be provided along with product data.

C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).

D. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
   1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements. Indicate type of preservative used and net amount of preservative retained.

2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated plywood complies with requirements. Include physical properties of treated materials.
3. For fire-retardant treatments, include physical properties of treated plywood both before and after exposure to elevated temperatures, based on testing by a qualified independent testing agency according to ASTM D5516.

E. Shop Drawings: For air-barrier and water-resistant glass-mat gypsum sheathing assemblies.
1. Show locations and extent of sheathing, accessories, and assemblies specific to Project conditions.
2. Include details for sheathing joints and cracks, counterflashing strips, penetrations, inside and outside corners, terminations, and tie-ins with adjoining construction.
3. Include details of interfaces with other materials that form part of air barrier.

1.05 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Certificates: From air-barrier and water-resistant glass-mat gypsum sheathing manufacturer, certifying compatibility of sheathing accessory materials with Project materials that connect to or that come in contact with the sheathing.

C. Product Test Reports: For each air-barrier and water-resistant glass-mat gypsum sheathing assembly, indicating compliance with specified requirements, for tests performed by a qualified testing agency.

D. Evaluation Reports: For the following, from ICC-ES:
1. Fire-retardant-treated plywood.

E. Field quality-control reports.

1.06 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer of air-barrier and water-resistant glass-mat gypsum sheathing.
1. Installer shall be licensed by ABAA according to ABAA's Quality Assurance Program and shall employ ABAA-certified installers and supervisors on Project.

B. Testing Agency Qualifications:
1. For testing agency providing classification marking for fire-retardant-treated material, an inspection agency acceptable to authorities having jurisdiction that periodically performs inspections to verify that the material bearing the classification marking is representative of the material tested.

C. Mill and Producers Mark: Each piece of lumber and plywood shall be grade stamped indicating type, grade, mill, and grading agency certified by the Board of Review of the

American Lumber Standards Committee. Mark shall appear on unfinished surface, or ends of pieces with finished surfaces.

1. Pressure Preservative Treated Material: Accredited agency quality mark on each piece of wood indicating treatment.
2. Fire-Retardant Treated Material: Accredited testing agency mark on each piece of wood indicating compliance with the fire hazard classification.

1.07 PRECONSTRUCTION TESTING

A. Preconstruction Testing Service: Owner Director's Representative will engage a qualified testing agency to perform preconstruction testing on field mockups.

B. Mockup Testing: Air-barrier and water-resistant glass-mat gypsum sheathing assemblies shall comply with performance requirements indicated, as evidenced by reports based on mockup testing by a qualified testing agency.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Stack panels flat with spacers beneath and between each bundle to provide air circulation. Protect sheathing from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Fire-Resistance Ratings: As tested according to ASTM E119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Fire-Resistance Ratings: Indicated by design designations from UL's "Fire Resistance Directory" or from the listings of another qualified testing agency.

2.02 WOOD PANEL PRODUCTS

A. Thickness: As needed to comply with requirements specified, but not less than thickness indicated.

B. Factory mark panels to indicate compliance with applicable standard.

2.03 FIRE-RETARDANT-TREATED PLYWOOD

A. General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this article that are acceptable to authorities having jurisdiction and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.

1. Interior Type A: Treated materials shall have a moisture content of 28 percent or less when tested according to ASTM D3201/D3201M at 92 percent relative humidity. Use where exterior type is not indicated.

2. Design Value Adjustment Factors: Treated lumber plywood shall be tested according to ASTM D5516 and design value adjustment factors shall be calculated according to ASTM D6305. Span ratings after treatment shall be not less than span ratings specified.

B. Kiln-dry material after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or does not comply with requirements for untreated material.

C. Identify fire-retardant-treated plywood with appropriate classification marking of qualified testing agency.

D. Application: Treat all plywood unless otherwise indicated.

2.04 ROOF SHEATHING

A. Plywood Sheathing: DOC PS 1, Exposure 1, Structural I sheathing.
1. Span Rating: Not less than [32/16].
2. Nominal Thickness: Not less than 1/2 inch1/2 inch (13 mm).

2.05 FASTENERS

A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
1. For roof sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A153/A153M.

B. Screws for Fastening Wood Structural Panels to Cold-Formed Metal Framing: ASTM C954, except with wafer heads and reamer wings, length as recommended by screw manufacturer for material being fastened.
1. For steel framing from 0.033 to 0.112 inch0.033 to 0.112 inch (0.84 to 2.84 mm) thick, use screws that comply with ASTM C954.

PART 3 EXECUTION

3.01 INSTALLATION, GENERAL

A. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three support members.

B. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated.

C. Securely attach to substrate by fastening as indicated, complying with the following:
1. Table 2304.9.1, "Fastening Schedule," in the ICC's International Building Code.

D. Coordinate roof sheathing installation with flashing and joint-sealant installation so these materials are installed in sequence and manner that prevent exterior moisture from passing through completed assembly.

3.02 WOOD STRUCTURAL PANEL INSTALLATION

A. General: Comply with applicable recommendations in APA Form No. E30, "Engineered Wood Construction Guide," for types of structural-use panels and applications indicated.

B. Fastening Methods: Fasten panels as indicated below:
   1. Roof Sheathing:
      a. Screw to cold-formed metal framing.
      b. Space panels 1/8 inch1/8 inch (3 mm) apart at edges and ends.

C. Apply fasteners so heads bear tightly against face of sheathing, but do not cut into facing.

D. Horizontal Installation: Install sheathing with V-grooved edge down and tongue edge up. Interlock tongue with groove to bring long edges in contact with edges of adjacent panels without forcing. Abut ends over centers of studs, and stagger end joints of adjacent panels not less than one stud spacing. Attach at perimeter and within field of panel to each stud.
   1. Space fasteners approximately 8 inches8 inches (200 mm) o.c. and set back a minimum of 3/8 inch3/8 inch (9.5 mm) from edges and ends of panels.

E. Seal sheathing joints according to sheathing manufacturer's written instructions.

3.03 FIELD QUALITY CONTROL

A. ABAA Quality Assurance Program: Perform examinations, preparation, installation, testing, and inspections under ABAA's Quality Assurance Program.

B. Testing and Inspecting Agency: Owner Director’s Representative will engage a qualified testing agency to perform tests and inspections.

C. Tests: As determined by testing agency from among the following tests:
   1. See Section 014000 "Quality Requirements" for retesting and reinspecting requirements and Section 017300 "Execution" for requirements for correcting the Work.

D. Prepare test and inspection reports.

END OF SECTION

SECTION 066000

SOLID PLASTIC FABRICATIONS

PART 1 GENERAL

1.01 SUMMARY

A. Included in this Section
   1. Solid Surfacing Material

1.02 SUBMITTALS

A. Waiver of Submittals: The "Waiver of Certain Submittal Requirements" in Section 013300 does not apply to this Section.

B. Shop Drawings: Show fabrication details and connection to adjacent Work.

C. Product Data: Catalog sheets, specifications and installation instructions.

D. Samples:
   1. Solid Plastic Panels: 12 inch square piece; each color, pattern, and finish.
      a. Color Samples: Manufacturer's standard colors, patterns, and finishes.

E. Quality Control Submittals:
   1. Qualifications Certificates: Certified statement by technical representative of the panel manufacturer that the fabricator and installer are certified or approved.

F. Contract Closeout Submittals:
   1. Maintenance Data: Deliver 2 copies, covering the installed products, to the Director's Representative.

1.03 QUALITY ASSURANCE

A. Qualifications: The fabrication and installation of the Work of this Section shall be performed by a fabricator and installer certified or approved by the solid plastic manufacturer.

1.04 PROJECT CONDITIONS

A. Do not install the Work of this Section until the walls and ceilings of the spaces to receive the Work have been finished.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Aristech Acrylics, LLC, 1945 Highway 304, Belen, NM 87002, (800) 866-8324, www.avonitesurfaces.com.

B. DuPont Surfaces, Chestnut Run Plaza, P.O. Box 80721, Wilmington, DE 19880-0721, (800) 436-6072, www.corian.com.

C. Formica Corp., 10155 Reading Rd., Cincinnati, OH 45241, (800) 367-6422, www.formica.com.

D. The Swan Corp., One City Centre, Suite 2300, St. Louis, MO 63101, (800) 325-7008, www.theswancorp.com.

E. Wilsonart International, Inc., 2400 Wilson Pl. P.O. Box 6110, Temple, TX 76503-6110, (800) 433-3222, www.wilsonart.com.

2.02 MATERIALS

A. Solid Plastic Panels: Homogeneous solid sheets of filled plastic resin complying with ISSFA-2. Provide products by one, but not limited to, of the following:
   1. Corian by DuPont Surfaces
   2. Formica Solid Surfacing by Formica Corp
   3. Gibraltar Solid Surfacing by Wilsonart International.
      a. Color and Pattern: To match Corian Glacier White.
      b. Adhesives, Fillers, and Sealants: Panel manufacturer's standard or recommended materials.

2.03 FABRICATION

A. Shop fabricate components to greatest extent possible to sizes and shapes indicated, in accordance with approved shop drawings.

B. Form joints between components using joint adhesive, without conspicuous joints.

C. Provide shop cutouts for fittings and accessories as indicated on the Drawings.

D. Cut and finish component edges with clean, sharp returns. Rout radii and contours to template. Repair or replace defective and inaccurate materials.

E. Fabrication Tolerances: Plus or minus 1/16 inch overall.

F. At all solid surfacing components fabricate and finish as required to provide a smooth, flush and seamless monolithic appearance. Hairline or otherwise visible joints in solid surfacing material assemblies will not be accepted.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install the Work of this Section in accordance with the manufacturer's printed instructions, approved shop drawings, and as follows:
   1. Install components plumb and level, scribed to adjacent surfaces.
   2. Form field joints using adhesive, with joints inconspicuous in finished work.
   3. Provide back splashes and end splashes in locations indicated.
   4. Installation Tolerances: Plus or minus 1/8 inch overall.
   5. Keep components clean during installation.

3.02 CLEANING

A. After installation, clean exposed surfaces to remove dirt, adhesive, sealant, and other blemishes. Comply with panel manufacturer's printed cleaning instructions.

B. Repair damaged and defective work, where possible, to eliminate functional and visual defects; where not possible to repair, replace. Adjust joinery for uniform appearance

3.03 PROTECTION

A. Apply heavy kraft paper or other heavy protective coating approved by the Director's Representative, masked in place to prevent surface damage.

END OF SECTION

SECTION 070150

MODIFICATIONS TO EXISTING WARRANTIED ROOF SYSTEM

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Rough Carpentry: Section 061000.

B. Sheet Metal Flashing and Trim: Section 076200.

C. Roof Accessories: Section 077200.

1.02 SYSTEM DESCRIPTION

A. The Work of this Section consists of minor modifications to the existing warrantied roof system.
   1. Existing Roofing System: Adhered PVC with decorative trim (Sarnafill Roofing membrane, insulation and accessories).
   2. Existing Roof System Manufacturer: Sika/Sarnafill

B. Scope of Work: Modifications to the existing roofing system as required for the installation of roof curbs, mechanical equipment and associated roof penetrations.

1.03 SUBMITTALS

A. Waiver of Submittals: The "Waiver of Certain Submittal Requirements" in Section 013300 does not apply to this Section.

B. Submittals Package: Submit the product data and quality control submittals specified below at the same time in one complete package. Partial submittal will not be considered.

C. Product Data:
   1. Membrane manufacturer's installation instructions and details for the Work of this Section.
   2. Manufacturer's data sheets for all materials required for the Work of this Section.

D. Quality Control Submittals:
   1. Applicator's Certification: Letter from the existing roof system manufacturer certifying that the applicator is licensed or approved to perform the Work of this Section.
   2. Material Certification: Letter from the existing roof system manufacturer certifying that the materials used for the Work of this Section are approved for use with the existing system.

3. Warranty Certification: Letter from the existing roof system manufacturer certifying that the Work of this Section will not modify or void the existing warranty.

1.04 QUALITY ASSURANCE

A. Applicator's Qualifications: The Work of this Section shall be performed by an applicator licensed or approved by the existing roof system manufacturer.

B. Material Certification: The materials used for the Work of this Section shall be approved by the existing roof system manufacturer.

C. Warranty Certification: The Work of this Section shall not modify or void the existing roof system warranty.
   1. Submit a copy of the Contract Documents to the existing roof system manufacturer for review and approval.

D. Pre-Installation Conference: At the discretion of the Director's Representative, a conference may be called before the Work is scheduled to commence for the purpose of reviewing the Drawings and the Specifications and discussing requirements for the Work. The conference shall be attended by the Contractor, the authorized roofing applicator and if necessary, a representative of the existing roof system manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to the site in the manufacturer's labeled, unbroken containers.

B. Storage and Handling: Store materials in a dry, well ventilated place protected from the weather.
   1. Volatile liquids shall be stored in a separate storage building or trailer, or removed from the Site at the end of each work day.
   2. Store volatile liquids at temperatures recommended by the manufacturer.
   3. Store adhesives at temperatures between 60 degrees F and 80 degrees F.

1.06 PROJECT CONDITIONS

A. Do not execute the Work of this Section unless the Director's Representative is present, unless otherwise directed in writing.

B. Do not execute the Work of this Section unless the substrate is dry and free of dirt and debris.

C. Moisture Protection:
   1. Cover, seal or otherwise protect the roof and flashings so that water cannot accumulate or flow under completed portions. When and where necessary to accomplish this, provide temporary water cut-offs in accordance with the membrane manufacturer's written specifications.
   2. Limit the removal of existing materials to areas that can be completely re-roofed or temporarily protected within the same day.

D. Do not smoke or use open flames near volatile materials.

PART 2 PRODUCTS

2.01 MATERIALS

A. Provide all the materials required to complete the Work of this Section. All materials shall be approved by the existing roof system manufacturer.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install the Work of this Section as shown on the Contract Drawings and in accordance with the existing roof system manufacturer's written instructions.
   1. Install the Work of this Section so that the watertight integrity of the existing system is not compromised.

END OF SECTION

SECTION 076200

SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Steep-slope roof sheet metal fabrications.
   2. Miscellaneous sheet metal fabrications.

B. Related Requirements:
   1. Rough Carpentry: Section 061000
   2. Modifications To Existing Warrantied Roof System: Section 070150
   3. Sheet Metal Flashing and Trim: Section 076200
   4. Roofing Accessories: Section 077200
   5. Joint Sealants: Section 079200

1.02 REFERENCES

A. SMACNA: Sheet Metal and Air Conditioning Contractors' National Association, 4201 Lafayette Center Dr., Chantilly, VA 20151-1209, (703) 803-2980, www.smacna.org.

B. ASTM: ASTM International, 100 Barr Harbor Dr., PO Box C700, West Conshohocken, PA, 19428-2959, (610) 832-9500, www.astm.org.

1.03 SYSTEM DESCRIPTION

A. Metal flashings, trim and related accessories associated with new rooftop mounted curbs and mechanical equipment.

1.04 COORDINATION

A. Coordinate sheet metal flashing and trim layout and seams with sizes and locations of penetrations to be flashed, and joints and seams in adjacent materials.

B. Coordinate sheet metal flashing and trim installation with adjoining roofing and wall materials, joints, and seams to provide leakproof, secure, and noncorrosive installation.

1.05 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
   1. Review construction schedule. Verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.

2. Review special roof details, roof drainage, roof-penetration flashing, equipment curbs, and condition of other construction that affect sheet metal flashing and trim.
3. Review requirements for insurance and certificates if applicable.
4. Review sheet metal flashing observation and repair procedures after flashing installation.

1.06 ACTION SUBMITTALS

A. Product Data:
1. Steep-slope roof sheet metal fabrications.
2. Miscellaneous sheet metal fabrications.

B. Catalog sheets, specifications, installation instructions for each item specified except for shop or job formed items, solder, flux, and bituminous paint:

C. Shop Drawings: For sheet metal flashing and trim.
1. Include plans, elevations, sections, and attachment details.
2. Detail fabrication and installation layouts, expansion-joint locations, and keyed details. Distinguish between shop- and field-assembled Work.
3. Include identification of material, thickness, weight, and finish for each item and location in Project.
4. Include details for forming, including profiles, shapes, seams, and dimensions.
5. Include details for joining, supporting, and securing, including layout and spacing of fasteners, cleats, clips, and other attachments. Include pattern of seams.
6. Include details of termination points and assemblies.
7. Include details of roof-penetration flashing.
8. Include details of special conditions.
9. Include details of connections to adjoining work.
10. Detail formed flashing and trim at scale of not less than 1-1/2 inches per 12 inches (1:10).

D. Samples:

1. Materials for Flashings: One 6 inch sq piece, for each type material specified.
2. Anchors: Six, each type required.

1.07 INFORMATIONAL SUBMITTALS

A. Qualification Data: For fabricator.

1.08 CLOSEOUT SUBMITTALS

A. Maintenance Data: For sheet metal flashing and trim, and its accessories, to include in maintenance manuals.

B. Special warranty.

1.09 QUALITY ASSURANCE

A. Fabricator Qualifications: Employs skilled workers who custom fabricate sheet metal flashing and trim similar to that required for this Project and whose products have a record of successful in-service performance.

B. Except as otherwise shown or specified, comply with applicable recommendations, details, and standards of CDA, and SMACNA.

C. Manufacturer's Recommendations: For factory fabricated items, follow the manufacturer's recommendations and installation instructions unless specifically shown or specified otherwise.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Do not store sheet metal flashing and trim materials in contact with other materials that might cause staining, denting, or other surface damage.
   1. Store sheet metal flashing and trim materials away from uncured concrete and masonry.
   2. Protect stored sheet metal flashing and trim from contact with water.

B. Protect strippable protective covering on sheet metal flashing and trim from exposure to sunlight and high humidity, except to extent necessary for period of sheet metal flashing and trim installation.

1.11 WARRANTY

A. Special Warranty on Finishes: Manufacturer agrees to repair finish or replace sheet metal flashing and trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.
   1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
      a. Color fading more than 5 Delta E units when tested in accordance with ASTM D2244.
      b. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
      c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
   2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Sheet metal flashing and trim assemblies, including cleats, anchors, and fasteners, are to withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal flashing and trim are not to rattle, leak, or loosen, and are to remain watertight.

B. Sheet Metal Standard for Flashing and Trim: Comply with NRCA's "The NRCA Roofing Manual: Architectural Metal Flashing, Condensation and Air Leakage Control, and Reroofing" and SMACNA's "Architectural Sheet Metal Manual" requirements for dimensions and profiles shown unless more stringent requirements are indicated.

C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
   1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

2.02 SHEET METALS

A. Protect mechanical and other finishes on exposed surfaces from damage by applying strippable, temporary protective film before shipping.

B. Aluminum Sheet: ASTM B209 (ASTM B209M), alloy as standard with manufacturer for finish required, with temper as required to suit forming operations and performance required; with smooth, flat surface.
   1. Exposed Coil-Coated Finish:
      a. Two-Coat Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions..
      b. Color: As selected by the Director’s Representative from manufacturer’s standard colors.
   2. Concealed Finish: Pretreat with manufacturer's standard white or light-colored acrylic or polyester backer finish, consisting of prime coat and wash coat with minimum total dry film thickness of 0.5 mil (0.013 mm).

C. Stainless Steel Sheet: ASTM A240/A240M, Type 304 dead soft, fully annealed; with smooth, flat surface.
   1. Finish: ASTM A480/A480M, No. 4 (polished directional satin).
      a. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
      b. Polished Finishes: Grind and polish surfaces to produce uniform finish, free of cross scratches.
         1) Run grain of directional finishes with long dimension of each piece.
         2) When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

2.03 UNDERLAYMENT MATERIALS

A. Felt: ASTM D226/D226M, Type II (No. 30), asphalt-saturated organic felt; nonperforated.

B. Self-Adhering, High-Temperature Sheet Underlayment: Minimum 30 mils (0.76 mm) thick, consisting of a slip-resistant polyethylene- or polypropylene-film top surface laminated to a layer of butyl- or SBS-modified asphalt adhesive, with release-paper backing; specifically designed to withstand high metal temperatures beneath metal roofing. Provide primer in accordance with underlayment manufacturer's written instructions.
   1. Source Limitations: Obtain underlayment from single source from single manufacturer.
   2. Thermal Stability: ASTM D 1970; stable after testing at 240 deg F (116 deg C) or higher.
   3. Low-Temperature Flexibility: ASTM D1970/D1970M; passes after testing at minus 20 deg F (minus 29 deg C) or lower.

C. Slip Sheet: Rosin-sized building paper, 3 lb/100 sq. ft. (0.16 kg/sq. m) minimum.

2.04 FASTENERS

A. Nails: “Stronghold” type large flat head roofing nail:
   1. For Aluminum: Hard aluminum alloy or stainless steel.
   2. For Stainless Steel: Stainless steel

B. Screws, Bolts, and Other Fastening Accessories:
   1. For Aluminum: Hard aluminum alloy or stainless steel.
   2. For Stainless Steel: Stainless steel.

C. Anchors: Provide one of the following types:
   1. Hammer driven anchors, consisting of a stainless steel drive pin and a plastic or corrosion resistant metal expansion shield inserted thru a stainless steel disc with an EPDM sealing washer.
   2. Self-tapping, corrosion resistant, concrete and masonry screw inserted thru a stainless steel disc with an EPDM sealing washer.

2.05 MISCELLANEOUS MATERIALS

A. Provide materials and types of fasteners, solder, protective coatings, sealants, and other miscellaneous items as required for complete sheet metal flashing and trim installation and as recommended by manufacturer of primary sheet metal or manufactured item unless otherwise indicated.

B. Fasteners: Wood screws, annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.
   1. General: Blind fasteners or self-drilling screws, gasketed, with hex-washer head.

a. Exposed Fasteners: Heads matching color of sheet metal using plastic caps or factory-applied coating. Provide metal-backed EPDM or PVC sealing washers under heads of exposed fasteners bearing on weather side of metal.
b. Blind Fasteners: High-strength aluminum or stainless steel rivets suitable for metal being fastened.
c. Spikes and Ferrules: Same material as gutter; with spike with ferrule matching internal gutter width.

2. Nails: "Stronghold" type large flat head roofing nail:
   a. For Aluminum: Hard aluminum alloy or stainless steel.
   b. For Stainless Steel: Stainless steel
3. Screws, Bolts, and Other Fastening Accessories:
   a. For Aluminum: Hard aluminum alloy or stainless steel.
   b. For Stainless Steel: Stainless steel.
4. Anchors: Provide one of the following types:
   a. Hammer driven anchors, consisting of a stainless steel drive pin and a plastic or corrosion resistant metal expansion shield inserted thru a stainless steel disc with an EPDM sealing washer.
   b. Self-tapping, corrosion resistant, concrete and masonry screw inserted thru a stainless steel disc with an EPDM sealing washer.

C. Solder:
1. For Stainless Steel: ASTM B32, Grade Sn60 with acid flux of type recommended by stainless steel sheet manufacturer.

D. Sealant Tape: Pressure-sensitive, 100 percent solids, polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch (13 mm) wide and 1/8 inch (3 mm) thick.

E. Elastomeric Sealant: ASTM C920, as per Section 079200 Joint sealant.
1. General purpose sealant: Type 2 Sealant
2. Concealed Sealant: Type 3 Sealant
3. High Temperature Sealant: Type 4 Sealant

F. Epoxy Seam Sealer: Two-part, noncorrosive, aluminum seam-cementing compound, recommended by aluminum manufacturer for exterior nonmoving joints, including riveted joints.

G. Bituminous Coating: Cold-applied asphalt emulsion in accordance with ASTM D1187/D1187M.

2.06 FABRICATION, GENERAL

A. Custom fabricate sheet metal flashing and trim to comply with details indicated and recommendations in cited sheet metal standard that apply to design, dimensions, geometry, metal thickness, and other characteristics of item required.
1. Fabricate sheet metal flashing and trim in shop to greatest extent possible.
2. Fabricate sheet metal flashing and trim in thickness or weight needed to comply with performance requirements, but not less than that specified for each application and metal.

3. Verify shapes and dimensions of surfaces to be covered and obtain field measurements for accurate fit before shop fabrication.
4. Form sheet metal flashing and trim to fit substrates without excessive oil-canning, buckling, and tool marks; true to line, levels, and slopes; and with exposed edges folded back to form hems.
5. Conceal fasteners and expansion provisions where possible. Do not use exposed fasteners on faces exposed to view.

B. Fabrication Tolerances:
1. Fabricate sheet metal flashing and trim that is capable of installation to a tolerance of 1/4 inch in 20 feet (6 mm in 6 m) on slope and location lines indicated on Drawings and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.
2. Fabricate sheet metal flashing and trim that is capable of installation to tolerances specified.

C. Expansion Provisions: Form metal for thermal expansion of exposed flashing and trim.
1. Form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with butyl sealant concealed within joints.
2. Use lapped expansion joints only where indicated on Drawings.

D. Sealant Joints: Where movable, nonexpansion-type joints are required, form metal in accordance with cited sheet metal standard to provide for proper installation of elastomeric sealant.

E. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal.

F. Seams:
1. Fabricate nonmoving seams with flat-lock seams. Form seams and seal with elastomeric sealant unless otherwise recommended by sealant manufacturer for intended use. Rivet joints where necessary for strength.
2. Seams for Aluminum: Fabricate nonmoving seams with flat-lock seams. Form seams and seal with epoxy seam sealer. Rivet joints where necessary for strength.

G. Do not use graphite pencils to mark metal surfaces.

2.07 STEEP-SLOPE ROOF SHEET METAL FABRICATIONS

A. Cricket and Backer Flashing: Fabricate from the following materials:
1. Aluminum: 0.032 inch (0.81 mm) thick.
2. Stainless Steel: 0.0156 inch (0.396 mm) thick.

B. Counterflashing: Shop fabricate interior and exterior corners. Fabricate from the following materials:
1. Aluminum: 0.032 inch (0.81 mm)] thick.
2. Stainless Steel: 0.0188 inch (0.477 mm) thick.

C. Roof-Penetration Flashing: Fabricate from the following materials:
1. Stainless Steel: 0.0188 inch (0.477 mm) thick.

2.08 MISCELLANEOUS SHEET METAL FABRICATIONS

A. Equipment Support Flashing: Fabricate from the following materials:
   1. Stainless Steel: 0.0188 inch (0.477 mm) thick.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with installer present, for compliance with requirements for installation tolerances, substrate, and other conditions affecting performance of the Work.
   1. Verify compliance with requirements for installation tolerances of substrates.
   2. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.
   3. Verify that air- or water-resistant barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.

B. Proceed with installation only after unsatisfactory conditions have been corrected. Commencement of installation shall signify acceptance of existing and field conditions.

3.02 INSTALLATION OF UNDERLAYMENT

A. Self-Adhering, High-Temperature Sheet Underlayment:
   1. Install self-adhering, high-temperature sheet underlayment; wrinkle free.
   2. Prime substrate if recommended by underlayment manufacturer.
   3. Comply with temperature restrictions of underlayment manufacturer for installation; use primer for installing underlayment at low temperatures.
   4. Apply in shingle fashion to shed water, with end laps of not less than 6 inches (150 mm) staggered 24 inches (600 mm) between courses.
   5. Overlap side edges not less than 3-1/2 inches (90 mm). Roll laps and edges with roller.
   6. Roll laps and edges with roller.
   7. Cover underlayment within 14 days.

B. Install slip sheet, wrinkle free, over underlayment before installing sheet metal flashing and trim.
   1. Install in shingle fashion to shed water.
   2. Lapp joints not less than 4 inches (100 mm).

3.03 INSTALLATION, GENERAL

A. Install sheet metal flashing and trim to comply with details indicated and recommendations of cited sheet metal standard that apply to installation characteristics required unless otherwise indicated on Drawings.

1. Install fasteners, solder, protective coatings, separators, sealants, and other miscellaneous items as required to complete sheet metal flashing and trim system.
2. Install sheet metal flashing and trim true to line, levels, and slopes. Provide uniform, neat seams with minimum exposure of solder and sealants.
3. Anchor sheet metal flashing and trim and other components of the Work securely in place, with provisions for thermal and structural movement.
4. Install sheet metal flashing and trim to fit substrates and to result in watertight performance.
5. Install continuous cleats with fasteners spaced not more than 12 inches (300 mm) o.c.
6. Space individual cleats not more than 12 inches (300 mm) apart. Attach each cleat with at least two fasteners. Bend tabs over fasteners.
7. Install exposed sheet metal flashing and trim with limited oil-canning, and free of buckling and tool marks.
8. Do not field cut sheet metal flashing and trim by torch.
9. Do not use graphite pencils to mark metal surfaces.

B. Metal Protection: Where dissimilar metals contact each other, or where metal contacts pressure-treated wood or other corrosive substrates, protect against galvanic action or corrosion by painting contact surfaces with bituminous coating or by other permanent separation as recommended by sheet metal manufacturer or cited sheet metal standard.
1. Coat concealed side of uncoated-aluminum and stainless steel sheet metal flashing and trim with bituminous coating where flashing and trim contact wood, ferrous metal, or cementitious construction.
2. Underlayment: Where installing sheet metal flashing and trim directly on cementitious or wood substrates, install underlayment and cover with slip sheet.

C. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim.
1. Space movement joints at maximum of 10 feet (3 m) with no joints within 24 inches (600 mm) of corner or intersection.
2. Form expansion joints of intermeshing hooked flanges, not less than 1 inch (25 mm) deep, filled with sealant concealed within joints.
3. Use lapped expansion joints only where indicated on Drawings.

D. Fasteners: Use fastener sizes that penetrate wood blocking or sheathing not less than 1-1/4 inches (32 mm) for nails and not less than 3/4 inch (19 mm) for wood screws.

E. Conceal fasteners and expansion provisions where possible in exposed work and locate to minimize possibility of leakage. Cover and seal fasteners and anchors as required for a tight installation.

F. Seal joints as required for watertight construction.
1. Use sealant-filled joints unless otherwise indicated.
    a. Embed hooked flanges of joint members not less than 1 inch (25 mm) into sealant.
    b. Form joints to completely conceal sealant.
    c. When ambient temperature at time of installation is between 40 and 70 deg F (4 and 21 deg C), set joint members for 50 percent movement each way.

d. Adjust setting proportionately for installation at higher ambient temperatures.
1) Do not install sealant-type joints at temperatures below 40 deg F (4 deg C).

2. Prepare joints and apply sealants to comply with requirements in Section 079200 "Joint Sealants."

G. Soldered Joints: Clean surfaces to be soldered, removing oils and foreign matter.
1. Pretin edges of sheets with solder to width of 1-1/2 inches (38 mm); however, reduce pretinning where pretinned surface would show in completed Work.
2. Do not solder metallic-coated steel and aluminum sheet.
3. Do not pretin zinc-tin alloy-coated copper.
4. Do not use torches for soldering.
5. Heat surfaces to receive solder, and flow solder into joint.
a. Fill joint completely.
b. Completely remove flux and spatter from exposed surfaces.
6. Stainless Steel Soldering:
a. Tin edges of uncoated sheets, using solder for stainless steel and acid flux.
b. Promptly remove acid-flux residue from metal after tinning and soldering.
c. Comply with solder manufacturer's recommended methods for cleaning and neutralization.
7. Copper Soldering: Tin edges of uncoated sheets, using solder for copper.
8. Copper-Clad Stainless Steel Soldering: Tin edges of uncoated sheets, using solder for copper-clad stainless steel.

H. Rivets: Rivet joints in uncoated aluminum where necessary for strength.

3.04 INSTALLATION OF ROOF FLASHINGS

A. Install sheet metal flashing and trim to comply with performance requirements, sheet metal manufacturer's written installation instructions, and cited sheet metal standard.
1. Provide concealed fasteners where possible, and set units true to line, levels, and slopes.
2. Install work with laps, joints, and seams that are permanently watertight and weather resistant.

B. Counterflashing: Coordinate installation of counterflashing with installation of base flashing.
1. Insert counterflashing in reglets or receivers and fit tightly to base flashing.
2. Extend counterflashing 4 inches (100 mm) over base flashing.
3. Lap counterflashing joints minimum of 4 inches (100 mm).
4. Secure in waterproof manner by means of snap-in installation and sealant or lead wedges and sealant unless otherwise indicated.

C. Roof-Penetration Flashing: Coordinate installation of roof-penetration flashing with installation of roofing and other items penetrating roof. Seal with sealant Type 3 and clamp flashing to pipes that penetrate roof.

3.05 INSTALLATION OF MISCELLANEOUS FLASHING

A. Equipment Support Flashing:
   1. Coordinate installation of equipment support flashing with installation of roofing and equipment.
   2. Weld or seal flashing with elastomeric sealant to equipment support member.

3.06 TOLERANCES

A. Installation Tolerances: Shim and align sheet metal flashing and trim within installed tolerance of 1/4 inch in 20 feet (6 mm in 6 m) on slope and location lines indicated on Drawings and within 1/8-inch (3-mm) offset of adjoining faces and of alignment of matching profiles.

3.07 CLEANING

A. Clean exposed metal surfaces of substances that interfere with uniform oxidation and weathering.

B. Clean and neutralize flux materials. Clean off excess solder.

C. Clean off excess sealants.

3.08 PROTECTION

A. Remove temporary protective coverings and strippable films as sheet metal flashing and trim are installed unless otherwise indicated in manufacturer's written installation instructions.

B. On completion of sheet metal flashing and trim installation, remove unused materials and clean finished surfaces as recommended in writing by sheet metal flashing and trim manufacturer.

C. Maintain sheet metal flashing and trim in clean condition during construction.

D. Replace sheet metal flashing and trim that have been damaged or that have deteriorated beyond successful repair by finish touchup or similar minor repair procedures, as determined by Architect.

END OF SECTION

SECTION 077200

ROOF ACCESSORIES

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:
   1. Roof curbs.
   2. Pipe flashing boots.

B. Related Requirements:
   1. Section 070150 "Modifications to Existing Warrantied Roof System"
   2. Division 23 Sections for roof-mounted mechanical equipment.

1.02 COORDINATION

A. Coordinate layout and installation of roof accessories with existing roofing system, insulation, air and weather barriers and flashings and interfacing and adjoining construction to provide a leakproof, weathertight, secure, and noncorrosive installation.

B. Coordinate dimensions with rough-in information or Shop Drawings of equipment to be supported.

1.03 ACTION SUBMITTALS

A. Product Data: For each type of roof accessory.
   1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: For roof accessories.
   1. Include plans, elevations, keyed details, and attachments to other work. Indicate dimensions, loadings, and special conditions. Distinguish between plant- and field-assembled work.
      a. Distinguish between new and existing materials.
      b. Show all splices and interfacing between new and existing materials.

C. Samples: For each exposed product and for each color and texture specified, prepared on Samples of size to adequately show color.

D. Delegated Design Submittals: For roof curbs indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
   1. Detail mounting, securing, and flashing of roof-mounted items to roof structure. Indicate coordinating requirements with roof membrane system.

2. Wind-Restraint Details: Detail fabrication and attachment of wind restraints. Show anchorage details and indicate quantity, diameter, and depth of penetration of anchors.

1.04 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Roof plans, drawn to scale, and coordinating penetrations and roof-mounted items. Show the following:
   1. Size and location of roof accessories specified in this Section.
   2. Method of attaching roof accessories to roof or building structure.
   3. Other roof-mounted items including mechanical and electrical equipment, ductwork, piping, and conduit.
   4. Required clearances.

B. Sample Warranties: For manufacturer's special warranties.

1.05 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For roof accessories to include in operation and maintenance manuals.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. General Performance: Roof accessories to withstand exposure to weather and resist thermally induced movement without failure, rattling, leaking, or fastener disengagement due to defective manufacture, fabrication, installation, or other defects in construction.

B. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design roof curbs to comply with wind performance requirements, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

C. Wind-Restraint Performance: As indicated on Drawings.

2.02 ROOF CURBS

A. Roof Curbs: To be furnished by H-contract for installation by C-contract.

2.03 PIPE FLASHING BOOTS

A. Pipe Flashing Boots: Provide and install roof manufacturer’s recommended product for use with the existing warrantied roof system installation.

2.04 METAL MATERIALS

A. Aluminum Sheet: ASTM B209 (ASTM B209M), manufacturer's standard alloy for finish required, with temper to suit forming operations and performance required.
   1. Mill Finish: As manufactured.

B. Aluminum Extrusions and Tubes: ASTM B221 (ASTM B221M), manufacturer's standard alloy and temper for type of use, finished to match assembly where used; otherwise mill finished.

C. Stainless Steel Sheet and Shapes: ASTM A240/A240M or ASTM A666, Type 304.

2.05 MISCELLANEOUS MATERIALS

A. Provide materials and types of fasteners, protective coatings, sealants, and other miscellaneous items required by manufacturer for a complete installation.

B. Polyisocyanurate Board Insulation: ASTM C1289, thickness and thermal resistivity as indicated.

C. Wood Nailers: Softwood lumber, pressure treated with waterborne preservatives for aboveground use, acceptable to authorities having jurisdiction, containing no arsenic or chromium, and complying with AWPA C2; not less than 1-1/2 inches (38 mm) thick.

D. Security Grilles: 3/4-inch (19-mm) diameter, ASTM A1011/A1011M steel bars spaced 6 inches (150 mm) o.c. in one direction and12 inches (300 mm) o.c. in the other; factory finished as follows:
   1. Surface Preparation: Remove mill scale and rust, if any, from uncoated steel, complying with SSPC-SP 5/NACE No. 1, "White Metal Blast Cleaning," or SSPC-SP 8, "Pickling."
   2. Factory Priming for Field-Painted Finish: Apply shop primer specified below immediately after surface preparation and pretreatment.
   3. Shop Primer: Manufacturer's or fabricator's standard, fast-curing, lead- and chromate-free, universal primer; selected for resistance to normal atmospheric corrosion, for compatibility with substrate and field-applied finish paint system indicated, and for capability to provide a sound foundation for field-applied topcoats under prolonged exposure.

E. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

F. Underlayment:

   1. Self-Adhering, High-Temperature Sheet: Minimum 30 to 40 mils (0.76 to 1.0 mm) thick, consisting of slip-resisting polyethylene-film top surface laminated to layer of butyl or SBS-modified asphalt adhesive, with release-paper backing; cold applied. Provide primer when recommended by underlayment manufacturer.
      a. Provide underlayment compatible to existing roofing systems.

G. Fasteners: Roof accessory manufacturer's recommended fasteners suitable for application and metals being fastened. Match finish of exposed fasteners with finish of material being fastened. Provide nonremovable fastener heads to exterior exposed fasteners. Furnish the following unless otherwise indicated:
   1. Fasteners for Aluminum Sheet: Aluminum or Series 300 stainless steel.
   2. Fasteners for Stainless Steel Sheet: Series 300 stainless steel.

H. Gaskets: Manufacturer's standard tubular or fingered design of neoprene, EPDM, PVC, or silicone or a flat design of foam rubber, sponge neoprene, or cork.

I. Elastomeric Sealant: ASTM C920, elastomeric polyurethane polymer sealant as recommended by roof accessory manufacturer for installation indicated; low modulus; of type, grade, class, and use classifications required to seal joints and remain watertight.

J. Butyl Sealant: ASTM C1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for expansion joints with limited movement.

K. Asphalt Roofing Cement: ASTM D4586/D4586M, asbestos free, of consistency required for application.

2.06 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations, dimensions, and other conditions affecting performance of the Work.

B. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.

C. Verify dimensions of roof openings for roof accessories.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

A. Install roof accessories according to manufacturer's written instructions.
   1. Install roof accessories level; plumb; true to line and elevation; and without warping, jogs in alignment, buckling, or tool marks.

2. Anchor roof accessories securely in place so they are capable of resisting indicated loads.
3. Use fasteners, separators, sealants, and other miscellaneous items as required to complete installation of roof accessories and fit them to substrates.
4. Install roof accessories to resist exposure to weather without failing, rattling, leaking, or loosening of fasteners and seals.

B. Metal Protection: Protect metals against galvanic action by separating dissimilar metals from contact with each other or with corrosive substrates by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturer.
1. Coat concealed side of uncoated aluminum or stainless steel roof accessories with bituminous coating where in contact with wood, ferrous metal, or cementitious construction.
2. Underlayment: Where installing roof accessories directly on cementitious or wood substrates, install a course of underlayment and cover with manufacturer's recommended slip sheet.
3. Bed flanges in thick coat of asphalt roofing cement where required by manufacturers of roof accessories for waterproof performance.

C. Roof Curb Installation: Install each roof curb so top surface is level.

D. Security Grilles: Weld bar intersections and, using tamper-resistant bolts, attach the ends of bars to structural frame or primary curb walls.

3.03 REPAIR AND CLEANING

A. Clean exposed surfaces according to manufacturer's written instructions.

B. Clean off excess sealants.

C. Replace roof accessories that have been damaged or that cannot be successfully repaired by finish touchup or similar minor repair procedures.

END OF SECTION

SECTION 079200

JOINT SEALERS

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Glazing Sealants: Section 088100.

B. Resinous Flooring for Sealant Type 7A: Section 096723

1.02 SUMMARY

A. Joint sealants and related accessories

1.03 SUBMITTALS

A. Product Data: Catalog sheets, specifications, and installation instructions for each product specified except miscellaneous materials.

B. Samples:
1. Sealants: One pint or standard tube.
2. Joint Fillers: 24 inch long full section.
3. Gaskets: 24 inch long full section.
4. Joint Primer/Sealer/Conditioners: One pint.
5. Backer Rods: 24 inch long full section.
6. Bond Breaker Tape: 24 inch long full section.

C. Quality Control Submittals:
1. Installer's Qualifications Data: Affidavit required under Quality Assurance Article.
2. Company Field Advisor Data: Name, business address, and telephone number of Company Field Advisor.

D. Joint-sealant application, joint location, and designation.
1. Joint-sealant manufacturer and product name.
2. Joint-sealant formulation.
3. Joint-sealant color.

E. Product Certificates: For each kind of joint sealant and accessory, from manufacturer.
1. Provide certification that materials are accepted by New York State Office of Mental Health.

F. Preconstruction Compatibility and Adhesion Test Reports: From sealant manufacturer, indicating the following:
1. Materials forming joint substrates and joint-sealant backings have been tested for compatibility and adhesion with joint sealants.

2. Interpretation of test results and written recommendations for primers and substrate preparation needed for adhesion.

G. Preconstruction Field-Adhesion Test Reports: Indicate which sealants and joint preparation methods resulted in optimum adhesion to joint substrates based on testing specified in "Preconstruction Testing" Article.

H. Field-Adhesion Test Reports: For each sealant application tested.

1.04 QUALITY ASSURANCE

A. Installer's Qualifications: The persons installing the sealants and their supervisor shall be personally experienced in the installation of sealants and shall have been regularly employed by a company engaged in the installation of sealants for a minimum of two years.
1. Furnish to the Director the names and addresses of five similar projects which the foregoing people have worked on during the past two years.
2. Furnish a letter from the sealant manufacturer, stating that the foregoing people are authorized to install the manufacturer's sealant materials and that the manufacturer's specifications are applicable to the requirements of this Project.

B. Pre-Installation Meeting: Prior to starting the Work and before materials are ordered, a meeting will be held at the Site to discuss the specifications, details, and application requirements. The meeting shall be attended by the Contractor, the sealant applicator and the sealant manufacturer's Company Field Advisor.

C. Container Labels: Include manufacturer's name, trade name of product, kind of material, federal specification number (if applicable), expiration date (if applicable), and packaging date or batch number.

D. Test and validate sealants used for exterior weathersealing per the Sealant Waterproofing Restoration Institute (SWRI).

E. Warranties:
1. Silicone sealants: 20 years Weatherseal Warranty.
2. Polyurethane or Silicone: 5 year Weatherseal Warranty.
3. Sealants for Granite, Marble and Limestone: 20 year Non-Stain Warranty.

F. Product Testing: Test joint sealants using a qualified testing agency.
1. Testing Agency Qualifications: Qualified according to ASTM C 1021 to conduct the testing indicated.
2. Test according to SWRI's Sealant Validation Program for compliance with requirements specified by reference to ASTM C 920 for adhesion and cohesion under cyclic movement, adhesion-in-peel, and indentation hardness.
3. Test other joint sealants for compliance with requirements indicated by referencing standard specifications and test methods.

4. Test and validate sealants used for exterior weathersealing per the Sealant Waterproofing Restoration Institute (SWRI).

G. Container Labels: Include manufacturer's name, trade name of product, kind of material, federal specification number (if applicable), expiration date (if applicable), and packaging date or batch number.

1.05 PROJECT CONDITIONS

A. Environmental Requirements:
1. Temperature: Unless otherwise approved or recommended in writing by the sealant manufacturer, do not install sealants at temperatures below 40 degrees F or above 85 degrees F for non silicone sealants and below minus 20 degrees F or above 125 degrees F for silicone sealants.
2. Humidity and Moisture: Do not install the Work of this section under conditions that are detrimental to the application, curing, and performance of the materials.
3. Ventilation: Provide sufficient ventilation wherever sealants, primers, and other similar materials are installed in enclosed spaces. Follow manufacturer's recommendations.
4. When joint substrates are wet.
5. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
6. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

B. Protection:
1. Protect all surfaces adjacent to sealants with non-staining removable tape or other approved covering to prevent soiling or staining.
2. Protect all other surfaces in the Work area with tarps, plastic sheets, or other approved coverings to prevent defacement from droppings.

1.06 WARRANTY

A. Special Installer's Warranty: Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
1. Warranty Period: Two years from date of Substantial Completion.

B. Special Manufacturer's Warranty: Manufacturer agrees to furnish joint sealants to repair or replace those joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
1. Warranty Period:
a. Silicone sealants: 20 years Weatherseal Warranty.
b. Polyurethane or Silicone: 5 year Weatherseal Warranty.

C. Special warranties specified in this article exclude deterioration or failure of joint sealants from the following:

1. Movement of the structure caused by stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression.
2. Disintegration of joint substrates from causes exceeding design specifications.
3. Mechanical damage caused by individuals, tools, or other outside agents.
4. Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants.

PART 2 PRODUCTS

2.01 JOINT SEALANTS, GENERAL

A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

B. Colors of Exposed Joint Sealants: As selected by Architect from the manufacturer's full range, including but not limited to custom and premium colors.

C. VOC Content of Interior Sealants: Provide sealants and sealant primers for use inside the weatherproofing system that comply with the following limits for VOC content when calculated according to 40 CFR 59, Part 59, Subpart D (EPA Method 24):
1. Architectural Sealants: 250 g/L.
2. Sealant Primers for Nonporous Substrates: 250 g/L.
3. Sealant Primers for Porous Substrates: 775 g/L.

D. Liquid-Applied Joint Sealants: Comply with ASTM C 920 and other requirements indicated for each liquid-applied joint sealant specified, including those referencing ASTM C 920 classifications for type, grade, class, and uses related to exposure and joint substrates.
1. Suitability for Immersion in Liquids. Where sealants are indicated for Use I for joints that will be continuously immersed in liquids, provide products that have undergone testing according to ASTM C 1247. Liquid used for testing sealants is deionized water, unless otherwise indicated.

E. Stain-Test-Response Characteristics: Where sealants are specified to be nonstaining to porous substrates, provide products that have undergone testing according to ASTM C 1248 and have not stained porous joint substrates indicated for Project.

F. Pre-formed Sealant: Preformed paintable sealant strips of open cell, compressible urethane foam, saturated with non-drying, non-staining, and non-migrating butylene compound.

G. Sealant Colors: For exposed materials provide color as indicated or, if not indicated, as selected by the Director from manufacturer's standard colors. For concealed materials, provide the natural color which has the best overall performance characteristics.

2.02 ELASTOMERIC SEALANTS

A. Type 1D Sealant: ASTM C 920, Type S, Grade NS, Class 25 or 50, Use NT, when tested to glass and aluminum, one-part silicone, mildew resistant silicone sealant.
   1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      a. Dow Chemical Company; DOWSIL 786
      b. Percora Sealants; Pecora 898 Sanitary Silicone
      c. Bostik Inc.; Pure Silicone.
   2. Location: for interior wet areas where Type 6 sealant is not required.

B. Type 4 Sealant: Single component, elastomeric sealant designed for high temperatures.
   1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      a. Bostik 9732 RTV Silicone Sealant
      b. Dow Dowsil Hi-Temp Sealant
      c. Momentive RTV106
   2. Locations: High temperature penetrations through roof.

C. Type 6 Sealant: ASTM C290, one or two part, New York State Office of Mental Health acceptable, elastomeric polyurethane, “pick-proof”, flexible security sealant:
   1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      a. Percora Corporation; Dynaflex SC
      b. Sika Corporation; Sikaflex 11FC
      c. Dow Corning; Dowsil 995
   2. Location: All joint sealant locations accessible to patient population

2.03 LATEX SEALANTS

A. Type 2 Sealant: Acrylic latex or siliconized acrylic latex, ASTM C 920 and ASTM C834, Type S, Grade NS, Class 25, G, A, M and O.
   1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      a. Pecora Corporation; AVW-920.
      b. Sika Corporation; Sikasil-N Plus US
      c. Dow Dowsil 791
   2. Location: General purpose sealant where Type 6 sealant is not required

2.04 BUTYL RUBBER SEALANTS

A. Type 3 Sealant: ASTM 1311, one-part butyl rubber sealant.
   1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      a. Percora Corporation; Pecora BC-158
      b. CR Laurence Co. Inc.; PTI 707
      c. Bostik, an Akema Company; Bostik Chem-Calk 300
   2. Location: Roofing and flashing sealant for use in concealed locations.

2.05 JOINT FILLERS

A. General: Provide sealant backings of material that are nonstaining; are compatible with joint substrates, sealants, primers, and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

B. Cylindrical Sealant Backings: ASTM C 1330, Type C (closed-cell material with a surface skin), Type O (open-cell material) or Type B (bicellular material with a surface skin) as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

C. Elastomeric Tubing Sealant Backings: Neoprene, butyl, EPDM, or silicone tubing complying with ASTM D 1056, nonabsorbent to water and gas, and capable of remaining resilient at temperatures down to minus 26 deg F (minus 32 deg C). Provide products with low compression set and of size and shape to provide a secondary seal, to control sealant depth, to otherwise contribute to optimum sealant performance, and where approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

D. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.

2.06 MISCELLANEOUS MATERIALS

A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
   1. Joint Primer/Sealer/Conditioner: As recommended by the sealant manufacturer for the particular joint surface materials and conditions.
   2. For Type 6 Sealant (two part):
      a. Pecora No. P-100 for non-porous substrates.
      b. Pecora No. P-75 or P-200 for porous substrates.

3. For Type 6 Sealant (one component):
    a. Pecora No. P-100 for non-porous substrates.
    b. Pecora No. P-75 for porous substrates.
    c. Sonneborn No. 733 or 766 for porous or non- porous substrates.

B. Cleaning Solvents: Oil free solvents as recommended by the sealant manufacturer. Do not use re-claimed solvents.

C. Masking Tape: Removable paper or fiber tape, self-adhesive, non-staining.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting joint-sealant performance.

B. Proceed with installation only after unsatisfactory conditions have been corrected. Commencement of installation shall indicate acceptance of existing and field conditions.

3.02 PREPARATION

A. Clean joint surfaces immediately before installation of sealant and other materials specified in this Section.
    1. Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements.
        a. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost
        b. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
            1) Concrete
            2) Masonry.
            3) Unglazed surfaces of ceramic tile.
        c. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:

1) Metal.
2) Glass.
3) Porcelain enamel.
4) Glazed surfaces of ceramic tile.

2. Remove all loose materials, dirt, dust, rust, oils and other foreign matter that will impair the performance of materials installed under this Section.
3. Remove lacquers, protective coatings and similar materials from joint faces with manufacturer's recommended solvents.
4. Do not limit cleaning of joint surfaces to solvent wiping. Use methods such as grinding, acid etching or other approved and manufacturer's recommended means, if required, to clean the joint surfaces, assuring that the sealant materials will obtain positive and permanent adhesion.

B. Set joint fillers at proper depth and position as required for installation of bond breakers, backer rods, and sealants. Do not leave voids or gaps between the ends

C. Priming Joint Surfaces:
1. Prime joints which are to receive Type 6 Sealants.
2. Prime joints of friable (crumbly, chalky) masonry surfaces which are to receive Type 1 Sealant.
3. Prime joints other than those above if so recommended by the manufacturer's printed instructions.
4. Do not allow the primer/sealer to spill or migrate onto adjoining surfaces.

D. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.03 INSTALLATION OF JOINT SEALANTS, GENERAL

A. Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.

B. Sealant Installation Standard: Comply with recommendations in ASTM C 1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

3.04 JOINT BACKING INSTALLATION

A. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
1. Set joint fillers at proper depth and position as required for installation of bond breakers, backer rods, and sealants.
2. Do not leave gaps between ends of sealant backings.
3. Do not stretch, twist, puncture, or tear sealant backings.
4. Remove absorbent sealant backings that have become wet before sealant application and replace them with dry materials.

5. Smooth Edged Joints: For joints between two concrete slabs or where new concrete abuts smooth edged materials use closed cell polyurethane joint filler.
6. Irregular Edged Joints: For joints where new concrete abuts granite curbs or other irregular edges use closed cell polyurethane joint filler.

B. Primer: Prime joints as per manufacturer's recommendations and written instructions.

C. Install bond breaker tape in relaxed condition as it comes off the roll. Do not stretch the tape. Lap individual lengths.

D. Install backer rod of sufficient size to fill the joint width at all points in a compressed state. Compress backer rod at the widest part of the joint by a minimum of 25 percent. Do not cut or puncture the surface skin of the rod.

3.05 SEALANT INSTALLATION

A. Except as shown or specified otherwise, install sealants in accordance with the manufacturer's printed instructions.

B. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
1. Install sealants in accordance with the manufacturer's printed instructions.
2. Place sealants so they directly contact and fully wet joint substrates.
3. Completely fill recesses in each joint configuration.
4. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.
5. Install sealants with ratchet hand gun or other approved mechanical gun. Where gun application is impractical, install sealant by knife or by pouring as applicable.

C. Types 2 and 2A Sealants: If low temperature makes application difficult, preheat sealants using manufacturer's recommended heating equipment.

D. Type 4 Sealant: Allow sealant to cure for a minimum of 3 days before backfilling.

E. Finishing: Tool all vertical, non-sag sealants so as to compress the sealant, eliminating all air voids and providing a neat smoothly finished joint. Provide slightly concave joint surface, unless otherwise indicated or recommended by the manufacturer.
1. Use tool wetting agents as recommended by the sealant manufacturer.
2. Concave tool, with tool and not finger or thumb, all joints unless otherwise indicated on the Drawings.
3. Remove excess sealant from surfaces adjacent to joints.
4. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
5. Provide concave joint profile per Figure 8A in ASTM C 1193, unless otherwise indicated.

3.06 FIELD QUALITY CONTROL

A. Test Samples:
   1. Where directed by the Director's Representative, cut out and carefully remove a 6 inch long sample of the undisturbed sealant and joint backer material from the newly installed Work. Remove the samples in the presence of the Director's Representative who will retain them for evaluating and testing.
   2. Reseal cut out areas with the same materials.

3.07 CLEANING

A. Immediately remove misapplied sealant and droppings from metal surfaces with solvents and wiping cloths. On other materials, remove misapplied sealant and droppings by methods and materials recommended in writing by the manufacturer of the sealant material.

B. After sealants are applied and before skin begins to form on sealant, remove all masking and other protection and clean up remaining defacement caused by the Work.

3.08 PROTECTION

A. Immediately remove misapplied sealant and droppings from metal surfaces with solvents and wiping cloths. On other materials, remove misapplied sealant and droppings by methods and materials recommended in writing by the manufacturer of the sealant material.

B. After sealants are applied and before skin begins to form on sealant, remove all masking and other protection and clean up remaining defacement caused by the Work.

C. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out and remove damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work

END OF SECTION

SECTION 081102

STEEL DOORS AND FRAMES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Steel doors and frames, including borrowed lites; sidelights; vision lites; glass moldings and stops; louvers; panels; hardware reinforcements; and accessories as shown in the contract documents.

1.02 REFERENCES

A. ANSI- American National Standard Institute
   1. A240: Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
   2. A250.4-2001 Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcing's.

B. NAAMM National Association of Architectural Metal Manufacturers
   1. HMMA 830-1997 Hardware Preparations and Locations for Hollow Metal Doors and Frames.
   2. HMMA 831-1997 Recommended Hardware Locations for Hollow Metal
   3. Doors and Frames.
   4. HMMA 840-1999 Guide Specification for Installation and Storage of Hollow Metal Doors and Frames.
   5. HMMA 861-2000 Guide Specification for Commercial Hollow Metal Doors and Frames.

C. NFPA National Fire Protection Association
   1. NFPA 80- 2010 Standard for Fire Doors and other Opening Protectives.

1.03 DEFINITIONS

A. Steel Door and Frame Manufacturer: Manufacturer of steel doors and frames regularly engaged in the manufacturing of such products for use in commercial, institutional, educational, and other similar applications.

B. Company Field Advisor(s): An employee of the steel door and frame manufacturer who is certified in writing by the manufacturer to be technically qualified in design, installation, and servicing of products.

C. Steel Door and Frame Distributor: Distribution Company who regularly engages in the distribution of steel doors and frames of the manufacturer whose doors and frames are submitted for this project.

D. Certified Installation Supervisor: Designated supervisor/installer, who has a minimum three years of experience in steel frame and door installation and is certified in writing by the steel door and frame manufacturer as qualified and responsible to ensure approved steel frames and doors are installed, adjusted, and operate properly.

1.04 SUBMITTALS

A. Waiver of Submittals: "Waiver of Certain Submittal Requirements" in Section 01330 does not apply to this Section.

B. Submittals Packages

1. Door and Frame Schedule and Shop Drawings Package: Submit as a complete package. Incomplete packages will be returned unreviewed.
   a. Quality Assurance Submittal
      1) Certification of Compliance as described in the Quality Assurance Article.
      2) Company Field Advisor's Qualification Data
         a) Name of Company Field Advisor and Employer's name, business address and telephone number and e-mail address.
         b) Names and addresses of 3 similar projects Company Field Advisor has worked on during the past three years.
         c) Written certification on steel door and frame manufacturer's letterhead that Company Field advisor is technically qualified in design, installation, and servicing of the products furnished for this Project.
      3) Certified Supervisor's and Installer's Qualification Data
         a) Name of Supervisor and each Installer performing Work, and Employer's name, business address and telephone number.
         b) Names and addresses of 3 similar projects Supervisor and each Installer has worked on during the past three years.
         c) Written certification on steel door and frame manufacturer's letterhead that Supervisor/Installer is technically qualified to ensure approved steel frames and doors are installed, adjusted, and operate properly.
   b. Door and Frame Schedule:
      1) Include a Cover Sheet that lists:
         a) OGS project name, project number, and project address.
         b) Manufacturer's name, address, and telephone number.
         c) Distributor's name, address, and telephone number.
         d) Shop drawing preparer's name, telephone number and e-mail address.
         e) Submission date.
      2) List by openings:
         a) Door and Frame number and location by building and room name. Use the same reference numbers for openings and as those shown on Contract Drawings.
         b) Door width, height, thickness, type, gage, and options
         c) Frame type, width, height, jamb depth, gage, anchor type and options.
         d) Door and frame elevations; head and jamb profiles and details; welding requirements; and reinforcements.
         e) Fire Rating.
         f) Glass type.
         g) Undercut.
         h) Electric preparations, if any.

i) Hardware Set.
j) Show dimensioned elevations; construction details of each door including vertical and horizontal edge details; and frame details for each type, including dimensions profiles; locations for finish hardware, including cutouts and reinforcements; gage of reinforcements; details of connections; anchors and accessories; and details of conduit and preparations for electrified door hardware and controls.

3) Product Data: Manufacturer's catalog sheets, specifications, and detailed installation instructions. Highlight products and options pertaining to this Project. Cross out information irrelevant to this Project.

4) Manufacturer's Written Certification of Compliance that their products conform to the requirements of the references named in the References Article of this specification section, and as modified by this specification.

5) Samples:
a) Frames: Corner sample of each type, 18 x 18 inches, with mortises and reinforcements, factory primed, or factory finished, as required.
b) Doors: Corner sample of each type of construction, 18 x 18 inches, with mortises and reinforcements, factory primed, or factory finished, as required.

2. Closeout Submittals: Submit as a complete package.
a. Operation and Maintenance Manuals: Furnish 2 (two) hard cover three ring binders with project name and number prominently displayed on the front cover and the spine.
b. Listing of Manufacturer, address and contact information.
c. Approved Door and Frame Submittal including shop drawings and product data sheets.
d. The manufacturer's dated warranty for this specific project is to be identified by Facility, OGS project number, and manufacturer's order number.
e. Certification: Written certification from the Company Field Advisor that their products are installed according to manufacturer's printed installation instructions and are operating properly.

1.05 QUALITY ASSURANCE

A. Uniformity and sole source responsibility:
1. Provide steel doors and frames from a sole source manufacturer who specializes in this type of work.

B. Certification of Compliance: A statement, written on steel door and frame manufacturer's letterhead, which certifies their products, submitted for this Project, have been evaluated and comply with references named in the References Article of this specification section, and as modified by other requirements this specification.

C. Construction Verification: In order to determine if the products furnished comply with the specifications, the Director may choose one or more doors and frames for examination. The examination may involve cutting doors to expose the

internal construction to inspect reinforcements, cores, welds, and other construction details.

D. Field Measurements: Verify existing openings by field measurements before fabrication and indicate measurements on shop drawings.

E. Pre-Submittal Conference: Pre-Submittal Conference: Before the steel door and frame submittals are written, the contractor, the steel door and frame distributor, the steel door and frame shop drawing preparer, and the steel door and frame designer shall attend a conference to discuss the contract requirements for the steel door and frame submittal package, including but not limited to, quality assurance items to be submitted, the cover sheet, index, page numbering, schedule formatting, product nomenclature, installation notes, preparations for electric hardware, and product data sheets.

F. Pre-installation Conference: When steel frames are on site, and before steel frame installation begins, the Director's Representative shall call a conference at the site to review the approved Steel Door and Frame Submittal, approved Finish Hardware Submittals, and proper installation procedures for the Work as well as:
1. Pre-installation inspection of Doors and Frames.
    a. Use and coordination of approved Steel Door and Frame submittals with approved Finish Hardware Submittals in the pre-installation inspection process.
    b. Reading and understanding manufacturer's Door and Frame tags
    c. Inspection and verification of labeling and label placement
        1) Specified fire labels (attached metal labels) on doors and frames,
        2) Label locations.
        3) Label legibility.
    d. Inspection and verification of proper welding of frames
    e. Inspection and verification of hardware reinforcement and preparations in frame head and jambs.
    f. Inspection and verification of required anchors and fasteners.
    g. Inspection and verification of glass kit preparations in doors
    h. Inspection and verification of Electric hardware preparation in frames and doors
2. Review of maximum allowable clearances between frames and doors; doors and floor; and meeting stiles of doors, and verification methods.
3. Verification of plumb, square, and level frame installation with jamb rabbets parallel to one another.
4. Review of proper frame installation tools.
5. The contractor, frame installers, certified Company Field Advisor, OGS designer; and OGS inspector shall attend the conference. Facility personnel may attend. The OGS designer will present installation information.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver doors and frames in heavy paper cartons or other protective packaging. Remove any plastic protective wrap from the package.

B. Store doors and frames under cover, in a dry area, on raised platforms in vertical position with minimum 4-inch blocking between units to allow air circulation.

C. Clearly label packaging of doors and frames, for identification and installation location.

PART 2 PRODUCTS

2.01 MATERIALS

A. Hot-Rolled Steel Sheets and Strip: Commercial quality carbon steel, pickled and oiled, complying with ASTM A1011/A1011M-04a 2004.

B. Cold-Rolled Steel Sheets: Commercial quality carbon steel complying with ASTM A1008/A1008M-04b 2004.

C. Galvannealed Steel Sheets: Zinc Iron Alloy-Coated carbon steel sheets of commercial quality complying with ASTM A 653/653M, with A 60 zinc coating.

D. Anchors and Supports: Fabricate of not less than 16 gage sheet steel unless otherwise indicated.
   1. Galvanized Units: Galvanize anchors and supports to be used with galvanized frames, complying with ASTM A 153, Class B.

E. Anchorage Devices, Bolts, and Other Fasteners: Manufacturer's standard units unless otherwise indicated.
   1. Galvanized Units: Galvanize items and comply with ASTM A 153, Class C or D as applicable.

F. Solid Block polyurethane core with minimum .07 U Factor.

G. Polystyrene slab with a minimum .24 U factor.

H. Extruded polystyrene rigid insulation.

2.02 DOORS

A. General:
   1. Design and Thickness: 2 outer stretcher-leveled steel sheets not less than 14-gauge, seamless, hollow construction, 1-3/4 inches thick.
   2. Construct doors with smooth flush surfaces without visible joints or seams on exposed faces or stile edges, except around glass and louver panels. Continuously MIG, ARC or laser weld vertical edges full height of door, grind smooth, and dress to achieve seamless edge. Tack welded; putty filled edges are not acceptable.
   3. Reinforce vertical edges by a continuous steel channel not less than 14ga extending the full height of door.
   4. Close top and bottom of horizontal edges with 14 gage steel channels, spot welded to the inside of the face sheets a maximum of 4 inches on center.
   5. Continuously weld the closing end channels to the vertical edge reinforcing channel at all four corners producing a fully welded exterior.
   6. Provide minimum 16 gage flush steel top and bottoms caps, notched at both ends to fit hinge and lock channels, installed with a minimum of 6 welds per cap. Grind welds, body fill and finish smooth.
   7. Sound Deadening (ASTM E 90): Minimum Sound Transmission Class of 25.
   8. Door Edges: Bevel lock stile edge of single acting hinged doors 1/8 inch in 2 inches. “V” bevel meeting stiles of pairs of doors, except at double egress locations where meeting stiles are parallel.
   9. Glazing Stops and Beads: Fixed steel stops, formed integral with door on non-threat side of doors. Removable steel beads, of not less than 14

gage formed steel sheet or solid bar stock, on other side of doors secured with torx head machine screws. Form corners with butted hairline joints. Coordinate width of rabbet between fixed stop and removable bead, and depth of rabbet, with type of glass and glazing required.

B. Fire Rated Assemblies: Wherever a fire resistance classification is shown or scheduled for steel doors and frames; provide fire rated units that have been evaluated as fire door assemblies and comply with National Fire Protection Association (NFPA) Standard No. 80 and these specifications.
   1. Identify each door and frame with a factory applied metal UL, FM, or WHI label.
   2. Label shall remain legible and shall not be obscured by prime painting or finish painting.
   3. Indicate the applicable fire rating on the door label.
   4. Locate labels on the hinge edge of door and jamb rabbet of frame.
   5. Where continuous hinges are specified, apply labels on the header rabbet of frame and on top exposed edge of door. Locate labels as close to hinge edge as possible.
   6. At the manufacturer's and/or contractor's expense, retain a third-party inspector to recertify fire rated doors and frames, and to replace primed and finish painted labels.

Commented [JG1]: PART 2 OMIT THE TWO PARAGRAPH BELOW IF THERE ARE NO FIRE-RATED DOORS, FRAMES OR BORROWED LITES.

C. Interior Doors:
   1. Fabricate doors with 2 outer stretcher-leveled, A60 galvanized steel sheets.
   2. Reinforce the inside of doors with polystyrene slab with a minimum .24 U factor, permanently bonded to inside of each face sheet.

2.03 FRAMES

A. General:
   1. Furnish steel frames for doors, transoms, sidelites, borrowed lites, and other openings, as shown, of size and profile as indicated.
   2. Construction: Full welded unit construction, with corners mitered and
   3. continuously welded full depth and width of frame, unless otherwise specified or shown. Knock-down type frames will not be accepted.
      a. Fixed Stops: Integral 5/8 inch stop unless otherwise shown.
   4. Do not drill frames for silencers.
   5. Weld steel shipping spreaders to the underside of the jamb legs, requiring removal of the spreaders prior to frame installation.

B. Interior and Exterior Frames: Form of hot-rolled steel sheets, not less than 14 gage, zinc alloy iron coated A60 galvannealed.

C. Mullions and Transom Bars:
   1. Furnish closed or tubular mullions and transom bars where shown. Fasten mullions and transom bars at crossings and to jambs by butt welding. Reinforce joints between frame members with concealed clip angles or sleeves of same metal and thickness as frame.
   2. Where installed in masonry, leave vertical mullions in frames open at the top so they can be filled with grout.

D. Wall Anchors: Unless otherwise specified or shown, formed of not less than 16 gage galvannealed steel.
   1. Masonry Construction: Adjustable, corrugated, or perforated T-shaped to suit frame size with legs not less than 2 inches wide by 10 inches long.

a. Furnish at least 3 anchors per jamb up to 7’6” jamb height; 4 anchors per jamb up to 8-foot jamb height; one additional anchor

2. Anchors for Completed Openings: Anchorage devices designed to secure frame to in-place concrete or in-place masonry construction, as applicable.
   a. Furnish at least 5 anchors per jamb up to 7’-6” jamb height; 6 anchors per jamb to 8-foot jamb height; one additional anchor per jamb for each 12 inches or fraction thereof over 8 feet high.

E. Floor Anchors: Furnish floor anchor for each jamb and mullion which extends to floor, formed of not less than 16 gage steel, with 2 holes to receive fasteners, welded to bottom of jamb or mullion, and galvanized if used with galvanized frames.

2.04 FABRICATION

A. Fabricate steel door and frame units to be rigid, neat in appearance, and free from warp, buckle, and defects. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. To assure proper assembly at the Project site, clearly identify items that cannot be permanently factory-assembled before shipment.

B. Exposed Fasteners: Countersunk flat, or oval head torx center pin screws and bolts. Unless otherwise indicated, locate fasteners 2 inches from the ends of members and not more than 12 inches apart.

C. Finish Hardware Reinforcements:
1. Minimum 10 gage continuous reinforcement for continuous hinges.
2. Install 7 gage reinforcement for butt hinges, or hinge reinforcement in door edge may be one piece 12 gage channel full door height with extruded hinge screw holes having an average minimum thread pull-out strength of 1600 pounds per hole.
3. Minimum 12 gage reinforcement for other hardware.
4. Weld 14 gage steel tongues, 1-1/2 inches high, inside lock mortise to keep lock body centered in door.
5. Closer reinforce doors and provide full profile closer reinforcement in frames for full width of opening, whether or not closers are specified.

D. Finish Hardware Preparation:
1. Factory prepare doors and frames to receive mortised and concealed hardware, including cutouts; reinforcing; drilling and tapping, in accordance with approved Finish Hardware Schedule and templates furnished by hardware manufacturers.
2. Factory reinforced doors and frames to receive surface applied hardware. Drill and tap for surface applied hardware at project site.

E. Finish Hardware Locations: Locate hardware reinforcements and mortises so hardware locations comply with requirements of HMMA 831, “Recommended Hardware Locations for Custom Hollow Metal Doors and Frames”, and as follows:
1. Knobs, Levers, Crescents: Centerline 3’2” from finished floor.
2. Mortise Deadlocks: Centerline not to exceed 48” above finished floor.

F. Clearances: Fabricate doors for their respective frames within the following clearances:
   1. Jambs and Head: 3/32 to 1/8 inch.
   2. Meeting Edges of Pairs: 1/8 to 3/16 inch.
   3. Bottom (no threshold): 3/4 inch, maximum to finished surface.
   4. Bottom (at threshold): 3/8 inch, maximum to top of threshold or carpet.
   5. Fire Rated Doors: Comply with clearances specified in NFPA Standard No.80.
   6. Measure door clearances from stile edge to jamb.

G. Factory Prefinish Painting:
   1. Chemically wash, rinse, and dry exposed and concealed surfaces of fabricated units.

   2. Apply one coat of primer with vinyl binder to surfaces and oven-bake units.
   3. Units shall be capable of passing the following tests:
      a. Salt Spray Test complying with ASTM B 117-97 for 120 continuous hours.
      b. Water Fog Test complying with ASTM D 1735-97 for 240 continuous hours.\
   4. Factory pre-finish doors and frames where indicated on the Door Schedule.
      a. Provide custom color(s) as selected by the Director's Representative.
      b. Provide 3 (three) touch-up paint kits for field repair. Turn over remaining paint to the Facility.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Examine substrates, areas, and conditions, with installer present under which frames are to be installed for defects that will adversely affect execution and quality of Work. Do not proceed until unsatisfactory conditions are corrected.

3.02 PREPARATION

A. Prior to installation adjust and securely brace door frames for squareness, alignment, twist, and plumb to the following tolerances:
   1. Squareness: Plus, or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
   2. Alignment: Plus, or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
   3. Twist: Plus, or minus 1/16", measured at opposite face corners of the jambs on parallel lines, and perpendicular to plane of wall.
   4. Plumbness: Plus, or minus 1/16 inch, measured at jamb face on a perpendicular line from head to floor.

B. Drill and tap doors and frames to receive non-templated mortised and surface mounted hardware.

3.03 INSTALLATION

A. General: Install steel doors and frames plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.

B. Frames: Install frame of size and profile indicated. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set.
   1. Remove temporary braces necessary for installation only after frames have been properly set and secured.
   2. Check plumb, squareness, and twist of frames as walls are constructed. Adjust as necessary to comply with installation tolerances.
   3. Installation Tolerances: Adjust door frames for squareness, alignment, twist, and plumb to the following tolerances:
      a. Squareness: Plus, or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
      b. Alignment: Plus, or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
      c. Twist: Plus, or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
      d. Plumbness: Plus, or minus 1/16 inch, measured at jambs at floor.

C. Doors: Fit non-fire-rated doors accurately in frames with the following clearances:
   1. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
   2. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
   3. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.

3.04 ADJUSTING AND CLEANING

A. Final Adjustments:
   1. Check and readjust operating hardware items immediately before final inspection.
   2. Leave work in complete and proper operating condition.
   3. Remove and replace defective work including doors or frames that are warped, bowed, or otherwise unacceptable.

B. Clean foreign materials off steel doors and frames immediately after installation.

3.05 FINAL INSPECTION

A. Upon completion of the project, the Director’s representative will schedule a final inspection to verify doors and frames are properly installed and adjusted. The contractor, door and frame installer, and design representative will attend.

B. Upon verification, the design representative will certify in writing that components are properly installed and adjusted within referenced tolerances in accordance with this specification. Include this certification in the Close-out Submittals.

END OF SECTION

SECTION 081743

COMPOSITE FIBERGLASS DOORS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. AF-100 Smooth Pultruded Fiberglass Door.

1.02 RELATED SECTIONS

A. Section 087100 – Door Hardware.

1.03 REFRENCES

A. AAMA 920 – Specification for Operating Cycle Performance of Side-Hinged Exterior Door Systems.

B. AAMA 1304 – Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems.

C. ASTM-C203 – Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation.

D. ASTM-C272 – Standard Test Method for Water Absorption of Core Materials for Sandwich Constructions.

E. ASTM-C273 – Standard Test Method for Shear Properties of Sandwich Core Materials.

F. ASTM-C518 – Standard Test Method for Steady-State Thermal Transmission Properties by Means of Heat Flow Meter Apparatus.

G. ASTM-C1363 – Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus.

H. ASTM-D1621 – Standard Test Method for Compressive Properties of Rigid Cellular Plastics.

I. ASTM-D1622 – Standard Test Method for Apparent Density of Rigid Cellular Plastics.

J. ASTM-D1623 – Standard Test Method for Tensile and Tensile Adhesion Properties of Rigid Cellular Plastics.

K. ASTM-D1761 – Standard Test Methods for Mechanical Fasteners in Wood.

L. ASTM-D5116 – Standard Guide for Small-Scale Environmental Chamber Determinations of Organic Emissions from Indoor Materials/ Products.

M. ASTM-D6670 – Standard Practice for Full-Scale Chamber Determination of Volatile Organic Emissions from Indoor Materials/ Products.

N. ASTM-E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.

O. ASTM-E90 – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions.

P. ASTM-E283 – Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

Q. ASTM-E330 – Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.

R. ASTM-E1886 – Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.

S. ASTM-E1996 – Standard Specification for Performance of Exterior Windows, Glazed Curtain Walls, Doors and Storm Shutters Impacted by Wind Borne Debris in Hurricanes.

T. ASTM-F1642-04 – Standard Test Method for Glazing Systems Subject to Air Blast Loading

U. NFRC 100 – Procedure for Determining Fenestration Products U-Factors.

V. NFRC 400 – Procedure for Determining Fenestration Products Air Leakage.

1.04 SUBMITTALS

A. Must comply with Section 013300 – Submittal Procedures.

B. Action Submittals/ Informational Submittals.
   1. Product Data.
      a. Submit manufacturer's product data sheets, catalog pages illustrating the products, description of materials, components, fabrication, finishes, installation instructions, and applicable test reports.
   2. Shop Drawings.
      a. Submit manufacturer's shop drawings, including elevations, sections, and details indicating dimensions, tolerances, materials, fabrication, doors, panels, framing, hardware schedule, and finish.
   3. Samples.
      a. Submit manufacturer's door sample composed of door face sheet, core, framing and finish.

b. Submit manufacturer's sample of standard colors for door face and frame.

4. Testing and Evaluation Reports.
   a. Submit testing reports and evaluations provided by manufacturer conducted by an accredited independent testing agency certifying doors and frames comply with specified performance requirements listed in Section 2.04.
5. Manufacturer Reports.
   a. Manufacturer's Project References.
      1) Submit list of successfully completed projects including project name, location, name of architect, type, and quantity of doors manufactured.

C. Closeout Submittals.
1. Operation and Maintenance Manual.
   a. Submit manufacturer's maintenance and cleaning instructions for doors and frames, including maintenance and operating instructions for hardware.
2. Warranty Documentation.
   a. Submit manufacturer's standard warranty.

1.05 QUALITY ASSURANCE

A. Manufacturer's Qualifications.
1. Continuously engaged in manufacturing of doors of similar type to that specified, with a minimum of 25 years concurrent successful experience.
2. Door and frame components must be fabricated by the same manufacturer.
3. Evidence of a documented complaint resolution quality management system.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Delivery.
1. Deliver materials to site in manufacturer's original, unopened, containers and packaging.
2. Labels clearly identify opening, door mark, and manufacturer.

B. Storage.
1. Store materials in a clean, dry area, indoors in accordance with manufacturer's instructions.

C. Handling.
1. Protect materials and finish from damage during handling and installation.

1.07 WARRANTY

A. Warrant doors, frames, and factory installed hardware against failure in materials and workmanship, including excessive deflection, faulty operation, defects in hardware installation, and deterioration of finish or construction in excess of normal weathering.

B. Standard Period.
1. Ten years starting on date of shipment.

C. Limited lifetime
1. Covers failure of corner joinery, core deterioration, and delamination or bubbling of door skin and corrosion of all-fiberglass products while the door is in its specified application in its original installation.

D. Finish
1. Painted AF-100, AF-150 frames, AF-250 frames: 3 years.
2. Thresholds do not have a finish warranty.

PART 2 PRODUCTS

2.01 COMPOSITE FIBERGLASS DOOR

A. Manufacturer.
1. Special-Lite, Inc. BASIS OF DESIGN
2. Chempruf
3. Fib-R-Dor

2.02 DESCRIPTION

A. Model.
1. AF-100 Smooth Pultruded Fiberglass Door.

B. Construction.
1. Door Thickness.
a. 1-3/4".
2. Pultruded as one monolithic panel with integral stiles.
3. Stiles.
a. Seamless 9/16" thick solid FRP.
4. Top Rail.
a. 6" pultruded tube profile designed to fit flush and be chemically welded inside of door cavity.
5. Bottom Rail.
a. Standard pultruded inverted U channel designed to fit flush and be chemically welded inside the door which allows doors to be field trimmed.
b. Optional closed bottom rail.
6. Core.
a. Polyurethane foam.
b. Minimum 6 pcf density.
7. Face Sheet.
a. Smooth, pultruded FRP integral to construction of door.
b. Attachment of face sheet.
1) Door to be pultruded as one monolithic panel.

8. Cutouts.
    a. Manufacture doors with cutouts for required vision lites, louvers, and panels.
9. Hardware.
    a. Pre-machine doors in accordance with templates from specified hardware manufacturers.
    b. Surface mounted closures will be reinforced for but not prepped or installed at the factory.
10. Reinforcements.
    a. No metallic reinforcements will be allowed.

2.03 PERFORMANCE

A. Pultruded Fiberglass Skin.
1. Surface Burning, ASTM-E84: Flame Spread ≤ 25, Smoke Developed ≤ 450.
2. Tensile Strength, ASTM-D638: 12,300 psi.
3. Percent Fiberglass: 50%.

B. Stiles & Rails.
1. Fastener Withdrawal, ASTM-D1761: 894 lbs.

C. Door Core.
1. Surface Burning, ASTM-E84: Flame Spread ≤ 25, Smoke Developed ≤ 450.
2. Density, ASTM-D1622: 6.0 pcf.
3. Compressive Strength, ASTM-D1621: 139 psi.
4. Compressive Modulus = 4,527 psi.
5. Shear Strength, ASTM-C273: 84 psi.
6. Shear Modulus, ASTM-C273: 788 psi.
7. Tensile Modulus, ASTM-D1623: 136 psi.
8. Flexural Strength, ASTM-C203: 204 psi.
9. Flexural Modulus, ASTM-C203: 4,767 psi.
10. K-Factor, ASTM-C518: 0.16 Btu·in/hr·ft²·°F.
11. R-Factor, ASTM-C518: 6.25 hr·ft²·°F/Btu.
12. Water Absorption, ASTM-C272: < 0.7% by volume.

D. Door Panel.
1. Thermal Transmittance, ASTM-C1363-11: U-Factor = 0.13 Btu/hr·ft²·°F, R-Value = 7.42 hr·ft²·°F/Btu.

2.04 FABRICATION

A. Factory Assembly.
1. Door and frame components from the same manufacturer.
2. Required size for door and frame units, shall be as indicated on the drawings.
3. Complete cutting, fitting, forming, drilling, and grinding of metal before assembly.
4. All cut edges to be free of burs.
5. Electrical arc welding of doors or frames is not acceptable.
6. Maintain continuity of line and accurate relation of planes and angles.

7. Secure attachments and support at mechanical joints with hairline fit at contact surfaces.

B. Shop Fabrication
1. All shop fabrication to be completed in accordance with manufactures process work instructions.
2. Quality control to be performed before leaving each department.

2.05 FINISHES

A. Door.
1. Two-part aliphatic polyurethane paint.
a. Color.
1) Clay Tan.
b. Custom colors available consult manufacturer.
c. Unique, high-solid, high-build, multifunctional coating.
d. Low VOC, high-gloss, self-priming coating.
e. Impact Resistance, ASTM-D2794: 140 in·lbs (direct), 50 in·lbs (reverse) @ 5 mils thickness.
f. Taber Abrasion, 1 kg load, 1000 cycles, CS-17 wheel: 60.2 mg.
g. Graffiti cleaning with Amerase with gloss retention: 100 cycles.
h. Chemical Resistance.
1) Excellent.
a) Acidic.
b) Alkaline.
c) Salt Solutions.
d) Seawater.
e) Fresh Water.
f) Petroleum Products.

2.06 ACCESSORIES

A. Fiberglass Vision Lites.
1. Model.
a. All Fiberglass.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine areas to receive doors.

B. Notify architect of conditions that would adversely affect installation or subsequent use.

C. Do not proceed with installation until unsatisfactory conditions are corrected.

3.02 PREPARATION

A. Ensure openings to receive frames are plumb, level, square, and in tolerance.

3.03 ERECTION

A. Install doors in accordance with manufacturer's instructions.

B. Install doors plumb, level, square, true to line, and without warp or rack.

C. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by architect.

D. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by architect.

E. Remove and replace damaged components that cannot be successfully repaired as determined by architect.

3.04 FIELD QUALITY CONTROL

A. Manufacture's Field Services.
   1. The manufacturer's representative shall provide technical assistance and guidance for installation of doors

3.05 ADJUSTING

A. Adjust doors, hinges, and locksets for smooth operation without binding.

3.06 CLEANING

A. Clean doors promptly after installation in accordance with manufacturer's instructions.

B. Do not use harsh cleaning materials or methods that would damage the finish.

3.07 PROTECTION

A. Protect installed doors to ensure that, except for normal weathering, doors will be without damage or deterioration at time of substantial completion.

END OF SECTION

SECTION 085653

SECURITY FRAMING GLAZING SYSTEM

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Security grade aluminum framing channels to receive polycarbonate glazing.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Division 08 Section “Security Glazing” for 1-inch polycarbonate glazing used in security framing systems.

B. Division 07 Section “Joint Sealants.”

1.03 REFERENCES

A. Underwriters Laboratory UL 752-Standard for Bullet Resisting Equipment.

B. ASTM C 1172 - Standard Specification for Laminated Architectural Flat Glass.

C. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

D. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

1.04 ACTION SUBMITTALS

A. Product Data: For each type of framing including manufacturer recommended installation instructions.

B. Shop Drawings: Include plans, elevations, sections. Show window types, quantities, fabrication details, and connections to adjacent construction, including existing jamb, head, and sill conditions, and all associated dimensions. Include documentation of rough in field dimensions obtained for each window location. Include details of screens, hardware, insulation, and glazing details.

C. Samples:
   1. Finish sample: For each exposed finish.
   2. Glazing channel, gaskets and setting blocks: Minimum 12-inch length
      a. Contractor shall coordinate sample with Division 08 Section “Security Glazing” to provide an assembled sample, including a 12” long by 6” high of Type S-7 Glazing.

1.05 INFORMATION SUBMITTALS

A. Product Test Reports: Indicating compliance with requirements.

B. Warranty: Sample of finish warranty

C. Rough Opening Dimensions: Provide a completed 'Rough Opening Dimensioning Verification Chart' documenting all windows. This informational submittal will be reviewed and returned as 'Acknowledged' only as the Contractor is solely responsible for fully verifying and coordinating this data.

1.06 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: Two copies of owner's manual, including instructions for cleaning windows and touching-up finish.

1.07 DELIVERY, STORAGE AND HANDLING

A. Deliver materials to the project site with the manufacturer's UL Listed Labels intact and legible. Handle the materials with care to prevent damage. Store materials inside and under cover, stack flat and off floor. Project conditions (temperature, humidity, and ventilation) shall be within the maximum limit recommendations provided by manufacturer. Do not install products stored in conditions outside manufacturer's recommended limits.

1.08 WARRANTY

A. Workmanship Warranty: All materials shall be warranted against defects for a period of one (1) year for the date of receipt at the project site. Provide certificates of manufacturer's standard limited warranty with closeout documents.

B. Finish Warranty: Manufacturer's warranty against deterioration of factory finishes for the period of five (5) years from the date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURED UNITS

A. Security Glazing Framing System Basis of Design: ASTM B209 and ASTM B221 aluminum channel framing for 1" polycarbonate glazing, for security installations, 601-T6 alloy, and as described below; Series BL2.5 One Piece Channel for Fixed System as manufactured by Total Security Solutions or a comparable product by one, but not limited to, of the following manufacturers:
   1. Insulgard Security Products
   2. Armortex
      a. Nominal Size: 2 1/2" wide x 1 3/4" high
      b. Glazing Thickness: 1-inch Type S-7 polycarbonate security glazing
      c. Accessories: Manufacturer's recommended glazing gaskets and setting blocks

d. Head and sill shall be one piece extrusions with no integral weep system at the sill.
e. Jambs shall be two piece extrusions with removable faces to allow for re-glazing.
f. All joints and connections shall be tight, providing hairline joints and true alignment of adjacent members.
g. Glazing must not be removable from the shower side of the sash.

B. Field alterations to the construction of the assembly fabricated under the acceptable standards are not allowed unless approved in writing by the manufacturer and the Director's Representative.

C. Standard manufacturing tolerances +/- 1/16" shall be maintained.

D. Materials shall meet or exceed UL 752 requirements.

2.02 FABRICATION

A. Aluminum sections to be manufactured in accordance with ASTM B209, Extruded aluminum alloy 6063 T5 and be free of sharp edges or burrs when in place.

B. Glazing Channel: U-Channel specifically designed for securing transparencies tightly in place. Angles and stops are only acceptable for top attachment. All exposed aluminum edges shall be clean cut and have no burrs. Exposed corners shall be rounded and sanded.

C. Tolerances: All joints and connections shall be tight, providing hairline joints and true alignment of adjacent members

2.03 FRAME FINISH

A. Factory-applied finish:
1. Clear Anodic Finish - Satin: Architectural Class I, clear coating AA-M10C22A41 Mechanical Finish Chemical Finish: etched, medium matte; 0.70 mils minimum complying with AAMA 611 "Voluntary Specification for Anodized Architectural Aluminum"
2. The bottom of the glazing to be capped with corresponding material on the frame.

2.04 GLAZING

A. Glazing shall be Type S-7 as per Division 08 Section "Security Glazing".

B. Glazing gaskets:
1. Interior: Closed cell neoprene.

2.05 ACCESSORIES

A. Anchors: Manufacturers' recommended fully concealed fastener's and anchors.

B. Mounting plates and connecting clips shall be fabricated from 1/8" thick clear polycarbonate.

PART 3 EXECUTION

3.01 PREPARATION AND EXAMINATION

A. Prior to beginning installation, verify that all supports have been installed as required by the Contract Documents and architectural drawings, and Shop Drawings have been approved.

B. Notify Director's Representative of any unsatisfactory preparation that is responsibility of others.

C. Clean and prepare all surfaces per manufacturers recommendations as required for achieving the best results for the substrate under the project conditions.

D. Verify field dimensions of openings prior to fabrication of framing.

E. Coordinate structural requirements to ensure proper attachment and support.

F. Verification of Conditions: Examine surfaces to receive detention windows for defects that will adversely affect the execution and quality of the Work. Do not proceed until unsatisfactory conditions are corrected.

1. Commencement of installation shall indicate acceptance of existing and field conditions.

3.02 INSTALLATION

A. Do not begin installation until openings have been verified and surfaces properly prepared in accordance with Manufacturer's recommendations.

B. Install in accordance with manufacturer's instructions and UL 752. Set all equipment plumb.

C. All products shall be installed per installation instructions provided by Manufacturer.

D. Security window units shall arrive on site completely pre-fabricated to field dimensions.

E. Install framing and secure to structure in accordance with manufacturer's recommendations.

F. Provide required support and securely fasten and set windows plumb, square, and level without twist or bow.

G. Apply sealant in accordance with window and sealant manufacturer's recommendations as indicated in installation instructions.

H. Remove excess sealant and leave exposed surfaces clean and smooth.

3.03 PROTECTION

A. Clean and protect windows from damage during ongoing construction operations. If damage occurs, remove and replace as required to provide windows in their original, undamaged condition.

B. Inspection and Cleaning: Verify installation is complete and complies with manufacturer's requirements.

C. Provide final cleaning of product and accessories, removing excess sealant, labels and protective covers.

D. Touch-up, repair or replace damaged products prior to Substantial Completion.

END OF SECTION

SECTION 087100

DOOR HARDWARE

PART 1 GENERAL

1.01 REFERENCES

A. NFPA 101 Life Safety Code (2006).

B. Building Code of New York State (2010).

C. ICC/ANSI A117.1-2003 Accessible and Usable Buildings and Facilities.

D. ANSI/BHMA Standard A156.4 Door Controls – Closers (2008).

E. ANSI/BHMA Standard A156.6 Architectural Door Trim (2005).

F. ANSI/BHMA Standard A156.8 Door Controls – Overhead Stops and Holders (2005).

G. ANSI/BHMA Standard A156.13 Mortise Locks and Latches Series 1000 (2005).

H. ANSI/BHMA Standard A156.18 Materials and Finishes (2006).

I. ANSI/BHMA Standard A156.26 Continuous Hinges (2006).

J. DHI - Door and Hardware Institute.

K. 2010 Standards for State and Local Government Facilities: Title II.

1.02 DEFINITIONS

A. Architectural Hardware Consultant (AHC): A Door and Hardware Institute certified expert in complex architectural openings requiring advanced knowledge of model building codes and safety standards, ADA requirements, access control knowledge and installation expertise.

B. Architectural Hardware Distributor: A company that regularly purchases architectural hardware from manufacturers and specializes in the sale, service, and support of that hardware to contractors and/or end users.

C. Company Field Advisor(s): Hardware manufacturers' representatives who are certified in writing by manufacturer to be technically qualified in design, installation, and servicing of products.

D. Installation Supervisor: Designated supervisor/installer, who has a minimum of three years' experience in finish hardware installation and is qualified and responsible to ensure approved finish hardware is installed, adjusted, and operates properly.

E. Benchmark: Finish hardware installed on full size door and frame assembly that is constructed on-site. Benchmarks are constructed to verify qualities of materials and execution; to review coordination between frames, doors, and architectural hardware; to show interface between partitions and frames; and to demonstrate compliance with specified installation tolerances. Benchmarks are not samples. Unless otherwise indicated, approved benchmarks establish the standard by which the Work will be judged. The approved benchmark may be incorporated into the work of this section.

1.03 SUBMITTALS

A. Waiver of Submittals: The Waiver of Certain Submittal Requirements in Section 013300 does not apply to this Section.

B. Re-Evaluation Fee: In accordance with the General Conditions 07213 Article 4.7.

C. Submittal Package Cover Sheets: The Hardware Distributor shall provide a cover sheet, which identifies each package by:
1. OGS project number.
2. Project name.
3. Facility name and location.
4. Submittal Package name.
5. Specification section name and number.
6. Construction Contractor's company name, address, e-mail address, and telephone number.
7. Finish Hardware Distributor's company name, address, e-mail address, and telephone number.
8. Certified Architectural Hardware Consultant's name, company name, address, e-mail address, and telephone number.
9. Submittal Date.

D. Submittal Packages
1. Quality Control Package: Do not submit balance of packages until this package is approved.
    a. Architectural Hardware Consultant Data:
        1) Provide name, business address, and telephone number of DHI certified Architectural Hardware Consultant.
        2) Submit photocopy of Door and Hardware Institute's certificate demonstrating individual is an Architectural Hardware Consultant.
    b. Company Field Advisor Data:
        1) Provide name, business address, and telephone number of Company Field Advisor(s) for continuous hinges, door bolts, locksets, overhead stops, door closers, and gaskets.
        2) List services and products for which company field advisor(s) is/are certified by manufacturer. Provide written certifications.
    c. Hardware Distributor's Qualification Data:
        1) Provide the Finish Hardware Distributor's company name, address, e-mail address, and telephone number.

2) Provide the hardware distributor's company history, including number of years in the hardware distribution business, the number of AHC's employed, and the number of employees. Describe the distributor's major market.

3) Include the names and contact information of physical plant managers for 3 facilities, similar to this project, for which the distributor has furnished architectural hardware within the past 2 years.

d. Supervisor's/Installer's Qualification Data:

1) Name of Supervisor and each installer performing Work, and employer's name, business address and telephone number.

2) Names and addresses and contact information of physical plant managers for 3 facilities, similar to this project, on which each installer has worked on during the past 2 years.

2. Finish Hardware Package:

a. Finish Hardware Schedule: Use vertical format and indicate finish hardware items, both mechanical and electrical in one document, required to complete Work of this section. Submit Hardware Schedule that includes complete hardware sets for each door and frame shown on Door Schedule.

1) Preface schedule with following:

a) Certified Architectural Hardware Consultant's statement of preparation of/or certification of Finish Hardware Schedule.

b) Index.

c) List of manufacturers.

d) List of finishes.

e) Explanation of abbreviations.

f) Keying instructions and key schedule.

2) Create hardware groups, each group consisting of similar doors and hardware. Do not combine labeled and non-labeled openings. Do not combine doors and frames with dissimilar door sizes and/or materials.

3) For each opening include the following:

a) Door and frame materials and dimensions.

b) Fire rating.

c) Door number, location, and handing.

d) Degree of opening required for closer and/or overhead stop.

e) Installation and detailing notes.

4) Under each group heading, list hardware items in detail, required for ordering. For each hardware item include:

a) Type (Hinges).

b) Quantity (Hinges 3ea).

c) Manufacturers' name (Hinges 3ea Stanley).

d) Catalog number (Hinges 3ea Stanley FBB199).

e) Size (Hinges 3ea Stanley FBB199 4 ½ x 4 ½).

f) Options or accessories (Hinges HTFBB199 4 ½ x 4 ½).

g) Finish (Hinges HTFBB199 4 ½ x 4 ½ x 630).

h) Fasteners (Hinges HTFBB199 4 ½ x 4 ½ x 630 x torx with center security pin).
i) Indicate location of protection plates: Push side or pull side.
j) Installation Notes, as written in this section, for each hardware group.

5) Use a separate hardware group in Hardware Schedule that lists attic stock hardware items, key cabinets, key control system, special tools required to install hardware, lubricants, and Operations and Maintenance Manuals.

b. Product Data: Furnish six copies of manufacturers' catalog sheets, specifications, sizing charts, and installation instructions, for each item specified. Highlight information pertaining specifically to product (s) submitted.

c. Submit samples as requested.

3. Closeout Submittals Package: Submit as a complete package.

a. Operation and Maintenance Manuals: Furnish 2 hardcover three ring binders with the project name and number displayed on the front cover and spine. Include:

1) List of Manufacturers.
2) Approved Finish Hardware Schedule.
3) Approved Manufacturers' Product Data Sheets.
4) Manufacturer's operation, installation, maintenance, and repair instructions for each type of hardware furnished.
5) Templates for kind of hardware furnished.
6) Parts List for each type of finished hardware furnished.
7) Manufacturers dated written warranty for each type of finish hardware furnished.
8) Certifications: Written certification from Company Field Advisors that their products are installed according to manufacturers' printed installation instructions, are operating properly, and manufacturers' written warranty will be in effect upon physical completion of the Work.
9) Special Tools: List of special tools required to install hardware, and their purpose.

b. Special Tools:

c. At conclusion of finish hardware installation, turn over to Director's Representative 2 of each special tool required to install hardware together with a list of these tools and their purpose.

1.04 TEMPLATES

A. After receipt of approved submittals, furnish templates to affected trades, to enable fabricators to make provision for finish hardware without delaying the Work of the Project.

1.05 DELIVERY AND STORAGE

A. Coordinate delivery to avoid delay.

B. Clearly label each item for identification and installation location as it corresponds to the approved Finish Hardware Schedule and subsequent information bulletins.

C. Deliver hardware to the jobsite in the manufacturers' original packages complete with fasteners, parts, installation instructions, and templates required for proper installation.

D. Inventory hardware at jobsite to identify shortages or backorders. Resolve delivery shortages and damaged items prior to installing hardware.

E. Store finish hardware where directed by Director's Representative. Provide locked, dry storage for finish hardware.

1.06 QUALITY ASSURANCE

A. Hardware Distributor's Qualification:
   1. Hardware Distributor who has been in the business of furnishing, and/ or installing finish hardware for a minimum of three years.
   2. Hardware Distributor shall have the DHI certified Architectural Hardware Consultant prepare or certify the Finish Hardware Submittal meets specification requirements, and the schedule is written accurately and in accordance with DHI recommendations, and requirements of this specification.

B. Company Field Advisors: Employ advisor(s) for continuous hinges, door bolts, mortise locksets, surface overhead stops, door closers, and gaskets.

C. Installation Supervisor: Employ a qualified Installation Supervisor who will be responsible for ensuring approved finished hardware is installed, adjusted, and operates properly.

D. Installers: Employ experienced finish hardware installers who have been regularly employed by a Company installing finish hardware for a minimum of 5 years.

E. Pre-submittal Conference: Before Finish Hardware Submittals are written for submission, the Director's Representative will call a teleconference to review Finish Hardware Submittal requirements including but not limited to format, cover sheet, headings, hardware sets, level of detail, installation notes, description of operation, keying, and product data sheets. The Contractor, the Finish Hardware Distributor, the Finish Hardware Detailer, and consulting hardware designer, and OGS Designers shall attend. The OGS Finish Hardware Reviewer shall conduct the conference.

F. On Site Pre-installation Conference: Before finish hardware installation begins, the Director's Representative will call a conference at the site to review Finish Hardware Specifications, approved Finish Hardware Submittals, and to discuss requirements for the Work including:
   1. Hardware delivery and storage.
   2. Hardware labeling by door number.
   3. Hardware locations.
   4. Potential location conflicts.
   5. Hardware installation sequence and responsibility.
   6. Required accessories and fasteners.
   7. Continuous hinge installation.
   8. Surface overhead stops and closer template and adjustments.
   9. Special tools and maintenance items.
   10. Hardware Closeout requirements.
   11. Hardware Warranties.

G. Pre-installation Conference Attendance: The Construction Contractor, Company Field Advisors, authorized Finish Hardware Installers, and the Finish Hardware Distributor's Architectural Hardware Consultant shall attend the conference. OGS's Finish Hardware Reviewer conducts the meeting. OGS designers and facility personnel may attend. The Company Field Advisors will present installation instruction and advice.

H. Pre-Benchmark-Construction Meeting: Prior to the construction of the mock-up, a meeting will be held at the site to review the requirements and discuss the intent of the mock-up. The meeting will be scheduled by the Director's Representative and conducted by the Hardware Designer. The meeting shall be attended by the Director's Representative, the Hardware Designer, the Contractor's onsite foreman, the person supervising this phase of the Work (if different), and the person (people) who will be performing the work.

I. Construction of Benchmark: Before installing portions of the Work requiring benchmarks, install benchmarks for each form of construction required to comply with the following requirements, using materials indicated for the completed Work.
   1. Build hardware benchmark in door and frame assembly, specified in section 081102, in locations as directed, and include continuous hinge, lockset, closer, surface overhead stop and gaskets.
   2. Notify the Director's Representative in advance of dates and times when benchmark will be constructed.
   3. Install benchmark with supervisor oversight and workers who will be employed during the construction of the Work.
   4. Construct benchmarks using the exact materials, products, methods, and workmanship that were approved for the Work.
   5. Obtain Director's Representative's approval of benchmarks before starting work, fabrication, or construction.
   6. Maintain benchmarks during construction in an undisturbed condition as a standard for judging the completed Work.
   7. Failure to maintain this standard of quality will be cause for rejection of the Work.
   8. Benchmarks may be used in the Work unless otherwise indicated.

J. Uniformity of Hardware and Single Source Responsibility: For each kind of hardware provide product(s) of a single manufacturer.

K. Size Variations: Manufacturers' products may vary slightly from sizes specified except where minimum size or thickness is specified.

1.07 WARRANTY

A. Manufacturer's Warranty: Thirty-year minimum warranty for door closers.

B. Manufacturer's Warranty: Five-year minimum for locksets.

1.08 MAINTENANCE

A. Special Tools: At the conclusion of finish hardware installation, turn over to Owner's Representative 2 sets of each special tools required for proper installation and adjustment of hardware, together with a list of these tools and their purpose.

B. Lubricants: Provide manufacturer's recommended lubricants for locksets and closers sufficient for 1 year of maintenance. Turn over to Director's Representative.

PART 2 PRODUCTS

2.01 ACCESSORIES

A. Provide brackets, plates, arms, spacers, and special templates to mount door closers in combination with overhead stops and coordinators, on narrow top rails and for special ceiling and jamb conditions.

B. Provide curved lip strikes, with wrought boxes, specific to individual lock functions. Universal strikes that fit a variety of lock functions are not acceptable.

2.02 FASTENINGS

A. Provide fasteners that harmonize with finish hardware material and finish.

B. Provide torx center pin security fasteners for exposed hardware, including full mortise hinges.

C. Provide machine screws for hardware secured to metal, and machine screws and metal expansion shields for attachment to masonry substrates. Self-tapping or self-drilling screws are not acceptable.

D. Provide undercut shallow head torx center pin security fasteners where necessary for proper seating.

E. Attach door closers and overhead stops with sex bolts.

2.03 MATERIALS AND FINISHES

A. General: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of finish hardware are indicated in this section and in the Hardware Groups.

B. Continuous Hinges
   1. Full height barrel-type manufactured from 14-gauge 304 stainless steel.
   2. .25" diameter stainless steel pins.
   3. Provide hinges without covers.

C. Locks, Latches and Bolts
   1. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.
   2. Provide 3/4" minimum throw on other latch bolts.
   3. Provide 1" minimum throw deadbolts.

D. Closers and Door Control Devices
   1. Closer bodies: Provide closer bodies with the same hole template pattern regardless of type or application.
   2. Closer arms: Non-handed forged steel.
   3. Closer size: Provide sized closers.
   4. Provide all-weather fluid to eliminate seasonal adjustment of closer speed.
   5. Powder coat closer body, arm, and adapter plate or pre-treat closer body, arm, and adapter plate with rust-inhibiting coating before painted finish is applied.

2.04 FINISH HARDWARE

A. Group 1: Doors: 202.1, 202.2, 322.1, 322.2, 322.3, 322.4, 322.5, 346.1, 346.2, 346.3, 346.4, 346.5.
   1. Continuous Hinge: 1 ea. – ABH AC500 x length of door x US32D (630).
   2. Storeroom Lock: 1 ea. – Sargent 36-72-9204 BHL WBS US32D (630)
   3. Core: 1 ea. – 1CX-6-**-X-2 US26D (626).
   4. Overhead Stop: 1 ea. – ABH HD7010 x Sec Torx US32D (630).

B. Group 2: Doors 317.1, 318.1, 319.1, 326.1, 327.1, 328.1
   1. Continuous Hinge: 1 ea. – ABH AC500 x length of door x US32D (630).
   2. Hinges filler plates: 3 ea. – Size and type required x USP.
   3. Lock: 1 ea. – Accurate 9168SEC 234 134DT FRP CS x CP-2C x SFIC x US32D (630).
   4. Lock Strike: 1 ea. – Match existing size x US32D (630).
   5. Cylinder Housings: 2 ea. – Mortise.
   6. Cores: 2 ea. – 1CX-6-**-X-2 US26D (626).
   7. Overhead Stop: 1 ea. – ABH 1023A x Sec Torx x US32D (630)

C. Group 3: Doors 383A.1, 383A.2, 385A.1, 385A.2, 389A.1, 389A.2, 393A.1, 393A.2.
   1. Continuous Hinge: 1 ea. – ABH AC500 x length of door x US32D (630).
   2. Storeroom Lock: 1 ea. – Sargent 36-72-9217 BHLWBS US32D (630)

3. Cores: 2 ea. – 1CX-6-**-X-2 US26D (626).
4. Wall Stop: 1 ea. – Rockwood 400 x Sec Torx x US26D (626).

D. Group 4: Furnish a quantity of 1 (one) as follows:
1. Key Blanks - 300 Best 1AX-*-**-X-2.
2. Combinatted Cores - 1250 1CX-6-**-X-2 US26D (626).
3. 1 set Special Tools: See paragraph 1.09 A.
4. Lubricants: See paragraph 1.09 B.
5. 2ea Maintenance and Operations Manuals.

2.05 KEYING

A. Provide Small Format Interchangeable Core, patented 6-pin key system established for the Facility.
1. Manufacturers:
a. Best – Coremax X Series
2. Stamp key symbol on one side of key, and "Do Not Duplicate" on other side of key.
3. Furnish one copy of the factory bitting list to the facility.
4. Factory key cylinders.
5. Furnish 5 cut keys for each master key.
6. Furnish 7 cut keys for each keyed lockset.
7. These cut key quantities are for bidding purposes only. The actual number of cut keys required will be determined at the keying meeting.
8. When lockset and cylinder are by different manufacturers, identify and furnish correct cylinder cam to operate lockset.
9. Provide compression rings and spacers to achieve proper spacing relationship between cylinder and face of door.
10. Provide Two-digit zip code exclusive keyway.

B. Keying Conference
1. Immediately following contract award, Director's Representative will schedule a keying conference to develop a written key schedule that reflects Facility's specific keying requirements.
2. Facility Representative(s), Hardware Distributor, Consulting Hardware Designer, and OGS's Hardware Designer will attend.
3. Incorporate this schedule in Finish Hardware Submittals for approval.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine doors and frames and related items for conditions such as, but not limited to, incorrect handing, hardware preparation, misaligned lock, and strike preparations, which would prevent proper application of finish hardware. Do not proceed until defects are corrected.

B. Report conditions or hardware applications that are incorrect to the Director's Representative.

3.02 INSTALLATION

A. Do not proceed with installation of finish hardware prior to attending referenced pre-installation conference.

B. Installation Sequence: Use proper installation sequence, i.e., install coordinators, and overhead stops and holders before surface mounted door closers.

C. Install hardware in accordance with manufacturer's printed installation instructions, and adjust for smooth operation, free of sticking, binding, or rattling.
   1. Template surface overhead stops and holders for proper operation.
   2. Template and adjust closers for proper operation.

D. Use proper tools and methods to prevent scratches, burrs, or other defacement.

E. After installation, cover and protect hardware to prevent damage during remaining construction. Remove protection upon completion of construction.

3.03 LOCATIONS

A. Locate hardware as follows:
   1. Door Closers: Template for maximum door swing allowed by wall placement and jamb conditions. Where the overhead stop prevents door from swinging to wall, template the closer to exceed degree of opening allowed by overhead stop.
   2. Protection Plates: 1/8 inch from door bottom.
   3. Wall Stops: Centerline of bumper to match centerline of locking trim.

3.04 FIELD QUALITY CONTROL

A. Post Installation Review: After hardware is adjusted for proper operation, Director's Representative will hold a Post-Installation Review with the Contractor, Hardware Designer, Company Field Advisors, Hardware Distributor and Hardware Installers.
   1. Physically inspect to verify proper application, installation, adjustment, and operation of finish hardware, and in particular that:
      a. Latches engage freely without binding. Filing of strike plates to relieve latch bind is not acceptable.
      b. Closers are adjusted for proper spring power; sweep speed, latching speed; and hydraulic back check.
      c. Locations and proper attachment of installed protective hardware are as specified.
      d. There is no field modification of fasteners.
      e. Damaged fasteners are replaced.
   2. Defective hardware is repaired or replaced.
   3. Hardware is to be left clean and free from disfigurement.

B. Turn referenced Operations and Maintenance Manuals over to Facility through Director's Representative.

END OF SECTION

SECTION 088853

SECURITY GLAZNG

PART 1 GENERAL

1.01 SUMMARY

A. This Section includes:
   1. Type S-4 Security Gazing
   2. Type S-11 Glazing

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Division 08 Section “Steel Doors and Frames”

B. Division 08 Section “Security Glazing Framing”

1.03 REFERENCES

A. American Society for Testing and Materials (ASTM), ASTM International, 100 Barr Harbor Dr., PO Box C700, West Conshohocken, PA, 19428-2959, www.astm.org

B. H. P. White Laboratory, Inc., 3114 Scarboro Rd., street, 21154-1822, www.hpwhite.com.

C. Glass Association of North America, 2945 SW Wanamaker Dr., Suite A, Topeka, KS 66614-5321, www.glasswebsite.com.

D. American Architectural Manufacturers Association, 1827 Walden Offce Square, Suite 550, Schaumburg, IL 601734268, www.aamanet.org.

1.04 DEFINITIONS

A. Sheet Materials: The term "Sheet Materials" as used in this Section refers to glass clad and engineered polycarbonate sheets fabricated for forced-entry resistance.

1.05 SUBMITTALS

A. Waiver of Submittals: The "Waiver of Certain Submittals Requirements" in Section 013300 does not apply to this Section.

B. Product Data: Catalog sheets, specifications, glazing details, and installation instructions for each type of sheet materials, and glazing materials specified.

C. Samples:
1. Sheet Materials: 12 x 12 inch pieces for each type specified.
2. Setting blocls: Full size, not less than 4 inches long.
3. Glazing Tape: 4 inches long.
4. Color Samples for Glazing Materials: Manufacturer's standard colors.
5. Spacer Shims: 4 inches long.

D. Quality Control Submittals:
1. Test Reports: Test data to substantiate sheet material assemblies compliance with the requirements of this Section.
2. Certificate: Affidavit required under Quality Assurance Article.
3. Manufacturer's Qualifications Data: Written certification that the manufacturer has been actively marketing security glazing materials for the past 3 years.
4. Installer's Qualifications Data:
   a. Name of each person who will be installing the Work of this Section and their employer's name, business address and telephone number.
   b. Names and addresses of 3 similar projects that each person has worked on during the past 5 years.

E. Compatibility: Written certification from sheet materials manufacturer that all proposed glazing materials are compatible with specified sheet material.

F. Submit an Environmental Product Declaration (EPD) from the manufacturer for glass within this specification section, if available. A statement of the contractor’s good faith effort to obtain the EPD shall be provided if not available.
1. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 *Environmental labels and declarations*, ISO 14044 *Environmental management – Life cycle assessment*, and ISO 21930 *Core rules for environmental product declarations of construction products and services*

G. Contract Closeout Submittals:
1. Maintenance Data: Deliver 2 copies, covering installed products, to the Director's Representative.

1.06 QUALITY ASSURANCE

A. Testing Laboratory: Independent testing laboratory with the test facilities, experience, and capability to demonstrate the proposed sheet material assemblies compliance with the requirements of this Section to the satisfaction of the Director.

B. Certification: Affidavit by the sheet material manufacturer, certifying that chemically strengthened glass was cut to final size before treatment.

C. Manufacturer's Qualifications:
   1. The manufacturer shall have been actively marketing security glazing materials in the United States for a minimum of 3 years.
   2. The manufacturer shall have the technical expertise and qualified technical representatives to resolve questions or problems that may arise both during and after the Work is completed.

D. Installer's Qualifications: The persons installing the security glazing and their Supervisor shall be personally experienced in security glazing systems and shall have been regularly employed by a Company installing security glazing systems for a minimum of 5 years.

E. Product Identification Labels:
   1. Identify each piece of forced entry resistant sheet material with a one inch high x 3 inches long self-adhesive transparent label, indicating the manufacturer and product name. Place the stencil on the glass, if applicable, readable from the secure side. Locate label in the upper right corner 2 inches from the top and side of the frame.

F. Laminated Glass Imperfections: Imperfections such as bubbles, blow-in, fuse, hair, lint, inside dirt (dirt spot), delamination, discoloration, short interlayer, unlaminated area chip, interlayer scuff, streak, scratches, will be cause for rejection of product. Comply with ASTM C-1349 for Glass Clad Polycarbonates.

G. Mismatch of Laminations:
   1. Maximum Allowable Mismatch: 3/16 inches.
   2. Length and Width Tolerances of Symmetrical Glass Clad Polycarbonate Laminates: Comply with ASTM C 1349, Table 2.

1.07 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store sheet material assemblies with manufacturer' s labels intact.

B. Deliver exposed polycarbonate sheets with strippable water resistant protective masking intact. Do not capture protective masking in frame when installing sheet material. Protective masking to remain intact during installation. Where sheet material is in direct sunlight, remove protective masking.

C. Protect sheet material assemblies from damage during handling, storage, and installation.

1.08 PROJECT CONDITIONS

A. Environmental Requirements: Comply with glazing materials manufacturer's printed recommendations regarding environmental conditions under which glazing materials can be installed.

1.09 MAINTENANCE

A. Extra Material: Furnish 5 percent (minimum of one piece) of each size of Type S-4 and S-7 Sheets required for the Project. Deliver in the manufacturer's original container labeled with the size and location to be used. Store at the Site where directed.

PART 2 PRODUCTS

2.01 COMPANIES

A. SABIC Innovative Plastics, Structured Products Department, One Plastics Ave., Pittsfield, MA 01201-3662, (800) 451-3147, www.geplastics.com.

B. Global Security Glazing 616 Selfield Rd., Selma, AL 36703-8702, (800) 6332513, www.security-glazing.com.

C. Standard Bent Glass Corporation, P.O. Box 469, Butler, PA 16003-0469, (800) 634-9252, www.standardbent.com.

D. Oldcastle Glass, 375 East Church Ave., Telford, PA 18969-1003, (800) 7503497, www.ol/castleglass.com.

E Sheffield Plastics, Inc., 119 Salisbury Rd., Sheffield, MA 01257-9706, (800) 628-5084, www.sheffieldplastics.com.

F. North American Specialty Glass, LLC, 2175 Kumry Rd., PO Box 70, Trumbauersville, PA 18970-0070, (888) 785-5962, www.naspecialtyglass.com.

G. Dlubak Corporation, 520 Chestnut Street, Blairsville, PA 15717, (800) 3360562, www.dlubakglass.com

2.02 MATERIALS

A. Chemically Strengthened Float Glass: ASTM C 1036, Type I (transparent glass, flat), Class 1 (clear), quality Q3 (gla.zing select), chemically tempered. Modulus of Rupture 30,000 psi. Cut chemically strengthened glass to final size and seam edges before treatment.

B. Polycarbonate: Extruded polycarbonate, UV stabilized, mar-resistant surface coating, smoke density rating less than 75, ASTM D 2843; extent of burning characteristics less than one inch when tested in accordance with ASTM D 635.

C. Interlayer For Laminating Polycarbonate To Glass: Polyurethane, as recommended by the sheet manufacturer, specifically designed for lamination, with demonstrated long-term ability to maintain physical and visual properties under installed conditions.

D. Interlayer for Laminating Polycarbonate to Polycarbonate: Polyurethane as recommended by the sheet manufacturer, or clear siloxan/polycarbonate copolymer resin, not to exceed 15 mils thick.

E. Interlayer for Laminating Glass To Glass: Polyvinyl butyral interlayer specifically designed for lamination, with demonstrated long-term ability to maintain physical and visual properties under installed conditions.

2.03 FORCED ENTRY RESISTANT SECURITY GLAZNG TYPES

A. Type S-4 Sheet:
   1. Glass Clad Polycarbonate Laminate Sheet: Chemically strengthened clear glass laminated to each side of a polycarbonate core, fabricated to produce the required forced entry resistance listed below.
   2. Forced Entry Resistance: H.P. White TP-0500.01 Level 1, or ASTM F1915 Grade 4.
   3. Overall Nominal Thickness: 9/16 inch.
   4. Color: Clear.
   5. Products:
      a. Secure-Tem + Poly 2117 by Global Security Glazing.
      b. ICGCP 916 CS by Standard Bent Glass.
      c. 9/16” ArmorProtectPlus by Oldcastle Glass.
      d. D-FenceGlas DFG 9/16 by North American Specialty Glass.
      e. DGCP562 by Dlubak Corp.

B. Type S-11 Sheet:
   1. Engineered polycarbonate resin sheet, laminated, with center digital printed image and as indicated below:
   2. Overall Nominal Thickness: 1- inch.
   3. Interlayer: 50% clear, 50% translucent
   4. Basis of Design: Koda XT, Digital Print (Half Clear/Half OP2 White), PID 408742 with Patent/Patent finish; as manufactured by 3form LLC or a comparable product by one, but not limited to, of the following:
      a. Lumicor
      b. Riot Glass
   5. Location: Shower partition glazing

2.04 GLAZING MATERIALS

A. Setting Blocks: Comply with ASTM C 864, Shore A durometer hardness of 85 +1- 5 percent ASTM Test Method D 2240. Provide compatible setting blocks specifically recommended by the by the sheet material manufacturer for use with sheet materials and glazing materials used.

B. Spacer Shims: Shore A durometer hardness of 50 to 60 ASTM Test Method D 2240. Provide compatible spacer shims of material, size, and shape specifically recommended by the sheet material manufacturer for the materials used.

C. Glazing Tape: Preformed, 100 percent solid, butyl-based elastomeric tape or ribbon (coiled on release paper), non-staining and non-migrating, with continuous built-in shim (pre-shimmed), if recommended in writing by the glazing manufacturer for the application indicated, comply with AAN•fA 800.

D. Glazing Sealant: Silicone, ASTM C 920, Type S, Grade NS, Class 25, Use G. Veri%/ compatibility of sealant with sheet material other glazing materials, and frame with sealant manufacturer.

F. Sealant Colors: For exposed materials provide color as indicated or, if not indicated, as selected by the Director from the manufacturer's standard colors. For concealed materials, provide any of the manufacturer's standard colors.

G. Cleaners, Primers, and Sealers: Types recommended by glazing material manufacturer, compatible with polycarbonate.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine glazing channels and stops for defects that will prevent satisfactory installation of sheet glazing system. Report unsatisfactory conditions to the Director in writing. Do not proceed with installation until unsatisfactory conditions have been corrected.

B. Inspect each piece of sheet material immediately before installation. Remove from the Site pieces that have observable damage or face imperfections.

3.02 PREPARATION

A. Remove coatings that are not firmly bonded to the substrate.

B. Clean the glazing channel, and other framing members to receive sheet material, immediately before glazing.

C. Immediately prior to installation, peel back factory applied protective masking only to a dimension sufficient for edge engagement. Do not totally remove masking from sheet.

3.03 INSTALLATION

A. Each installation shall withstand normal temperature changes without sheet material delamination, failure of glazing materials to remain watertight and airtight, deterioration of glazing materials and other defects in the work.

B. Install sheet and glazing material in accordance with the recommend standards detailed in the "Glazing Manual" of the Glass Association of North America except as indicated and specified otherwise, and except as specifically recommended otherwise by the manufacturers of the sheet material and glazing materials.

C. Primer: Apply primer to surfaces when recommended by glazing material manufacturer.

D. Setting Blocks:

1. Install a minimum of 2 identical setting blocks sized to provide 0.1 inch long for each square foot of sheet material area but not less than 4 inches long.
2. Height of setting blocks to provide the recommended nominal bite and minimum edge clearance for the security glazing used.
3. Width as required providing proper support of sheet materials but allowing water passage to weep holes.
4. Install at quarter points in heal bead of sealant, do not block weeps.

E. Glazing Tape:

1. Cut glazing tape to proper length prior to application. Install strips in 4 separate sections. Do not run continuously around corners.
2. Install tape continuously against permanent stop 3/16 to 1/4 inch below sightline. Do not permit gaps or joints in tape except at comers. Do not lap adjoining lengths of tape. Miter or butt ends of tape at corners and seal with compatible sealant.

F. Sheet Glazing: Set sheet material on setting blocks and press against tape with sufficient pressure to ensure full contact and adhesion at perimeter. Install removable stop.

G. Spacer Shims: Insert continuous spacer shims between sheet material and applied stop to keep sheet in compression against tape, do not displace glazing tape. Install shims in 4 separate sections. Do not run continuously around comers, or come in contact with sheet material cut edges.

H. Glazing Sealant:

1. Install continuous cap bead on both sides of sheet material.
2. Force sealant into channel to eliminate air pockets and voids and to ensure a complete bond of sealant to sheet material and framing.
3. Tool exposed surfaces of sealant eliminate air pockets and to provide a substantial "wash" away from sheet material.
4. Clean off excess sealant as work progresses using methods that will not damage sheet or glazing material.
5. Cure gluing materials in accordance with manufacturer' s instructions and recommendations, to obtain high early bond strength, intemal cohesive strength, and surface durability.

3.04 PROTECTION AND CLEANING

A. Remove factory installed protective masking from sheet that is in high humidity or direct sunlight immediately after installation. Prolonged exposure can make removal of masking difficult.

B. Mark glazed openings immediately upon installation of sheet material by attaching crossed streamers to framing. Do not apply markers of any type to surfaces of sheet material.

C. Protect exposed surfaces of polycarbonate from construction operations with temporary covering. Do not apply tape to sheet material.

D. Replace sheet material included in the Work that is broken or otherwise damaged from the time Work is started at the site until the date of physical completion.

E. Maintain sheet material in a reasonably clean condition until the date of physical completion.

1. Clean and trim excess glazing material from the sheet material and stops or frames promptly after installation.

F. When directed, or just before the project is turned over to the State, remove temporary covering, dirt and other foreign material from both surfaces of sheet material installed under this Contract, and clean sheet material on both sides.

END OF SECTION

SECTION 092116

GYPSUM BOARD

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes:
   1. Interior gypsum board.
   2. Interior gypsum board trim and accessories.

B. Related Requirements:
   1. Division 09 Section "Non-Load Bearing Framing and Furring" for non-structural steel framing and suspension systems that support gypsum board panels.

1.03 DEFINTIONS

A. Sheet Steel Gages: US Standard.

B. Gypsum Board Terminology: ASTM C 11 - Standard Terminology Relating to Gypsum and Related Building Materials and Systems.

1.04 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For the following products:
   1. 12” x12” or manufacturer’s standard sample size, for each type of gypsum board indicated.
   2. Trim Accessories: Full-size Sample in 12-inch- (300-mm-) long length for each trim accessory indicated.
   3. Fasteners: 10 each type specified.
   4. Adhesive: 1 pint.

1.05 DELIVERY, STORAGE AND HANDLING

A. Deliver materials in original packages, containers, or bundles bearing brand name and identification of manufacturer.

B. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.06 FIELD CONDITIONS

A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written instructions, whichever are more stringent.
   1. Comply with gypsum board manufacturer's printed temperature and ventilation requirements during application and finishing. Ventilate installation areas to relieve excess moisture.

B. Do not install paper-faced gypsum panels until installation areas are enclosed and conditioned.

C. Do not install panels that are wet, moisture damaged, and mold damaged.
   1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
   2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 PRODUCTS

2.01 GYPSUM BOARD, GENERAL

A. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

2.02 INTERIOR GYPSUM BOARD

A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent

B. Gypsum Board Type 1 (Impact Resistant), Type X: ASTM C 1396/C 1396M.
   1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      a. G-P Gypsum.
      b. National Gypsum Company.
      c. USG Corporation.
   2. Thickness: 5/8 inch (15.9 mm).
   3. Long Edges: Tapered.
   4. Manufacturer's reinforced construction as required to meet Impact Resistance requirements.
   5. Mold Resistance: With moisture- and mold-resistant core and paper surfaces . ASTM D 3273, score of 10 as rated according to ASTM D 3274
   6. Weight: 2.8lbs/sq. ft. minimum
   7. Abuse resistance: ASTM C1629 Level 3 (highest) for hard and soft impact exposure.
      a. Abrasion Resistance: Level 3 0.010 inch
      b. Indentation Resistance: Level 3 0.050 inch
      c. Soft Body Impact Resistance: Level 3 300 ft-lb
      d. Hard Body Impact: Level 3 150 ft.-lb.

8. Location: At all new vertical and horizontal gypsum board assemblies.

2.03 TRIM ACCESSORIES

A. Material: As noted below as specified for each type of trim:
   1. Metal trim: Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized steel sheet.
   2. Aluminum Trim: Extruded accessories of profiles and dimensions indicated.
      a. Alloy and temper with not les than the strength and durability properties of ASTM B 221 (ASTM B 221M), alloy 6063-T5.
      b. Finish: Corrosion-resistant primer compatible with joint compound and finish materials specified.

B. Shapes:
   1. Basis of Design Products: Provide products indicated below or a comparable product by another manufacturer. Comparable products must be of same type, profile and material as indicated, products submitted that do not meet this requirement will not be accepted.
      a. Manufacturers include but shall not be limited to:
         1) Fry Reglet Architectural Metals
         2) Pittcon Industries
         3) Gordon Interior Architectural Specialties
         4) Flannery, Inc.

   2. Corner Bead: Basis of Design: Extruded Aluminum reinforced corner bead; Model No. DMCT-375 by Fry Reglet
      a. Provide manufacturer's recommended finish for field priming and painting.
      b. Location: At all exposed straight outside corners of drywall construction unless otherwise noted.

   3. Casing Bead Type 1: Basis of Design: All Metal Tapable edge trim casing bead; Type 200A by USG Corporation or a comparable product by one, but not limited to, of the following manufacturers:
      a. Clark Dietrick Building Systems
      b. Bailey Metal Products
      c. Extruded Aluminum tapeable trim of the same profile with manufacturer's recommended finish for field priming and painting shall also be acceptable, as manufactured by, but not limited to, one of the following manufacturers:
         1) Fry Reglet Architectural Metals
         2) Pittcon Industries
         3) Gordon Interior Architectural Specialties
         4) Flannery, Inc.

C. Expansion (Control) Joint: One-piece, rolled zinc with V-shaped slot and removable strip covering slot opening; exposed long flanges receive joint compound; use at vertical and horizontal control joints. United States Gypsum Co.: USG No. 093 or a comparable product by, but not limited to, one of the following manufacturers:
   1. Clark Dietrick Building Systems
   2. Bailey Metal Products

2.04 JOINT TREATMENT MATERIALS

A. General: Comply with ASTM C 475/C 475M.

B. Joint Tape:
   1. Interior Gypsum Board: Paper.

C. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.
   1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
   2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use drying-type, all-purpose compound.
      a. Use setting-type compound for installing paper-faced metal trim accessories.
   3. Fill Coat: For second coat, use drying-type, all-purpose compound.
   4. Finish Coat: For third coat, use drying-type, all-purpose compound.
   5. Skim Coat: For final coat of Level 5 finish, use drying-type, all-purpose compound.

D. Joint Compound for Tile Backing Panels:
   1. Cementitious Backer Units: As recommended by backer unit manufacturer.

2.05 AUXILIARY MATERIALS

A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.

B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.
   1. Use adhesives that have a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

C. Steel Drill Screws: ASTM C 1002 unless otherwise indicated.
   1. Use screws complying with ASTM C 954 for fastening panels to steel members from 0.033 to 0.112 inch (0.84 to 2.84 mm) thick.
   2. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.

D. Toggle Bolts: Tumble wing type.
   1. Wing Body: AISI 1008-1010 or equivalent cold rolled steel.
   2. Trunnion Nut: 1/4 inch thru 3/8 inch AISI 1010 steel; 1/2 inch Zamac alloy.
   3. Screw: Carbon steel.

E. Acoustical Sealant: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.

F. Thermal Insulation: As specified in Division 07 Section "Thermal Insulation."

G. Vapor Retarder: As specified in Division 07 Section "Vapor Retarders."

H. Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool, without membrane covering. Provide blankets of thickness, density, and type tested by the gypsum board manufacturer for the required rating.
   1. Fire-Resistance-Rated Assemblies: Comply with mineral-fiber requirements of assembly.
   2. For 3-5/8" metal framing: 3-1/2"thick sound attenuation blankets
   3. For 6" metal framing: 5-1/2" thick sound attenuation blankets
   4. Provide the following minimum STC ratings:
      a. Gypsum Board Partitions - 5/8" gypsum board both sides 3-5/8" or 6" metal studs 16" oc): Minimum STC of 56 as per W02184
   5. Location: All gypsum board partitions separating one space from an adjacent space.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine areas and substrates including welded hollow-metal frames and support framing, preset steel door frames, cast in anchors, and framing, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.

B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.

C. Proceed with installation only after unsatisfactory conditions have been corrected. Commencement of installation shall indicate acceptance of any and all existing and field conditions.

3.02 APPLYING AND FINISHING PANELS, GENERAL

A. Comply with ASTM C 840.

B. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.

C. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch (1.5 mm) of open space between panels. Do not force into place.

D. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.

E. Form control and expansion joints with space between edges of adjoining gypsum panels.

F. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.
   1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. (0.7 sq. m) in area.
   2. Fit gypsum panels around ducts, pipes, and conduits.
   3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch- (6.4- to 9.5-mm-) wide joints to install sealant.

G. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments. Provide 1/4- to 1/2-inch- (6.4- to 12.7-mm-) wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.

H. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.

I. STC-Rated Assemblies: Seal construction at perimeters, behind control joints, and at openings and penetrations with a continuous bead of acoustical sealant. Install acoustical sealant at both faces of partitions at perimeters and through penetrations. Comply with ASTM C 919 and with manufacturer's written instructions for locating edge trim and closing off sound-flanking paths around or through assemblies, including sealing partitions above acoustical ceilings.

J. Install sound attenuation blankets before installing gypsum panels unless blankets are readily installed after panels have been installed on one side.

3.03 APPLYING INTERIOR GYPSUM BOARD

A. Install interior gypsum board in the following locations:
   1. Type X: Vertical surfaces unless otherwise indicated .
   2. Ceiling Type: Ceiling and soffit surfaces.

B. Single-Layer Application:
   1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing, unless otherwise indicated.
   2. On partitions/walls, apply gypsum panels vertically (parallel to framing) [, unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
      a. Stagger abutting end joints not less than one framing member in alternate courses of panels.
      b. At stairwells and other high walls, install panels horizontally, unless otherwise indicated or required by fire-resistance-rated assembly.
   3. On Z-furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints over furring members.
   4. Fastening Methods: Apply gypsum panels to supports with steel drill screws.

3.04 ACCESSORIES

A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.

B. Control Joints: Install control joints according to ASTM C 840 and in specific locations accepted by Architect for visual effect.

C. Interior Trim:
   1. Coordinate installation of trim progressively with gypsum board installation where trim is of type required to be installed prior to, or progressively with installation of gypsum board.
   2. Securely fasten trim pieces in accordance with manufacturer’s printed instructions.
   3. Miter corners of semi-finishing type casing and trim beads.
   4. Use single unjointed lengths unless otherwise approved by the Director’s Representative.
   5. Tapeable Trim: Comply with joint compound manufacturer’s recommended drying time for the relative humidity and temperature at time of application. Allow minimum of 24 hours drying time between applications of joint compound.
   6. Install in the following locations:
      a. Cornerbead: Use at outside corners, unless otherwise indicated.
      b. Casing Bead Type 1: Use at exposed or semi-exposed panel edges and as otherwise indicated on the Drawings.

3.05 FINISHING GYPSUM BOARD

A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.

B. Prefill open joints and damaged surface areas.

C. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.

D. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C 840:
   1. Level 5: At painted gypsum board, gypsum board ceilings and soffits.
      a. Provide tape embedded in joint compound over joints and angles, and provide three separate coats of joint compound over all joints, angles, and fastener heads. Cover accessories with three separate coats of joint compound. Joint compounds to be smooth and free of tool marks and ridges. Apply a skim coat. Remove excess material; leave a film covering the paper. Cover the prepared surface with a drywall primer prior to application of the final decoration.

3.06 PROTECTION

A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.

B. Remove and replace panels that are wet, moisture damaged, and mold damaged.
   1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.

C. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION

SECTION 092216

NON-STRUCTURAL METAL FRAMING

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes:
   1. Non-load-bearing steel framing systems for interior partitions.

B. Related Requirements:

1.03 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Studs and Runners: Provide documentation that framing members' certification is according to SIFA's "Code Compliance Certification Program for Cold-Formed Steel Structural and Non-Structural Framing Members."
      a. For embossed type “EQ” framing members and runners provide:
         1) Third party evaluation report in accordance with ICC-ES-AC86 2010
         2) Tabular documentation of properties comparing proposed framing members to traditional, flat DW and STR framing members, including but not limited to:
            a) Equivalent gauge
            b) Minimum uncoated thickness
            c) Design thickness
            d) Yield Strength
            e) Tensile strength
            f) Pullout and shear (bearing) for #6 (0.0138”) diameter screw
            g) Pullout and shear (bearing) for #8 (0.016”) diameter screw
   2. Fasteners
   3. Submit an Environmental Product Declaration (EPD) from the manufacturer for steel within this specification section, if available. A statement of the contractor’s good faith effort to obtain the EPD shall be provided if not available.
      a. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 Environmental labels and declarations, ISO 14044 Environmental management – Life cycle assessment, and ISO 21930 Core rules for environmental product declarations of construction products and servicesFor Fire Rated assemblies, Underwriters Laboratories UL Design Number and

documentations certifying that the framing is an accepted component of required fire rated assemblies.

1.04 INFORMATIONAL SUBMITTALS

A. Evaluation Reports:
   1. For firestop tracks, from ICC-ES or other qualified testing agency acceptable to authorities having jurisdiction.
   2. Corrosion resistance.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics: For fire-resistance-rated assemblies that incorporate non-load-bearing steel framing, provide materials and construction identical to those tested in assembly indicated, according to ASTM E 119 by an independent testing agency.

B. Horizontal Deflection: For wall assemblies, limited to 1/360 of the wall height based on horizontal loading of 5 lbf/sq. ft. (239 Pa).

2.02 FRAMING SYSTEMS

A. Content of Steel Products: Postconsumer recycled content plus one-half of pre-consumer recycled content not less than 25 percent.

B. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
   1. Steel Sheet Components: Comply with ASTM C 645 requirements for metal unless otherwise indicated.
      a. Protective Coating: ASTM A 653/A 653M, G40 (Z120) or with an equivalent high performance coating system that meets or exceeds the corrosion resistance of ASTM A 653/A 653M, G40 (Z120), hot-dip galvanized unless otherwise indicated.

C. Studs and Runners: ASTM C 645.
   1. Embossed Steel Studs and Runners:
      a. Basis of Design Type 20EQ studs and runners: Subject to compliance with the requirements, embossed steel studs engineered to meet or exceed the performance of comparable flat (Type DW) studs and runners, 20 gauge equivalent, for non-structural framing, ProSTUD 20EQ by ClarkDietrich Building Systems or a comparable product by one of the following manufacturers:
         1) Marino\WARE
         2) The Steel Network, Inc.
      b. Minimum Base-Metal Thickness: 0.0190 inch (0.483 mm).
      c. Minimum Design Thickness: 0.0200 inches (0.5080 mm).
      d. Web Depth: As indicated on Drawings.
      e. Flange size: 1 1/4-inch

f. Yield Strength: 65ksi or manufacturer's standard high strength steel with a yield strength of no lower than 55ksi.

D. Slip-Type Head Joints: Where indicated, provide the following:
1. Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.
a. Basis of Design Head of Wall Deflection Track: Subject to compliance with the requirements, slotted head track designed for non-load bearing interior walls, serves as a connecting member that isolates framing system from movement of primary structure, MaxTrack slotted deflection track by ClarkDietrich Building Systems or a comparable product by one of the following manufacturers:
1) Marino\WARE
2) SCAFCO Corporation

b. Gauge: 20ga
c. Mil Thickness: 33
d. Design Thickness: 0.0346 inches
e. Width: To match framing members
f. Minimum Deflection Movement: 1-inch
2. Firestop Tracks: Top runner manufactured to allow partition heads to expand and contract with movement of structure while maintaining continuity of fire-resistance-rated assembly indicated; in thickness not less than indicated for studs and in width to accommodate depth of studs.

E. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
1. Minimum Base-Metal Thickness: 0.0329 inch (0.836 mm).

F. Hat-Shaped, Rigid Furring Channels: ASTM C 645.
1. Minimum Base-Metal Thickness: 0.0329 inch (0.836 mm).
2. Depth: 7/8 inch (22.2 mm) unless otherwise indicated on the Drawings.

G. Cold-Rolled Furring Channels: 0.053-inch (1.34-mm) uncoated-steel thickness, with minimum 1/2-inch- (13-mm-) wide flanges.
1. Depth: 3/4 inch (19 mm).
2. Furring Brackets: Adjustable, corrugated-edge-type steel sheet with minimum uncoated-steel thickness of 0.0329 inch (0.8 mm).
3. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.062-inch- (1.59-mm-) diameter wire, or double strand of 0.048-inch- (1.21-mm-) diameter wire.

2.03 AUXILIARY MATERIALS

A. General: Provide auxiliary materials that comply with referenced installation standards.
1. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.

B. Fasteners: Except where shown or specified, select fasteners of type, size, style, grade, and class required for secure installation of framing and furring. Galvanize all fasteners and accessories.
   1. Standard Bolts and Nuts: ASTM A 307, Grade A, regular hexagon head.
   2. Lag Bolts: FS FF-B-561, square head.
   3. Machine Bolts: FS FF-B-584 head; FS FF-N-836 nuts.
   4. Machine Screws: FS FF-S-92, cadmium plated steel.
   5. Plain Washers: FS FF-W-92, round, general assembly grade, carbon steel.
   6. Lock Washers: FS FF-W-84, helical spring type, carbon steel.
   7. Toggle Bolts: Tumble-wing type; FSS FF-B-588, type, class and style as required to sustain load.
   8. Self-Drilling Fasteners: No. 12-14 x 3/4 inch, hex washer head, self-drilling fastener with pilot point.

C. Anchors: Steel framing manufacturer's recommended types and sizes for substrates involved.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected. Commencement of work shall indicate acceptance of any and all existing and/or field conditions.

3.02 INSTALLATION, GENERAL

A. Installation Standard: ASTM C 754.
   1. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.

B. Install framing and accessories plumb, square, and true to line, with connections securely fastened.

C. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, equipment, furnishings, or similar construction.

D. Install bracing at terminations in assemblies.

E. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.

3.03 INSTALLING FRAMED ASSEMBLIES

A. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.

1. Single-Layer Application: 16 inches (406 mm) o.c. unless otherwise indicated.

B. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.

C. Install studs so flanges within framing system point in same direction.

D. Install tracks (runners) at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts that penetrate partitions above ceiling.
   1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
   2. Align tracks accurately at floor and ceiling. Secure tracks as recommended by the framing manufacturer for the upper and lower construction involved, except do not exceed 24 inches oc spacing for nail or powder-driven fasteners, or 16 inches oc for other types of attachment. Provide fasteners approximately 2 inches from corners and ends of tracks.
   3. Position studs vertically and engage both upper and lower tracks. Space studs 16 inches on center, unless otherwise indicated on the Drawings. Fasten studs to track flanges with screws or by crimping.
      a. Use full length studs between tracks wherever possible. If necessary, splice studs with a minimum 8 inch nested lap and fasten with two screws per stud flange.
   4. Install additional studs to support inside corners at intersections and corners, and to support outside corners, terminations of partitions, and both sides of control joints (if any).
   5. Brace chase wall framing horizontally to opposite studs with 12 inch wide gypsum board gussets or metal framing braces, spaced vertically not more than 4 feet on center.
      a. Attach gypsum board gussets with a minimum 3 screws per stud flange.
      b. Attach metal framing braces with a minimum 2 screws per stud flange.
   6. Install rough framing at openings consisting of full-length studs adjacent to jambs and horizontal header and sill tracks. Cut horizontal tracks to length and split flanges and bend webs at ends for flange overlap and screw to jamb studs. Install intermediate studs between jamb studs at head and sill sections, at same spacing as full-length studs
   7. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.
      a. Install two studs at each jamb unless otherwise indicated.
      b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch (13-mm) clearance from jamb stud to allow for installation of control joint in finished assembly.
      c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
      d. Install jamb studs to comply with framing manufacturer's recommendations for the types of frames and weights of doors required. Fasten jamb studs to metal frames with anchor clips using 2 self-tapping screws or bolts per clip.

e. Where double doors, or doors weighing more than 50 lb are shown or scheduled, install two studs at each jamb and one additional stud not more than 6 inches from jamb studs.

8. Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
9. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
   a. Firestop Track: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.
10. Where vertical control joints are shown at jamb lines, install additional vertical studs located on opening side of jambs and not less than 1/2 inch from jamb studs. Do not fasten the additional studs to tracks or jamb studs.

E. Direct Furring:
   1. Screw to wood framing.
   2. Attach to concrete or masonry with stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches (610 mm) o.c.
   3. Install steel furring at 16 inches oc maximum spacing and provide additional furring at openings, cutouts, and corners. Securely anchor with fasteners spaced 24 inches oc maximum and stagger on opposite flanges of hat-shaped channels

F. Installation Tolerance: : Do not exceed 1/8 inch in 8 feet variation from plumb or level in any exposed line or surface, except at joints between boards do not exceed 1/16 inch variation between planes or abutting edges or ends. Shim as required to comply with specified tolerances.

G. Provide supplementary framing, blocking, and bracing to support fixtures, equipment, services, casework, heavy trim, furnishings, and similar work requiring attachment to framing.
   1. If type of supplementary support is not indicated, comply with stud manufacturer's written recommendations and industry standards in each case, considering weight or load resulting from item supported.

END OF SECTION

SECTION 093013

CERAMIC TILE

PART 1 GENERAL

1.01 SUMMARY

A. Work included in this section:
   1. Stone thresholds

1.02 REFERENCES

A. Tile Manufacturing Standard: Comply with the requirements of ANSI "American National Standard Specifications for Ceramic Tile" (ANSI A137.1)

B. Installation Standards: Comply with the requirements of ANSI "American Standard Specifications for the Installation of Ceramic Tile" (ANSI A108, A118 and A136), and correlating Tile Council of America (TCA) details except as shown or specified otherwise.

1.03 SUBMITTALS

A. Product Data: Catalog sheets, specifications, and installation instructions for each of the following:
   1. Marble door thresholds.

B. Samples:
   1. Marble thresholds in 6 inch lengths.

C. Quality Control Submittals:
   1. Installers' Qualification Data:
      a. Name of each person who will be performing the work and their employer's name, business address, and telephone number.
      b. Names and addresses of 3 similar projects that each person has worked on during the past 5 years.

D. Contract Closeout Submittals:
   1. Maintenance Data: Threshold manufacturer's recommended cleaning and stain removal methods and materials.

1.04 QUALITY ASSURANCE

A. Manufacturer:
   1. Obtain each color, grade, finish, type, composition, and variety of tile from one source with resources to provide products from the same production run for each contiguous area of consistent quality in appearance and physical properties without delaying the Work.

2. Obtain ingredients of a uniform quality for each mortar, waterproof membrane, adhesive, and grout component from a single manufacturer and each aggregate from one source or producer.

B. Installers' Qualifications: The persons installing the work of this Section and their Supervisor shall be personally experienced in ceramic tile installation and shall have been regularly employed by a Company installing ceramic tile for a minimum of 5 years.

C. Performance Criteria:
1. The following criteria are required for products included in this section:
a. Setting adhesives and grout must not exceed the volatile organic compound (VOC) content limits established in South Coast Air Quality Management District (SCAQMD) Rule 1168.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirement of ANSI A137.1 for labeling sealed tile packages.

B. Prevent damage or contamination to materials by water, freezing, foreign matter, and other causes.

1.06 PROJECT CONDITIONS

A. Environmental Requirements: Do not install threshold until construction in spaces is completed. Set and grout tile when ambient temperature is 50 degrees F (10 degrees C) or higher and humidity conditions are being maintained. Substrate must be free of ice. All work to meet material manufacturer's recommendations.

1.07 MAINTENANCE

A. Extra Materials: Furnish one threshold, in length to match longest threshold installed. Place extra materials packaged with protective covering in storage at the site where directed.

PART 2 PRODUCTS

2.01 SETTING MATERIALS

A. Portland Cement Mortar: Complying with ANSI A 108.1, or ANSI A 108.5 in combination with ANSI A 108.1.
1. Portland Cement: ASTM C 150, Type 1.
2. Sand: ASTM C 144.
3. Hydrated Lime: ASTM C 206 or ASTM C 207, Type S.
4. Water: Clean and potable.
6. Cleavage Membrane: Asphalt felt, ASTM D 226, Type I (No. 15), or polyethylene sheeting ASTM D 4397, 4.0 mils thick.

7. Latex additive (water emulsion) described below, serving as replacement for part or all of gaging water, of type specifically recommended by latex additive manufacturer for use with job-mixed portland cement and aggregate mortar bed.
   a. Latex Additive: Manufacturer's standard.

B. Epoxy Mortar: Complying with ANSI A 118.3, chemical resistant, and water cleanable before setting.

2.02 MISCELLANEOUS MATERIALS

A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland-cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.

2.03 STONE THRESHOLDS

A. Marble: Sound Group A marble, uniform, fine- to medium-grained white stone with gray veining.

B. ASTM C 503, with a minimum abrasion resistance of 12 per ASTM C 1353 or ASTM C 241 and with honed finish.

C. Fabricate thresholds to equal width of door jambs, with true planes, edges straight, and free of chipped or broken arises and corners.
   1. Raised Thresholds: Depth shall be as required to finish 1/2 inch above finished tile floor and have a minimum thickness of 1-1/4 inches, unless otherwise shown. Bevel exposed edge arises 1/4 by 1/4 inch.
      a. Location: As indicated on the drawings at handicap shower areas
   2. Flush Thresholds: 7/8 inch thick, unless otherwise shown.
      a. Location: As indicated on the drawings
   3. Finish: Honed finish on exposed faces and edges.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.

B. Do not proceed with installation until unsatisfactory conditions have been corrected.
   1. Commencement of work shall indicate acceptance of existing and field conditions.

3.02 PREPARATION

A. Provide concrete substrates for thresholds with latex-portland cement mortars that comply with flatness tolerances specified in referenced ANSI A 108 series of tile installation standards for installations indicated.
   1. Use trowelable leveling and patching compounds per tile-setting material manufacturer's written instructions to fill cracks, holes, and depressions.
   2. Remove protrusions, bumps, and ridges by sanding or grinding.

B. Protection: Protect adjacent surfaces before tilework begins.

C. Cleaning: Clean substrate surfaces in accordance with applicable reference standards and manufacturer's installation instructions.

3.03 INSTALLATION

A. Marble Door Thresholds: Set marble thresholds in a full bed of setting material specified.

3.04 ADJUSTING

A. Check the threshold installation. Remove defective tile and retile. Leave finished installation free of cracked, chipped, broken, unbonded, and otherwise defective tilework.

3.05 CLEANING

A. On completion of placement and grouting, clean all threshold surfaces so they are free of foreign matter. Comply with grouting specifications and with grout manufacturer's printed instructions for materials and method.
   1. Remove excess setting material residue from threshold as soon as possible.

B. Clean and polish marble door thresholds. Remove stains and other defacement.

3.06 PROTECTION

A. Apply heavy kraft paper, or other approved heavy protective covering, masked in place over tilework to prevent staining, damage, and wear.

B. Prohibit foot and wheel traffic on newly tiled areas for seven days after completion of installation unless otherwise approved by the Director's Representative.

C. Before final inspection, remove protective coverings and rinse neutral cleaner from tile surfaces.

END OF SECTION

SECTION 095113

SUSPENDED ACOUSTICAL PANEL CEILINGS

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section includes acoustical panels and exposed suspension systems for interior ceilings.

1.03 REFERENCES:

A. ASTM C 635 - Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.

B. ASTM C 636 - Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.

C. ASTM E 1414 - Standard Test method for Air-born Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum.

D. ASTM E 1264 - Standard Classification for Acoustical Ceiling Products.

E. Ceilings and Interior Systems Contractors Association (CISCA) Acoustical Ceilings: Use and Practice.

F. UL - Fire Resistance Directory and Building Material Directory/

1.04 SYSTEM DESCRIPTION

A. Suspended Ceiling System consisting of main runners and cross runner tees snapped together to form modules or grids for the installation of lay-in acoustical tiles or panels, air diffusers, and light fixtures.
   1. Type HD/EG: Heavy duty, direct hung, exposed grid. (Minimum load carrying capability of main runners: 16 lb/lin ft)

1.05 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site located at Finger Lakes Residential Center, 250 Auburn Road, Lansing, New York.

1.06 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Each suspension system type specified.
   2. Acoustical units specified.

3. Integral access units.

B. Samples: For each exposed product and for each color and texture specified, 6 inches (150 mm) in size.

C. Samples for Initial Selection: For components with factory-applied finishes.

D. Samples for Verification: For each component indicated and for each exposed finish required, prepared on Samples of sizes indicated below:
   1. Acoustical Panels: Set of [6-inch- (150-mm-) square. Samples of each type, color, pattern, and texture.
   2. Exposed Suspension-System Members, Moldings, and Trim: Set of 6-inch- (150-mm-) long Samples of each type, finish, and color.
   3. Clips: Full-size seismic clips.

1.07 INFORMATIONAL SUBMITTALS

A. Certification: Manufacturer's written statement, certifying that the suspension system meets or exceeds the specified structural requirements.

1.08 CLOSEOUT SUBMITTALS

A. Maintenance Data: Maintenance Instructions: Two copies of the manufacturer's printed recommendations for cleaning and refinishing the acoustical units. Include precautions regarding materials and methods which may be detrimental to finish and acoustical efficiency.

1.09 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials , from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Acoustical Ceiling Units: Full-size panels and grid equal to 5 percent of quantity installed.

1.10 QUALITY ASSURANCE

A. Installers Qualifications: The persons installing the suspended acoustical ceiling system and their supervisor shall be personally experienced in suspended acoustical ceiling installation and shall have been regularly employed by a company installing systems for a minimum of 2 years.

B. Surface Burning Characteristics: Tested in accordance with ASTM E 84 and complying with ASTM E 1264 for Class A products.
   1. Flame Spread: 25 or less.
   2. Smoke Developed: 50 or less.

1.11 DELIVERY, STORAGE, AND HANDLING

A. Deliver acoustical panels, suspension-system components, and accessories to Project site and store them in a fully enclosed, conditioned space where they will be protected against

damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.

B. Before installing acoustical panels, permit them to reach room temperature and a stabilized moisture content.

C. Handle acoustical units carefully to avoid chipping edges or damaging units in any way.

1.12 FIELD CONDITIONS

A. Environmental Limitations: Do not install acoustical panel ceilings until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

B. Space Enclosure: Do not install interior acoustical units until space is enclosed and weatherproof, wet work in spaces is completed, and work above ceilings is complete

1.13 COORDINATION

A. Coordinate layout and installation of acoustical panels and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

B. Where new ceiling grids extend existing grid, patch, repair, replace and otherwise reconstruct existing grid systems as required to properly integrate new and existing ceilings.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Source Limitations: Obtain each type of acoustical ceiling panel and its supporting suspension system from single source from single manufacturer.

2.02 PERFORMANCE REQUIREMENTS

A. Seismic Standard: Provide acoustical panel ceilings designed and installed to withstand the effects of earthquake motions according to requirements of authorities having jurisdiction.

B. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
   1. Flame-Spread Index: Class A according to ASTM E 1264.
   2. Smoke-Developed Index: 50 or less.

C. Fire-Resistance Ratings: Comply with ASTM E 119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
   1. Indicate design designations from UL or from the listings of another qualified testing agency.

2.03 ACOUSTICAL PANELS

A. Acoustical Panel Standard: Provide manufacturer's standard panels according to ASTM E 1264 and designated by type, form, pattern, acoustical rating, and light reflectance unless otherwise indicated.
   1. Mounting Method for Measuring NRC: Type E-400; plenum mounting in which face of test specimen is 15-3/4 inches (400 mm) away from test surface per ASTM E 795.

B. Acoustical Panel Standard: Provide manufacturer's standard panels according to ASTM E 1264 and designated by type, form, pattern, acoustical rating, and light reflectance unless otherwise indicated.

C. Basis of Design Acoustical Panel Ceilings (SAC-1): Nominal 24” x 24” x 1” wet formed mineral fiber ceiling panel, fine texture, non-directional finish, anti-mold treatment, sag-resistant, scrub-able, square edge ceiling panels and as indicated below:
   1. ASTM E1264 Classification:
      a. Type IV
      b. Form 2.
      c. Pattern: E.
   2. Fire Class A
   3. Light Reflectance (LR): 0.90 as per ASTM E1477,
   4. Noise Reduction Coefficient (NRC): 0.75
   5. Ceiling Attenuation Class (CAC): 35.
   6. Edge/Joint Detail: Square.
   7. Thickness: 3/4 inch.
   8. Color: White
   9. Location: All ceilings at unless otherwise noted
   10. Ultima Square Lay-In ceiling panel (1910) by Armstrong World Industries, Inc. or a comparable product by one, but not limited to, of the following manufacturers:
      a. United State Gypsum Corporation
      b. Rockfon North America

2.04 METAL SUSPENSION SYSTEMS

A. General: Provide heavy, direct-hung, metal suspension system and accessories according to ASTM C 635/C 635M and designated by type, structural classification, and finish indicated.
   1. Provide metal suspension system from a single manufacturer.
   2. Where ceilings extend existing grid layout, provide suspension system of same type, size, profile, color, cap material, manufacturer and model as existing ceiling grid; no substitutions.
   3. High-Humidity Finish: Provide coating tested and classified for "severe environment performance" according to ASTM C 635/C 635M.

B. Metal Suspension System Type 1 Basis of Design: Heavy duty 15/16-inch exposed tee suspension system, hot dipped galvanized steel, nominal 1-11/16” high main and cross tees, 7/8” hemmed angle molding, color white, Prelude XL 15/16” Exposed Tee system by Armstrong World Industries, Inc. or a comparable product by, but not limited to, one of the following manufacturers:

1. United State Gypsum Corporation.
2. Rockfon North America

3. Location: At SAC Type 1 unless otherwise noted.

2.05 ACCESSORIES

A. Attachment Devices: Size for five times the design load indicated in ASTM C 635/C 635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.
   1. Anchors in Concrete: Anchors of type and material indicated below, with holes or loops for attaching hangers of type indicated and with capability to sustain, without failure, a load equal to five times that imposed by ceiling construction, as determined by testing according to ASTM E 488/E 488M or ASTM E 1512 as applicable, conducted by a qualified testing and inspecting agency.
      a. Type: Postinstalled expansion anchors.
      b. Corrosion Protection: Stainless-steel components complying with ASTM F 593 and ASTM F 594, Group 1 Alloy 304 or 316.

B. Wire Hangers, Braces, and Ties: Provide wires as follows:
   1. Stainless-Steel Wire: ASTM A 580/A 580M, Type 304, nonmagnetic.
   2. Size: Wire diameter sufficient for its stress at three times hanger design load (ASTM C 635/C 635M, Table 1, "Direct Hung") will be less than yield stress of wire, but not less than 0.135-inch- (3.5-mm-)diameter wire.

C. Hanger Clips: Galvanized steel clips or clamps specifically designed for attachment to structural steel. Drive-on clips or clamps which depend on friction to hold the device are not acceptable.

D. Hanger Rods: Mild steel, zinc coated or protected with rust-inhibitive paint.

E. Flat Hangers: Mild steel, zinc coated or protected with rust-inhibitive paint.

F. Angle Hangers: Angles with legs not less than 7/8 inch (22 mm) wide; formed with 0.04-inch- (1-mm-) thick, galvanized-steel sheet complying with ASTM A 653/A 653M, G90 (Z275) coating designation; with bolted connections and 5/16-inch- (8-mm-) diameter bolts.

G. Hold-Down Clips: Manufacturer's standard hold-down.

H. Seismic Clips: Manufacturer's standard seismic clips designed to secure acoustical panels in place during a seismic event.

I. Seismic Stabilizer Bars: Manufacturer's standard perimeter stabilizers designed to accommodate seismic forces.

J. Seismic Struts: Manufacturer's standard compression struts designed to accommodate seismic forces.

2.06 METAL EDGE MOLDINGS AND TRIM

A. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension-system runners.

B. Extruded-Aluminum Edge Moldings and Trim: Where indicated, provide manufacturer's extruded-aluminum edge moldings and trim of profile indicated or referenced by manufacturer's designations, including splice plates, corner pieces, and attachment and other clips, complying with seismic design requirements.
   1. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.
   2. Baked-Enamel or Powder-Coat Finish: Minimum dry film thickness of 2.0 mils (0.04 mm). Comply with ASTM C 635/C 635M and coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

2.07 ACOUSTICAL SEALANT

A. Acoustical Joint Sealant: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C 834. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.
   1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      a. Pecora Corporation; AC-20 FTR Acoustical and Insulation Sealant.
      b. USG Corporation; SHEETROCK Acoustical Sealant.
      c. Tremco: Tremco Acoustical Sealant

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, including structural framing to which acoustical panel ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of acoustical panel ceilings.

B. Examine acoustical panels before installation. Reject acoustical panels that are wet, moisture damaged, or mold damaged.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at

borders unless otherwise indicated, and comply with layout shown on reflected ceiling plans.

B. Layout openings for penetrations centered on the penetrating items.

3.03 INSTALLATION OF SUSPENSION SYSTEM

A. Install acoustical panel ceilings according to ASTM C 636/C 636M, seismic design requirements, CISCA “Ceiling System Handbook and manufacturer's written instructions.

B. General: Suspend ceiling hangers from building's structural members and as follows:
1. Attach hangers to supporting construction, spaced 4 feet oc maximum and within 6 inches of ends of main beams. Where ducts or other items, including items provided under related contracts (if any), interfere with the spacing of hangers, install trapeze type hangers under the obstructing items to support ceiling hangers.
2. Do not kink or bend hangers as a means of leveling components.
3. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
4. Splay hangers only where required and, if permitted with fire-resistance-rated ceilings, to miss obstructions; offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
5. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.
6. Secure wire hangers to ceiling-suspension members and to supports above with a minimum of three tight turns. Connect hangers directly to structure or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
7. Secure flat, angle, channel, and rod hangers to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices that are secure and appropriate for both the structure to which hangers are attached and the type of hanger involved. Install hangers in a manner that will not cause them to deteriorate or fail due to age, corrosion, or elevated temperatures.
8. Do not support ceilings directly from permanent metal forms or floor deck. Fasten hangers to cast-in-place hanger inserts, postinstalled mechanical or adhesive anchors, or power-actuated fasteners that extend through forms into concrete.
9. When steel framing does not permit installation of hanger wires at spacing required, install carrying channels or other supplemental support for attachment of hanger wires.
10. Do not attach hangers to steel deck tabs.
11. Do not attach hangers to steel roof deck. Attach hangers to structural members.
12. Space hangers not more than 48 inches (1200 mm) o.c. along each member supported directly from hangers unless otherwise indicated; provide hangers not more than 8 inches (200 mm) from ends of each member.

13. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards.

C. Secure bracing wires to ceiling suspension members and to supports with a minimum of four tight turns. Suspend bracing from building's structural members as required for hangers, without attaching to permanent metal forms, steel deck, or steel deck tabs. Fasten bracing wires into concrete with cast-in-place or postinstalled anchors.

D. Attachment of Hangers to Supporting Construction: Unless otherwise shown, secure the hangers to the construction as follows:
1. Attachment to Existing Cast-in-Place Concrete: Attach hangers to clip angles, fastened to the concrete with expansion bolts or drive pins.
2. Attachment to Structural Steel Framing: Clinch hanger around top of flange of steel member approximately 135 degrees. If framing member supports roof planks or precast slabs, bolt hanger to center of web or weld to bottom flange. Where applicable, hanger wires may be directly double wound around steel members with wires twisted together.
3. Attachment to Steel Joists: Secure hanger with special clip or clamp designed for such use. Where applicable, hanger wires may be directly double wound around steel members with wires twisted together.
4. Attachment to Precast Tees, Slabs, and Planks: Insert “T” hangers through joints between the units. Where concrete fill is required, lay out and install hangers prior to placing fill.
5. Attachment to Steel Decks: Secure hangers with welded studs. Locate studs as close to the deck supports as possible. Install studs in accordance with manufacturer’s printed instructions. After installation, clean stud welds and repair the affected areas of deck and studs with cold galvanizing compound. Attach hangers to studs with double nuts.
6. Attachment to Wood Framing (Except Trusses): Secure hangers with threaded fasteners.
7. Attachment to Wood Trusses: Double wind hanger wire around bottom chord member and twist wire together securely.

E. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
2. Do not use exposed fasteners, including pop rivets, on moldings and trim.

F. Install suspension-system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.

3.04 INSTALLATION OF ACOUSTICAL UNITS

A. Install acoustical panels with undamaged edges and fit accurately into suspension-system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide precise fit.
1. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.

2. For square-edged panels, install panels with edges fully hidden from view by flanges of suspension-system runners and moldings
3. Paint and seal any and all cut, trimmed and/or edges of panels remaining exposed after installation as per manufacturer's recommendations as required to maintain cleanroom standards and prevent contaminants from entering panel material edges of panels; match color of exposed panel surfaces using coating recommended in writing for this purpose by acoustical panel manufacturer.
4. Install hold-down, impact and seismic clips as per manufacturer's recommendations; space according to panel manufacturer's written instructions unless otherwise indicated.
   a. Hold-Down Clips: Space 24 inches (610 mm) o.c. on all cross runners.
5. Protect lighting fixtures and air ducts according to requirements indicated for fire-resistance-rated assembly.

3.05 ERECTION TOLERANCES

A. Suspended Ceilings: Install main and cross runners level to a tolerance of 1/8 inch in 12 feet (3 mm in 3.6 m), non-cumulative.

B. Moldings and Trim: Install moldings and trim to substrate and level with ceiling suspension system to a tolerance of 1/8 inch in 12 feet (3 mm in 3.6 m), non-cumulative.

C. Form right angles at intersections of main and cross runners.

D. Align vertical distance of exposed surfaces between intersecting runners to within 0.015 inch.

E. Limit horizontal gaps in exposed surfaces of intersecting or abutting members to within 0.020 inch.

3.06 CLEANING

A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension-system members. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage.

B. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

SECTION 095753

METAL PLANK SECURITY CEILING SYSTEM

PART 1 GENERAL

1.01 SECTION INCLUDES

A. This specification covers the material, installation, and related requirements for the Metal Plank Ceiling System (Security Ceiling System) including all necessary Acoustical Insulation, Suspension Systems, and Fasteners.

1.02 RELATED DOCUMENTS/SECTIONS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions.

B. Division 1 Specification sections apply to work of this Section.

1.03 REFERENCES

A. GENERAL
   1. Comply with applicable requirements of the following, except where more stringent requirements are indicated by building codes.

B. ASTM (American Society for Testing and Materials)
   1. ASTM C636, Recommended Practice for Installation of Metal Suspension System for Acoustical Tile and Lay-In Panels.

C. CISCA Ceiling Systems Installation Handbook.

1.04 DESIGN/PERFORMANCE REQUIREMENTS

A. All components of the Metal Plank Security Ceiling System shall be provided by one (1) Manufacturer to ensure single source responsibility and quality control.

1.05 SUBMITTALS

A. Submission must be made within ten (10) working days of the General Contract Award to avoid project delay.
   1. After award of contract, standard Shop Drawings shall be submitted and approved prior to fabrication of the Metal Planks or their structural supports.

B. Product Data: Submit Manufacturer's:
   1. Product data
   2. Installation Instructions

C. Shop Drawings: Submit Shop Drawings for fabrication and installation of Metal Plank Security Ceiling System.

D. Samples:
   1. A 2’ x 2’ assembled sample of each Ceiling Panel and its Suspension System shall be submitted for approval.

E. Closeout Submittals
   1. Provide Manufacturer’s Cleaning and Maintenance Instructions
   2. Warranty Documents
   3. Manufacturer’s certification of compliance with the acoustical performance required as described in this specification.

1.06 QUALITY ASSURANCE

A. Manufacturers’ Qualifications: Firm with manufacturing and delivery capacity required for the project, shall have successfully completed at least ten (10) projects within the past five (5) years, utilizing systems, materials, and techniques as herein specified.

B. Fabricator must own and operate its own manufacturing facilities for all metal components. Systems consisting of components from a variety of Manufacturers will not be considered or accepted.

C. Manufacturer/Fabricator must own and operate its own painting and finishing facility to assure single source responsibility and quality control.

D. Installer’s Qualifications: Firm with not less than three (3) years of successful experience in the installation of systems similar to those required by this project and acceptable to the Manufacturer of the System.

1.07 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Deliver Panels and all System Hardware to the job site in Manufacturer’s original packaging, unopened and undamaged, just prior to installation.

B. Avoid warpage and damage by storing Panels and all System Hardware above floor, flat and in a dry, humidity and temperature controlled interior location.

C. Follow Manufacturer’s instructions and exercise care during off loading, handling and installation to avoid damage and marring of finishes.

1.08 SEQUENCING

A. Substitute Products: Alternate proposals for substitute products will not be accepted unless approval is issued in addenda.

B. Contract Execution: Submittals shall be completed and approved prior to award of subcontract for system components.

C. Manufacturer’s Production Schedule: Sub-contract for the work of this section shall be planned to allow sufficient time for Manufacturer’s production and delivery scheduling.

1.09 WARRANTY

A. Provide Manufacturer's:
   1. Warranty that materials furnished will perform as specified for a period of not less than one (1) year from date of material shipment when installed in accordance with Manufacturer’s recommendations.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design Security Ceiling System: Cel-Line Metal Plank Acoustical Security Ceiling System as manufactured by Gordon, Inc. For all inquiries contact, Gordon, Inc., 5023 Hazel Jones Road, Bossier City, LA 71111, (800) 747-8954.
   1. The Basis of Design Manufacturer shall not be construed as closing specifications to other prospective Manufacturers, but rather as establishing a level of quality in a metal system. Other systems may be submitted for approval, as provided for in the specifications. Companies desiring to submit a proposal shall submit all descriptive information of the system proposed including photographs and Shop Drawings of at least three (3) projects similar in detail and scope.

B. Other Acceptable Manufacturers
   1. Metalworks SecureLock Plus System as manufactured by Armstrong
   2. BarrierDek Metal Plank Ceiling System as manufactured by Trussbilt

C. Single Manufacturer: Provide all Security Ceiling System types and components described by these specifications from a single manufacturer.

2.02 PRODUCT CONSTRUCTION

A. Ceiling Type **SCS-1** Product Components:
   1. Metal Plank Ceiling: The metal plank system is to be fabricated and installed in accordance with the Manufacturer’s approved Shop Drawings. Metal Planks shall be factory formed from 12 Gauge perforated galvannealed (minimum A60) steel as indicated on the Shop Drawings. Planks shall be formed 24” wide in lengths of up to 12’0’’ as shown on Reflected Ceiling Plans. Vertical legs of Metal Planks are to be factory formed so that Panels overlap tightly to provide positive self-alignment with adjacent Panels.
      a. Panel Size and Configuration: 24” wide x length of space as indicated on the Drawings.
         1) Coordinate panel break locations as required to receive electrical and mechanical work and access panels.

2. Metal Plank Suspension: Perimeter Angles shall be factory fabricated from 12 Gauge factory finished galvannealed (minimum A60) steel. Angles shall be factory pre-punched to receive Fasteners. Angles shall be fastened to all abutting vertical surfaces through the use of drilled in anchors or other approved Fasteners at a minimum of 16'' O.C. Panels shall be securely fastened to all Angles through the use of concealed Hold Down Angle mechanically fastened to abutting vertical surfaces.
   a. Acoustical Material: The inside surface of all perforated Ceiling Panels shall be covered with Class A fiberglass Insulation wrapped in black Fire-Retardant Poly. Insulation shall be of sufficient thickness and density to provide the acoustical requirements as outlined herein.
   b. Air: All air units are to be system compatible and sized so as to fit into and trim off full module opening in Ceiling System and shall be independently supported from above by installing trade.
   c. Access Panels: All security Access Panels to be installed in the Metal Security Ceiling System shall be supplied by the Metal Security Ceiling System Manufacturer in quantities indicated on the Architectural Drawings or as approved by the Architect. Access Panels shall have the following characteristics:
      1) Size: 14'' x 14'', which fits an opening of 12'' x 12''
      2) Panel: 12 Gauge steel
      3) Hinge: Full length semi-concealed piano hinge that opens 180 degrees.
      4) Anchors: Steel, welded to frame
      5) Lock: Theft and tamperproof, security bolt, with key.
      6) Finish: Factory white polyester powder coated paint finish
   d. Fasteners: All exposed Fasteners shall be tamper-proof and shall be a minimum No. 12 size. Fasteners for securing the Wall Molding to the wall are to be selected and furnished by the Contractor and approved by the Architect/Engineer.

B. Ceiling Type **SCS-2** Product Components:
1. Metal Plank Ceiling: The metal plank system is to be fabricated and installed in accordance with the Manufacturer's approved Shop Drawings. Metal Planks shall be factory formed from 12 Gauge stainless steel as indicated on the Shop Drawings. Planks shall be formed 24" wide in lengths of up to 12'0'' as shown on Reflected Ceiling Plans. Vertical legs of Metal Planks are to be factory formed so that Panels overlap tightly to provide positive self-alignment with adjacent Panels.
   a. Panel Size and Configuration: 24" wide x length of space as indicated on the Drawings.
      1) Coordinate panel break locations as required to receive electrical and mechanical work and access panels.

2. Metal Plank Suspension: Perimeter Angles shall be factory fabricated from 12 Gauge factory finished stainless steel. Angles shall be factory pre-punched to

receive Fasteners. Angles shall be fastened to all abutting vertical surfaces through the use of drilled in anchors or other approved Fasteners at a minimum of 16" O.C. Panels shall be securely fastened to all Angles through the use of concealed Hold Down Angle mechanically fastened to abutting vertical surfaces.

a. Air: All air units are to be system compatible and sized so as to fit into and trim off full module opening in Ceiling System and shall be independently supported from above by installing trade.

b. Access Panels: All security Access Panels to be installed in the Metal Security Ceiling System shall be supplied by the Metal Security Ceiling System Manufacturer in quantities indicated on the Architectural Drawings or as approved by the Architect. Access Panels shall have the following characteristics:

1) Size: 14" x 14", which fits an opening of 12" x 12"
2) Panel: 12 Gauge steel
3) Hinge: Full length semi-concealed piano hinge that opens 180 degrees.
4) Anchors: Steel, welded to frame
5) Lock: Theft and tamperproof, security bolt, with key.
6) Finish: Factory white polyester powder coated paint finish

c. Fasteners: All exposed Fasteners shall be tamper-proof and shall be a minimum No. 12 size. Fasteners for securing the Wall Molding to the wall are to be selected and furnished by the Contractor and approved by the Architect/Engineer.

C. Product Performance:

1. Accessibility: Suspended Metal Plank Ceiling Systems shall be designed and installed to resist access to the plenum area.
2. Acoustical Requirements: The perforated Ceiling Systems shall provide a Noise Reduction Coefficient (NRC) of no less than 0.80 when tested in accordance with ASTM C423-84a in an E-400 mounting as defined in ASTM E795-83.

2.03 FINISHES

A. **SCS-1** Metal Planks and Related Suspension:

1. The Metal Planks shall have a factory-applied white super-durable polyester powder coating finish. Finish to be applied after perforation to ensure coating of perforated holes. Panels shall be coated to a minimum thickness of 2.0 mils on the finish side.
2. Prior to painting, galvannealed steel surfaces shall be cleaned, rinsed, and properly treated to receive the powder coating finish.
3. Finish to achieve the following performance characteristics:
   a. Salt Spray per ASTM B-117 – 1,000 hours PASS at less than 1/8" from score.
   b. Humidity Resistance per ASTM D-2247 – 1,000 hours PASS at less than 1/8" from score.

B. **SCS-2** Metal Planks and Related Suspension:
   1. The Metal Planks and suspension shall be solid stainless steel and have manufacturer's standard finish. Do not remove any protective film from finish surfaces until immediately before installation.

2.04 FABRICATION

A. The Ceiling Contractor shall verify all dimensions, elevations, and job site conditions before fabrication commences.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examination of Surfaces: Installer must examine conditions under which work is to be performed and must notify Contractor in writing of unsatisfactory conditions. Commencement of installation shall indicate acceptance of existing and field conditions.

B. Verify that field measurements and block-out dimensions are as shown on Shop Drawings.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the Manufacturer to achieving the best result for the project conditions.

3.03 INSTALLATION

A. General: Comply with Manufacturer's printed instructions, governing regulations for Seismic Codes, Local Building Codes, and the Ceiling & Interior Systems Construction Association Standards applicable to work.

B. Prior to installation, remove all protective film in its entirety from all components.

C. Metal Security Ceiling System shall be installed in accordance with ASTM C636 and CISCA guidelines, in layouts as reflected on the approved Shop Drawings, all in compliance with the Manufacturer's Installation Instructions.
   1. The Suspension System and Wall Moldings shall be installed plumb and level.
   2. Start installation of Metal Plank at location as shown on Reflected Ceiling Plans. Slide
   3. Metal Plank along Perimeter Angle to create a ship lapped joint between adjoining Panels. Ensure self-aligning legs overlap each other. Side stitch Panels together along ship lapped Panel joints with self-tapping fasteners per approved Shop Drawings or at a minimum of 24'' O.C.

4. In order to achieve secure and tightly engaged Panel joint details, Panels must be installed progressively from the start Panel through the closure Panel. Except for the openings for light, air, fire protection, or access shown on the Reflected Ceiling Plans, all openings or cut outs required in the Ceiling Planks shall be field cut by the trades requiring the openings.
5. Provide a continuous bead concave tooled joint sealant Type 6 at all ceiling panel joints and at full perimeter of ceiling system.

3.04 CLEANING

A. Follow Manufacturer's cleaning instructions for specified finish.

3.05 PROTECTION

A. Procedures: Care should be taken during the remainder of construction to protect the Metal Security Ceiling System from damage.

B. Damage to Finished Work: Finished units of the Metal Security Ceiling System shall be without damage. Damage shall be repaired by the Contractor at the expense of the party damaging the material, as in accordance with the contract requirements.

END OF SECTION

SECTION 096513

RESILIENT BASE AND ACCESSORIES

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes:
   1. Resilient base.
   2. Transition strips

1.03 ACTION SUBMITTALS

A. Product Data: Manufacturer's specifications, and surface preparation and installation instructions, for each material specified except primer.

B. Samples for Selection: For each exposed product and for each color and texture specified:
   1. Color Samples: Manufacturer's standard colors, patterns, and textures.

C. Samples for Verification: For each type of product indicated and for each color, texture, and pattern required in manufacturer's standard-size Samples, but not less than 12 inches (300 mm) long.

1.04 INFORMATIONAL SUBMITTALS

A. Certificates: Provide certification from flooring installer that the substrate surfaces have been examined and are acceptable for installation of the Work of this Section.

1.05 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, [from the same product run], that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Furnish not less than 10 linear feet (3 linear m) for every 500 linear feet (150 linear m) or fraction thereof, of each type, color, pattern, and size of resilient product installed.

1.06 QUALITY ASSURANCE

A. Performance Criteria: The following criteria are required for products included in this section:
   1. Adhesives must not exceed the volatile organic compound (VOC) content limits established in South Coast Air Quality Management District (SCAQMD) Rule 1168

1.07 DELIVERY, STORAGE, AND HANDLING

A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F (10 deg C) or more than 90 deg F (32 deg C).

1.08 FIELD CONDITIONS

A. Environmental Requirements: Make arrangements thru the Director's Representative for having the temperature in the spaces to receive flooring maintained at 70 deg F (21 deg C) or more than 95 deg F (35 deg C) in spaces to receive resilient products during the following periods
   1. 48 hours before installation.
   2. During installation.
   3. 48 hours after installation.

B. Condition flooring materials by placing them in the spaces where they will be installed for at least 48 hours prior to installation.

C. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).

D. Install resilient products after other finishing operations, including painting, have been completed.

PART 2 PRODUCTS

2.01 THERMOSET-RUBBER BASES

A. Thermoset Rubber Base (CRB) Basis of Design: ASTM F 1861, Type TP (rubber, thermoplastic Group 2 (layered), and as specified below, 700 Series Wall Base, as manufactured by Roppe Corporation or a comparable product by one, but not limited to, of the following manufacturers:
   1. Johnsonite/Tarkett
   2. Nora by Interface
   3. Style and Location:
      a. Type: Coved
      b. Location:

1) As indicated on the Drawings

4. Thickness: 1/8”
5. Height: 4 inches unless otherwise noted on the Drawings
6. Fire Resistance: Class A
7. Critical radiant Flux: Class I
8. Smoke Density: passes as per ASTM E662, less than or equal to 450
9. Color: Roppe 668 Night Hawk

B. Where matching existing adjacent resilient base, match existing adjacent base height.

C. Coordinate heights such that they are consistent within each space and or entire length of run; no space should have base of differing heights.

D. Lengths: Coils in manufacturer's standard length.

E. Outside Corners: Preformed

F. Inside Corners: Job formed or preformed.

2.02 RESILIENT ACCESSORIES

A. Vinyl transition strips and adaptor Basis of Design: Homogeneous composition of polyvinyl chloride (PVC), high quality additives, and colorants, profiles as required to accept terminations of finish flooring materials and provide a continuous smooth transition between finish flooring systems of dissimilar materials and/or thicknesses; and as specified below; Johnsonite Adaptors, Reducers and Slim Line transitions as manufactured by Tarkett or a comparable product by one, but not limited to, of the following manufacturers:

1. Roppe, Inc.
2. Nora by Interface
3. Fire Resistance: ASTM E 648/NFPA 253 (Critical Radiant Flux) – Class I
4. Color and Patters:
5. Profile and Dimensions:
6. Location: As indicated on the drawings
   a. Where transitions occur in door openings, center transition strips beneath door.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

1. Examine substrate surfaces to receive the Work of this Section for defects that will adversely affect the execution and quality of the Work.
2. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges,

depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

B. Do not proceed until unsatisfactory conditions are corrected, and installer's substrate surface acceptability certification has been acknowledged by the Director's Representative.
   1. Installation of resilient products indicates acceptance of surfaces and conditions.

3.02 PREPARATION

A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.

B. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

C. Do not install resilient products until materials are the same temperature as space where they are to be installed.
   1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.

D. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

3.03 RESILIENT BASE INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient base.

B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.

D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

E. Do not stretch resilient base during installation.

F. Preformed Corners: Install preformed corners before installing straight pieces.

G. Job-Formed Corners:
   1. Inside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches (76 mm) in length.
      a. Miter or cope corners to minimize open joints.

3.04 RESILIENT ACCESSORY INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient accessories.

B. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.

3.05 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.

B. Perform the following operations immediately after completing resilient-product installation:
   1. Remove adhesive and other blemishes from surfaces.
   2. Sweep and vacuum horizontal surfaces thoroughly.
   3. Damp-mop horizontal surfaces to remove marks and soil.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. Cover resilient products subject to wear and foot traffic until Substantial Completion.
   1. Protect installed flooring from traffic and damage. Apply non-staining kraft paper covering where necessary. Maintain covering until directed to remove it by the Director's Representative

END OF SECTION

SECTION 096519

RESILIENT TILE FLOORING

PART 1 GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

A. Section Includes:
   1. Solid vinyl floor tile.

1.03 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Manufacturer's specifications, and surface preparation and installation instructions, for each material specified.

B. Shop Drawings: For each type of resilient floor tile.
   1. Include floor tile layouts, edges, columns, doorways, enclosing partitions, built-in furniture, cabinets, and cutouts.
   2. Show details of special patterns.

C. Samples:
   1. Resilient Tile: Full-size units of each color, texture, and pattern of floor tile required.
   2. Color Samples: Manufacturer's full range of colors, patterns, and textures.

1.04 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Quality Control Submittals:
   1. Certificates: Certificates required under Quality Assurance Article.

1.05 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of floor tile to include in maintenance manuals, to the Director’s Representative.

1.06 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Floor Tile: Furnish extra tile equal to 2 percent of the tile installed, with a minimum two (2) boxes, of each type, color, and pattern of floor tile installed. Provide full boxes of tiles.
   2. Identify extra materials with:
      a. Owner name
      b. Project name
      c. Contractor name
      d. Installer name, address and phone number
      e. Product manufacturer, model, style etc., include date and number of production run
      f. Date of delivery to jobsite
      g. Quantity of products
      h. Name and signature of Owner's Representative accepting materials
      i. Label of each component

1.07 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are competent in techniques required by manufacturer for floor tile installation and seaming method indicated.
   1. Engage an installer who employs workers for this Project who are trained or certified by floor tile manufacturer for installation techniques required.

B. Compatibility of Materials: For each type of tile specified, furnish associated materials made by or recommended by the tile manufacturer.

C. Certifications: Furnish certification from flooring installer that the substrate surfaces have been examined and are acceptable for installation of the Work of this Section.

D. Performance Criteria:
   1. The following criteria are required for products included in this section:
      a. All tile flooring must be certified as compliant with the FloorScore standard by an independent third-party.
      b. Adhesives must not exceed the volatile organic compound (VOC) content limits established in South Coast Air Quality Management District (SCAQMD) Rule 1168.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Store floor tile and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F (10 deg C) or more than 90 deg F (32 deg C). Store floor tiles on flat surfaces.

1.09 FIELD CONDITIONS

A. Condition flooring materials by placing them in the spaces where they will be installed for at least 48 hours prior to installation.

B. Make arrangements thru the Director's Representative for having the temperature in the spaces to receive flooring maintained at ambient temperatures within range recommended by manufacturer, but not less than 70 deg F (21 deg C) or more than 95 deg F (35 deg C), in spaces to receive floor tile during the following periods:
   1. 48 hours before installation.
   2. During installation.
   3. 48 hours after installation.

C. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).

D. Close spaces to traffic during floor tile installation.

E. Close spaces to traffic for 48 hours after floor tile installation.

F. Install floor tile after other finishing operations, including painting, have been completed.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics: For resilient floor tile, as determined by testing identical products according to ASTM E648 or NFPA 253 by a qualified testing agency.
   1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

2.02 RESILIENT FLOOR TILE

A. Resilient Floor Tile Type 1 (RFT-1): ASTM F1700 high performance solid (luxury) vinyl resilient floor tile, enhance urethane finish for stain and wear resistance, non-skid backing, minimum 20mil commercial grade wear layer, Hot & Heavy Collection, Boulder C0010 Series as manufactured by the Mohawk Group or a comparable product by one, but not limited to, of the following manufacturers:
   1. Armstrong Flooring
   2. Interface, Inc.
   3. Type: Luxury Vinyl Tile
   4. Construction: Commercial Grade Loose Lay Enhanced Resilient Tile.
   5. Nominal Dimensions:36-inches x 36-inches
   6. Thickness: Overall gauge 5mm
   7. Wear layer thickness: 20 mil
   8. Edge Profile: Straight Edge
   9. Backing: Stabilizing Backing Layer with Non-Skid Backing
   10. Static Load Limit: ASTM F970 - Passes, modified - 1000 psi

11. Radiant flux: ASTM E648 - Passes - ≥ 0.45 watts/cm2, Class 1
12. Dimensional Stability: ASTM F2199 - Passes - ≤ 0.020 in. per linear foot
13. Slip resistance: Greater than 0.55 wet/dry, ADA Compliant
14. Smoke Density: ASTM E662 Part A - Passes - < 450
15. Layout:
16. RFT-1 Color and Finish: Boulder C0010 925 Pebble

2.03 INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation provided or approved by floor tile manufacturer for applications indicated.

B. Adhesives: Water-resistant type recommended by floor tile and adhesive manufacturers to suit floor tile and substrate conditions indicated.

C. Primer for Porous or Dusty Concrete: Tile adhesive manufacturer's recommended primer for preparation of porous or dusty concrete.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
   1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of floor tile.

B. Do not proceed until unsatisfactory conditions are corrected, and installer's substrate surface acceptability certification has been acknowledged by the Director's Representative.

3.02 PREPARATION

A. Prepare substrates according to floor tile manufacturer's written instructions to ensure adhesion of resilient products.

B. Concrete Substrates: Prepare according to ASTM F710.
   1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
   2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by floor tile manufacturer. Do not use solvents.
   3. Alkalinity and Adhesion Testing: Perform tests recommended by floor tile manufacturer. Proceed with installation only after substrate alkalinity falls within

range on pH scale recommended by manufacturer in writing, but not less than 5 or more than 9 pH.

4. Moisture Testing: Perform tests so that each test area does not exceed 200 sq. ft. (18.6 and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
   a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate meeting manufacturer's recommendations and written instructions.
   b. Relative Humidity Test: Using in-situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum relative humidity level meeting manufacturer's recommendations and written instructions.

C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

D. Do not install floor tiles until materials are the same temperature as space where they are to be installed.
   1. At least 48 hours in advance of installation, move resilient floor tile and installation materials into spaces where they will be installed.

E. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient floor tile.

F. Concrete Subfloor:
   1. Remove trowel marks or other projections by grinding or sanding.
   2. Level uneven surfaces with smooth troweling of mastic underlayment. Follow underlayment manufacturer's application and curing instructions.
   3. Provide a substrate surface with not more than 1/8 inch in 10'-0" variation from level or required slope.
   4. If recommended by flooring material manufacturer, treat porous and dusty concrete with primer after vacuum cleaning the surface. Apply primer at the rate recommended by the primer manufacturer.

3.03 FLOOR TILE INSTALLATION

A. Comply with manufacturer's written instructions for installing floor tile.

B. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.
   1. Lay tiles square with room axis.

C. Match floor tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Discard broken, cracked, chipped, or deformed tiles.
   1. Lay tiles in Monolithic Pattern

D. Install tile evenly in straight, parallel lines.

E. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.

F. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.

G. Extend tile into toe spaces, door reveals, closets and other similar openings.

H. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent marking device.

I. Adhere floor tiles to substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.
   1. Install tile units in adhesive bed in compliance with manufacturer's printed instructions.

3.04 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting floor tile.

B. Perform the following operations immediately after completing floor tile installation:
   1. Remove adhesive and other blemishes from surfaces.
   2. Sweep and vacuum surfaces thoroughly.
   3. Damp-mop surfaces to remove marks and soil.

C. Protect floor tile from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. Joint Sealant: Apply sealant to resilient terrazzo floor tile perimeter and around columns, at door frames, and at other joints and penetrations.

E. Cover floor tile until Substantial Completion.

F. Prior to the final inspection, when directed by the Director's Representative, thoroughly clean tile floors and accessories. Apply 2 coats of floor finish and buff to finish. Comply with the tile manufacturer's recommended cleaning, finishing, and buffing procedures.

END OF SECTION 096519

SECTION 096723

RESININOUS FLOORING

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Concrete Fill: Section 033000 or 033001.

1.02 SYSTEM DESCRIPTION

A. Flooring and Base: Epoxy composition flooring and base not less than 1/4 inch thick composed of an epoxy resin matrix and mineral filler aggregate with a lightly ground and sealed finish.
   1. See Article 2.01 G for Basis of Design Flooring System (RSS-1)

1.03 SUBMITTALS

A. Product Data: Submit printed product descriptions, physical properties data, color charts, specifications, and application instructions as applicable, for each material specified except reinforcement and sealants.

B. Samples:
   1. Flooring and Base Combination: Each type and color; 12 inches x 12 inches x height of base plus one inch, complete with dividing strip at the toe and bead at top of base. Mount sample on plywood.
   2. Underlayment Components: One quart.
   3. Liquid Binder for Reinforcement: One quart.
   4. Clear Sealer: One quart.

C. Quality Control Submittals:
   1. Test Reports: At the request of the Director, furnish test reports from an independent testing laboratory showing that the submitted flooring materials meet or exceed specified physical properties and performance requirements.
   2. Certificates: Affidavit required under Article 3.01.
   3. Installer's Qualifications Data: Affidavit required under Quality Assurance Article.
   4. List of Completed Installations: At the request of the Director, furnish a list of at least 5 comparable installations of the submitted flooring materials with a satisfactory service life of not less than 3 years.

D. Contract Closeout Submittals:
   1. Maintenance Data: Deliver 2 copies of the flooring manufacturer's printed recommendations for cleaning and maintaining the installed flooring to the Director's Representative.

E. Warranty:
   1. Manufacturer’s printed warranty complying with General Conditions for the period indicted in Article 1.05 Warranty.

1.04 QUALITY ASSURANCE

A. Installer's Qualifications: The person supervising the Work of this Section and the workers installing the flooring system shall be personally experienced in epoxy resin flooring work and shall have been regularly employed by a company engaged in this type of flooring installation for a minimum of 3 years.
   1. Furnish to the Director the names and addresses of 5 similar projects which the foregoing people have worked on during the past 3 years.

B. Materials furnished for each type and color of flooring and base shall be from the same batch number.

1.05 WARRANTY

A. Manufacturer shall furnish a single, written warranty covering both material and workmanship for a period of two (2) full years from date of installation, or provide a joint and several warranty signed on a single document by material manufacturer and applicator jointly and severally warranting the materials and workmanship for a period of two (2) full year from date of substantial completion.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to the Site in factory sealed containers, clearly labeled and marked with manufacturer's name, address, batch number, and date of manufacture.

B. Store materials in accordance with manufacturer's printed instructions.
   1. All materials must be stored in full accordance manufacturer’s requirements, including but not limited to:
      a. Temperature
      b. Humidity

1.07 PROJECT CONDITIONS

A. Environmental Requirements:
   1. Make arrangements thru the Director's Representative for maintaining temperature and relative humidity conditions necessary for proper installation and curing of the Work. Comply with flooring manufacturer's recommendations.
   2. Maintain sufficient ventilation in areas to receive the Work of this Section. Follow flooring manufacturer's recommendations.

PART 2 PRODUCTS

2.01 MATERIALS

A. Fill:
   1. For Thickness up to 2-1/2 inches: Flooring manufacturer's standard or recommended liquid binder, fillers, and aggregate.
   2. For Thickness of More than 2-1/2 inches: Concrete fill, specified elsewhere.

B. Underlayment: Liquid binder and filler recommended by the flooring manufacturer.

C. Waterproofing: One of the following, in compliance with the flooring manufacturer's printed recommendations:
   1. Latex or resin membrane, reinforced with continuous filament swirl glass fabric. Weight of glass fabric not less than 4 oz per sq yd.

D. Reinforcement: Continuous filament swirl or woven glass fabric, not less than 4 oz per sq yd, embedded in latex or resin binder.

E. Primer: Flooring manufacturer's standard or recommended type.

F. Type RSS-1 Flooring and Base:
   1. Basis of Design Resinous Flooring System Type 1 (RSS-1): Provide resilient epoxy/urethane floor system, seamless, stain resistant, formulated for resistance against dynamic stresses in substrates incorporating manufacturer’s recommended primers and topcoats as required for a complete and finished installation; multiple layer resinous flooring system, Stongard MD system by Stonhard, an RPM Company and as described below:
      a. The Basis of Design Manufacturer shall not be construed as closing specifications to other prospective Manufacturers, but rather as establishing a level of quality in a metal system. Other systems may be submitted for approval, as provided for in the specifications. Companies desiring to submit a proposal shall submit all descriptive information of the system proposed including photographs and Shop Drawings of at least three (3) projects similar in detail and scope.
      b. Floor preparation: Floor preparation shall be the responsibility of the Resinous Flooring system manufacturer.
      c. First Primer Coat: Manufacturer’s recommended primer for flooring system:
         1) Basis of Design: Stonhard Standard Primer; by Stonhard, an RPM Company
         2) Resin: Two (2) component epoxy
         3) Formulation Description: 100 percent solids.
         4) Application: squeegee back roll
         5) Number of coats: One

d. Second Primer Coat: Manufacturer's recommended primer for flooring system:
   1) Basis of Design: Stonhard SL Primer; by Stonhard, an RPM Company
   2) Resin: Three (3) component epoxy with 90 grit silica
   3) Formulation Description: 100 percent solids elastomeric, 200 percent elongation
   4) Application Method: Squeegee and roller
   5) Number of coats: One

e. Body Coat 1 Basis of Design: two-component, free flowing. 100% solids, urethane, elastomeric waterproof membrane; Stonproof ME7 by Stonhard, an RPM Company:
   1) Resin: Urethane membrane
   2) Formulation Description: 100 percent solids elastomeric, 200 percent elongation elastomeric
   3) Application Method: notched towel screed
   4) Number of coats: One

f. Body Coat 2 Basis of Design: three-component, free flowing, consisting of resin, curing agent and fine aggregate; Stonshield Undercoat by Stonhard, an RPM Company:
   1) Resin: Epoxy Undercoat
   2) Formulation Description: 100 percent solids epoxy
   3) Application Method: squeegee and roller
   4) Number of coats: One

g. Texture Coat Basis of Design: brightly colored quartz broadcast aggregate; Stonshield Aggregate by Stonhard, an RPM Company:
   1) Material: Color coated Silica Quartz
   2) Formulation Description: 40/50 mesh subround silica
   3) Application Method: Broadcast
   4) Number of coats: One

h. Top Coat Basis of Design: two-component, high performance, UV resistant, clear epoxy sealer; Stonkote CE4 by Stonhard, an RPM Company:
   1) Resin: Epoxy
   2) Formulation Description: 100 percent solids epoxy
   3) Type: Clear
   4) Finish: As required to meet slip resistance requirements.
   5) Number of coats: One

2. Resilient Flooring Joint Sealant Basis of Design (Type 7A): Two-component, pourable, polyurethane sealant, with moderate hardness and good chemical resistance to organic acids, alkalis and solvents; Stonflex MP7 by Stonhard, an RPM Company.
   a. Tensile Strength: 250 psi as per ASTM C-307
   b. Percent Elongation: 450% as per ASSTM D-638
   c. Joint Movement Capability: +/- 25% as per TT-S-00227E
   d. Color to match Top Coat color

3. Overall System Properties:
   a. Tensile Strength: 1,300 psi per ASTM D 638
   b. Hardness: 85-90, Shore D per ASTM D 2240
   c. Flexural Strength: 1,900 psi as per ASTM C 580

d. Abrasion Resistance: 0.06 gm max weight loss as per ASTM D 4060 CS17
e. Water Absorption: 0.1% as per ASTM C 413
f. VOC Content:
1) Body Coat 1: 10 g/l
2) Body Coat 2: 5 g/l
3) Top Coat: 5 g/l

4. Floor preparation system and system installation must meet phasing and schedule requirements.
5. Install in full accordance with manufacturer's written instructions, as required to provide a complete, finished and watertight installation.
6. Prepare floor in full accordance with manufacturer's recommendations.
7. Provide manufacturer's moisture mitigation/control system as appropriate for each flooring system
8. Provide manufacturer's accessories, reinforcement membranes and/or other components and installation methods as required for a complete, finished and properly performing installation, including but not limited to methods and materials required at existing and new concrete floors, substrate humidity conditions, trenches, joints, cracks, etc.
9. Provide manufacturer's recommended filler piece at integral coved base, as required to provide full transition without gaps or support.
10. Aggregate Fillers: Clean, dry, and dust free inert aggregate. Type, size, color, and proportion recommended by the flooring manufacturer to produce flooring to match the approved sample.
11. Color, Patterns and Mix:
a. To match Stonhard Gotham Gray Medium Texture.

2.02 ACCESSORY MATERIALS

A. Patching and Fill Material: Resinous product of or approved by resinous flooring manufacturer and recommended by manufacturer for application indicated.

B. Pitching: Manufacturer's recommended non--shrink epoxy grout.

C. Resilient Flooring Joint Sealant Basis of Design (Type 7A): Two-component, pourable, polyurethane sealant, with moderate hardness and good chemical resistance to organic acids, alkalis and solvents; Stonflex MP7 by Stonhard, an RPM Company.
1. Tensile Strength: 250 psi as per ASTM C-307
2. Percent Elongation: 450% as per ASSTM D-638
3. Joint Movement Capability: +/- 25% as per TT-S-00227E
4. Color to match Top Coat color

D. Sealer: Flooring manufacturer's standard or recommended clear sealer.

E. Metal Accessories:
1. Dividing Strips: Zinc, with 1/8 inch thick vertical leg.
2. Base Bead: 16 gage zinc, with one inch leg for attachment to wall.
3. Flashing: 24 oz copper.
4. Extension Collars for Existing Floor Drains: Non-ferrous metal recommended by flooring manufacturer.

F. Reinforcement: Manufacturer's recommended 160mil/4mm thick, reinforced, textured engineering fabric. Basis of Design: Stongard MX by Stonhard, an RPM Company.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of Conditions: Examine surfaces scheduled to receive the Work of this Section for defects that will adversely affect the execution and quality of the

B. Certification: Provide affidavit by the flooring installer that the surfaces to receive the Work of this Section have been examined and are acceptable for application of the approved flooring. Do not install the flooring until such certification has been acknowledged by the Director in writing.

3.02 PREPARATION

A. Prior to application of surface preparation materials, underlayments and flooring, remove dirt, paint, wax, and other foreign material that may prevent bonding of new materials. Vacuum the entire substrate to remove debris and dust.

B. Unless otherwise recommended by the flooring manufacturer in writing, prepare the substrate as follows:

1. Existing Concrete: Remove loose, spalling, and friable concrete down to sound surfaces. Locate and mark expansion joints for later installation of dividing strips. Fill and level depressions, voids, cracks, and construction joints with underlayment system as per manufacturer's recommendations.
    a. Mechanically prepare substrates as follows:
        1) Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup.
        2) Comply with ASTM C 811 requirements, unless manufacturer's written instructions are more stringent.
    b. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written recommendations.
    c. Perform in situ probe test, ASTM F 2170. Proceed with application only after substrates do not exceed a maximum potential equilibrium relative humidity of 75 percent.
    d. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with application only after substrates have maximum moisture-vapor-emission rate of 7 lb of water/1000 sq. ft. of slab in 24 hours.
    e. Perform additional moisture tests recommended by manufacturer. Proceed with application only after substrates pass testing.

2. Verify that concrete substrates have neutral Ph and that resinous flooring will adhere to them. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.
3. Crack Treatment: Treat control joints and other nonmoving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's written recommendations.
    a. Provide continuous manufacturer's recommended engineering fabric set in manufacturer's recommended crack isolation mortar compatible with flooring system. Provide full length of crack. Extend minimum 4" either side of crack unless otherwise recommended by the manufacturer. Crack treatment to not compromise required finish flooring system requirements for proper installation and performance. Contractor's bid shall provide for 120 linear feet of crack treatment.

C. Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions.

D. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.

3.03 INSTALLATION

A. General: Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.

B. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.

C. Cure resinous flooring components according to manufacturer's written instructions. Prevent contamination during application and curing processes.

D. At substrate expansion and isolation joints, provide joint in resinous flooring to comply with resinous flooring manufacturer's written recommendations.
1. Apply joint sealant Type 7A to comply with manufacturer's written recommendations.

E. Fill: Place fill (or additional underlayment) where shown on the Drawings. For thickness up to 2-1/2 inches, use materials recommended by the flooring manufacturer. For thickness over 2-1/2 inches, use concrete fill specified elsewhere.

F. Apply primers where required by resinous system, over prepared substrate at manufacturer's recommended spreading rate.

G. Waterproofing: Where waterproofing is shown on the Drawings, install membrane in accordance with the manufacturer's printed instructions. Unless otherwise detailed on the Drawings, carry the membrane up vertically to the top of the base, and down into the drain bodies.

H. Reinforcement: Where waterproofing is not required, install reinforcement at intersections of horizontal and vertical surfaces of epoxy flooring. Unless otherwise dimensioned in the manufacturer's printed instructions, turn the reinforcing out onto the horizontal a minimum of 5 inches and up on the vertical to within one inch of the top of base. At floor drains, center a 30 inch square reinforcing membrane over the drain and turn down into drain body.

I. Membrane Base: Mix and apply membrane base over fully cured primer using manufacturer's specially designed squeegees and rollers.

J. Broadcast…broadcast tweed aggregate to point of refusal to insure proper texture.

K. Metal Accessories: Install dividing strips, control joints, expansion joints, and base beads level and true to line. Set accessories in underlayment material to fill voids and substrate irregularities. Position the dividing strips, control joints, expansion joints, and base beads as required to serve as screeds for the required finish thickness of the flooring and base.

1. Control Joints: Where control joints appear in the floor slab, install a dividing strip in the epoxy flooring. Locate the strip vertically above the joint for the full length.
    a. Saw-cut control joints (in lieu of installing dividing strips) where indicated. Cut joints after the flooring has cured, and fill joint with sealant, in accordance with the flooring manufacturer's recommendations.
2. Expansion Joints: Locate at existing building expansion joints and where shown on the Drawings. Carry expansion joints thru the entire flooring system. Where waterproofing membrane is called for, provide membrane joint treatment at expansion joints as recommended by the epoxy flooring manufacturer. Where expansion joint slip cover plates are not required, place a dividing strip on each side of joint and apply sealant as detailed on the Drawings or as recommended by the epoxy flooring manufacturer.
3. Install additional dividing strips at dividing lines between changes of color and types of flooring and base.
4. Install metal base bead along the top edge of projecting bases.
5. Flashings: Install flashings at pipes, conduits, and other items that penetrate thru the floor. Match the height of the wall base, unless otherwise shown on the Drawings.

3.04 TERMINATIONS

A. Chase edges to lock the coating system into the concrete substrate along lines of termination.

B. Penetration Treatment: Lap and seal coating onto the perimeter of the penetrating item by bridging over compatible elastomer at the interface to compensate for possible movement.

C. Treat floor drains by chasing the coating to lock in place at point of termination,

3.05 JOINTS AND CRACKS

A. Treat control joints to bridge potential cracks and to maintain monolithic protection.

B. Treat cold joints and construction joints to bridge potential cracks and to maintain monolithic protection on horizontal and vertical surfaces as well as horizontal and vertical interfaces.

C. Discontinue floor coating system at vertical and horizontal contraction and expansion joints by installing backer rod and compatible sealant after coating installation is completed. Provide sealant type recommended by manufacturer for traffic conditions and chemical exposures to be encountered.

3.06 FIELD QUALITY CONTROL

A. Material Sampling: Director's Representative may at any time and any numbers of times during resinous flooring application require material samples for testing for compliance with requirements.
   1. Director's Representative will engage an independent testing agency to take samples of materials being used. Material samples will be taken, identified, sealed, and certified in presence of Contractor.
   2. Testing agency will test samples for compliance with requirements, using applicable referenced testing procedures or, if not referenced, using testing procedures listed in manufacturer's product data.
   3. If test results show applied materials do not comply with specified requirements, pay for testing, remove noncomplying materials, prepare surfaces coated with unacceptable materials, and reapply flooring materials to comply with requirements.

3.07 CLEANING, PROTECTING AND CURING

A. Cure resinous flooring materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of application and prior to completion of curing process. Close area of application for a minimum of 18 hours.

B. Protect resinous flooring materials from damage and wear during construction operation. Where temporary covering is required for this purpose, comply with manufacturer's recommendations for protective materials and method of application. Contractor is responsible for protection and cleaning of surfaces after final coats.

C. Cleaning: Remove temporary covering and clean resinous flooring just prior to final inspection. Use cleaning materials and procedures recommended by resinous flooring manufacturer.

END OF SECTION

SECTION 096816

SHEET CARPETING

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 REFERENCES

A. AATCC - The American Association of Textile Chemists and Colorists, Research Triangle Park, NC 27709.

B. CRI – Carpet and Rug Institute, Dalton, GA 30722-2048, www.carpet-rug.com.

1.03 SUMMARY

A. Section Includes:
   1. Carpet.

B. Related Requirements:
   1. Division 09 Section Resilient Base and Accessories" for resilient wall base and accessories installed with carpet.

1.04 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
   1. Review methods and procedures related to carpet installation including, but not limited to, the following:
      a. Review delivery, storage, and handling procedures.
      b. Review ambient conditions and ventilation procedures.
      c. Review subfloor preparation procedures.

1.05 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include manufacturer's written data on physical characteristics and durability.
   2. Include manufacturer's written installation recommendations for each type of substrate.

B. Shop Drawings: For carpet installation, showing the following:
   1. Columns, doorways, enclosing walls or partitions, built-in cabinets, and locations where cutouts are required in carpet.
   2. Carpet type, color, and dye lot.
   3. Locations where dye lot changes occur.

4. Seam locations, types, and methods.
5. Type of subfloor.
6. Type of installation.
7. Pattern type, repeat size, location, direction, and starting point.
8. Pile direction.
9. Types, colors, and locations of insets and borders.
10. Types, colors, and locations of edge, transition, and other accessory strips.
11. Transition details to other flooring materials.

C. Samples for Verification: For each of the following products and for each color and texture required. Label each Sample with manufacturer's name, material description, color, pattern, and designation indicated on Drawings and in schedules.
1. Carpet: 12-inch- (300-mm-) square Sample.
2. Exposed Edge, Transition, and Other Accessory Stripping: 12-inch- (300-mm-) long Samples.
3. Carpet Seam: 6-inch (150-mm) Sample.

1.06 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Test Reports: For carpet, for tests performed by a qualified testing agency.

C. Sample Warranties: For special warranties.

1.07 CLOSEOUT SUBMITTALS

A. Maintenance Data: For carpet to include in maintenance manuals. Include the following:
1. Methods for maintaining carpet, including cleaning and stain-removal products and procedures and manufacturer's recommended maintenance schedule.
a. Maintenance and Cleaning Instructions: Furnish 2 copies to the Director’s Representative.
b. Copy of Warranty
2. Precautions for cleaning materials and methods that could be detrimental to carpet.

1.08 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Carpet: Full-width rolls equal to 5 percent of amount installed for each type indicated, but not less than 10 sq. yd. (8.3 sq. m).

1.09 QUALITY ASSURANCE

A. Installer Qualifications: The persons installing the sheet carpeting and their Supervisor shall be experienced in carpeting installation, including the requirements of the sheet carpeting manufacturer, and shall have been regularly employed by a company engaged in installation of carpeting for a minimum of 5 years.
   1. Furnish to the Director the names and addresses of 5 similar projects which the foregoing people have worked on during the past 3 years.

B. Flammability Certification.
   1. Radiant Panel Flooring Flammability Test: NFPA 253. Class I, Minimum 0.45 watts per sq centimeter.
   2. Methenamine Tablet Test: DOC-FF-1-70 and ASTM D 2859. Meet the "Standards for the Surface Flammability of Carpets"..
   3. Smoke Density Test: NFPA 258 and ASTM E 662. Specific optical density (DM) of 450 or less (flaming).

C. Colorfastness to Light: AATCC 16, Option E. Minimum rating of 4 on grey scale after 80 hours exposure.

D. Colorfastness to Crocking: AATCC 165. Minimum rating of 4 wet and dr.

E. Appearance Retention Rating: ASTM D 5252. CRI TM-101 "Severe" rating.

F. Stain Resistance: AATCC 175. Rating of 8 or better.

G. Static Resistance: AATCC 134. 3.5 kv or less, at 70 degrees F and 20 percent RH.

H. Tuft Bind: ASTM D 1335. Average pounds of force not less than 12 pounds.

I. Certifications: Furnish certification from sheet carpeting installer that the substrate surfaces have been examined and are acceptable for installation of the Work of this Section.

1.10 PERFORMANCE CRITERIA

A. The following criteria are REQUIRED for products included in this section:
   1. All carpet installed in the building interior must meet the testing and product requirements of the Carpet and Rug Institute Green label Plus program.
   2. All carpet products shall be certified to meet the NSF/ANSI 140-2007 Standard, Gold level.
   3. All carpet cushion installed in the building interior must meet the requirements of the Carpet and Rug Institute Green Label program.
   4. All carpet adhesives must meet the requirements of Specification Section 018120, which includes a maximum permitted volatile organic compound level of 50 g/L.

1.11 DELIVERY, STORAGE, AND HANDLING

A. Comply with the Carpet and Rug Institute's CRI 104.

B. Deliver carpet in original mill protective covering with mill register numbers and tags attached.

C. Store sheet carpeting and related materials in an enclosed and dry area protected from damage and soiling.

1.12 FIELD CONDITIONS

A. Comply with the Carpet and Rug Institute's CRI 104 for temperature, humidity, and ventilation limitations.

B. Environmental Limitations: Do not deliver or install carpet until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, and ambient temperature and humidity conditions are maintained at levels planned for building occupants during the remainder of the construction period.
   1. Make arrangements thru the Director’s Representative for having the temperature in the spaces to receive sheet carpeting maintained at 68 degrees F for 48 hours prior to flooring installation, during the installation, and for 72 hours after installation

C. Do not install carpet over concrete slabs until slabs have cured, are sufficiently dry to bond with adhesive, and have pH range recommended by carpet manufacturer.

D. Where demountable partitions or other items are indicated for installation on top of carpet, install carpet before installing these items.

E. Do not install the Work of this Section until painting, finishing Work, and Work of other trades has been completed.

1.13 WARRANTY

A. Special Warranty for Carpet: Manufacturer agrees to repair or replace components of carpet installation that fail in materials or workmanship within specified warranty period.
   1. Warranty does not include deterioration or failure of carpet due to unusual traffic, failure of substrate, vandalism, or abuse.
   2. Failures include, but are not limited to, the following:
      a. More than 10 percent loss of face fiber, edge raveling, snags, and runs.
      b. Loss of tuft bind strength.
      c. Excess static discharge.
      d. Delamination.
   3. Warranty Period: 15 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.01 CARPET

A. Carpet Type 1 (CPT-1): Commercial broadloom sheet carpet, PVC Free, Shaw Contract Ambition IV series as described below; as manufactured by Shaw Industries Group or a comparable product including, but not limited to, one of the following manufacturers:

1. Atlas Carpet Mills
2. Mannington Mills, Inc.
3. Product Type: Broadloom
4. Construction: Textured Loop
5. Fiber: Solution Dyed PET
6. Dye Method: 100% solution dyed
7. Primary Backing: Synthetic
8. Secondary Backing: To match Shaw Classicbac
9. Product Size: 12'-0"
10. Guage: 1/10 inch
11. Stitches: 10.0 per inch
12. Average Density: 5106 oz per square yard
13. Total Thickness: 0.284-inch
14. Tufted weight: 20 oz per square yard
15. Style and Color: 5A367 Pebble 00510.

2.02 INSTALLATION ACCESSORIES

A. Trowelable Leveling and Patching Compounds: Latex-modified, hydraulic-cement-based formulation provided or recommended by carpet manufacturer.

B. Adhesives: Water-resistant, mildew-resistant, nonstaining type to suit products and subfloor conditions indicated, that complies with flammability requirements for installed carpet and is recommended or provided by carpet manufacturer.

1. Low VOC Flooring Adhesive and Joint Materials: Flooring manufacturer's recommended water resistant materials formulated for low VOC (VOC Limit 50g/L less water) and for application on substrate and grade level

C. Seam Adhesive: Hot-melt adhesive tape or similar product recommended by carpet manufacturer for sealing and taping seams and butting cut edges at backing to form secure seams and to prevent pile loss at seams.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for maximum moisture content, alkalinity range, installation tolerances, and other conditions affecting carpet performance.

B. Examine carpet for type, color, pattern, and potential defects.

C. Concrete Slabs: Verify that finishes comply with requirements specified in Section 033000 "Cast-in-Place Concrete" and that surfaces are free of cracks, ridges, depressions, scale, and foreign deposits.

1. Moisture Testing: Perform tests so that each test area does not exceed 200 sq. ft. (18.6 sq. m) and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.

a. Anhydrous Calcium Chloride Test: ASTM F1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) or in accordance with Manufacturer's written instructions in 24 hours, whichever is most stringent.

b. Relative Humidity Test: Using in situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement or in accordance with Manufacturer's written instructions in 24 hours, whichever is most stringent.

c. Perform additional moisture tests recommended in writing by adhesive and carpet manufacturers. Proceed with installation only after substrates pass testing.

D. Clean floors of dust, dirt, solvents, oil, grease, loose paint, and other substances. Allow floors to dry thoroughly.

E. Proceed with installation only after unsatisfactory conditions have been corrected.

1. Commencement of installation shall indicate acceptance of all existing and field conditions.

3.02 PREPARATION

A. General: Comply with the Carpet and Rug Institute's CRI 104 and with carpet manufacturer's written installation instructions for preparing substrates.

B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, depressions, and protrusions in substrates. Fill or level cracks, holes and depressions 1/8 inch (3 mm) wide or wider, and protrusions more than 1/32 inch (0.8 mm), unless more stringent requirements are required by manufacturer's written instructions.

C. Concrete Substrates: Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, without using solvents. Use mechanical methods recommended in writing by adhesive and carpet manufacturers.

D. Broom and vacuum clean substrates to be covered immediately before installing carpet.

3.03 INSTALLATION

A. Comply with the Carpet and Rug Institute's CRI 104 and carpet manufacturer's written installation instructions for the following:

1. Direct-glue-down installation. Apply adhesive in accordance with manufacturer’s instructions. Broom or roll sheet carpeting to remove air bubbles and insure bond.

B. Comply with carpet manufacturer's written instructions and Shop Drawings for seam locations and direction of carpet; maintain uniformity of carpet direction and lay of pile. At doorways, center seams under the door in closed position.

C. Install pattern parallel to walls and borders.
1. Install sheet carpeting in accordance with accepted seam diagram.

D. Seaming: Treat edges cut for seaming with seam sealer. Apply the sealer along the edge of the sheet carpeting at the point where the face yarn goes into the back. Immediately remove excess sealer from face of pile with cleaning solvent recommended by seam sealer manufacturer.

E. Do not bridge building expansion joints with carpet.

F. Cut and fit carpet to butt tightly to vertical surfaces, permanent fixtures, and built-in furniture including cabinets, pipes, outlets, edgings, thresholds, and nosings. Bind or seal cut edges as recommended by carpet manufacturer.

G. Extend carpet into toe spaces, door reveals, closets, open-bottomed obstructions, removable flanges, alcoves, and similar openings.

H. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on carpet as marked on subfloor. Use nonpermanent, nonstaining marking device.

3.04 CLEANING AND PROTECTION

A. Perform the following operations immediately after installing carpet:
1. Remove excess adhesive, seam sealer, and other surface blemishes using cleaner recommended by carpet manufacturer.
2. Remove yarns that protrude from carpet surface with sharp scissors.
3. Vacuum carpet using commercial machine with face-beater element.

B. Protect installed carpet to comply with the Carpet and Rug Institute's CRI 104.

C. Protect carpet against damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods recommended in writing by carpet manufacturer and carpet adhesive manufacturer.
1. Allow glue-down installation a minimum of 48 hours to cure before subjecting it to any traffic, moving of furniture, or other heavy equipment.

END OF SECTION 096816

SECTION 099101

CONSTRUCTION PAINTING

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Section 099659 High Build Glazed Coatings.

1.02 DEFINITIONS

A. The word “paint” in this Section refers to substrate cleaners, fillers, sealers, primers, undercoats, enamels, stains, varnishes and other first, intermediate, last or finish coatings.

B. The word “primer” in this Section refers to substrate cleaners, fillers, sealers, undercoats, and other first or intermediate coats beneath the last or finish coating.

C. The words “finish paint” in this Section refers to the last or final coat and previous coats of the same material or product directly beneath the last or final coat.

D. Finish Paint Systems: Finish paint and primers applied over the same substrate shall be considered a paint system of products manufactured or recommended by the finish coat manufacturer.
   1. Finish paint products shall meet or exceed specified minimum physical properties.

1.03 SUBMITTALS

A. Painting Schedule: Cross-referenced Painting Schedule listing all exterior and interior substrates to be painted and specified finish paint type designation; product name and manufacturer, recommended primers and product numbers, and finish paint color designation for each substrate to be painted.
   1. Designate exterior substrates by building name and number, substrate to be painted and surface location.
   2. Designate interior substrates by building name and number, floor, room name and number, and surface to be painted.

B. Product Data Sheets: Manufacturer’s published product data sheets describing the following for each finish paint product to be applied:
   1. Percent solids by weight and volume, solvent, vehicle, weight per gallon, ASTM D 523 gloss/reflectance angle, recommended wet and dry film thickness, volatile organic compound (VOC) content in lbs/gallon, product use limitations and environmental restrictions, substrate surface preparation methods, directions and precautions for mixing and thinning, recommended application methods, square foot area coverage per gallon, storage instructions, and shelf-life expiration date.
   2. Manufacturer’s recommended primer for each finish paint product and substrate to be painted.

3. Manufacturer's complete range of available colors for each finish paint product to be applied.

C. Finish Paint Samples: Two finish paint samples applied over recommended primers for each substrate to be painted.
   1. Samples shall be in the designated color and specified ASTM D 523 reflectance.
   2. Label each sample with the following information:
      a. Project number and Painting Schedule designation describing substrate location represented by the sample.
      b. Finish paint and primer manufacturer, product names and numbers, finish paint color and reflectance.
   3. Leave a 1 inch wide exposed strip of unpainted substrate, primer, intermediate coatings, and finish paint specified.
   4. Sample Sizes:
      a. Wall, Ceiling, and Floor Substrates: 12 inch square panels.
      b. Finish Wood Substrates: 4 inch by 8 inch samples of each wood species.
      c. Concrete and Concrete Masonry Unit Substrates: 4 inch square blocks.
      d. Sheet Metals: 4 inch by 8 inch flat sheets.
      e. Bar and Tubular Metals: 8 inch long bars or tubular stock.

D. Quality Control Submittals:
   1. Test Reports:, Furnish certified test results from an independent testing laboratory showing that products submitted comply with the specifications, if requested by the Director's Representative.
   2. Certificates: Furnish certificates of compliance required under QUALITY ASSURANCE Article.

1.04 QUALITY ASSURANCE

A. Installer qualifications: Installer shall have a minimum of five (5) years proven satisfactory experience and shall show proof before commencement of work that he will maintain a qualified crew of painters throughout the duration of the work. When requested, Contractor shall provide a list of the last three comparable jobs including, name and location, specifying authority / project manager, start / completion dates and value of the painting work.
   1. Only qualified journey persons, as defined by local jurisdiction shall be engaged in painting and decorating work. Apprentices may be employed provided they work under the direct supervision of a qualified journeyperson in accordance with trade regulations.

B. Volatile Organic Compounds (VOCs) Regulatory Requirements: Chapter III of Title 6 of the official compilation of Codes, Rules and Regulations of the State of New York (Title 6 NYCRR), Part 205 Architectural Surface Coatings.
   1. Certificate of Compliance: List of each paint product to be delivered and installed. List shall include written certification stating that each paint product listed complies with the VOC regulatory requirements in effect at the time of job site delivery and installation.

C. Container Labels: Label each product container with paint manufacturer's name, product name and number, color name and number, thinning and application instructions, date of manufacture and shelf-life expiration, required surface preparation, recommended coverage per gallon, wet and dry film thickness, drying time, and clean up procedures.

D. Field Examples:
   1. Prior to on-site painting, at locations designated by the Director's Representative, apply field examples of each paint type to be applied.
   2. Field examples to be applied on actual substrates to be painted and shall duplicate earlier approved paint samples.
      a. Interior field examples to be applied in rooms and spaces to be painted with the same products.
      b. Field Example Minimum Wet and Dry Film Thickness: As indicated on approved product data sheet.
      c. Application: Apply each coat in a smooth uniform wet mil thickness without brush marks, laps, holidays, runs, stains, cloudiness, discolorations, nail holes and other surface imperfections.
         1) Leave a specified exposed width of each previous coat beneath each subsequent coat of finish paint and primer.
      d. Use of Field Examples: Field examples shall serve as a quality control standard for acceptance or rejection of painting Work to be done under this Section.
   3. Field Example:
      a. In coordination with Director's Representative, select one Bedroom to serve as field example locations. Select the following locations for field examples:
         1) One (1) interior wall
         2) One (1) door and frame, both interior and exterior
         3) One (1) corridor side wall
         4) Outside the selected bedroom, adjacent to the wall and door field example, a 5'-0" length x width of corridor of gypsum board ceiling to receive paint.
      b. In coordination with Director's Representative, select one Bedroom to serve as field example:
         1) One (1) interior wall
   4. Do not begin applying paints represented by field examples until examples have been reviewed and approved by the Director's Representative.
      a. Protect and maintain approved field examples until all painting work represented by the example has been completed and approved.

E. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
   1. For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.

F. Performance Criteria:

1. The following criteria are REQUIRED for products included in this section:
   a. Paints and coatings manufactured within 500 miles (by air) of the project site shall be documented in accordance with Submittal Requirements of Item 1.03.F.
   b. Architectural paints and coatings applied to interior walls and ceilings must not exceed the volatile organic compound (VOC) content limits established in Green Seal Standard GS-11, Paints.
   c. Anti-corrosive and anti-rust paints applied to interior ferrous metal substrates must not exceed the VOC content limit established in Green Seal Standard GC-03, AntiCorrosive Paints.
2. Volatile Organic Compounds: The VOC concentrations (in grams per liter) of the product shall not exceed those listed below as determined by U. S. Environmental Protection Agency (EPA) Reference Test Method 24 and the standards referenced in 1.04.E.1.
   a. Interior Paints and Coatings:
      1) Non-flat: 150
      2) Flat: 50
   b. Anti-Corrosive Paints (if used in interior applications):
      1) Gloss: 250
      2) Semi-gloss: 250
      3) Flat: 250
   c. Exclude water and tinting color added at the point of sale in the calculation of VOC concentrations.
3. Chemical Component Limitations: Aromatic Compounds: the product must contain no more than 1.0% by weight of the sum total of aromatic compounds. Testing for the concentration of these compounds will be performed if they are determined to be present in the product during a materials audit.
4. Chemical Component Limitations, Other Chemicals: The manufacturer shall demonstrate that the following chemical compounds are not used as ingredients in the manufacture of the product:
   a. Halomethanes: Methylene chloride.
   b. Chlorinated ethanes: 1,1,1-trichloroethane
   c. Aromatic solvents: benzene, toluene (methylbenzene), ethylbenzene.
   d. Chlorinated ethylenes: Vinyl chloride.
   e. Polynuclear aromatics: Naphthalene.
   f. Chlorobenzenes: 1,2-dichlorobenzene.
   g. Phthalate esters: Di (2-ethylhexyl) phthalate, butyl benzyl phthalate, di-n-butyl phthalate, di-n-octyl phthalate, diethyl phthalate, dimethyl phthalate.
   h. Miscellaneous semi-volatile organics: Isophorone.
   i. Metals and their compounds: antimony, cadmium, hexavalent chromium, lead, mercury
   j. Preservatives (antifouling agents): formaldehyde
   k. Ketones: methyl ethyl ketone, methyl isobutyl ketone
   l. Miscellaneous volatile organics: acrolein, acrylonitrile

1.05 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to the Site in original, unopened containers and cartons bearing manufacturer's printed labels. Do not deliver products which have exceeded their shelf life, are in open or damaged containers or cartons, or are not properly labeled as specified.

B. Storage and Handling: Store products in a dry, well ventilated area in accordance with manufacturer's published product data sheets. Storage location shall have an ambient air temperature between 45 degrees F and 90 degrees F.
   1. Maintain containers in clean condition, free of foreign materials and residue.
   2. Remove rags and waste from storage areas daily.
   3. Only material used on this project to be stored on site.
   4. Where toxic and/or volatile / explosive / flammable materials are being used, provide adequate fireproof storage lockers and take all necessary precautions and post adequate warnings (e.g. no smoking) as required.
   5. Comply with requirements of authorities having jurisdiction, in regard to the use, handling, storage and disposal of hazardous materials.

1.06 PROJECT CONDITIONS

A. Environmental Requirements:
   1. Ambient Air Temperature, Relative Humidity, Ventilation, and Surface Temperature: Comply with paint manufacturer's published product data sheet or other printed product instructions.
   2. If paint manufacturer does not provide environmental requirements, use the following:
      a. Ambient Air Temperature: Between 45 degrees F and 75 degrees F.
      b. Relative Humidity: Below 75 percent.
      c. Ventilation: Maintain the painting environment free from fumes and odors throughout the Work of this Section.
      d. Surface Temperature: At least 5 degrees F above the surface dewpoint temperature.
   3. Maintain environmental requirements throughout the drying period.
   4. Do not apply paints unless adequate continuous ventilation and sufficient heating facilities are in place to maintain ambient air and substrate temperatures above minimum requirements for 24 hours before, during and after paint application. Provide supplemental ventilating and heating equipment if ventilation and heating from existing system is inadequate to meet minimum requirements.
   5. Do not apply paints when relative humidity and temperature conditions do not meet Paint Manufacturer's recommendations.
   6. Do not apply paints on surfaces that have not been properly prepared and/or locations where the substrates do not meet Paint Manufacturer's recommendations.
   7. Apply paint only to dry, clean, properly cured and adequately prepared surfaces in areas where dust is no longer generated by construction

activities such that airborne particles will not affect the quality of finished surfaces.

8. Do not apply paints unless a minimum lighting level of 323 Lux (30 foot candles) is provided on surfaces to be painted or decorated. Adequate lighting facilities shall be provided by the Contractor.

B. The following items are not to be painted unless otherwise specified, noted or directed:
   1. Exposed stainless steel, chrome, copper, bronze, brass, and aluminum.
   2. Factory prefinished items.
   5. Galvanized items not exposed in finished spaces.

1.07 SCHEDULING

A. Schedule painting operations to prevent disruption of and by other trades.
   1. Schedule painting operations in occupied facilities to prevent disruption of occupants in and about the building. Painting shall be carried out in accordance with Director's Representative's operating requirements. Schedule work such that painted surfaces will have dried before occupants are affected. Obtain written authorization from Architect and Director's Representative for changes in work schedule.
      a. Coordinate requirements and limitations of work access with Director's Representative's, including but not limited to, for:
         1) Director's Representative and/or Facility after working hours requirements.
         2) Director's Representative and/or Facility required silent hours.
         3) Director's Representative and/or Facility weekend work requirements.

1.08 EXTRA MATERIALS

A. Provide extra finish paint materials, from the same production run as paints to be applied, in the following quantities for each color installed:
   1. Paint Types IAL-2: Four gallons, each type.
   2. Other Paint Types: Two gallon, each type.
   3. Packaging: Furnish extra materials in paint manufacturer's original containers:
      a. Furnish the minimum required quantity of extra materials in full, unopened containers sealed by the paint product manufacturer. Additional quantities of each paint product and color may be furnished in partial and/or resealed containers.
   4. Identify extra materials with:
      a. Owner name
      b. Project name
      c. Contractor name
      d. Installer name, address and phone number
      e. Product manufacturer, model, style etc.
      f. Date of delivery to jobsite
      g. Quantity of products

h. Name and signature of Owner's Representative accepting materials
i. Finish Schedule designation for each component.

5. At project completion provide an itemized list complete with manufacturer, paint type and color coding for all colors used for Owner's later use in maintenance.

PART 2 PRODUCTS

2.01 PAINT MANUFACTURERS

A. Where noted, the following finish paint manufacturers produce the paint types specified.

1. Ameron Protective Coatings, 201 Berry St., Brea, CA 92621, (800) 926-3766.
2. Benjamin Moore and Co., 51 Chestnut Ridge Rd., Montvale, NJ 07645, (201) 573-9600.
3. Samuel Cabot Inc., 100 Hale St., Newburyport, MA 01950, (508) 465-1900.
4. Chromatic Paint Corp., P. O. Box 690, Stony Point, NY 10980, (800) 431-7001.
5. Consumers Paint Factory Inc., 5300 West 5th Ave., Gary, IN 6406, (219) 949-1684.
6. Coronado Paint Co., P. O. Box 308, Edgewater, FL 32132-0308, (800) 874-4193.
7. Flame Control Coatings, Inc., P. O. Box 786, Niagara Falls, NY 14302-0786, (716) 282-1399.
8. ICI Dulux Paints, 4000 Dupont Cr., Louisville, KY 40207, (800) 984-5444.
9. Inorganic Coatings, Inc., 500 Lapp Rd., Malvern, PA 19355, (800) 345-0531.
10. PPG Architectural Finishes, One PPG Plaza, Pittsburgh, PA 15272, (800) 441-9695.
11. Rust-Oleum Corporation, 11 Hawthorn Pky., Vernon Hills, IL 60061, (800) 553-8444.
12. Sherwin-Williams Co., Cleveland, OH 44101, (800) 321-8194.
13. T.J. Ronan Paint Corp., 749 East 135th St., Bronx, NY 10454, (800) 247-6626.
14. Valspar Corp., 1401 Severn St., Baltimore, MD 21230, (800) 638-7756.
15. Wm. Zinsser & Co., 39 Belmont Drive, Somerset, NJ 08875-1285, (908) 469-8100.

2.02 PAINT PRODUCTS

A. Bedding Compound: Water based pre-mixed gypsum wallboard joint compound.

B. Cleaning Solvents: Low toxicity with flash point in excess of 100 degrees F.

C. Color Pigments: Pure, nonfading, finely ground pigments with at least 99 percent passing a 325 mesh sieve.

1. Use lime-proof color pigments on masonry, concrete and plaster.
2. Use exterior pigments in exterior paints.

D. Galvanizing Compound, Cold: Single component compound with 93 percent pure zinc in the dried film and meeting the requirements of DOD-P-21035A (NAVY).

E. Glazing Compound: ASTM C 669.

F. Masking Tape: Removable paper or fiber tape, self-adhesive and nonstaining.

G. Metal Filler: Polyester resin base autobody filler.

H. Mineral Spirits: Low odor type recommended by finish paint manufacturer.

I. Nonskid Deck Enamel Additive: Sid Tex by Gamma Labs, Inc., 840 Arroyo Ave., San Fernando, CA, 91340-1832, (818) 369-7500.

J. Paint Stripper: As recommended by finish paint manufacturer.

K. Spackling Compound: Water based pre-mixed plaster and gypsum wallboard finishing compound.
1. Color match putty to wood substrate beneath clear and semi-transparent finishes.

L. Mixing and Tinting:
1. Unless otherwise specified herein or pre-approved, all paint shall be ready-mixed and pre-tinted. Re-mix all paint in containers prior to and during application to ensure break-up of lumps, complete dispersion of settled pigment, and color and gloss uniformity.
2. Paste, powder or catalyzed paint mixes shall be mixed in strict accordance with manufacturer's written instructions.
3. Where thinner is used, addition shall not exceed paint manufacturer's recommendations. Do not use kerosene or any such organic solvents to thin water-based paints.
4. If required, thin paint for spraying according in strict accordance with paint manufacturer's instructions. Obtain instructions in writing from manufacturer and provide copy of instructions as part of Interior Painting submittal.

2.03 FINISH PAINT TYPES

A. Physical Properties:
1. Specified percent solids by weight and volume, pigment by weight, wet and dry film thickness per coat, and weight per gallon are minimum physical properties of acceptable materials.
a. Opaque Pigmented Paints: Physical properties specified are for white titanium dioxide base before color pigments are added.
b. Specified minimum wet and dry film thickness per coat are for determining acceptable finish paint products. Minimum wet and

dry film thickness per coat to be applied shall comply with approved finish paint manufacturer's product data sheets.

2. Gloss or Reflectance: The following ASTM D 523 specified light levels and angles of reflectance:
   a. Flat: Below 15 at 85 degrees.
   b. Eggshell: Between 5 and 20 at 60 degrees.
   c. Satin: Between 15 and 35 at 60 degrees.
   d. Semigloss: Between 30 and 65 at 60 degrees.
   e. Gloss: Over 65 at 60 degrees.

B. Interior Finish Paint Types:
   1. Paint Type IAL-2: Interior Acrylic Latex, Eggshell.
      a. Solids by Weight: 51.0 percent.
      b. Solids by Volume: 35.0 percent.
      c. Solvent: Water.
      d. Vehicle: Vinyl acrylic resin.
      e. Weight Per Gallon: 11.0 lbs.
      f. Wet Film Thickness: 3.8 mils.
      g. Dry Film Thickness: 1.3 mils.
      h. Manufacturers: Benjamin Moore, ICI Dulux, Sherwin-Williams.
      i. Location: All vertical and horizontal surfaces to receive paint unless otherwise designated or scheduled.
   2. Paint Type IAL-3: Interior Acrylic Latex, Semigloss Enamel.
      a. Solids by Weight: 49.0 percent.
      b. Solids by Volume: 35.0 percent.
      c. Solvent: Water.
      d. Vehicle: Vinyl acrylic resin.
      e. Weight Per Gallon: 10.0 lbs.
      f. Wet Film Thickness: 3.8 mils.
      g. Dry Film Thickness: 1.2 mils.
      h. Manufacturers: Benjamin Moore, ICI Dulux, Sherwin-Williams.
      i. Location: All painted doors and frames to receive paint unless otherwise designated or scheduled.
   3. Paint Type IAL-4: Interior Acrylic Latex, Gloss Enamel.
      a. Solids by Weight: 40.0 percent.
      b. Solids by Volume: 32.0 percent.
      c. Solvent: Water.
      d. Vehicle: Vinyl acrylic resin.
      e. Weight Per Gallon: 10.0 lbs.
      f. Wet Film Thickness: 3.4 mils.
      g. Dry Film Thickness: 1.2 mils.
      h. Manufacturers: Benjamin Moore, PPG, Sherwin-Williams
      i. Location: Shower Rooms, Janitor Closets and Other Wet Areas or otherwise designated or scheduled.
   4. Paint Type FRL: Fire Retardant Latex, Flat.
      a. Fire rating: Provide UL listed 1hr fire rated assembly.
      b. Solids by Weight: 56.0 percent.
      c. Solids by Volume: 45.0 percent.
      d. Weight Per Gallon: 10.5 lbs.
      e. Wet Film Thickness: 8.0 mils.
      f. Dry Film Thickness: 4.0 mils.

g. Manufacturers: Benjamin Moore, Flame Control, PPG
h. Location: Structural Steel Frame to receive fire rated coatings

C. Colors: Provide paint colors either shown on contract drawings or to be selected by the Director from finish paint manufacturers available color selections.
1. Approved finish paint manufacturers to match designated colors of other manufacturers where colors have been shown on the contract documents.
2. Safety Colors: Industry Standard ANSI Safety Colors.
3. Paint Color Schedule:
a. PT-1 To match Sherwin Williams Ice Cube SW 6252
b. PT-2 To match Sherwin Williams Dorian Gray SW 7017
c. PT-3 To match existing adjacent facility doors and frames
4. Safety Colors: Industry Standard ANSI Safety Colors.

2.04 SOURCE QUALITY CONTROL

A. Testing of Paint Materials: Director's Representative reserves the right to invoke the following procedure.
1. Director's Representative will engage the services of a qualified testing agency to sample paint materials. Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
2. Testing agency will perform tests for compliance with product requirements.
3. Director's Representative may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine surfaces to be prepared, primed, or painted for compliance with contract documents, required environmental conditions, manufacturer's product data sheets, product label instructions and other written requirements.
1. Do not begin any phase of the work without first checking and verifying that surfaces and environmental conditions are acceptable for such work and that any earlier phase deficiencies and discrepancies have been properly corrected.
2. The Contractor shall be responsible for the condition of the substrate or for correcting defects and deficiencies in the substrate which may adversely affect the painting work.
3. No painting work shall commence until all such adverse conditions and defects have been corrected. Commencement of work shall indicate acceptance of existing and/or field conditions.

3.02 PREPARATION

A. Protection: Cover and protect both surfaces to be painted and adjacent surfaces not to be painted from existing paint removals, airborne sanding particles, cleaning fluids and paint spills using suitable drop cloths, barriers and other protective devices.
   1. Adjacent exterior surface protections include roofs, walls, landscaping, driveways and walkways. Interior protections include floors, walls, furniture, furnishings and electronic equipment.
   2. Remove and replace removable hardware, lighting fixtures, telephone equipment, other devices and cover plates over concealed openings in substrates to be painted.
      a. Cover and neatly mask permanently installed hardware, lighting fixtures, cover plates and other devices which cannot be removed and are not scheduled for painting.
   3. Schedule and coordinate surface preparations so as not to interfere with work of other trades or allow airborne sanding dust particle to fall on freshly painted surfaces.
   4. Provide adequate natural or mechanical ventilation to allow surfaces to be prepared and painted in accordance with product manufacturer's instructions and applicable regulations.
   5. Provide and maintain "Wet Paint" signs, temporary barriers and other protective devices necessary to protect prepared and freshly painted surfaces from damages until Work has been accepted.

B. Clean and prepare surfaces to be painted in accordance with specifications, paint manufacturer's approved product data sheets and printed label instructions. In the event of conflicting instructions or directions, the more stringent requirements shall apply.
   1. Cleaners: Use only approved products manufactured or recommended by finish paint manufacturer. Unless otherwise recommended by cleaner manufacturer, thoroughly rinse with clean water to remove surface contaminants and cleaner residue

C. Surfaces:
   1. Concrete:
      a. Allow three months for poured concrete to dry before painting.
      b. Remove form release agents, laitance, efflorescence, dirt, grease, oils, slurry, chalk deposits, and other surface contaminants using a high-pressure power wash. Usemildewcide solution if mildew is present.
      c. Remove any remaining efflorescence by dampening surface with water and scrubbing with a 5 percent solution of muriatic acid. Rinse with clean water, neutralize with ammonia, rinse and allow to dry.
      d. Vacuum surface clean before painting.
      e. Sandblast to remove any existing deteriorated paint films, curing compounds, concrete sealers, and other substances that may prevent primer adhesion.
      f. Chip and grind surface projections smooth to adjacent surfaces.

g. Open concealed voids and cracks, remove cement slurry by wire-brushing to expose clean aggregate substrate, and chip out surface honeycomb pockets to allow a neat cementitious patch with square corners and a uniform thickness.

h. Inspect surfaces to be painted for exposed or rusted steel reinforcement and contact Director's Representative for a survey of damages to be repaired before substrate can be painted. Do not paint over exposed steel reinforcement without first repairing both deteriorated reinforcement and protective coating.

i. Use an electronic meter to determine moisture content compliance with finish paint manufacturer's recommendations.

2. Concrete Masonry Units:
   a. Allow two months for mortar joints to dry before painting.
   b. Remove severe laitance, efflorescence, dirt, grease, slurry, chalk deposits and other surface contaminants using a low-pressure power wash. Use mildewcide solution if mildew is present.
   c. Remove less severe surface contaminants and contaminant residues by dampening surface with water and scrubbing with a 10 percent solution of muriatic acid.
3. Galvanized Metal:
   a. Allow new galvanized surfaces to weather as long as possible before cleaning. Remove surface contaminants using clean rags and petroleum spirits.
   b. Remove "white rust" using appropriate solvent and, if necessary, wire brushing or sanding.
   c. Use appropriate Structural Steel Painting Council Standard SSPC-SP1 to SSPC-SP6 to clean steel substrates where galvanized protection has been removed.
4. Steel Doors and Frames: Fill indentations and cracks with metal filler; sand smooth to match adjacent undamaged surfaces.
5. Steel Frame: Surfaces to be painted must be clean, dry and free of oil, grease, dust, rust, mill scale, loose paint, chalk and other contaminants that could interfere with adhesion or compromise integrity of the fire rated assembly..
   a. Remove loose rust and mill scale with a grinder, scraper, wire brush or sandpaper. Remove oil and grease as necessary using an oil and grease emulsifying cleaner. Prime bare spots with metal primer
6. Access doors, prime coated butts and other prime painted hardware, registers, radiators and covers, exposed piping and electrical panels shall be painted to match adjacent surfaces, unless otherwise noted or where pre-finished
7. Plaster, Cement Plaster, and Gypsum Wallboard:
   a. Fill cracks, holes, and other indentations smooth to adjacent surfaces using specified bedding, spackling, and finishing compounds.
   b. Plaster: Scrape and sand smooth ridges, spills, nibs, and other surface projections.
   c. Cement Plaster: Coat surfaces to be patched with a bonding agent. Patch cement plaster with an approved mortar patching mix and finish to match adjacent surface and texture.

d. Gypsum Wallboard: Fill and sand smooth minor bedding and finishing compound defects.
e. Vacuum and wipe surfaces free of all sanding residue and dust.

8. Glazing Repairs: Cut out and replace dry, loose, and cracked glazing compound or putty.
9. Other Substrates: See finish paint manufacturer's recommendations.

D. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
1. Concrete: 12 percent.
2. Masonry (Clay and CMUs): 12 percent.
3. Gypsum Board: 12 percent.

E. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
1. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
2. Doors shall be removed before painting to paint bottom and top edges and then re-hung
3. Carefully clean and replace all such items upon completion of painting work in each area. Do not use solvent or reactive cleaning agents on items that will mar or remove finishes.
4. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.

F. Protect all adjacent interior surfaces and areas, including rating and instruction labels on doors, frames, equipment, piping, etc., from painting operations and damage with drop cloths, shields, masking, templates, or other suitable protective means and make good any damage caused by failure to provide such protection.

G. Clean, patch, repair and/or reconstruct existing surfaces to receive new primer and paint as required to provide a smooth and flush surface ready to receive paint. Provide new materials compatible with existing substrates and compatible with finish paint and/or other coating systems.
1. Provide a seamless transition across existing and reconstructed surfaces.
2. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
3. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

H. Painting Material Preparations:
1. Prepare painting materials in accordance with manufacturer's approved product data sheets and printed label instructions.
a. Stir materials before and during application for a consistent mixture of density. Remove container surface paint films before stirring and mixing.

b. Slightly tint first opaque finish coat where primer and finish coats are the same color.
c. Do not thin paints unless allowed and directed to do so in writing within limits stated on approved product data sheets.

3.03 APPLICATION

A. Apply paints according to manufacturer's written instructions.
1. Use applicators and techniques suited for paint and substrate indicated.
2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
6. Do not apply finishes on surfaces that are not sufficiently dry. Unless manufacturer’s directions state otherwise, each coat shall be sufficiently dry and hard before a following coat is applied.
7. Paint finish shall continue through behind all wall-mounted items, including but not limited to chalk and tack boards, signage, directories and similar wall mounted devices and/or equipment.

B. Environmental Conditions:
1. Water-based Paints: Apply when surface temperatures will be 50 degrees Fahrenheit to 90 degrees Fahrenheit throughout the drying period.
2. Other Paints: Apply when surface temperatures will be 45 degrees Fahrenheit to 95 degrees Fahrenheit throughout the drying period.
3. Apply exterior paints during daylight hours free from rain, snow, fog and mist when ambient air conditions are more than 5 degrees above the surface dewpoint temperature and relative humidity less than 85 percent.
4. Exterior Cold Weather Protection: Provide heated enclosures necessary to maintain specified temperature and relative humidity conditions during paint application and drying periods.

C. Install approved paints where specified, or shown on the drawings, and to match approved field examples.
1. Paint Applicators: Brushes, rollers or spray equipment recommended by the paint manufacturer and appropriate for the location and surface area to be painted.
a. Approved minimum wet and dry film thicknesses shall be the same for different application methods and substrates

D. Paint Type Coats To Be Applied: Unless specified otherwise by finish paint manufacturer’s product data sheet, the number of coats to be applied for each paint type are as follows:
1. Paint Types IAL:

a. New Unpainted Surfaces: Apply 1 coat of primer and 2 coats of finish paint.
b. Existing Painted Surfaces:
1) Apply 2 coats of finish paint when existing paint has a lower gloss.
2) Apply one coat of primer and 2 finish coats when existing paint has a higher gloss.
c. Paint Types IAL: Provide mildewcide additive for bathrooms, kitchens, janitor closets, laundry rooms, restrooms and other wet or damp areas.
d. Pitted Concrete & Concrete Masonry Surfaces: Use block filler as primer /sealer where allowed by finish paint manufacturer.
e. Existing Structural Steel:
1) Primed Steel: Apply 2 coats of finish paint.
2) Unprimed Steel: Apply 1 coat of Paint Type ESP or ISP, depending upon exterior or interior location.
a) If topcoated, apply additional coat of finish paint manufacturer's galvanized primer and 2 coats of finish paint.

2. Paint Type FRL: Apply 1 coat of primer if needed and number of finish coats required to meet specified fire rating in accordance with paint manufacturers product data sheet and printed label instructions

E. Surfaces: Unless otherwise specified or shown on the drawings, paint surfaces as follows:
1. Interior Surfaces:
a. Ceilings: Paint Type IAL-2 except as noted below:
1) Toilets, Kitchens, Shower Rooms, Janitor Closets and Other Wet Areas: Paint Type IAL-3.
b. Walls: Paint Type IAL-2 except as noted below:
1) Living Units: Paint Type IAL-3
2) Living Rooms with resinous flooring system: HPGC-1 as per Section 099659 - High Build Glazed Coatings.
2) Toilets and Kitchens: Paint Type IAL-3.
3) Shower Rooms, Janitor Closets and Other Wet Areas Paint Type IAL-4
c. Doors, Windows, Frames and Trim: Paint Type IAL-3 except as noted below:
1. Use Paint Type IAL-4 where walls are Paint Type IAL-3
2. Use Paint Type IAL-4 where walls are HBGC-1
3. Unless otherwise noted, paint unremovable and exposed wall and ceiling air supply and return grilles; plumbing pipes; electrical panel and fuse boxes, raceways and conduits; heating convector cabinets, radiators, radiator cabinets, unit heaters, and similar existing and installed devices and equipment by other trades.
a. Paint to match adjacent wall or ceiling surfaces.
b. Paint exposed surfaces when any part of the surface is on or within 8 inches of ceiling or wall surface to be painted.
c. Paint visible interior surfaces behind grilles, guards and screens.
4. Doors and Frames: Unless otherwise noted, paint doors and frames the same color in the next highest gloss as adjacent wall surfaces.

a. Where walls are not the same color on both sides of a door frame, change color at the inside corner of the frame stop.
b. Prime and finish paint door faces and edges before installation.
1) Paint door edges the same paint type color as the exterior side of the door.
c. Do not paint door components which are clearly not intended to be painted such as non-ferrous hardware, frame mutes, and weather stripping.
d. Do not allow doors and frames to touch until paint is thoroughly dry on both surfaces.

5. Window Frames and Sash: Unless otherwise noted, paint window frames and sash the same color as adjacent wall surfaces.
a. Where interior walls are not the same color on both sides, change paint color along the inside concealed corner of door frame stops.
b. Do not paint window components which are clearly not intended to be painted such as prefinished frames, sliding metal or plastic contacts, weatherstripping, and non-ferrous hardware.
c. Do not allow operable doors, windows and frames to touch until paint is thoroughly dry on both surfaces.

6. Ferrous Metal Door and Window Hardware: Unless otherwise noted, prime and paint to match adjacent doors, windows and frames.

F. Painting Fire-Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work.
1. Unless otherwise specified or noted, paint all “unfinished” conduits, piping, hangers, ductwork and other mechanical and electrical equipment with color and texture to match adjacent surfaces, in the following areas.
a. Where exposed-to-view in all interior spaces.
b. In all interior high humidity interior areas.
c. In all boiler room, mechanical and electrical rooms.

2. Fire Protection Systems: Do not paint Fire Protection System conduit, device boxes and similar equipment. Carefully mask and protect during painting as required to prevent splashes, drips, over-painting, over spraying and/or other discoloration of code-required finishes.

3. Do not paint over nameplates and/or similar identification markings.
4. In unfinished areas leave exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment in original finish and touch up scratches and marks.
5. Touch up scratches and marks on factory painted finishes and equipment with paint as supplied by manufacturer of equipment.
6. Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces.
7. Paint the following work where exposed in equipment rooms, unless otherwise indicated specified:
a. Equipment, including panelboards.
b. Uninsulated metal piping.
c. Uninsulated plastic piping.
d. Pipe hangers and supports.
e. Metal conduit.

f. Plastic conduit.
g. Tanks that do not have factory-applied final finishes.
h. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.

8. Paint the following work where exposed in occupied spaces unless otherwise specified:
   a. Equipment, including panelboards.
   b. Uninsulated metal piping.
   c. Uninsulated plastic piping.
   d. Pipe hangers and supports.
   e. Metal conduit.
   f. Plastic conduit.
   g. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.
   h. Other items as directed by the Director's Representative.

3.04 FIELD QUALITY CONTROL

A. Paint Samples: Assist the Director's Representative in obtaining random one quart paint samples for testing at any time during the Work.
   1. Notify the Director's Representative upon delivery of paints to the Site.
   2. Furnish new one quart metal paint containers with tight fitting lids and suitable labels for marking.
      a. Furnish labor to thoroughly mix paint before sampling and provide assistance with sampling when required.

3.05 ADJUSTING AND CLEANING

A. Reinstall removed items after painting has been completed.
   1. Restore damaged items to a condition equal to or better than when removed. Replace damaged items that cannot be restored.

B. Touch up and restore damaged finish paints. Touch up and restoration paint coats are in addition to the number of specified finish paint coats.

C. Remove spilled, splashed, or spattered paint without marring, staining or damaging the surface. Restore damaged surfaces to the satisfaction of the Director's representative.

D. Remove temporary barriers, masking tape, and other protective coverings upon completion of painting, cleaning and restoration work.

END OF SECTION

SECTION 099659

HIGH BUILD GLAZED COATINGS

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Concrete Unit Masonry: Section 042000 or 042200.

B. Painting: Section 099101.

1.02 PERFORMANCE REQUIREMENTS

A. High Build Glazed Coatings shall meet or exceed the performance requirements of Federal Specification TT-C-550-C.

1.03 SUBMITTALS

A. Product Data: Catalog sheets, performance charts, specifications, and application instructions for each material specified except miscellaneous materials. Include a statement as to the percentage of solids by volume. In addition to actual material data, submit coating manufacturer's printed directions and recommendations for environmental conditions, surface preparation, priming, mixing, application, spreading rate, total dry mil thicknesses, and storage.

B. Samples: Each coating system and color required, on 12 inch square hardboard unless otherwise indicated. Label each sample as to type of system and identify primer, filler, or sealer and finish coats. Leave a narrow strip of each previous coat exposed to view.
   1. On specified concrete masonry, 4 inch square samples of each coating system and color required on masonry.

C. Quality Control Submittals:
   1. Test Reports:
      a. If requested by the Director, furnish certified test data issued by an independent testing laboratory, demonstrating that the products submitted comply with the required performance requirements.
   2. Applicators Qualifications Data:
      a. Name of each person who will be performing the Work.
      b. Employer's name, business address, and telephone number.
      c. Names and addresses of the required number of similar projects that each person has worked on which meet the experience criteria.
   3. Certificates: Affidavit required under Quality Assurance Article.

1.04 QUALITY ASSURANCE

A. Qualifications For Products Other Than Those Specified:
   1. At the time of submission provide written notice to the Director of the intent to propose an “or equal” for products other than those specified. Make the “or equal” submission in a timely manner to allow the Director sufficient time to review the proposed product, perform inspections and witness test demonstrations.
   2. If products other than those specified are proposed for use furnish the name, address, and telephone numbers of at least 5 comparable installations that can prove the proposed products have performed satisfactorily for 3 years. Certify in writing that the owners of the 5 comparable installations will allow inspection of their installation by the Director's Representative and the Company Field Advisor.
      a. Make arrangements with the owners of 2 installations (selected by the Director) for inspection of the installations by the Director's Representative. Also obtain the services of the Company Field Advisor for the proposed products to be present. Notify the Director a minimum of 3 weeks prior to the availability of the installations for the inspection, and provide at least one alternative date for each inspection.
      b. Only references from the actual owner or owner’s representative (Security Supervisor, Maintenance Supervisor, etc.) will be accepted. References from dealers, system installers or others, who are not the actual owners of the proposed products, are not acceptable.
         1) Verify the accuracy of all references submitted prior to submission and certify in writing that the accuracy of the information has been confirmed.
   3. The product manufacturer shall have test facilities available that can demonstrate that the proposed products meet the contract requirements.
      a. Make arrangements with the test facility for the Director's Representative to witness test demonstrations. Also obtain the services of the Company Field Advisor for the proposed product to be present at the test facility. Notify the Director a minimum of 3 weeks prior to the availability of the test facility, and provide at least one alternative date for the testing.
   4. Provide written certification from the manufacturer that the proposed products are compatible for use with all other equipment proposed for use for this system and meet all contract requirements.

B. Manufacturer’s Qualifications: The coating manufacturer shall have the technical expertise and qualified technical representatives to advise the Contractor of application procedures required for the coating materials under the particular job conditions.

C. Applicators Qualifications: The persons applying the coating system and their Supervisor shall be personally experienced in high build glazed coating application work and shall have been regularly employed by a Company applying coating systems for a minimum of 5 years.

1. Furnish to the Director the names and addresses of 5 similar projects which these people have worked on during the past 3 years.

D. Certification: Affidavit by the Company Field Advisor, certifying that the materials comply with New York State Department of Environmental Conservation, Part 205, Architectural Surface Coatings for Volatile Organic Compound (VOC).

E. Compatibility of Materials: For each coating system specified, furnish associated materials made by or recommended by the coating manufacturer.

F. Field Examples:
1. Prior to performing the Work of this Section, and on actual surfaces designated by the Director's Representative, apply a sample application of the required coating system. Apply coating system on at least 200 sq ft of surfaces. Do not proceed further until the sample coating application has been approved by the Director's Representative. Approved sample will be used as quality standard for the Work.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to the site in original, unopened containers bearing manufacturer's label. Do not deliver materials which have exceeded shelf life limitation set forth by the manufacturer.

B. Storage and Handling: Store materials in a dry well-ventilated place protected from the weather.
1. Store volatile liquids at temperatures recommended by the manufacturer.

1.06 PROJECT CONDITIONS

A. Environmental Requirements:
1. Comply with manufacturer's printed recommendations as to the environmental conditions under which the coating systems can be applied.
2. Do not apply material in areas where dust is being generated or will be generated while the material is drying.

B. Coordinate coating work with other trades to ensure adequate illumination, ventilation, and a dust free environment during application and curing of coatings.

1.07 MAINTENANCE

A. Extra Materials: Furnish one extra gallon of each type and color of coating material specified. Label each container with manufacturer's name, product number, color number and location where used.

PART 2 PRODUCTS

2.01 MATERIALS

A. Primers, Sealers, and Undercoats: Products recommended by the coating manufacturer for the substrate unless otherwise specified.
   1. Masonry Filler: Solvent base:
      a. Tnemec Series 1254 EpoxoBlock
      b. Stonhard Stonset PM5.
      c. Or a comparable product by one, but not limited to, the following manufacturers:
         1) Dudick Inc.
         2) BASF Corporation/Degadur
      d. Solids by Volume: 100% solids

B. High Build Glazed Coating Systems:
   1. HBGC-1 Coating System: High performance, high solids pigmented wall coating system:
      a. Tnemec Series Series 201 Epoxoprime primer coat with Tnemec Series 280 Tneme-Glaze intermediate coat and Tnemec Series 297 Enviro-Glaze top coat.
      b. Stonhard Stonglaze VSR wall system and Stonglaze VSE top coat.
         1) Stonhard VSR system is two coats of Stonhard Stonglaze E4.
         2) Primer for Gypsum Board: Stonhard Primer 180
         3) Primer for Concrete Masonry Units: Additional coat of Stonglaze E4
      c. Or a comparable product by one, but not limited to, the following manufacturers:
         1) Dudick Inc.
         2) BASF Corporation/Degadur
      d. Solids by Volume: 55-59% percent minimum.
      e. Finish: Flat/Semi-Gloss.

C. Miscellaneous Materials:
   1. Spackling: FS SS-P-00450.
   2. Polyester Filler: Polyester resin base autobody filler, standard weight or finishing grade as required by conditions, such as Marson's "White Lightnin" and "Topcoat".
   3. Cold Galvanizing Compound: Single component compound giving 93 percent pure zinc in the dried film, and meeting the requirements of DOD-P-2103A (NAVY).
   4. Cleaning Solvents: Low toxicity, and a flash point in excess of 100 degrees F.
   5. Masking Tape: Removable paper or fiber tape, self-adhesive, non-staining.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine surfaces for conditions that will adversely affect execution, performance or quality of the Work of this Section. Do not proceed with the coating systems until conditions are suitable.

B. Commencement of work shall indicate acceptance of existing and field conditions.

3.02 PREPARATION

A. Protection:
   1. Prior to surface preparation and coating application, cover or otherwise protect finished Work of other trades and surfaces not being coated or not to be coated.
   2. Apply masking tape or other approved surface protection on all in-place hardware, plates, lighting fixtures, and similar items which are not to receive coating, or else remove such items from the surfaces to be finished. Remove such items where required to properly complete the finishing of the adjacent surfaces.
   3. Provide "Wet Paint" signs as required to protect newly coated surfaces.

B. Surface Preparation:
   1. Perform preparation and cleaning procedures in accordance with the coating manufacturer's instructions and as specified.
      a. Previously Painted Surfaces: Remove loose, peeling, powdering, cracking, and otherwise defective existing paint or coating material. Clean and spackle affected areas to a smooth surface, flush with and feathered to an even plane with the existing finished surface. Clean, spackle and sand cracks that are in the existing paint or coating material only.
      b. Clean surfaces to be coated. Remove oil and grease with clean cloths and cleaning solvents prior to the cleaning procedures. Program the cleaning and coating so that dust and other contaminants from the cleaning process will not fall in wet, newly coated surfaces.
   2. Concrete and Concrete Masonry Units: Prepare cementitious surfaces to be coated by removing efflorescence, chalk, dust, grease and oils. Surfaces must be dry and fully cured.
   3. Plaster: Scrape and sand plaster nibs smooth. Spackle, smooth, and seal cracks and other defects to provide an even, smooth surface. Do not apply coating system until the moisture content is less than 8 percent as determined with an electronic moisture meter. Furnish moisture meter and make it available for use by the Director's Representative upon request.

a. Cement Plaster: Coat surfaces to be patched with an approved bonding agent. Patch with an approved mortar patching mix and finish to match texture of adjacent surfaces.

4. Gypsum Board: Fill cracks and other indentations or voids with spackling or patching compound and sand smooth.
5. Ferrous Metals:
   a. Remove dirt and grease with cleaning solvents which will not affect shop prime coat. Wipe off with clean cloths.
   b. Remove rust, mill scale and defective paint or coating down to bare metal, using scraper, sandpaper, or wire brush. Grind if necessary to remove shoulders at edge of sound paint to prevent flaws from photographing through finish coats.
   c. Structural Steel, Metal Stairs, Castellated Steel Beams, Steel Joists and Steel Decks: Clean and touch-up bare spots immediately following erection. Touch-up shall include marred surfaces of the shop coat, field bolts and field welds. Also apply touch-up coat over erection identification marks. Use type of primer specified for the coating system.
6. Galvanized Metal: Remove dust and oil with mineral spirits and wipe dry with clean cloth. Repair welded and abraded surfaces with a 2 mil (dry) minimum thick coating of cold galvanizing compound; comply with manufacturer's application instructions.
   a. Repair steel decks and cold-formed metal framing immediately following installation.
7. Steel Doors and Frames: Fill small dents, pits, and other minor imperfections flush and smooth with polyester filler. Apply and finish filler in accordance with manufacturer's instructions.

C. Materials Preparation:
   1. Mix and prepare coating materials in strict accordance with the manufacturer's directions. Do not exceed manufacturer's recommended pot life.
   2. Thinning: Use only thinners recommended by the coating manufacturer and use only within the recommended or specified limits.

3.03 APPLICATION

A. Apply primers, sealers, fillers, undercoats, and finish coats at manufacturer's recommended film thickness by brush, roller, or spray applications, whichever is recommended by the coating manufacturer.

B. Concrete Masonry Units: Apply masonry filler at the coverage rate recommended by the manufacturer for the coating system specified. When dry, sand the surface to a smooth finish. Remove dust before applying coating system. Provide a finished coating system free of pinholes.

C. Apply finish coats in even coats of uniform thickness and color without brush marks, roller marks, sags, dry spray, overspray, holidays or lap marks.

D. Allow each coat to dry thoroughly before recoating. Comply with manufacturer's recommended recoating instructions.

E. Extend coating on walls from top of base to the ceiling line except as otherwise indicated or specified.
   1. Extend coating on walls from floor to the ceiling line where resilient base is scheduled.

3.04 ADJUSTING AND CLEANING

A. Remove masking tape and other protective coverings.

B. Touch up and restore finish where damaged.

C. Remove spilled, splashed, or spattered coating from surfaces. Do not mar surface finish of item being cleaned.

D. After the final coat has dried, reinstall the items which were removed. If damaged or defaced during the performance of the Work, restore such items to a condition equal to or better than they were at the time of removal, or provide new matching items.

3.05 COATING SCHEDULE

A. HBGC-1 Coating System:
   1. Tnemec Series 1254, 201, 280 and 297.
      a. Concrete Masonry Units:
         1) Series 1254: 16.0 to 21 dry mils per coat
         2) Series 201: 4.0 to 6.0 dry mils per coat
         3) Series 280: 4.0 to 8.0 dry mils per coat
         4) Series 297: 2.0 to 3.0 dry mils per coat
         5) Total dry mils: 26 to 32
      b. Gypsum Board Units:
         1) Series 201: 4.0 to 6.0 dry mils per coat
         2) Series 280: 4.0 to 8.0 dry mils per coat
         3) Series 297: 2.0 to 3.0 dry mils per coat
         4) Total dry mils: 10 to 17
   2. Stonehard Stonset PM5, Stonglaze VSR, Stonglaze VSE, Primer 180, Stonglaze E4
      a. Concrete Masonry Units:
         1) Stonset PM5: 16 to 30 dry mils per coat
         2) Stonglaze E4: 5.0 to 7.0 dry mils per coat.
         3) Stonglaze VSR: 10.0 to 12 dry mils for two E4 coats
         4) Stonglaze VSE: 4.0 to 6.0 dry mils for two coats
         5) Total dry mils: 35 to 55
      b. Gypsum Board Units:
         1) Primer 180: 4.0 to 6.0 dry mils per coat
         2) Stonglaze VSR: 10.0 to 12 dry mils for two E4 coats
         3) Stonglaze VSE: 4.0 to 6.0 dry mils for two coats
         4) Total dry mils: 18 to 24

3. Other comparable Manufacturers: Provide comparable total dry mil thicknesses to the listed manufacturers for each system.

B. Surfaces not to be coated unless specifically indicated otherwise:
   1. Factory pre-finished items.
   2. Concealed ducts, pipes and conduit.

END OF SECTION

SECTION 111901

DETENTION EQUIPMENT

PART 1 GENERAL

1.01 PRODUCTS PROVIDED BY OTHERS

A. Power Wiring to Control Consoles: Electrical Work Contract.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Finish Hardware: Section 087100.

B. Security Glazing: Section 088853.

C. Construction Painting: Section 099101.

1.03 REFERENCES

A. Welding Standards: Structural Welding Code - Steel, AWS D1.1 or Structural Welding Code - Sheet Steel, AWS D1.3, as applicable, by the American Welding Society (AWS Codes).

B. Materials and Finishes Standard: ANSI/BHMA A156.18, American National Standard for Materials and Finishes.

C. ASTM-American Society for Testing Materials:
1. ASTM A1008/A1008M Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low Alloy with Improved Formability, Solution Hardened, and Bake Hardenable.
2. ASTM A1011A/A1011M Standard Specification for Steel, Sheet and Strip, Carbon, Hot Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low Alloy with Improved Formability, and Ultra-High Strength.
3. ASTM A653/653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot Dip Process.
4. ASTM C-1107 – Standard Specification for Non-shrink Grouts.

1.04 DEFINITIONS

A. Company Field Advisor: An employee of a Company that manufactures mechanical and/or electric detention equipment and systems, and/or detention hardware and accessories, who is certified in writing by the Company to be technically qualified in design, installation, operation, and servicing of the required products. Personnel involved solely in sales do not qualify.

B. Mockup (General): Full-size physical assembly that is constructed on-site, in a fabrication shop, or in a testing facility. Mockups are constructed to verify

assembly of approved materials and products; to demonstrate aesthetics, function, workmanship, materials, and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with manufacturer's printed instructions and applicable specifications.

1. Mockups are not samples and they are not part of the finished work.
2. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.
3. Maintain mockups in approved form and condition until directed to be removed by the Director's Representative.

C. Benchmark: The first of a type or portion of work or assembly constructed on-site to allow inspection and review for compliance with the Contract requirements. Benchmarks are constructed to verify qualities of materials and execution; to review coordination between various components of a system, and to demonstrate compliance with specified installation tolerances. Benchmarks are not samples. Unless otherwise indicated, approved benchmarks establish the standard by which the Work will be judged. Approved benchmarks may be incorporated into the Work of this Section.

1.05 SUBMITTALS

A. Waiver of Submittals: The Waiver of Certain Submittal Requirements in Section 013300 does not apply to this Section.

B. Submittal Packages: Submit the entire Quality Assurance Package prior to other submittal packages. After Quality Assurance Package is approved, submit the Detention Equipment Package, Detention Hardware Package, and the Power and Control Wiring Package specified below at the same time.

C. Re-Evaluation Fee: In accordance with Article 4.7 of the General Conditions, a re-evaluation processing fee will be levied against the Contractor for each re-evaluation of any Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content or format. There will be a fee of $250 levied against the Contractor for each re-evaluation of any Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content, or format.

D. Quality Assurance Package:

1. Equipment Manufacturer'(s) Qualifications:
   a. Name, business address, and telephone numbers of each Equipment Manufacturer.
   b. Brief description of 5 similar projects where manufacturer's detention equipment and hardware have been in operation for a minimum of 3 years. Include names, addresses, and telephone numbers of facility contacts.
2. Equipment Installation Company Qualifications:
   a. Name, business address, and telephone numbers of the Installation Company.
   b. Include a comprehensive history of the Installation Company.

c. Names, addresses and telephone numbers of facility contacts of 5 similar projects company has completed in past 5 years.
d. Current written certification from the detention equipment Manufacturer that the Company installing the Work has successfully completed factory training and is qualified as a Detention Equipment Contractor.

3. Equipment Installer's Qualifications:
   a. Name of the employee of the Installation Company that will provide full time on-site supervision of the installation and completion of the Work of this Section.
   b. Names, addresses and telephone numbers of facility contacts of 5 similar projects this person has supervised in the past 5 years.
   c. Current written certification from the detention equipment Manufacturer(s) that the proposed Installer has successfully completed training and is qualified in the installation of the specified detention products.
4. Power and Control Wiring Installation Company Qualification:
   a. Name, address, and telephone numbers of the Installation Company.
   b. Provide a comprehensive history of the Installation Company.
   c. Names, addresses and facility contacts of 5 similar projects the Company has completed in the past 5 years.
5. Power and Control Wiring Installer's Qualifications:
   a. Name of person providing full time on-site supervision of the installation and completion of that portion of the Work of this Section.
   b. Names, addresses and telephone numbers of facility contacts of 5 similar projects this person has supervised in the past 5 years.
6. Company Field Advisor's Qualifications:
   a. Name, business address and telephone numbers of each proposed Company Field Advisor.
   b. Written certification from detention equipment and detention hardware manufacturers that the proposed Advisor is technically qualified in design, installation, and servicing of products.

E. Detention Equipment Package: Include Shop Drawings and Product Data for all components. Show relationship of detention equipment with other Work.
1. Complete detailed drawings for each style of door/gate/ required. Include separate schedule for each. List materials required, and technical data including size, and finish to ensure conformance to specifications. Include details of all major components and show accessories. Show connections, anchors, and fasteners. Include parts list showing manufacturers' names and part numbers for the complete installation.
   a. Include details of lock mountings.
   b. Indicate shop and field welds by standard AWS welding symbols.
   c. For doors/gates to be installed in existing openings, field measure existing gate openings and other conditions, and indicate existing information on Shop Drawings.
2. Complete detailed drawings for each console/panel required. Indicate technical data, including size and finishes, to ensure conformance to

specifications. Show relationship of all required components with respect to the console housing. Include parts list showing manufacturers' names and part numbers for the complete installation. Include date(s) and name(s) of person(s) performing field verifications.

a. Drawings shall be dimensioned showing location of each item (switch, LED, nameplate, etc.) mounted to the control console/panel top (faceplate) and cut-out locations.

b. Include scale drawing showing location of all components which are to be located within in the control console/panel.

3. Product Data: Current catalog sheets, specifications, and installation instructions for equipment and accessories. Identify each item and component.

F. Detention Hardware Package:

1. Hardware Schedule: Use a vertical schedule layout. Horizontal hardware schedules are not acceptable.

a. Preface the Schedule with the following: Door index, list of manufacturers, list of finishes, list and explanation of abbreviations.

b. Include a Key Schedule with keying instructions.

c. For each opening include the following: Door and frame types, material and dimensions, location, handing, fire rating; and detention hardware required to complete the Work of this Section.

d. Create detention hardware groups, each group consisting of similar detention doors/gates and detention hardware. Do not combine labeled and non-labeled openings. Arrange by Buildings if required. Under each group heading, list hardware items in detail required for ordering. For each item include:

1) Quantity.
2) Type.
3) Manufacturer's name.
4) Size and/or catalog number.
5) Accessories and/or options.
6) Finish.
7) Fasteners.

e. Product quantities will not be checked for accuracy.

2. Product Data: Manufacturer's Catalog sheets, specifications, templates, and installation instructions for each item of detention hardware required to complete Work of this Section.

G. Power and Control Wiring Package:

1. Shop Drawings: Include wiring diagrams which detail proposed installation of the complete system.

a. Standard diagrams will not be acceptable.

b. Show point-to-point connections to electrical components specified, including power and control wiring within the control console/panel.

c. Include in the diagrams connections between the components (locking devices, locks, position switches, etc.) and the control console/panel.

2. Product Data:
    a. Bill of Materials identifying each system device or component proposed to be used for this system as listed in PART 2 PRODUCTS of this Section.
        1) Identify each item by name and model number.
        2) Indicate the page number(s) in the Submittal Package where information required for that item can be found.
        3) Identify the appropriate Specification Section, Article number, paragraph, and subparagraph where that item is listed in the Project Manual.
    b. Current catalog sheets, specifications and installation instructions for each system device or component proposed for use as listed in PART 2 PRODUCTS of this Section and as listed in the Bill of Materials.
        1) Modify catalog sheets to clearly identify exact items submitted and indicate options/accessories to demonstrate contract compliance.
3. Detailed Sequence of Operations. Submit in a format similar to *Description of Completed System*.

H. Contract Closeout Submittals: Deliver indicated number of hard copies to the Director's Representative, unless otherwise indicated.)
1. Operation and Maintenance Data For Detention Equipment: Instructions for operation, maintenance recommendations, and parts manuals covering the installed Products.
2. Operation and Maintenance Data For Detention Hardware: Instructions, maintenance, and parts manuals covering the installed products to the Director's Representative.
3. Operation and Maintenance Data For Power and Control Wiring Products: Instructions, maintenance recommendations, and parts manuals covering each of the installed products.
    a. Furnish a comprehensive, complete point-to-point wiring diagram of the entire system as installed. Number all conductors, (numbers shall correspond to numbered tags installed on each conductor) and show all termination points.
4. Final Systems Testing Report and Certification of Proper Operation: Written certification from the detention equipment Manufacturer(s) that the detention equipment systems, the detention locks, and the accessories are installed correctly and operating properly. Certification to include name of person(s) performing the Inspection, date(s) performed, locations inspected, functions tested, and a confirmation that all required corrections or adjustments have been satisfactorily completed.
5. Spare components and maintenance kit.

1.06 TEMPLATES

A. After receipt of approved submittals, furnish current required templates to the affected trades to enable the fabricators to make proper provision for hardware without delaying job progress.

1.07 QUALITY ASSURANCE

A. Equipment Manufacturer's Qualifications: Each manufacturer of and detention equipment, detention hardware, and control consoles shall be regularly engaged in the production of such products, and have furnished such products for 5 similar projects that have been in operation for a minimum of 3 years. Equipment manufacturers are subject to the Director's approval.

B. Installation Company Qualifications: The Company installing the Work of this Section shall hold current written certification as an approved Detention Equipment Contractor from the approved Detention Equipment Manufacturer(s) and have been engaged in the assembly and installation of detention equipment for a minimum of 3 years.

C. Installer's Qualifications: The person installing and providing full time on-site supervision of the Work of this Section shall be personally experienced in detention equipment work and hold current written certification from the Detention Equipment Manufacturer(s) that they have successfully completed training and is qualified in the installation of the specified detention products, and shall have been engaged in the assembly and supervision of installation of detention equipment for a minimum of 3 years.

D. Power and Control Wiring Installation Company Qualifications: The Company installing the electrical Work of this Section shall be experienced in control wiring for detention work, and shall have been engaged in the installation of detention power and control wiring for a minimum of 3 years.

E. Power and Control Wiring Installer's Qualifications: The electrician(s) installing and providing full time on-site supervision of the power and control wiring for and in cabinets, detention devices, and equipment Work of this Section, including shop fabrication and field wiring, shall be experienced in detention wiring and have been engaged in wiring detention operating device systems, control panels, and emergency release cabinets for a minimum of 3 years.

F. Company Field Advisor(s): In addition to being present at the site for the Pre-Installation Conference (on-site or if approved, by tele-conference) and the Post Installation Inspection, secure the services of Company Field Advisors.
   1. Render technical assistance to the Installer regarding installation procedures of the detention equipment.
   2. Familiarize the Director's Representative with the aspects of proper installation and operation of the detention equipment.
   3. Witness final equipment/systems test and certify with an affidavit that the equipment/system is installed correctly and is operating properly. All Company Field Advisors are required to attend the Post Installation Inspection.
   4. Answer questions which might arise.

G. Pre-Installation Conference: Before the detention equipment is scheduled to be installed, the Director's Representative will call a conference at the site, for the purpose of reviewing the Contract Documents, shop drawings, approved submissions, and the requirements of the Work. The contractor, detention

equipment installer, power and control wiring installer, and the Company Field Advisor shall attend. Other participants may be invited at the discretion of the Director.

H. Galvanizing Stamp: Stamp or officially tag galvanized items with name of the galvanizer, weight of coating, and applicable ASTM number.

I. Uniformity of Detention Equipment Systems: Provide detention equipment systems specified in this Section from the same manufacture consistent with existing detention equipment and systems.
   1. Provide detention equipment manufactured by Southern Folger Detention Equipment Company, unless otherwise specified or approved. Continue existing Best key systems.

J. Fabrication Inspection:
   1. When hollow steel door fabrication is about to begin, coordinate through the Director's Representative to schedule a shop inspection at the manufacturer's facility with OGS Design representative/security expert to confirm fabrication in accordance with the Contract Documents and approved submittals. Fabricate the first two (2) doors and frames for inspection as follows:
      a. Door and frame completely fabricated ready to deliver to the job site.
      b. Door fabricated to just before the second face panel is welded in place to allow for inspection of the framing, reinforcements, welds, and other construction details.
   2. Should deviations from the Contract requirements be found, the Director's Representative reserves the right to inspect additional units to verify compliance. Schedule and perform additional inspections and appropriate corrective measures required at no additional cost to the State. After approval of the sample doors, fabricate the balance of the doors.

K. Control Cabinet, Control Console, and/or control Panel/Housing Inspections:
   1. Prior to delivery, schedule an inspection with security expert/Design representative coordinated through the Director's Representative for an inspection of control cabinet, control console, and/or control panel/housing assembly fabrications. The purpose of the inspection is to confirm fabrication in compliance with the Contract Documents and approved submittals regarding materials, methods, and workmanship. Upon inspection and approval, the control cabinet, control console, and/or control panel/housing assemblies may be delivered to the Site for installation.

L. Construction Verification: In order to confirm the products furnished comply with the specifications, the Director's Representative reserves as an option to choose one door and frame, of each type, at random for examination. The examination will involve cutting the door and frame to expose the internal construction for inspection of the framing, reinforcements, welds, and other construction details. These doors and frames are in addition to the doors and frames identified in the Contract Documents. Should deviations from the

Contract requirements be found, the Director's Representative reserves the right to inspect additional units to confirm compliance. The additional inspections and appropriate corrective measures shall be provided by the Contractor at no cost to the State.

1.08 DELIVERY

A. Coordinate delivery of anchors and other accessories to be built into other Work, to avoid delay. Furnish instructions and templates to the affected trades as required for accurate location.

B. The manufacturer of the prison lock keys shall provide advance notification as directed and ship all prison lock keys through the United States Postal Service, direct from manufacturer to the Facility, via Registered Mail, Restricted Delivery, Return Receipt Requested.

1.09 MAINTENANCE

A. Maintenance Materials:
   1. Hand Tool Maintenance Kit(s): Lockable steel tool box each containing one set of all hand tools and fasteners necessary to perform preventative maintenance and repairs of detention equipment, and locking system devices. This list includes but is not limited to the following:
      a. Box/open end wrenches from 1/4" thru 3/4".
      b. 3/8" drive socket set from 3/8" thru 3/4" (six point) with the 3" and 6" extensions.
      c. Pliers, flat blade screw driver, 10" crescent wrench and a Hex Key set that set that includes a size 5/32".
      d. Mechanics mirror.
      e. Flashlight with batteries.
      f. One complete Torx kit and driver.
      g. Acceptable Manufacturers: Craftsman or Snap-On with lifetime warranty.
      h. This is not a complete list of required tools, but it is a representation of the type needed for service and repair of the devices.
   2. Test box (es) that will monitor the systems used at this Facility for correct and proper functions.
   3. Required amounts of recommended lubricants for 3 years service.
   4. Extra Material: For every 20 units installed (or fraction thereof), furnish one detention accessory manufacturer's factory finish touch-up kit for the factory finish specified.
      a. Store touch-up kit at the site where directed.
      b. Label kit to identify unit and location.

PART 2 PRODUCTS

2.01 DETENTION EQUIPMENT COMPANIES

A. ABUS Lock Company, 23910 N. 19th Ave., Suite No. 56, Phoenix, AZ 85085, (800) 352-2287, https://www.abus.com/usa.

B. American Jail Products, LLC, 4 Van Buren St., Troy, NY 12180, (518) 271-6560, www.americanjailproducts.com.

C. Brookfield Industries, Inc., 99 W. Hillside Ave. Thomaston, CT 06787-1433, (860) 283-6211, www.bfimfg.com.

D. Maximum Security Products Corporation, 3 Schoolhouse Lane, Waterford, NY 12188, (518) 233-1800, www.maximumsecuritycorp.com.

E. Southern Folger Detention Equipment Company, 4634 South Presa St., San Antonio, TX 78223, (210) 533-1231, www.southernfolger.com.

F. United Prison Equipment, 6306 Fifth Street, Green Lane, PA 18054, (215)-234-4633, sales@unitedprison.com.

2.02 MATERIALS

A. Steel Plate: Open-hearth mild steel produced especially for detention use; ASTM A 36.

B. Steel Tubing: Hot-formed, welded or seamless, structural tubing; ASTM A 501.

C. Miscellaneous Steel Shapes and Bars: ASTM A 36, unless otherwise specified or indicated.

D. Cold-Finished Steel Bars: ASTM A 108, grade as selected by the fabricator.

E. Steel Sheet:
1. Hot-Rolled Steel Sheets and Strip: Commercial quality carbon steel pickled and oiled, complying with ASTM A 569 and ASTM A 568.
2. Cold-Rolled Steel Sheets: Commercial quality carbon steel, complying with ASTM A 366 and ASTM A 568.

F. Stainless Steel: Type 304; ASTM A 666 for plate, sheet and strip; ASTM A 276 for bars and shapes; US32D (630) for hardware, No. 3 finish for sheet and strip, unless otherwise specified or indicated.

G. Anchors:
1. Threaded-Type Concrete Inserts: Galvanized ferrous casting, internally threaded to receive 3/4 inch diameter machine bolt; either malleable iron or cast steel.
2. Slotted-Type Concrete Inserts: Galvanized 1/8 inch thick pressed steel plate complying with ASTM A 283; box-type welded construction with slot designed to receive 3/4 inch diameter square head bolt and with knockout cover.

H. Fasteners:
1. Bolts and Nuts: ASTM A 307-12, Grade A, ASTM A563-07a.
   a. Concealed Bolts: Standard common bolts with lock washers and nuts.

b. Exposed Bolts: Torx center pin security head bolts, unless otherwise specified.
c. Carriage Bolts:
1) Exposed bolts with lock washers and nuts for mounting of control console to countertop.
2) Plain Washers: Round, general assembly grade carbon steel.
3) Lock Washers: Helical spring type carbon steel.
d. Carbon Steel Fasteners: Zinc plated per ASTM B695 or ASTM F2329.
e. Stainless Steel Fasteners: Type 304, ASTM F593-13a.

2. Machine Screws: ANSI/ASME B18.6.3, ASTM F 835-13.
a. Concealed Machine Screws: Torx center pin security head screws, unless otherwise specified.
b. Exposed Machine Screws: Torx center pin security head screws, unless otherwise noted.
c. Alloy Steel Screws: Zinc plated per ASTM B695 or ASTM F2329.
d. Stainless Steel Screws: Type 304, ASTM F879-12.

I. Paint:
1. Cold Galvanizing Compound: Single component, non-aerosol, compound giving 93 percent pure zinc in dried film, and meeting requirements of DOD-P-21035A (NAVY).
2. Ferrous and Galvanized Shop Primer: Zinc rich primer as manufactured by or recommended by the finish paint manufacturer. Coordinate submittals with Section 099101 1.04 C certification requirements.
3. Shop Paint for Inside of Control Cabinets: Manufacturer's standard gray enamel.

2.03 DETENTION HARDWARE

A. Manufacturers:
1. Hinges: Brookfield, Southern Folger Detention Equipment Company, Maximum Security Products, and Stanley.
2. Locking Systems and Detention Hardware: Southern Folger Detention Equipment Company. Detention Hardware also R.R. Brink
3. Flush Pulls: Trimco
4. Security Door Closer: LCN Door Closer Company:
a. Series 4200 sized, through bolted.

B. General Notes:
1. Locks to have bolt keepers with dust box.
2. Locate centerline of mechanical deadbolt 3'-2" high from top of finished floor unless noted otherwise.
3. Where manual locks require escutcheons or cylinder shields, cylinder shanks shall extend into escutcheons or cylinder shields.
4. Fill and grind smooth exposed ends of fasteners at lock mounting plate.
5. Locate centerline of Door Pull 4'-0" from top of finished floor.
6. Provide molex plug connector for electric locks
7. Provide molex plug connector assembly at each device.

8. Galvanize exterior assemblies, and assemblies exposed to wet areas, shower rooms, etc.
9. Electric Locks and Door Position Indication Switches as scheduled.
   a. Provide continuous EPDM rubber tape waterproof gasket between lock/DPS case and cover.
   b. Provide weatherproof seal at wire grommet in lock case.

C. Detention Hardware Groups:

Group A:
1. Hinges: 1 ea ABH AC500 x exact door height x US32D (630).
2. Electric Deadlatch: 1 ea Southern Folger 10300M-1 24VDC KCE 24VDC x US32D (630).
3. Cylinder: 1 ea. SFIC Rim Cylinder Housing x US26D (626) (Core supplied under 087100)
4. Door Pulls: 1 ea. Trimco 1111B x Security Torx US 32D.
5. Door Position Indicator Switch: 1 set Flair Electronics Recessed High Security Triple Biased ANSI Contact (DPS) MSS2757-RAC.
6. Wall Bumper: 1 ea Rockwood No. 400, 401, or 402 x US26D (626)

Group B:
1. Hinges: 1 ea ABH AC500 x exact door height x US32D (630).
3. Electric Deadlatch: 1 ea Southern Folger 10300M-2 24VDC KCE 24VDC x US32D (630).
4 Cylinder: 2 ea. SFIC Cylinder Housing (type required) x US26D (626) (Core supplied under 087100).
5. Security Door Closer: 1 ea LCN 4214 x TMS x SRI x AL.
6. Door Pulls: 1 set. Trimco 1111LB-BTB x Security Torx x US32D (630).
7. Wall Bumper: 1 ea Rockwood No. 400, 401, or 402 x US26D (626)

Group C:
1. Key Cylinder Extender Assembly: Southern Folger KCE for Southern Folger 10300M x US32D (630).
2. Electric Deadlatch: Reuse Existing (Southern Folger 10300M-2 24VDC)
3. Cylinder: 1 ea. SFIC Rim Cylinder Housing(Core supplied under 087100).
   Reuse balance of hardware.

2.04 REMOTE OPERABLE TEST BOXES

A. Remote Operable Test Boxes Manufacturers: The Southern Folger Detention Equipment Company, and Maximum Security Products Corporation.

B. Description of Operation: The test box shall be defined as either a Sliding Door Device (“Device”) test box, or and Electromechanical Lock (“EM” Lock) test box.
   1. Device Test Box: Allows remote operation of an individual electric sliding door device. The test box will allow the device to selectively perform the specified functions of the unit identical to the operation of

the specified Control Console. Control of sliding door will provide for opening, closing, stopping, and will change the direction of the door travel.

2. EM Lock Test Box: Allows for the remote unlocking of an electromechanical lock for a swing door. The test box will allow the EM Lock to selectively perform the specified functions of the unit identical to the operation of the specified Control Console. Controls for electromechanical locks for swinging doors will allow for remote, push-button unlocking.

C. General Information:
   1. Each test box shall be suitable for connection to a 15 ampere 120 volt single-phase circuit.
   2. Test Box Enclosure: NEMA Type 1 standard electrical steel enclosure box. With a removable cover plate attached standard 10-24 x 1/2 inch machine screws at corners.
   3. The test box for remote operation of sliding door devices will be via a three-position selector (OPEN-OFF-CLOSE).
   4. The test box for remote operation of electromechanical locks shall have a momentary contact push-button.
   5. All boxes will have one red and one green LED for Unlocked/Locked indication and one circuit breaker.
   6. Electrical components will be listed with Underwriters' Laboratories, Inc. (UL), and bear the listing mark.
      a. Circuit Breaker mounted in the face panel adjacent to the switch: AIRPAX Series PR11-62-2, or Potter-Brumfield W28 series, 2 amp.
      b. Lights: Industrial Devices, Inc., 1091 QM SUPER BRITE series LEDs.
         1. Legend Plate: "UNLOCKED - LOCKED".
      c. Sliding Door Control Switch: Three Position Selector Switch, Non-Illuminated: Allen-Bradley's 800T series, Cutler-Hammer's (Eaton) 10250T series, or Square D's (Schneider) 9001K series switch, having:
         1. Size: 30mm diameter for insertion in 31mm keyed panel opening.
         2. Legend Plate: "OPEN – OFF – CLOSE".
         3. Operator Action: Spring return to Center (OFF) position from either left (OPEN) or right (CLOSE) positions.
         4. Handle (Knob): Black Standard Knob with White Insert.
         5. Contact Blocks: Configuration and number of contact blocks as required for the specified functions and operations.
      d. Swinging Door Momentary Contact Push Button: Non-Illuminated, Allen-Bradley's 800T series, Cutler Hammer's (Eaton) 10250T series, or Square D's (Schneider) 9001K series switch, having:
         1. Size: 30mm diameter for insertion in 31mm keyed panel opening.
         2. Legend Plate: "OPEN".
         3. Push-button: Black Flush Head, Black Flush Button, or

Black Full Guard.

4. Contact Blocks: Minimum of one contact block with 1 normally open (N.O.) contact and 1 normally closed (N.C.) contact. Provide additional contact blocks as required for the specified functions and operations.

e. Powerswitch: "ON/OFF" toggle switch, ALCO Manufacturing Co., Model No. 106D with legend plate.

f. Test box power: Provide via a permanently affixed 8-foot cord with a three-prong, grounded, plug, suitable for plugging into a 120Vac receptacle.

g. Transfer power and control to the device or lock via a 2-foot, six-wire flexible cable or harness, specifically designed to connect to the specified device. Wires shall be a minimum of 14AWG THHN or larger.

h. Provide hanger clip on back of box enclosure.

2.05 FABRICATION AND MANUFACTURING

A. General:

1. Fabrication: Fabricate members straight, true, and free from dents, buckle, twist, and rough/sharp edges. Where exposed in finished spaces, fit joints to provide tight metal-to-metal fit. Make connections by welding, or by equally secured and approved method that will rigidly hold the members in position so that their full strength will be utilized; use the approved detention equipment manufacturer's standard shapes and methods, unless otherwise specified or indicated. Fill gaps and seams flush with Type S-6 Sealant (unless noted otherwise) prior to finish painting. Reinforce, cut, drill and tap members as required to receive hardware, removable glazing stops, and accessories.

2. Welding: Welds shall show uniform section and deep penetration. Finish welds smooth and clean spatter off so that surfaces are ready for primer and finish paint. Unless noted otherwise, provide appropriate weld, 2 inches long, 8 inches on center.

a. Each hinge leaf, requiring a welded application, shall have continuous welds three sides.

b. Hinge leaf's: Full sized, or one leaf is full size and the other one is 1-1/2 inches minimum to centerline of barrel sized to fit frame.

3. Rivets and Riveting:

a. Rivets: 3/8 inch diameter, countersunk flush type, and spaced 4 to 6 inches on center as the nature of the Work requires. Diameter of holes for rivets shall not exceed rivet diameter by more than 1/16 inch. Holes not in true alignment shall be reamed; drifting or gouging will not be permitted.

b. Riveting: Drive rivets down to completely fill holes. Replace loose rivets and those with imperfect heads, or without firm bearing on metal, with good rivets.

4. Bolting: Use only where indicated or approved, and only where nuts are not accessible to inmates or exposed to public view. Draw nuts up tight and batter threads, unless otherwise indicated.

5. Cutting and Drilling for Others: Cut, drill and tap the Work of this Section as required to receive items provided under Related Contracts.

6. Prepare and reinforce doors to receive surface, mortised, and concealed hardware.
    a. 10 gage plate unless noted otherwise.
    b. 2 x 2 x 3/16x10-1/2 inches steel tube for surface mounted pulls.

B. Galvanizing: Galvanize items specified or indicated to be galvanized.
1. Process: Hot-dip process, after fabrication of items. Comply with the following:
    a. ASTM A 123 for plain and fabricated material, and assembled products.
    b. ASTM A 153 for iron and steel hardware.

C. Shop Painting:
1. Thoroughly clean all surfaces of ferrous metal, removing rust, scale, and other deleterious material.
    a. Galvanized Metal: Rinse in hot alkali or in an acid solution, and then in clear water. When dry, repair final assembly welds and abraded areas with a 2.0 mil thick dry film coating of cold galvanizing compound applied in accordance with compound manufacturer's instructions.
2. Apply one coat of shop paint to all surfaces of ferrous metal, except as otherwise required for moving parts and except for surfaces to be embedded in concrete or masonry or to be field welded after fabrication in accordance with the paint manufacturer's instructions and at a rate to provide a uniform minimum wet film thickness of 3.0 mils.
    a. Hollow Steel Doors: Paint all inner surfaces of doors before insulation and second face panel is installed.
    b. Finish paint inside of control cabinets with manufacturer's standard gray enamel system.

D. Swinging Hollow Steel Doors: Flush type, 1-3/4 inches thick. Doors shall have not more than 1/8-inch clearance from frame, unless otherwise indicated. On doors without thresholds, bottom clearance to finish floor is 3/4 inch maximum, maximum of 1/4 inch on doors having head and foot bolts.
1. Framing: Frame doors with 2 x 1 x 3/16 inches steel channels on all four edges, four intermediate 2 x 1 x 3/16 inches steel channels extending horizontally to the full width of the door. Doors with a lock box shall have a 2 x 1/2 inches steel bar on lock edge and steel channels on other three edges. Locate two of the intermediate channels about 4 inches above and below the centerline of the door, or at the top and bottom of the lock box if required, and the other two halfway between these and the top and bottom of the door. Extend legs of perimeter channels inward and miter at corners. Cope legs to fit intermediate channels. Set channels at top, bottom and lock edge 1/8 inch back from edge of face panels opposite stop side to allow for welding; set channel back at hinge edge to receive leaves of mortised hinges. Fill out spaces above, below, and between hinges with steel bar riveted to the channel. Reinforce for full surface hinge application with 2 x 2 x 3/16 x 6-inch-long steel tubes. Weld junctions of all channels.

2. Insulation: Fully fill doors with non-combustible mineral wool fiber materials having a minimum thermal resistance, R-value of 4.1 per inch, unless otherwise indicated.
3. Face Panels: Weld 10-gauge, single sheet steel panel on each door face. Weld the back of one panel to frame; plug weld the other panel to framing. Make inner welds at least 1/2 inch long on alternate sides of channels and spaced 6 inches oc. Plug welds shall have equivalent strength of inner welds. Weld panel edges to the perimeter frame.
4. Observation Light: Frame opening with 2 x 1 x 3/16 inches steel channels on all four sides. Cut face panels for light and weld panel edges to frame. Unless otherwise indicated, weld to door 1/4-inch continuous bent steel plate "Z" shaped stop to perimeter of opening, drilled and tapped for fasteners, and provide 1-1/2 x 1-1/4 inches continuous steel bar stop (LLV) attached with 5/16 inch diameter high strength tamper resistant machine screws 4 inches on center maximum, 2 inches maximum from end on threat side of door.
5. Prepare and reinforce doors to receive surface, mortised, and concealed hardware.
6. View Window: Steel framed opening, 1/8 inch thick sliding steel plate door, S-9 security glazing and accessories as indicated.

E. Structural Steel Door Frames: Fabricate of structural shapes and bars as specified or indicated, square, true, uniform, and fully welded. Ship with temporary spreader at bottom.
1. Stops: 1-1/2 x 3/4 inches steel bar, plug welded to frame on not more than 8 inch centers.
2. Floor Anchors: Steel angle clip welded to back of frame at bottom of each jamb. Prepare clips for anchorage to floor construction indicated.
3. Jamb Anchors: 2 x 1/4 inches steel strap anchors, not less than 8 inches long and terminating with l inch bent end, welded to jambs. Anchors shall be fixed for concrete walls and adjustable type for masonry walls. Anchors, for exterior frames in concrete masonry unit construction, shall extend into cells (cores) as indicated. Space anchors not exceeding 16 inches oc, with no less than 4 anchors per jamb.
4. In-Place Masonry Construction Jamb Anchors: 3/8 inch diameter Type 304 stainless steel button head machine bolts and expansion shields, spaced not exceeding 16 inches oc, with not less than 4 anchors per jamb.
5. Prepare frames to receive and accommodate required hardware and other items. Form slots in frames to serve as hardware strikes, unless otherwise indicated. Weld 12 gage steel box closures on back of frame where slots for hardware occur.
6. Lock Box: Prepare frame for Electric Prison Lock as indicated. Form slots in frame for latchbolt and deadlock actuator. Coordinate with manufacturer's templates.
7. Door Position Indicator Switch: Prepare frame for Door Position Indicator Switch. Coordinate with manufacturer's templates. Weld 12 gage steel box closure on back of frame where cut out for hardware occurs. Provide connectors for conduit connections as indicated.

8. Wiring Connection Between DPS and Lockbox: 3/4 inch diameter PVC, Schedule 40 conduit. Fittings and accessories as recommended by the conduit manufacturer for wall construction type. Provide pull string.
9. Galvanizing: Galvanize entire assembly of exterior door frames and frames in wet areas.

2.06 IDENTIFICATION PLATES

A. Each locking system shall have an engraved metal or plastic laminate plate identifying the manufacture, the manufacturer's work order number, type of system, date of installation, and installer.
   1. Plastic Plate:
      a. Engraved Stock Plastic, 1/8" thick, high pressure laminate with contrasting white inner core.
   2. Permanently attach plate to the inside of control cabinet door and emergency control cabinet door. If no emergency control cabinet is required, attach plate to the inside of the track box covers.

B. Interior Corridor Gate and Observation Cell Door Identification: Provide at each gate an adhesive backed 3.5 mil vinyl identification plate 3" high x length required, with letters/numerals corresponding to each individual gate number (BG1, BG-2, etc.). Unless shown or directed otherwise, locate plate centered on track box access panel of corridor gates and to middle stile of observation cell doors. Apply straight and level, per manufacturer's written instructions.
   1. Color: White letters/numerals on black background.
   2. Font: Helvetica Medium, 2" high, all capitals.

C. Exterior Gate Identification: Provide at each gate a stainless steel identification plate(s), sized 2" x 4", engraved with each individual gate number (G-1, G-12, etc.). Attach in place with 4 Torx centerpin screws. Unless shown or directed otherwise, locate plates as follows:
   1. Type "A" Gates: Attach to frame above lock, on both sides of each gate.
   2. Sliding Gates: Attach to cover of motor cabinet or emergency release column.
   3. Type "B" Gates: Attach to face of lock mounting box, on compound side of gate.
   4. Type "D" Gates": Attach to frame above lock on side opposite threat side.

D. Cell Identification: As described in DETENTION ACCESSORIES. Attach cell numbers to front of track box with Torx center pin security head machine screws or rivets. Verify positioning/location of attachment with the Director's Representative prior to attachment. Install straight and level.

2.07 KEYING

SPECIFIC KEYING INSTRUCTIONS WILL BE PROVIDED TO THE SUCESSFUL LOW BIDDER AT THE INITIAL JOB MEETING

A. Key locks as specified and incorporate a keying schedule into the hardware schedule for approval.

1. Key changes shall be different from changes previously used at this Facility, except as noted.
2. Record key changes, to avoid future unintended duplication.
3. Furnish seven keys for each change, except as noted.
4. Furnish extended shank keys when required.

PART 3 EXECUTION

3.01 DETENTION EQUIPMENT INSTALLATION

A. Install the Work of this Section in its designed position, plumb, level, square, straight and true, and in accordance with the manufacturer's installation instructions and approved shop drawings.

B. Brace assembled fabrications until permanently secured in place to prevent displacement or distortion of the members.

C. Comply with requirements of FABRICATION AND MANUFACTURE Article. Touch-up abraded areas and areas of field welding as required, with compatible primer and finish paint, or cold galvanizing compound.
1. For exposed galvanized items, touch-ups shall include the full width and length of the face of steel in the area of abrasion and welds. Brush apply cold galvanizing compound in accordance with ASTM A780 requirements to a 3.0 mil dry film thickness.

D. Use only rotary power drills where masonry or concrete is required to be drilled. Drill holes to exact size required.

E. Perform welding in accordance with the AWS Codes. When welding hinges, attach ground to prevent welding current from being carried through the hinge barrel.

F. Neatly install and securely fasten hardware. Use proper tools and methods and temporary protective covers to keep polished hardware and handles free from scratches and defacement.
1. Installation Sequence: Use proper installation sequence e.g., install overhead stops and coordinators before surface mounted door closers.
2. Template door closers for maximum door swing allowed by wall placement and jamb conditions. Where overhead stop prevents door from swinging to wall, template closer to exceed degree of opening allowed by overhead stop. Verify with closer/overhead stop manufacturers, the special templates provided are compatible with 2-1/4 inch door thickness and 5 inch prison hinge installation.
3. Attach closers and overhead stops to doors with through-bolts/SNB.
4. Set exterior thresholds in a full bed of Type 3 Sealant.

G. Threshold Installation:
1. Drill holes 3 inches from each end of threshold and intermediate holes 12 inches maximum o.c. for required fasteners. Prepare holes for countersunk fasteners.

2. Level and align thresholds with frames and doors. Where required, use non-corrosive shims.
3. Exterior Doors: Set thresholds in a solid bed of Type 3 Sealant.
4. Secure thresholds to substrate with countersunk fasteners.

H. Attach cell numbers to front of track box with Torx center pin security head machine screws or rivets.

I. Install side hinged doors and gates shall without hinge bind, nor sprung, nor travel or drift more than 5 degrees of arc in either direction when placed in any stationary position of its swing. Verify before closer installation.

3.02 WIRING FOR DETENTION EQUIPMENT

A. Electrical Work Contractor shall provide power wiring and raceway system from the power source (circuit breakers in panelboard) to the control consoles.

B. Provide power wiring, control wiring, and raceway system from the control consoles/cabinets etc. to the operating devices, appurtenances, and the detention hardware.

3.03 CONDUCTOR INSTALLATION

A. Conductors (power wiring and control wiring) shall be continuous (no splices) from each door and/or gate, device/lock location to their associated control consoles/cabinets except as noted below.
1. At doors/gates and at cell run Emergency Control Cabinet locations splices will be allowed through the use of plug-in connectors or terminal blocks for connections to locks, motors, limit switches, and other electrical components to facilitate removal and replacement of these items.
2. The use of common wiring (shared conductors) between multiple door and or gate, device/lock locations for connections to their associated control consoles/cabinets shall not be allowed.

B. Install wiring in raceways.
1. Wiring from door and/or gate, device/lock locations to their associated control consoles/cabinets may be installed in common raceways. Do not exceed the raceway's conductor fill as allowed by the National Electric Code.

C. Protect wiring in track boxes with wire trough or chase. Encase wiring in plastic sheathing or rubber grommets when passing through metal components and near moving parts.

3.04 FIELD QUALITY CONTROL

A. Pre-Installation Testing: Before the detention equipment Work is scheduled to begin, the Director's Representative will call a conference at each site for the purpose of verifying the functions and operations the existing detention equipment and systems. The detention equipment contractor and installer shall attend. Other participants may be invited at the discretion of the Director. Supply

all equipment necessary for the testing. Provide written report of findings to the Director's Representative.

B. Testing Of Detention Equipment:
   1. Preparation: Notify the Director's Representative at least three working days prior to the tests so arrangements can be made to have a Facility Representative witness the tests.
      a. Remove protective covering from view windows, mirrors, hardware, etc.
   2. Testing: Individually test each door or gate system, covering all functions and features one at a time.
   3. Test control panel(s) for each designed function.
   4. Test each manual lock and each electric lock for ease of operation.
   5. Supply all equipment necessary for system adjustment and testing.

C. Post installation Inspection For Detention Equipment: The Director's Representative will call for an inspection tour at the site. Attending will be the Contractor, Company Field Advisor, Control Wiring Installer and the Detention Equipment Installer. Other participants may be invited at the discretion of the Director. The Detention systems and hardware, both electric and mechanical, and the accessories will be inspected for proper installation and operation. The Company Field Advisor will document the inspection identifying locations and required corrections and adjustments. Provide copies of the report to the Director's Representative.
   1. The Detention Equipment Installer shall perform all corrections or adjustments found during the post installation inspection immediately following the tour or as soon as practicable.
   2. The Company Field Advisor shall verify all corrections and adjustments have been completed and certify with an affidavit (affidavits) that the system is installed correctly and is operating properly. Forward certification(s) to the Director's Representative.

D. Instruction: Secure the services of a factory trained instructor from the detention equipment manufacturer for a minimum of two 4 hour training sessions. Train the facility staff in the operation and routine maintenance of the detention systems and equipment.

3.05 ADJUSTING

A. Adjust operative units and equipment to work freely and easily, ready for use. Field lubricate operating and locking systems in accordance with the manufacturer's maintenance instructions. Adjust equipment when the temperature is approximately 70 degrees F.

END OF SECTION

SECTION 310000

EARTHWORK

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Cast-In-Place Concrete: Section 033001.

B. Site Restoration: Section 310101

1.02 DEFINITIONS

A. The following terms shall have the meanings ascribed to them in this Article, wherever they appear in this Section.

1. Earth Excavation: The removal of all surface and subsurface material not classified as rock (as defined below).
2. Rock: Limestone, sandstone, shale, granite, and similar material in solid beds or masses in its original or stratified position which can be removed only by blasting operations, drilling, wedging, or use of pneumatic tools, and boulders with a volume greater than 1.0 cu yd. Concrete building foundations and concrete slabs, not indicated, with a volume greater than 1.0 cu yd shall be classified as rock.
   a. Limestone, sandstone, shale, granite, and similar material in a broken or weathered condition which can be removed with an excavator or backhoe equipped with a bucket with ripping teeth or any other style bucket shall be classified as earth excavation.
   b. Masonry building foundations, whether indicated or not, shall be classified as earth excavation.
3. Subgrade Surface: Surface upon which subbase or topsoil is placed.
4. Subbase: Select granular material or subbase course Type 2 which is placed immediately beneath pavement or concrete slabs.
5. Foundation Bearing Grade: Grade/elevation at which the bottom-of-footings are constructed.
6. Maximum Density: The dry unit weight in pounds per cubic foot of the soil at "Optimum Moisture Content" when determined by ASTM D 1557 (Modified Proctor).
7. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
8. Landscaped Areas: Areas not covered by structures, walks, roads, paving, or parking.
9. Unauthorized Excavation: The removal of material below required elevation indicated on the Drawings or beyond lateral dimensions indicated or specified without specific written direction by the Director's Representative.

1.03 SUBMITTALS

A. Quality Control Submittals:
   1. Excavation Procedure: Submit a lay out drawing or detailed outline of intended excavation procedure for the Director's information. This submittal will not relieve the Contractor of responsibility for the successful performance of intended excavation methods.
   2. Subbase Materials: Name and location of source and the DOT Source Number. If the material is not being taken from an approved DOT Source the results of the gradation and soundness tests performed by an ASTM certified soils laboratory will be required.
   3. Other Aggregates: Name and location of source and soil laboratory test results.

1.04 PROJECT CONDITIONS

A. Protect existing trees and plants during performance of the Work unless otherwise indicated. Box trees and plants indicated to remain within the grading limit line with temporary steel fencing or solidly constructed wood barricades as required. Protect root systems from smothering. Do not store excavated material, or allow vehicular traffic or parking within the branch drip line. Restrict foot traffic to prevent excessive compaction of soil over root systems.

B. Cold Weather Requirements:
   1. Excavation: When freezing temperatures are anticipated, do not excavate to final required elevations for concrete work unless concrete can be placed immediately.
   2. Backfilling: If backfill is being placed during freezing temperatures the backfilling operations shall be monitored by the Director's Representative and the following procedures shall be followed:
      a. Frozen ground shall be removed in its entirety from beneath and five feet beyond the area of fill placement.
      b. The fill material placed shall consist of Selected Fill and shall be free of all frozen chunks that exceed four inches in size. The material transported to the project site shall only consist of material excavated from below the frost depth.
      c. At the end of the work day, the area of fill placement shall be covered with insulated blankets, or left unprotected. Other means of protection (hay, wood chips, etc.) may also be used for protection provided it is approved by the Director's Representative.
      d. Following work day, remove the insulated blankets and/or strip the area of all frozen material as specified previously.
      e. Upon establishing the subgrade elevations, protect the grades with insulated blankets or place additional material that will adequately insulate the exposed earth surface from frost. This additional fill or protective material shall be stripped just prior to pouring concrete.

PART 2 PRODUCTS

2.01 MATERIALS

A. Subbase Course Type 2: Stockpiled, crushed ledge rock or approved blast furnace slag. Comply with the gradation and material requirements specified below:

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
2 inch	50.8	100
1/4 inch	6.35	25-60
No. 40	0.425	5-40
No. 200	0.075	0-10

1. Magnesium Sulfate Soundness Test: 20 percent maximum loss by weight after four test cycles.
2. Plasticity Index: The plasticity index of the material passing the No. 40 mesh sieve shall not exceed 5.0.
3. Elongated Particles: Not more than 30 percent, by weight, of the particles retained on a 1/2 inch sieve shall consist of flat or elongated particles. A flat or elongated particle is defined as one which has its greatest dimension more than three times its least dimension.

B. Selected Fill: Sound, durable, sand, gravel, stone, or blends of these materials, free from organic and other deleterious materials. Comply with the gradation requirements specified below:

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
4 inch	101.6	100
No. 40	0.425	0-70
No. 200	0.075	0-15

C. Cushion Material: Shall consist of clean, hard, durable, uncoated particles, free from lumps of clay and all deleterious substances and shall meet the following gradation requirements:

Sieve Size		Percent Passing
Sieve Size	Size opening (mm)	
1/4 inch	6.35	100
No. 60	0.25	0-35
No. 100	0.15	0-10

D. Item B-12: Equal Blend of No.1 and No. 2 Crushed Stone that complies with material requirements of DOT Article 703-02, crushed stone only.

Sieve		Percent Passing
Sieve Size	Size opening (mm)	
1-1/2 inch	38.1	100
1 inch	25.4	95-100
½ inch	12.7	45-60
¼ inch	6.35	0-15

E. Marker Tape: FL Industries Blackburn/Holub's Type YT6, or Seton Nameplate Corporations Type 6 ELE, imprinted with message suited to item buried below.

2.02 GEOTECHNICAL FABRICS

A. Filter Fabric (GeoTextile)
   1. Separation/Stabilization beneath pavements: Amoco 4551, Bonded Fibers Products PN080, Maccaferri Gabions MacTex MX275 & 340, Mirafi 160N & 180N or equivalent.

PART 3 EXECUTION

3.01 UNDERGROUND UTILITIES

A. Locate existing underground utilities prior to commencing excavation work. Determine exact utility locations by hand excavated test pits. Support and protect utilities to remain in place.

B. Do not interrupt existing utilities that are in service until temporary or new utilities are installed and operational.

C. Utilities abandoned beneath and five feet laterally beyond the structure's proposed footprint shall be removed in their entirety. Excavations required for their removal shall be backfilled and compacted as specified herein.

D. Utilities located outside the limits specified above may be abandoned in place provided their ends are adequately plugged as described below.
   1. Permanently close open ends of abandoned underground utilities exposed by excavations, which extend outside the limits of the area to be excavated.
   2. Close open ends of metallic conduit and pipe with threaded galvanized metal caps or plastic plugs or other approved method for the type of material and size of pipe. Do not use wood plugs.
   3. Close open ends of concrete and masonry utilities with concrete or flow-able fill.

3.02 EXCAVATION

A. Excavate earth as required for the Work.

B. Install and maintain all erosion and sedimentation controls during all earthwork operations as specified on the Contract Drawings or as directed by local officials.

If the erosion and sedimentation controls specified by the local officials are more stringent than those specified on the Contract Drawings contact the Director's Representative.

C. Maintain sides and slopes of excavations in a safe condition until completion of backfilling. Comply with Code of Federal Regulations Title 29 - Labor, Part 1926 (OSHA).
   1. Trenches: Deposit excavated material on one side of trench only. Trim banks of excavated material to prevent cave-ins and prevent material from falling or sliding into trench. Keep a clear footway between excavated material and trench edge. Maintain areas to allow free drainage of surface water.

D. Stockpile excavated materials classified as suitable material where directed, until required for fill. Place, grade, and shape stockpiles for proper drainage as approved by the Director's Representative.

E. Excavation for Structures: Conform to elevations, lines, and limits indicated. Excavate to a vertical tolerance of plus or minus 1 inch. Extend excavation a sufficient lateral distance to provide clearance to execute the Work.

F. Concrete Slabs, Floors and Bases: Excavate to the following depths below bottom of concrete for addition of select granular material:
   1. Interior Floors: 6 inches unless otherwise indicated.

G. Pipe Trenches and/or Bell and Spigot Pipe Trenches: Open only enough trench length to facilitate laying pipe sections. Unless otherwise indicated on the Drawings, excavate trenches approximately 24 inches wide plus the outside pipe diameter, equally divided on each side of pipe centerline. Cut trenches to cross section, elevation, profile, line, and grade indicated. Accurately grade and shape trench bottom for uniform bearing of pipe.
   1. Trench in Rock: Excavate an additional 6 inches below bottom of pipe for bed of cushion material under the piping.

H. Conduit, Cable, Tubing and Piping (other than Bell and Spigot): Provide sufficient trench width for installation and to accommodate special backfill when specified.

I. Pavement: Excavate to subgrade surface elevation.

J. Unauthorized Excavations: Unless otherwise directed, backfill unauthorized excavation under footings, foundation bases, and retaining walls with compacted select granular material without altering the required footing elevation. Elsewhere, backfill and compact unauthorized excavation as specified for authorized excavation of the same classification, unless otherwise directed by the Director.
   1. Unauthorized excavations under structural Work such as footings, foundation bases, and retaining walls shall be reported immediately to the Director before any concrete or backfilling Work commences.

K. Notify the Director's Representative upon completion of excavation operations. Do not proceed with the Work until the excavation is inspected and approved.

Inspection of the excavation by the Director's Representative will be made on 3 working days notice.

3.03 PLACING FILL AND BACKFILL

A. Surface Preparation of Fill Areas: Strip topsoil, remaining vegetation, and other deleterious materials prior to placement of fill. Prior to placement of fill, smooth out and compact areas where wheel rutting has occurred due to stripping or earthwork operations.

B. Excavations: Backfill as promptly as practicable, but only after approval by the Director's Representative. Do not backfill with excavated material unless it meets the requirements of this Section.

C. Place backfill and fill materials in layers not more than 8 inches thick in loose depth unless otherwise specified. Before compaction, moisten or aerate each layer as necessary to facilitate compaction to the required density. Do not place backfill or fill material on surfaces that are muddy, frozen, or covered with ice.
   1. Place fill and backfill against foundation walls, and in confined areas (such as trenches) not easily accessible by larger compaction equipment, in maximum six inch thick (loose depth) layers.
   2. For Open Graded Stone/Clean Stone (Item B-12, No. 1 crushed stone, No. 2 crushed stone, etc.) in access of six inches: Material must be wrapped in separation fabric.

D. Prevent wedging action of backfill against structures by placing backfill uniformly around structure to approximately same elevation in each layer. Place backfill against walls of structures containing basements or crawl spaces only after the first floor structural members are in place.

E. Under Interior Concrete Slabs:
   1. Up to Subgrade Surface Elevation: Place selected fill when fill or backfill is required.
   2. Subbase Material: Place six inches of select granular material over subgrade surface.

F. Under Pavements and Walks:
   1. Up to Subgrade Surface Elevation: Place selected fill when fill or backfill is required.
   2. Subbase Material: Place as indicated.

G. Ductile Iron Pipe in Trenches: Place cushion material a minimum of six inches deep under pipe, 12 inches on both sides, and 12 inches above top of pipe. Complete balance of backfill as specified.

3.04 COMPACTION

A. All materials with exception of open graded stone (No. 2 Coarse aggregate, No. 1 Coarse aggregate, Item B-12, etc.):
   1. Compact each layer of fill and backfill for the following area classifications to the percentage of maximum density specified below and at a moisture content suitable to obtain the required densities, but at

not less than three percent drier or more than two percent wetter than the optimum content as determined by ASTM D 698 (Standard Proctor) or 1557 (Modified Proctor).

a. Pavements and Walks: 95 percent.
b. Pipes and Tunnels: 95 percent.
c. Pipe Bedding: 95 percent.

2. If a compacted layer fails to meet the specified percentage of maximum density, the layer will be re-compacted and retested. If compaction cannot be achieved the material/layer will be removed and replaced. No additional material may be placed over a compacted layer until the specified density is achieved

B. Open graded Stone: Place material in maximum twelve inch lifts. Each lift shall be raked smooth and compacted through several passes of a walk behind vibratory roller. Compaction Testing is **not** required.

3.05 DISPOSAL OF EXCESS AND UNSUITABLE MATERIALS

A. Remove from State property and dispose of excess and unsuitable materials, including materials resulting from clearing and grubbing and removal of existing improvements.

B. Transport excess and unsuitable materials, including materials resulting from clearing and grubbing and removal of existing improvements, to spoil areas on State property designated by the Director's Representative, and dispose of such materials as directed.

3.06 FIELD QUALITY CONTROL

A. Compaction Testing: Notify the Director's Representative at least 3 working days in advance of all phases of filling and backfilling operations. Compaction testing will be performed by the Director's Representative to ascertain the compacted density of the fill and backfill materials. Compaction testing will be performed on certain layers of the fill and backfill as determined by the Director's Representative. If a compacted layer fails to meet the specified percentage of maximum density, the layer shall be re-compacted and will be retested. No additional material may be placed over a compacted layer until the specified density is achieved.

3.07 PROTECTION

A. Protect graded areas from traffic and erosion, and keep them free of trash and debris.

END OF SECTION

SECTION 310101

SITE RESTORATION

PART 1 GENERAL

1.01 QUALITY ASSURANCE

A. Provide prepackaged seed readily available to the public with quality and purity equal to product of O.M. Scotts and Son, Marysville, OH 43041. On-the-job or made-to-order mixes will not be accepted.

1.02 DELIVERY STORAGE AND HANDLING

A. Deliver fertilizer in manufacturer's standard size bags or cartons showing weight, analysis, and the name of the manufacturer. Store as approved by Director's Representative.

B. Store all seed at the site in a cool dry place as approved by the Director's Representative. Replace any seed damaged during storage.

1.03 SCHEDULING

A. Time For Seeding: Optimum period to sow permanent grass seed is generally between April 1st and May 15th or between August 15th and October 1st. Schedule application for when weather conditions permit or as Directed.
   1. Provide temporary seed and mulch when final grading is complete while waiting for optimal seeding period.
   2. Provide temporary seed and mulch for temporary cover on disturbed ground not to be worked on for more than 7 days.
   3. Provide temporary seed and mulch on disturbed earth prior to temporary shutdown of construction.

PART 2 PRODUCTS

2.01 TOPSOIL

A. Source: Provide topsoil from existing stockpiles stripped from the project site and approved by the Director's Representative.

B. Provide topsoil conforming to the following:
   1. Original loam topsoil, well drained homogeneous texture and of uniform grade, without the admixture of subsoil material and entirely free of dense material, hardpan, sod, or any other objectionable foreign material.
   2. Containing not less than 4 percent nor more than 20 percent organic matter in that portion of a sample passing a 1/4 inch sieve when determined by the wet combustion method on a sample dried at 105 degrees C.

3. Containing a Ph value within the range of 4.5 to 7 on that portion of the sample that passes a 1/4 inch sieve.
4. Containing the following gradations:

SIEVE DESIGNATION	PERCENT PASSING
1 inch	100
1/4 inch	97 - 100
No. 200	20 - 65 (of the 1/4 inch sieve)

2.02 FERTILIZER

A. Fertilizer: Mixed commercial fertilizers shall contain total nitrogen, available phosphoric acid and soluble potash in the ratio of 10-6-4 (50% N/UF). 50% of total nitrogen shall be derived from ureaform furnishing a minimum of 3.5% water insoluble nitrogen (3.5% WIN). The balance of the nitrogen shall be present as methylene urea, water-soluble urea, nitrate and ammoniacal compounds.

B. Other fertilizers meeting DOT Specification Section 713-03 Fertilizer can be used.

2.03 SEED

A. Furnish fresh, clean, new-crop seed mixed in the proportions specified for species and variety, and conforming to Federal and State Standards.

B. Acceptable material in a seed mixture other than pure live seed consists of nonviable seed, chaff, hulls, live seed of crop plants and inert matter. The percentage of weed seed shall not exceed 0.1 percent by weight.

C. All seed will be rejected if the label indicates any noxious weed seeds.

D. Provide seed mixture equal to Scotts Pure Premium Sun and Shade North Grass Seed Mixture, comprised of the following:

SEED MIXTURE			
AMOUNT BY WEIGHT IN MIXTURE	SPECIES OR VARIETY *	PERCENTAGE	
		PURITY	GERMINATION
30 PERCENT	FENWAY RED FESCUE	97 PERCENT	80 PERCENT
30 PERCENT	ABBEY KENTUCKY BLUEGRASS BLEND	95 PERCENT	80 PERCENT
20 PERCENT	DEVINE PERENNIAL RYE	98 PERCENT	85 PERCENT
20 PERCENT	ENCHANTED PERENNIAL RYE	98 PERCENT	85 PERCENT
100 PERCENT			

*Variety may be altered depending on availability of seed from manufacturer.

2.04 MULCH

A. Dry Application, Straw: Stalks of oats, wheat, rye or other approved crops that are free of noxious weed seeds. Weight shall be based on a 15 percent moisture content.

PART 3 EXECUTION

3.01 GRADING

A. Rough Grading: Trim and grade lawn areas within the Contract Limit to a level of 4 inches below the finish grades indicated unless otherwise specified herein or where greater depths are indicated. Provide smooth uniform transition to adjacent areas.

B. Finish Grading: Finish surfaces free from irregular surface changes, and as follows:

1. Grassed Areas: Finish areas to receive topsoil to within 1 inch above or below the required subgrade surface elevations.

3.02 SPREADING TOPSOIL

A. Perform topsoil spreading operations only during dry weather.

B. To insure a proper bond with the topsoil, harrow or otherwise loosen the subgrade to a depth of 3 inches before spreading topsoil.

C. Spread topsoil directly upon prepared subgrade to a minimum depth measuring 4 inches after natural settlement in areas to be seeded. Smooth out unsightly variations, bumps, ridges, and depressions that will hold water. Remove stones, litter, or other objectionable material. Finished surfaces shall conform to the contour lines and elevations indicated on the drawings or fixed by the Director's Representative.

3.03 PREPARATION FOR SEEDING

A. Seed Bed: Scarify soil to a depth of 2 inches in compacted areas. Smooth out unsightly variations, bumps, ridges, and depressions that will hold water. Remove stones, litter, or other objectionable material.

3.04 FERTILIZING

A. Apply 10-6-4 fertilizer evenly at the rate of 40 pounds per 1000 sq ft .

3.05 SEEDING

A. Assume all risks when seed is sowed before approval of seed analysis.

B. Do not seed when the wind velocity exceeds 5 miles per hour.

C. Application Rate: 8 pounds per 1000 sq ft.

D. Dry Application: Sow seed evenly by hand or seed spreader on dry or moderately dry soil.

3.06 MULCHING

A. Dry Application: Within 3 days after seeding, cover the seeded areas with a uniform blanket of straw mulch at the rate of 50 pounds per 1000 sq ft of seeded area.

3.07 LAWN ESTABLISHMENT

A. Maintain the grass at heights between 3 inches and 3-1/2 inches on a weekly basis until the Final Acceptance of the Work.
B. Water and protect all seeded areas until final acceptance of the lawn.

3.08 FINAL ACCEPTANCE

A. Final acceptance of seeded areas will be granted when a uniform stand of acceptable grass is obtained, with a minimum of 95 percent coverage. Portions of the seeded areas may be accepted at various times at the discretion of the Director's Representative.

B. Unacceptable seeded areas, dry application: Reseed as specified and fertilized at one-half the specified rate.

C. Once accepted, the State will assume all maintenance responsibilities.

END OF SECTION

SECTION 312513

EROSION AND SEDIMENT CONTROL

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Site Restoration: Section 310101.

1.02 REFERENCES

A. Erosion and Sediment Control Guidelines: Conform to the latest edition of "NEW YORK STANDARDS and SPECIFICATIONS for EROSION and SEDIMENT CONTROL" by NYS Department of Environmental Conservation DOW (i.e., Bluebook). Refer to these guidelines for construction and maintenance of all items (Temporary and Permanent Structural, Vegetative and Biotechnical) included in the Storm Water Pollution and Prevention Plan (SWPPP).

1.03 RESPONSIBILITY

A. Provide any temporary sediment and erosion control measures that may be required within limits of the work, including any staging areas, throughout construction in conformance with the plan, and as directed by the Director's Representative. Place the permanent control practices required before the removal of the temporary storm water diversion and control items.

B. During construction conduct operations in such a manner as to prevent or reduce to a minimum any damage to any water body from pollution by debris, sediment, chemical or other foreign material, or from the manipulation of equipment and/or materials in or near a stream or ditch flowing directly to a stream. Any water which has been used for wash purposes or other similar operations which become polluted with sewage, silt, cement, concentrated chlorine, oil, fuels, lubricants, bitumens, or other impurities shall not be discharged into any water body.

C. In the event of conflict between these specifications and the regulation of other Federal, State, or local jurisdictions, the more restrictive regulations shall apply.

1.04 DESCRIPTION

A. The Work shall consist of furnishing, installing, inspecting, maintaining, and removing soil and erosion control measures as shown on the contract documents or as ordered by the Director's Representative during the life of the contract to provide erosion and sediment control.

B. Temporary structural measures provide erosion control protection to a critical area for an interim period. A critical area is any disturbed, denuded slope subject to erosion. These are used during construction to prevent offsite sedimentation.

Temporary structural measures shall include check dams, construction road stabilization, stabilized construction entrance, dust control, earth dike, level spreader, perimeter dike/swale, pipe slope drain, portable sediment tank, rock dam, sediment basin, sediment traps, silt fence, storm drain inlet protection, straw/hay bale dike, access waterway crossing, storm drain diversion, temporary swale, turbidity curtain, water bars or other erosion control devices or methods as required.

C. Vegetative measures shall include brush matting, dune stabilization, grassed waterway, vegetating waterway, mulching, protecting vegetation, seeding, sod, straw/hay bale dike, stream bank protection, temporary swale, topsoil, and vegetating waterways.

D. Weekly inspections will be completed by the Director's Representative. Comply with and correct all deficiencies found as a result of these inspections. At the end of the construction season when soil disturbance activities will be finalized or suspended until the following spring, the frequency of the inspections may be reduced. If soil disturbance is completely suspended and the site is properly stabilized, a minimum of monthly inspections must be maintained. The stabilization activities must be completed before snow cover or frozen ground. If vegetation is required, seeding, planting and/or sodding must be scheduled to avoid die-off from fall frosts and allow for proper germination/establishment. Weekly inspections must resume no later than March 15.

1.05 DEFINITIONS – TEMPORARY STRUCTURAL MEASURES

A. Dust Control: Prevent surface and air movement of dust from disturbed soil surfaces.

B. Silt Fence: A barrier of geo-textile fabric installed on contours across the slope to intercept runoff by reducing velocity. Replace after 1 year.

C. Storm Drain Inlet Protection: A semi-permeable barrier installed around storm inlets to prevent sediment from entering a storm drainage system.

1.06 DEFINITIONS – VEGETATIVE MATERIALS MEASURES

A. Mulches: Hay, straw, wood cellulose, fiber mats, flexible growth medium and other materials approved by the Director's Representative.

B. Protecting Vegetation: Protecting trees, shrubs, ground cover and other vegetation from damage.

C. Temporary Seeding: Erosion control protection to a critical area for an interim period. A critical area is any disturbed, denuded slope subject to erosion.

D. Permanent Seeding: Grasses established and combined with shrubs to provide perennial vegetative cover on disturbed, denuded, slopes subject to erosion.

E. Topsoil: Placed before permanent seeding or sod is installed.

PART 2 PRODUCTS

2.01 MATERIALS

A. Seeding: Permanent see Section 329219.

2.02 COMPANIES-TEMPORARY STRUCTURAL

A. SILT FENCE
Mirafi, 365 South Holland Drive, Pendergrass, Ga, 30567, (888) 795-0808, www.mirafi.com.

B. DUST ABATEMENT
Apex Resources Inc., 12910 Shelbyville Road, Louisville, KY 40243 (888) 677-2739, www.apexr.com.

C. DUST ABATEMENT
MonoSol, LLC, 707 E. 80th PL., Merrillville, IN 46410 (800) 237-9552, www.terraloc.com.

2.03 COMPANIES-VEGETATIVE

A. Nedia Enterprises, Inc., 22187 Vantage Pointe Place, Ashburn, VA 20148, (888) 725-6999, www.nedia.com.

B. Agrecol Corporation, 2918 Agriculture Drive, Madison, Wi, 53718, (608) 226-2544, www.agrecol.com.

PART 3 EXECUTION

3.01 WORK AREAS

A. The Director's Representative has the authority to limit the surface area of erodible earth exposed by earthwork operations and to direct the Contractor to provide immediate temporary or permanent erosion measures to minimize damage to property and contamination of watercourses and water impoundments. Under no circumstances will the area of erodible earth material exposed at one time exceed 50,000 sq. ft. The Director's Representative may increase or decrease this area of erodible earth material exposed at one time as determined by their analysis of project, weather and other conditions. The Director's Representative may limit the area of clearing and grubbing and earthwork operations in progress commensurate with the Contractor's demonstrated capability in protecting erodible earth surfaces with temporary, permanent, vegetative or biotechnical erosion control measures.

B. Schedule the work so as to minimize the time that earth areas will be exposed to erosive conditions. Provide temporary structural measures immediately to prevent any soil erosion.

C. Provide temporary seeding on disturbed earth or soil stockpiles exposed for more than 7 days or for any temporary shutdown of construction. In spring, summer or early fall apply rye grass at a rate of 1 lb/ 1000 sq.ft. In late fall or early spring, apply certified Aroostook Rye at a rate of 2.5 lbs./ 1000 sq. ft. Apply hay or straw at a rate of 2 bales/ 1000 sq. ft. or wood fiber hydromulch at the manufacturer's recommended rate. Hay or straw shall be anchored.

D. Coordinate the use of permanent controls or finish materials shown with the temporary erosion measures.

E. All erosion and sediment control devices must be maintained in working order until the site is stabilized. All preventative and remedial maintenance work, including clean out, repair, replacement, re-grading, re-seeding, or re-mulching, must be performed immediately.

F. After final stabilization has been achieved temporary sediment and erosion controls must be removed. Areas disturbed during removal must be stabilized immediately.

END OF SECTION

SECTION 320117

PAVEMENT REPAIR AND RESURFACING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. This specification is applicable to pavement milling and overlay either without the use of a paving fabric saturated with asphalt cement between pavement layers.

1.02 RELATED SECTIONS

A. Asphalt Paving: Section 321216.

1.03 REFERENCES

A. American Association of State Highway and Transportation Officials (AASHTO) "Standard Specification for Geotextile Specification for Highway Applications" Designation M 288-05.

B. American Society for Testing and Materials (ASTM):
1. D 276 - Method for Identification of Fibers in Textiles (Melting Point).
2. D 4354 - Practice for Sampling of Geosynthetics for Testing.
3. D 4355 - Test Method for Deterioration of Geotextiles from Exposure to Ultraviolet Light and Water (Xenon-Arc Type Apparatus).
4. D 4439 - Terminology for Geotextiles.
5. D 4533 - Test Method for Index Trapezoid Tearing Strength of Geotextiles.
6. D 4632 - Test Method for Grab Breaking Load and Elongation of Geotextiles.
7. D 4759 - Practice for Determining the Specification Conformance of Geosynthetics.
8. D 4873 - Guide for Identification, Storage, and Handling of Geotextiles.
9. D 5199 - Test Method for Measuring Nominal Thickness of Geotextiles and Geomembranes.
10. D 5261 - Test Method for Measuring Mass per Unit Area of Geotextiles.

C. Geosynthetic Accreditation Institute - Laboratory Accreditation Program (GAI-LAP).

1.04 DEFINITIONS

A. Maximum Average Roll Value (MaxARV): Property value calculated as typical plus two standard deviations. Statistically, it yields a 97.7 percent degree of confidence that any sample taken during quality assurance testing will be below the value reported.

B. Minimum Average Roll Value (MARV): Property value calculated as typical minus two standard deviations. Statistically, it yields a 97.7 percent degree of confidence that any sample taken during quality assurance testing will exceed value reported.

C. Typical Roll Value: Property value calculated from average or mean obtained from test data.

1.05 SUBMITTALS

A. Product Data: Manufacturer's name and brand name for the following:
   1. Asphalt filler:
      a. Provider or Plant.
      b. Composition.
   2. Asphalt emulsion:
      a. Provider or Plant.
      b. Composition.
   3. Asphalt Top Course:
      a. Submit under Section 32 12 16 Asphalt Concrete Paving Top Course.

B. Submit an Environmental Product Declaration (EPD) from the manufacturer for asphalt this specification section, if available. A statement of the contractor's good faith effort to obtain the EPD shall be provided if not available.
   1. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 *Environmental labels and declarations*, ISO 14044 *Environmental management – Life cycle assessment*, and ISO 21930 *Core rules for environmental product declarations of construction products and services.*

C. Quality Control Submittals:
   1. Asphalt Filler & Emulsion: Plant name and location of asphalt concrete supplier.
   2. Geotextile: Certification from Manufacturer that material meets MARV requirements and specifications.

1.06 QUALITY ASSURANCE

A. Asphalt Filler & Emulsion: Comply with the applicable requirements of DOT Section 400-Bituminous Pavements.

PART 2 PRODUCTS

2.01 MATERIALS

A. Asphalt Filler: DOT Table 702-2 Asphalt Cements, Material Designation 702-0700.

B. Asphalt Emulsion Tack Coat: DOT Section 702, Table 702-9, Material Designation 702-90.

C. Asphalt Concrete Top Course: As specified in Section 321216.

PART 3 EXECUTION

3.01 PREPARATION

A. Conditioning of Existing Pavement: Comply with DOT Section 633.

B. Applying Asphalt Emulsion Tack Coat: Comply with DOT Section 407-3.

C. Cold Milling: Comply with DOT Section 490.

3.02 RESURFACING WITH ASPHALT CONCRETE

A. Lay asphalt concrete top course in accordance with Section 321216.

END OF SECTION

SECTION 321216

ASPHALT PAVING

PART 1 GENERAL

1.01 REFERENCES

A. New York State Department of Transportation (DOT) Specification section 400 dated January 1, 2023.

B. AASHTO: M-288-17 Section A6, Paving Fabric.

1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Site Restoration: Section 310101.

B. Pavement Repair and Resurfacing: Section 320117.

1.03 SUBMITTALS

A. Product Data:
   1. A.Paving Synthetics: including Manufacturer's name, specifications, MSDS as required and installation instructions (including adhesion type and rate) for each item specified.
   2. Asphaltic Pavement: Include mix design from NYSDOT approved Batch Plant, Mix Design Test results that are less than 6 months old

B. Submit an Environmental Product Declaration (EPD) from the manufacturer for asphalt this specification section, if available. A statement of the contractor's good faith effort to obtain the EPD shall be provided if not available.
   1. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 *Environmental labels and declarations*, ISO 14044 *Environmental management – Life cycle assessment*, and ISO 21930 *Core rules for environmental product declarations of construction products and services.*

C. Batch plant name, NYSDOT Plant Number, and location of asphalt plant.

D. Pavement Quality Control Submittals: Material Delivery Tickets
   1. At the time of delivery, a copy of the delivery ticket must be presented to the Director's Representative with the following minimum information:
      a. Ticket Number.
      b. Plant Identification.
      c. Project Name.
      d. Mix Type.
      e. Quantity of material in vehicle.
      f. Date and Time.

1.04 PROJECT CONDITIONS

A. Environmental Requirements:
   1. Discontinue paving when surface temperatures fall below requirements listed in DOT Table 404-1 unless otherwise specified in the General Conditions of this Contract or as directed by the Director's Representative.
   2. Do not place asphalt concrete on wet surfaces, or when weather conditions otherwise prevent the proper handling or finishing of bituminous mixtures as determined by the Director's Representative.
   3. Pavement is restricted by dates listed in the General Conditions or by temperatures.

PART 2 PRODUCTS

2.01 MATERIALS

A. All aggregate used in design mixes shall be as specified in DOT Specification Section 401-2.02 B.; Coarse Aggregate Type F2 Conditions.

B. Asphalt: Use aggregate and PG binder from suppliers listed in the NYS DOT's Approved List for Fine and Coarse Aggregates and Performance Graded (PG) Binders for Warm Mix Asphalt (WMA) Technology for paving respectively. Use of mineral filler or any other materials for the production of asphalt will be accepted in accordance with the State's written instructions.

C. Supply approved asphalt mixtures that meet the requirements of NYS DOT MM 5.16 *Superpave Hot Mix Asphalt Mixture Design and Mixture Verification Procedures*. Each mixture must be obtained from a single plant for the duration of the project. The following NYS DOT items only shall be utilized for this project:
   1. 6.3 Top Course Asphalt (Driveways, Gutters).
   2. 25.0 Binder Course Asphalt.

D. Reclaimed Asphalt Pavement (RAP) will not be accepted.

E. Asphalt Cement Tack Coat.

PART 3 EXECUTION

3.01 PRE-CONSTRUCTION MEETING

A. The Director's Representative will conduct a Pre-Paving meeting prior to any Asphalt placement. The attendance at this meeting will include Contractor's Paving Superintendent, Chief Inspector or Paving Inspector(s), Asphalt plant representative, density gauge operator, depending on the compaction method used, and work zone traffic control (WZTC) competent person (if applicable). The contractor's Paving Superintendent must be prepared to discuss the operation

necessary to complete the work successfully. Participants will review all aspects of the project requirements including, but not limited to, the following:

1. Asphalt delivery temperature.
2. Equipment and setup.
3. Mix codes to ensure the correct mix is delivered.
4. Frequency of testing.
5. Density Gauge operator certification.
6. Proper construction practice to provide quality product.
7. Work zone traffic control activities necessary.

3.02 ASPHALT PAVING PLACEMENT & COMPACTION

A. Prepare existing surfaces in accordance with DOT Section 404-3.05, *Conditioning of Existing Surface*.

B. Apply Tack Coat in accordance with DOT Section 407-3.02, *Application of Tack Coat*, specifically Table 407-1 – Tack Coat Application Rates. The rates listed are recommended application rates for tack coat on various surfaces and may be modified by the Director's Representative.

C. Spread and Finish asphalt in accordance with DOT Section 404-3.06, *Spreading and Finishing*.

D. Provide compaction of asphalt in accordance with DOT Section 404-3.07, *Compaction*.

1. Paragraph D. 80 Series Compaction Methods, specifically meeting the minimum requirements as shown in Table 404-3 Number of Passes. The Director's Representative may increase or decrease the number of passes to obtain adequate density of the compacted HMA.
2. The Director's Representative may also approve alternate compaction procedures where the specified procedures are not applicable.
3. Testing to be performed at the direction of and in locations chosen by the Director's Representative. Target compaction is 95% (92% - 97% range is acceptable).

E. Asphalt joints shall be in accordance with DOT Section 404-3.09, *Joints*.

F. Construct each pavement course to a ¼" surface tolerance. The Director's Representative may test the surface with a 16-foot straight edge or string line placed parallel to the centerline of the pavement and with a 10-foot straight edge or string line placed transversely to the centerline of the pavement on any portion of the pavement. Variations exceeding ¼ inch will be appropriately corrected or the pavement be removed and replaced at no additional cost to the State.

G. The allowable thickness tolerance of all asphalt mixtures shall be:

1. 1/4 inch or less when the total nominal thickness indicated on the plans is 4 inches or less.
2. 1/2 inch or less when the total nominal thickness is over 4 inches but not more than 8 inches.
3. When the asphalt mixture is placed on newly constructed subbase material, an additional tolerance of 1/4 inch will be allowed both in the

nominal thickness of the course placed directly on the subbase and the total pavement thickness.

H. Remove and restore paved areas that are defective or contaminated as delineated by the Director's Representative at no additional cost to the State.

I. Do not clean tools and equipment used for asphalt placement on the pavement surface, or near streams, ponds, drainage structures or other areas that are tributaries to waterways. Use an area approved by the Director's Representative for cleaning all paving equipment and tools.

J. Once pavement cures for a minimum of 24 hours, apply pavement markings with mechanical equipment to a minimum wet film thickness of 15 mils (0.4 mm), or as specified by the Manufacturer if greater.

END OF SECTION

SECTION 323113

CHAIN LINK FENCE AND GATES

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Site Restoration: Section 310101.

1.02 PREINSTALLATION MEETING

A. Preinstallation Conference: Conduct conference at the project site with all parties involved with erecting the secure perimeter.
   1. Inspect and discuss electrical roughing in, equipment bases and other preparatory work specified elsewhere.
   2. Review coordination of rough and finish grading the site with work specified elsewhere.
   3. Review sequence of installation of fence and gates, including type of gate operator.
   4. Review required testing, inspection and certifying procedures.

1.03 REFERENCES

A. Comply with ASTM A 53 for requirements of Schedule 40 piping.

B. Welding Standards: “Structural Welding Code - Steel, AWS D1.1” or “Structural Welding Code - Sheet Steel, AWS D1.3”, as applicable, by the American Welding Society (AWS Codes).

C. Materials and Finishes Standard: ANSI/BHMA A156.18-2012, “American National Standard for Materials and Finishes”.

D. Electrical Components for Locking Devices and Electric Locks Standard: National Electric Code.

1.04 DEFINITIONS

A. Height of Fence: Distance measured from the top of finished grade to the top of fabric.

1.05 SUBMITTALS

A. Waiver of Submittals: The “Waiver of Certain Submittal Requirements” in Section 013300 does not apply to this Section.

B. Submit an Environmental Product Declaration (EPD) from the manufacturer for concrete and steel this specification section, if available. A statement of the contractor’s good faith effort to obtain the EPD shall be provided if not available.

1. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 *Environmental labels and declarations*, ISO 14044 *Environmental management – Life cycle assessment*, and ISO 21930 *Core rules for environmental product declarations of construction products and services.*

C. Shop Drawings: Complete detailed drawings, plans, elevations, sections and details for each height and style of fence and gate required. Include separate schedule for each listing all materials required and technical data such as size, weight, and finish, to ensure conformance to specifications.

D. Product Data: Manufacturer's catalog cuts, specifications, and installation instructions for each item specified.

E. Samples:
1. Fence Fabric: Minimum one square foot.
2. Fence and Gate Posts: One foot long each.
3. Miscellaneous Materials and Accessories: One each.
4. Provide material samples to the Director's Representative.

F. Re-Evaluation Fee: In accordance with Article 4.7 of the General Conditions, a re-evaluation processing fee will be levied against the Contractor for each re-evaluation of any Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content or format. There will be a fee of $250 levied against the Contractor for each re-evaluation of any Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content or format.

1.06 QUALITY ASSURANCE

A. Comply with standards of the Chain Link Fence Manufacturer's Institute.

B. Provide steel fence and related gates as a complete compatible system including necessary erection accessories, fittings, and fastenings.

C. Posts and rails shall be continuous without splices.

D. Concrete batching plants shall be currently approved as concrete suppliers by the New York State Department of Transportation.

1.07 DELIVERY

A. Coordinate delivery of anchors and other accessories to be built into other Work, to avoid delay. Furnish instructions and templates as required for accurate location.

B. The manufacturer of the prison lock keys shall notify the Director's Representative Lance Finnerty 607-869-5394 and the Deputy Superintendent for Administration atFinger Lakes Residential Center, Justin Mott 607-533-5055, a minimum of two days in advance of shipping keys. Ship all prison lock keys

direct from manufacturer, through the United States Postal Service, via Registered Mail, Restricted Delivery, Return Receipt Requested, to:

Deputy Superintendent for Administration
Finger Lakes Residential Center
250 Auburn Road
Lansing, NY 14882

1.08 UNIFORMITY OF DETENTION HARDWARE

A. Provide detention hardware specified in this section from the same manufacturer.

B. The existing equipment at Finger Lakes Residential Center is Folger Adam. Provide Folger Adam detention hardware specified in this section from Southern Folger Detention Equipment Company.

PART 2 PRODUCTS

2.01 COMPANIES

A. Hearne Steel Company, Inc. P.O. Box 1239 Hearne TX 77859, (979) 279-3464, www.hearnesteel.com.

B. Southern Folger Detention Equipment Company, 4634 South Presa St., San Antonio, TX 78223, (210) 533-1231, www.southernfolger.com.

C. R.R. Brink Locking Systems, Inc. 500 Earl Road, Sherwood, IL. 60431. (815) 744-7000, www.rrbrink.com

D. Tymetal Corporation, Inc., 678 Wilbur Avenue, Greenwich, NY 12834, (518) 692-9930, www.tymetal.com

E. Wheatland Tube Company, 700 South Dock Street, Sharon, PA 16161, (724) 342-6851, www.wheatland.com

2.02 PERFORMANCE REQUIREMENTS

A. Deflection Limits: Fence deflections shall be within the following limits:
1. Fabric Tension: Maximum 2 inches when tested by applying a 30 lbf force at midpoint between rails and horizontally between posts for every eighth lower panel along the fence line. Measure fabric movement from the relaxed position at the point where the force is applied.

2.03 MATERIALS

A. ASTM A1011 high-strength low-alloy steel strip/sheet steel (fy = 50 ksi):
1. WT-40 Fence Pipe by Wheatland Tube Company.

B. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

2.04 STEEL FRAMEWORK (FOR FENCES 6'-1" - 10'-0" HIGH)

A. End Posts, Corner Posts and Pull Posts:
   1. Pipe: 2.875 inches OD, 5.79 pounds per linear foot (Schedule 40).
   2. Class B Steel Tubing: 2.875 inches OD, 4.64 pounds per linear foot.

B. Line Posts:
   1. Pipe: 2.375 inches OD, 3.65 pounds per linear foot (Schedule 40).
   2. Class B Steel Tubing: 2.375 inches OD, 3.11 pounds per linear foot.

C. Light Posts:
   1. Pipe: 4 inches OD, 9.11 pounds per linear foot (Schedule 40).
   2. Class B Steel Tubing: 4 inches OD, 6.56 pounds per linear foot.

2.05 STEEL FABRIC

A. One-piece widths for fence heights up to 12'-0".

B. Chain link:
   1. 2-inch mesh, No. 9 gauge

C. Selvages:
   1. 2-inch mesh, Top edge and bottom edge twisted and barbed.

2.06 SWING GATE POSTS

A. Single width of gate 6'-0" to 12'-0" wide or over 10'-0" high:
   1. Pipe: 4 inches OD, 9.11 pounds per linear foot (Schedule 40).
   2. Class B Steel Tubing: 4 inches OD, 6.56 pounds per linear foot.

2.07 SWING GATE FRAMES

A. Height: 6'-0" - 12'-0", or leaf width exceeding 8'-0":
   1. Pipe: 1.90 inches OD, 2.72 pounds per linear foot (Schedule 40).
   2. Class B Steel Tubing: 1.90 inches OD, 2.28 pounds per linear foot.

B. Assemble gate frames by welding. Install mid-height horizontal rails on gates over 6 feet high. When width of gate leaf exceeds 10 feet, install mid-distance vertical bracing of the same size and weight as frame members. When either horizontal or vertical bracing is not required, provide truss rods as cross bracing to prevent sag or twist.

2.08 SWING GATE HARDWARE

A. Type "C" Gates:
   1. Hinges: Pressed Steel Offset 180-degree gate hinge item no. 014005 by Hearne Steel Company, Inc. or appropriate for use.
   2. Locks: Drop bar type complete with flush plate set in concrete. For double gates provide full height drop bar and keeper. Padlock eye shall be an integral part of latch construction.
      a. For single leaf gate latch – industrial steel latch Item No.

016424 for 2.875” post or Item No. 016427 for 4” post by Hearne Steel Company, Inc. or appropriate for use.

3. Holdbacks for Vehicle Gates: Type which automatically engages the gate leaf and holds it in open position until manually released.
4. Cast or malleable hardware is not acceptable.

2.09 FABRICATION AND MANUFACTURE

A. Do not ship the entire assembly from the fabricating shop to the galvanizer prior to QA inspection and approval by the State or designated inspection laboratory that the assembly is in conformance with the Contract Documents
   1. Remove steel mill stamp, loose mill scale, loose rust, weld slag and spatter, and other detrimental material in accordance with SSPC SP-2 “Hand Tool Cleaning”, SSPC SP-3 “Power Tool Cleaning”

B. At the galvanizer, thoroughly clean all steel prior to galvanizing the entire assembly. Remove oil, grease, and similar contaminants in accordance with SSPC SP-1 “Solvent Cleaning”, SSPC SP-2 “Hand Tool Cleaning”, SSPC SP-3 “Power Tool Cleaning”, SSPC SP-6 “Commercial Blast Clean” or SSPC SP-7 “Brush-Off Blast Cleaning”. A QA observation will be made by the State or designated inspection laboratory that the assembly has been prepared properly.

2.10 KEYING

A. Key locks as specified and incorporate a keying schedule into the hardware schedule for approval.
   1. Key changes shall be different from changes previously used at this Facility, except as noted.
   2. Record key changes, to avoid future unintended duplication.
   3. Furnish seven keys for each change, except as noted.
   4. Furnish extended shank keys when required.
   5. Key locks as follows: Furnish Director’s Representative with 2 keys per gate, each gate with one padlock.

2.11 MISCELLANEOUS MATERIALS AND ACCESSORIES

A. Rails and Post Braces:
   1. Pipe: 1.660 inches OD, 2.27 pounds per linear foot (Schedule 40).
   2. Class B Steel Tubing: 1.660 inches OD, 1.84 pounds per linear foot.

B. Fittings and Post Tops: Pressed Steel.
   1. Fasteners: Tamper-resistant cadmium plated steel screws or #10-8 x ½” round head grade 18-8 stainless steel U-drive screw, Item No. 0172734.

C. Stretcher Bars: One piece equal to full height of fabric up to 12 ft. high, above 12 ft. height, additional bars required, minimum cross-section 3/16 inch by 3/4 inch.

D. Metal Bands (for securing stretcher bars): Pressed Steel, 12-gauge minimum thickness with beveled edges.

E. Wire Ties: Conform to American Steel Wire gauges.
   1. For tying fabric to line posts, rails and braces: 9-gauge (.1483 inch) steel wire.
   2. For tying tension wire to fabric: 9-gauge (.1483 inch) galvanized steel hog rings.
   3. For splicing overlapped fabric at bottom rail: 9-gauge (.1483 inch) galvanized steel hog rings.

F. Truss Rods: 3/8-inch diameter with threaded end to be utilized with a pressed steel industrial truss rod tightener.

G. Cold Galvanizing Compound: Single component compound giving 93 percent pure zinc in the dried film, and meeting the requirements of DOD-P-21035A (NAVY).

H. Tension Wire: Galvanized 7-gauge coiled spring steel wire: ASTM A 824.

2.12 FINISHES

A. Steel Framework:
   1. Pipe: Galvanized in accordance with ASTM A 53, 1.8 ounces zinc per square foot.
   2. Square Tubing: Galvanized in accordance with ASTM A 123, 2.0 ounces zinc per square foot.
   3. Class B Steel Tubing: Exterior; 1.0 ounces zinc per square foot plus chromate conversion coating and clear polyurethane. Interior; zinc rich organic coating.

B. Fabric; one of the following:
   1. Galvanized Finish: ASTM A 392 class II zinc coated after weaving, with 2.0 ounces per square foot.
   2. Aluminized Finish: ASTM A 491 aluminum coated with 0.40 ounces per square foot.

C. Fence and Gate Hardware, Miscellaneous Materials, Accessories:
   1. Wire Ties and Hog Rings: Galvanized Finish, ASTM A 90 1.6 ounces zinc per square foot, or aluminized finish, ASTM A 809 0.40 ounces per square foot.
   2. Hardware and Miscellaneous Items: Galvanized Finish, ASTM A 153 (Table 1).
   3. Angle Beams, I Beams, and Steel Shapes: Galvanized in accordance with ASTM A 123, 2.0 ounces zinc per square foot.

PART 3 EXECUTION

3.01 PREPARATION

A. Begin installation of any fencing and or gates when rough grading has been completed within 4 inches of finish grading.

B. Clear and grub along fence line as required to eliminate growth interfering with alignment. Remove debris from State property.

3.02 INSTALLATION

A. Space posts equidistant in the fence line with a maximum of 10 feet on center. For fences 16 feet and higher space posts a maximum of 8 feet on center. Post spacing can be reduced to avoid underground utilities and returned spacing as soon as practical to standard spacing.

B. Brace assembled sections until permanently secured in place to prevent displacement or distortion of the members. Do not utilize welding methods, nails or screws in conjunction with metal bracing to support post when plumbing or securing posts that may damage galvanization.

C. If post tops or extension arms will not be installed prior to impending rain, provide temporary covers over tops of posts to prevent posts from filling with water.

D. Locate corner posts at corners and at changes in direction. Use pull posts at all abrupt changes in grade and at intervals no greater than 500 feet. On runs over 500 feet, space pull posts evenly between corner or end posts. On long curves, space pull posts so that the strain of the fence will not bend the line posts.

E. Install top rail continuously through post tops or extension arms, bending to radius for curved runs. Install expansion couplings as recommended by fencing manufacturers.

F. Install bottom and intermediate rails in one piece between posts and flush with post on fabric side using special offset fittings where necessary.

G. Diagonally brace corner posts, pull posts, end posts, and gate posts to adjacent line posts with truss rods and truss rod tighteners were fence lines have two or more-line posts.

H. Attach fabric to security side of fence. Maintain a 2-inch clearance above finished grade except when indicated otherwise. Thread stretcher bars through fabric using one bar for each gate and end post and 2 for each corner and pull post. Pull fabric tight so that the maximum deflection of fabric is 2 inches when a 30-pound pull is exerted perpendicular to the center of a panel. Maintain tension by securing stretcher bars to posts with metal bands spaced 15 inches oc. Fasten fabric to steel framework with wire ties spaced 12 inches oc for line posts and 24 inches oc for rails and braces. Bend back wire ends to prevent injury. Tighten stretcher bar bands, wire ties, and other fasteners securely.

1. Pre-formed ties to secure the fence fabric, the “pigtail” for all ties at the 8-foot-high level and below shall be bent down parallel with the fence posts and/or rails.

I. Position bolts for securing metal bands and hardware so nuts are located opposite the fabric side of fence. Tighten nuts and bend bolts downwards with a minimum angle of 30 degrees. Bend bolt ends of all bolts below a height of 8 feet to prevent loosening or removal of nuts.

J. Secure post tops and extension arms with tamper-resistant cadmium plated steel screws or #10-8 x ½" round head grade 18-8 stainless steel U-drive screws.

K. Install gates plumb and level and adjust for full opening without interference. Install ground-set items in concrete for anchorage, as recommended by fence manufacturer. Adjust hardware for smooth operation and lubricate where necessary.

L. Restore disturbed ground areas to original condition. Topsoil and seed to match adjacent areas.

3.03 FIELD QUALITY CONTROL

A. Perform the following tests:
   1. Chain Link Fabric Testing: Test fabric tension according to Article 2.02. Prepare test report and submit to Director's Representative.

B. Inspections of the following items to be performed by the Director's Representative, but not limited to:
   1. Verify approved shop drawings, product data, samples match materials on site.
      a. Verify selvages- top and bottom edge of chain link fabric is twisted and barbed.
      b. Posts and rails shall be continuous without splices.
   2. Verify the grades have been set before installing posts
   3. Verify post alignment, center of footing and spacing (vibrate concrete)
      a. Tickets for concrete batch plants meets specified concrete mix
      b. Finish grade of concrete should shed water
      c. Verify depth of fence and gate footings
      d. Brace posts until permanently set, no welding methods allowed to brace posts
      e. Install post tops prior to impending rain
   4. Schedule inspections at gate manufacturer, pre and post galvanization inspections to happen at the galvanizer.
   5. Coordinate locks and shipment of keys to the Facility Director
      a. Verify keying schedule.
   6. Swing Gates: Verify three hinges are installed with one flipped upside down per security standard.
   7. Install rails using offset fitting to keep chain link fabric flush on fabric side
   8. Chain Link Fabric installed on secure side
   9. 2-inch clearance above finished grade for bottom rail
   10. Max. deflection when a 30 lbs. pull is put on fabric

11. Verify steel ties are used to secure fabric rails and post, and proper number of twists and spacing have been performed
12. Nuts are located opposite the fabric (secure) side
13. Bend bolts min. 30 degrees towards ground below the 8 ft. height
14. Install gates plumb

3.04 ADJUSTING

A. Gates: Adjust operative units and equipment to work freely and easily, free of binding, warp, excessive deflection, distortion, nonalignment, disruption, or malefaction, throughout entire operational range. Confirm that latches and locks engage accurately and securely without forcing or binding.

END OF SECTION

Attenda® Space-Saver Bed

NORIX

SPECIFICATIONS

Model
ATN150
Weight
85 lbs
Note: Dimensional tolerances are +1% due to manufacturing process.

*Intended for indoor use only

Dimensions

Bed Deck Length	78"
Bed Deck Width	30"
Height	15"
Overall Length	80"
Overall Width	32"

Recommended Mattress
30"x79"

DETAILS

Finishes
See Design Guide for finish options.
*Due to differences in monitors, printers and materials, actual product colors may vary. Color chips are available for more accurate depiction of color.

Options
ATN153: No Mounting Holes

Assembly
None required

Patents
This product may be covered by US Patent Nos. US 8,007,059 B2 and US 10,507,150 B2.

Fabrication & Material
Slightly textured maintenance free surface allows for easy cleaning. Rotationally molded, specially formulated, high-impact polyethylene with ultraviolet light stabilizers (to reduce fading). Chemically resistant to blood, vinegar, urine, feces, salt solution and chlorine solution. Anti-ligature design with no internal openings. Premium TruColor™ material is fully compounded for superior color consistency and durability. Unit is filled with rigid polyurethane foam for increased durability and sound absorption. Made in the U.S.A.

Installation
Wedge anchors and 3/8" bolts required for permanently attaching to floor. Anchors and bolts not supplied by Norix. Groove along underside edge for caulk application (caulk not supplied by Norix).

Warranty
10 year limited replacement warranty. Norix recommends products placed in storage prior to installation should be held in a climate controlled area similar to the room where the product will be used. Norix also recommends that any Attenda® products shipped via ocean container maintain a temperature of 70-75°F with a Relative Humidity of 35%.

Maintenance
For routine and regular cleaning maintenance, Norix recommends the use of Simple Green® or an equivalent cleaning product. Attenda® products are bleach/water solution cleanable and suitable for use with hospital-grade disinfectants (such as Virex®, Wexcide® or Oxivir Five 16®) per manufacturers' instructions.

TESTING

Performance Test Standards
Product tested to 1,000 lbs static load

Environmental Test Standards
GREENGUARD and GREENGUARD Gold Certified by UL Environment. Product certified for low chemical emissions to UL 2818. UL.COM/GG.

Flammability Test Standards
Compliant with the following flammability standards:
- State of California, Technical Bulletin No. 133, Flammability Test Procedure for Seating Furniture for Use in Public Occupancies
- State of California, Technical Bulletin No. 117, Flammability Test Procedure for Seating Furniture for Use in Public Occupancies
- UL1056 Fire Test of Upholstered Furniture
- ASTM E1537 Test Method for Fire Testing of Real Scale Upholstered Furniture Items
- NFPA 261 Cigarette Ignition Resistance of Upholstered Furniture

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Attenda® Floor-Mount Desk

SPECIFICATIONS

Model
ATN601

Weight
48 lbs

*Intended for indoor use only

Dimensions

Width	35.6"
Depth	23.7"
Height	30.1"

Note: Dimensional tolerances are +1% due to manufacturing process.

DETAILS

Finishes
See Design Guide for finish options.
*Due to differences in monitors, printers and materials, actual product colors may vary. Color chips are available for more accurate depiction of color.

Assembly
None required

Patents
This product may be covered by US Patent No. US 8,007,059 B2.

Fabrication & Material
Base: Slightly textured, maintenance-free surface allows for easy cleaning. Rotationally molded, specially formulated, high-impact polyethylene with ultraviolet light stabilizers (to reduce fading). Chemically resistant to blood, vinegar, urine, feces, salt solution and chlorine solution. Anti-ligature design with no internal openings. Premium TruColor™ material is fully compounded for superior color consistency and durability. Unit is filled with rigid polyurethane foam for increased durability and sound absorption.
Top: 45 lb density M3 grade particle board with embedded T-nuts for mechanically attaching top to base with a secure steel-to-steel connection. Decorative high-pressure laminate sealed with a specially formulated, highly durable molded edge. Edge is radiused for safety and pressure fused to the top, making it highly sanitary. Made in the U.S.A.

Installation
See assembly instructions

Warranty
10 year limited replacement warranty. Norix recommends products placed in storage prior to installation should be held in a climate controlled area similar to the room where the product will be used. Norix also recommends that any Attenda® products shipped via ocean container maintain a temperature of 70-75°F with a relative humidity of 35%.

Maintenance
For routine and regular cleaning maintenance, Norix recommends the use of Simple Green® or an equivalent cleaning product. Attenda® products are bleach/water solution cleanable and suitable for use with hospital-grade disinfectants (such as Virex®, Wexcide® or Oxivir Five 16®) per manufacturers' instructions.

TESTING

Performance Test Standards
Product tested to 1,000 static load

Environmental Test Standards
GREENGUARD and GREENGUARD Gold Certified by UL Environment. Product certified for low chemical emissions to UL 2818. UL.COM/GG.

Flammability Test Standards
Compliant with the following flammability standards:
- State of California, Technical Bulletin No. 133, Flammability Test Procedure for Seating Furniture for Use in Public Occupancies
- State of California, Technical Bulletin No. 117, Flammability Test Procedure for Seating Furniture for Use in Public Occupancies
- UL1056 Fire Test of Upholstered Furniture
- ASTM E1537 Test Method for Fire Testing of Real Scale Upholstered Furniture Items
- NFPA 261 Cigarette Ignition Resistance of Upholstered Furniture

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Attenda® 3 Shelf Storage Unit

NORIX

SPECIFICATIONS

Model
ATN301
Weight
50 lbs

*Intended for indoor use only

Dimensions

Width	27"
Depth	13.8"
Height	53.3"
Total Volume	4.3 cu. ft.
Cubby Volume	1.4 cu. ft.

Note: Dimensional tolerances are +1% due to manufacturing process.

DETAILS

Finishes
See Design Guide for finish options.
*Due to differences in monitors, printers and materials, actual product colors may vary. Color chips are available for more accurate depiction of color.

Assembly
None required

Patents
This product may be covered by US Patent No. US 8,007,059 B2 and Patent Pending.

Fabrication & Material
Slightly textured maintenance free surface allows for easy cleaning. Rotationally molded, specially formulated, anti-ligature, high-impact polyethylene with ultraviolet light stabilizers (to reduce fading). Chemically resistant to blood, vinegar, urine, feces, salt solution and chlorine solution. Anti-ligature design with no internal openings. Premium TruColor™ material is fully compounded for superior color consistency and durability. Unit is filled with rigid polyurethane foam for increased durability and sound absorption. Made in the U.S.A.

Installation
Anchors required for permanently attaching to solid wall. Anchors not supplied by Norix. Groove along mounting surface for caulk application (caulk not supplied by Norix).

Warranty
10 year limited replacement warranty. Norix recommends products placed in storage prior to installation should be held in a climate controlled area similar to the room where the product will be used. Norix also recommends that any Attenda® products shipped via ocean container maintain a temperature of 70-75°F with a Relative Humidity of 35%.

Maintenance
For routine and regular cleaning maintenance, Norix recommends the use of Simple Green® or an equivalent cleaning product. Attenda® products are bleach/water solution cleanable and suitable for use with hospital-grade disinfectants (such as Virex®, Wexcide® or Oxivir Five 16®) per manufacturers' instructions.

TESTING

Environmental Test Standards
GREENGUARD and GREENGUARD Gold Certified by UL Environment. Product certified for low chemical emissions to UL 2818. UL.COM/GG.

Flammability Test Standards
Compliant with the following flammability standards:
- State of California, Technical Bulletin No. 133, Flammability Test Procedure for Seating Furniture for Use in Public Occupancies
- State of California, Technical Bulletin No. 117, Flammability Test Procedure for Seating Furniture for Use in Public Occupancies
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Attenda® Stool

SPECIFICATIONS

Model
ATN500
Weight
9.5 lbs

*Intended for indoor use only

Dimensions

Bottom Diameter	16.5"
Top Diameter	12"
Height	16"

Note: Dimensional tolerances are +1% due to manufacturing process.

DETAILS

Finishes
See Design Guide for finish options.
*Due to differences in monitors, printers and materials, actual product colors may vary. Color chips are available for more accurate depiction of color.

Assembly
None required

Patents
This product may be covered by US Patent No. US 8,007,059 B2.

Fabrication & Material
Slightly textured maintenance free surface allows for easy cleaning. Rotationally molded, specially formulated, anti-ligature, high-impact polyethylene with ultraviolet light stabilizers (to reduce fading). Chemically resistant to blood, vinegar, urine, feces, salt solution and chlorine solution. Anti-ligature design with no internal openings. Premium TruColor™ material is fully compounded for superior color consistency and durability. Unit is filled with rigid polyurethane foam for increased durability and sound absorption. Made in the U.S.A.

Installation
Anchors required for permanently attaching to floor. Anchors not supplied by Norix. Groove along mounting surface for caulk application (caulk not supplied by Norix).

Warranty
10 year limited replacement warranty. Norix recommends products placed in storage prior to installation should be held in a climate controlled area similar to the room where the product will be used. Norix also recommends that any Attenda® products shipped via ocean container maintain a temperature of 70-75°F with a Relative Humidity of 35%.

Maintenance
For routine and regular cleaning maintenance, Norix recommends the use of Simple Green® or an equivalent cleaning product. Attenda® products are bleach/water solution cleanable and suitable for use with hospital-grade disinfectants (such as Virex®, Wexcide® or Oxivir Five 16®) per manufacturers' instructions.

TESTING

Performance Test Standards
Product tested to 1,000 static load

Environmental Test Standards
GREENGUARD and GREENGUARD Gold Certified by UL Environment. Product certified for low chemical emissions to UL 2818. UL.COM/GG.

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- NFPA 261 Cigarette Ignition Resistance of Upholstered Furniture

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NEW YORK STATE OF OPPORTUNITY. Office of General Services

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STATEMENT OF SPECIAL INSPECTIONS

Project No.: Q1894

Instructions: BCNYS Section 1704.2.3 requires the project Design Professional to complete the Statement of Special Inspections *as a condition for issuance of the Construction Permit.* Complete each section of this form as applicable, and submit it to the Code Compliance Manager with the Summary of Special Inspections (BDC 406).

PROJECT INFORMATION:	**DESIGNER INFORMATION:**		**CONSTRUCTION INFORMATION**:	
Project Description: *(Project Title, Facility Name and Address)* Renovate 70 Bedroom Units, Harden Walls Finger Lakes Residential Center Lansing, NY	Architect/Engineer/Consultant: CHA Solutions		Engineer- In-Charge:	Region:
	Name of Person Completing Form: *(if different from above)* Mitchell Cheung		Name of Person Completing Form: *(if different from above)*	
	Phone: 347-768-1352	Date: 12/24/2024	Phone:	Date:
Business Unit: 4	Comments:		Comments:	
Team Leader: Tanya Thorne				

Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD	BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
	A. Steel Construction				1705.2			
☒	1. Structural steel.	☒	☒	AISC 360 Chapter N.5	1705.2, 1705.2.1	051201		
☒	2. Cold-formed steel deck.		☒	SDI QA/QC 2011	1705.2, 1705.2.2	054000		
☐	3. Installation of open-web steel joist and joist girders.		☐	SJI specification (Section 2207.1)	1705.2, 1705.2.3, 1705.2.4			
	B. Concrete Construction				1705.3			
☒	1. Inspection of reinforcing steel, including prestressing tendons, and placement.		☒	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1705.3, 1908.4	033001		

Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD	BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
	B. Concrete Construction				1705.3			
☐	2a. Reinforcing bar welding - Weldability of reinforcing bars other than ASTM A706.		☐	AWS D1.4; ACI 318: 26.6.4	1705.3, 1705.3.1			
☐	2b. Reinforcing bar welding - Single-pass fillet welds, maximum 5/16 inches.		☐	AWS D1.4; ACI 318: 26.6.4	1705.3, 1705.3.1			
☐	2c. Reinforcing bar welding - All other welds.	☐		AWS D1.4; ACI 318: 26.6.4	1705.3, 1705.3.1			
☐	3. Cast in concrete anchorage.		☐	ACI 318: 17.8.2	1705.3			
☐	4a. Post installed concrete members - Adhesive anchors installed horizontally or upwardly inclined to resist sustained tension loads.	☐		ACI 318: 17.8.2.4	1705.3			
☐	4b. Post installed concrete members - Mechanical anchors and adhesive anchors not defined in 4.a.		☐	ACI 318: 17.8.2				
☒	5. Verify use of required design mix.		☒	ACI 318: Ch. 19, 26.4.3, 26.4.4	1705.3, 1904.1, 1904.2, 1908.2, 1908.3	033001		
☒	6. Sampling fresh concrete: slump, air content, temperature, strength test specimens.	☒		ASTM C 172, ASTM C31; ACI 318: 26.4, 26.12	1705.3, 1908.10	033001		
☒	7. Inspect concrete and shotcrete placement for proper application techniques.	☒		ACI 318: 26.5	1705.3, 1908.6, 1908.7, 1908.8	033001		
☒	8. Inspection for maintenance of specified curing temperature and techniques.		☒	ACI 318: 26.5.3-26.5.5	1705.3, 1908.9	033001		
☐	9. Inspection of prestressed concrete.	☐		ACI 318: 26.10	1705.3			

Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD	BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
☐	10. Erection of precast concrete members.		☐	ACI 318: Ch. 26.8	1705.3			
☐	11. Verification of in-situ concrete strength prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and slabs.		☐	ACI 318: 26.11.2	1705.3			
☒	12. Inspect formwork for shape, location and dimensions of the concrete member being formed.		☒	ACI 318: 26.11.1.2(b)		033001		
☒	13. Material Tests – In absence of sufficient data or documentation for materials.		☒	ACI 318 Ch. 19 and 20		033001		
	C. Masonry Construction				1705.4			
☒	1. Masonry construction.	☒	☒	ACI 530/ ASCE 5/TMS 402 and ACI 530.1/ ASCE 6/TMS 602 Ch. 3	1705.4	042000		
☐	2. Empirically designed masonry, glass unit masonry and masonry veneer in Risk Category IV.		☐	TMS 402/ ACI530/ ASCE 5 Level B Ch. 3	1705.4.1, 2109, 2110, or Ch. 14			
☐	3. Vertical masonry foundation elements.	☐	☐		1705.4, 1705.4.2			
	D. Wood Construction				1705.5			
☐	1. Wood construction- Fabrication of wood structural elements and assemblies.		☐		1705.5, 1704.2.5			
☐	2. High-load Diaphragms.		☐		1705.5, 1705.5.1, 2306.2,1704.2			

Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD	BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
	D. Wood Construction				1705.5			
☐	3. Metal-plate-connected wood trusses spanning 60 feet or greater (temp. and perm. installation).		☐		1705.5.2			
	E. Soils				1705.6			
☒	1. Subgrade inspection.		☒		1705.6	310000		
☒	2. Classification and testing of compacted fill materials.		☒		1705.6	310000		
☒	3. Evaluation of in-place density and lift thickness.	☒			1705.6	310000		
☐	**F. Driven Deep Foundations** Installation and load tests (if applicable).	☐			1705.7			
☐	**G. Cast-In-Place Deep Foundations** Installation, end bearing strata, and load tests (if applicable).	☐			1705.8			
☐	**H. Helical Pile Foundation** Installation and load tests (is applicable).	☐			1705.9			
☐	**I. Fabricated Items**		☐		1705.10, 1704.2.5			
☐	**J. Wind Resistance** Applicable in Exposure Category B with a basic wind speed of 120 mph and Exposure Categories C or D with basic wind speed of 110 mph or greater.				1705.11			
☐	1a. Structural wood - Field gluing operation of elements of main wind force-resisting system (MWRS).	☐			1705.11.1			

Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD	BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
☐	**J. Wind Resistance** Applicable in Exposure Category B with a basic wind speed of 120 mph and Exposure Categories C or D with basic wind speed of 110 mph or greater.				1705.11			
☐	1a. Field Gluing	☐			1705.11.1			
☐	1b. Structural wood - Nailing, bolting, anchoring, and fastening elements of the MWRS.		☐		1705.11.1			
☐	2a. Cold formed steel - Welding operations of elements of MWRS.		☐		1705.11.2			
☐	2b. Cold formed steel - Screw attachments, bolting, anchoring, and fastening of elements of MWRS.		☐		1705.11.2			
☐	3. Wind-resisting components – Roof covering, roof deck, and roof framing connections. Exterior wall covering and wall connections to roof and floor diaphragms and framing.		☐		1705.11, 1705.11.3			
☐	**K. Special Inspections for Seismic Resistance** Applicable to specific structures, systems, and components.				1705.12			
☐	1. Structural steel - Seismic force-resisting systems & elements.	☐		AISC 341 Ch. J	1705.12.1.1 or 1705.12.1.2			
☐	2a. Structural wood - Field gluing operation of elements of seismic force-resisting system (SFRS).	☐			1705.12.2			
☐	2b. Structural wood - Nailing, bolting, anchoring, and fastening of elements of SFRS.		☐		1705.12.2			

Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD	BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
	K. Special Inspections for Seismic Resistance Applicable to specific structures, systems, and components.				1705.12			
☐	3. Cold-formed steel framing – welding and fasteners.		☐		1705.12.3			
☐	4. Designated seismic systems – verify that label, anchorage, and mounting conforms to the certificate of compliance.		☐	ASCE 7 Section 13.2.2	1705.12.4			
☐	5. Architectural components.		☐		1705.12.5			
☐	6. Plumbing, Mechanical and electrical components.		☐		1705.12.6			
☐	7. Storage racks and access floors.		☐		1705.12.7,			
☐	8. Seismic isolation systems.		☐		1705.12.8			
☐	9. Cold-formed steel special bolted moment frames.		☐		1705.12.9			
☐	**L. Structural Testing for Seismic Resistance** Applicable to specific structures, systems, and components.				1705.13			
☐	1. Structural steel.	☐	☐	AISC 341 Ch. J	1705.13.1			
☐	2. Nonstructural components.		☐	ASCE 7 Section 13.2.1	1705.13.2			
☐	3. Designated seismic systems.		☐	ASCE 7 Section 13.2.2	1705.13.3			

Check if Required	INSPECTION AND TESTING Continuous and Periodic as defined by the BCNYS	Continuous	Periodic	REFERENCE STANDARD	BCNYS REFERENCE	SPEC SECTION	COMMENTS	REGIONAL INSPECTION ASSIGNMENTS
	L. Structural Testing for Seismic Resistance Applicable to specific structures, systems, and components.				1705.13			
☐	4. Seismic isolation systems.		☐	ASCE 7 Section 17.8	1705.13.4			
	M. Sprayed Fire-Resistant Materials [BF]				1705.14			
☐	1. Physical and visual tests.		☐		1705.14.1			
☐	2. Structural member surface conditions.		☐		1705.14.2			
☐	3. Application.		☐		1705.14.3			
☐	4. Thickness.		☐	ASTM E 605	1705.14.4			
☐	5. Density.		☐	ASTM E 605	1705.14.5			
☐	6. Bond strength.		☐	ASTM E 736	1705.14.6			
☒	**N. Mastic and Intumescent Fire-Resistant Coatings [BF]**		☒	AWCI 12-B	1705.15	099101	Intumescent coating dry film thickness 4.0 mils	
☐	**O. Exterior Insulation and Finish Systems (EIFS)**		☐	ASTM E2570	1705.16			
☐	**P. Fire-Resistant Penetrations and Joints [BF]** High rise building or buildings assigned to risk category III or IV		☐	ASTM E2174 ASTM E2393	1705.17			
☐	**Q. Testing for Smoking Control [F]**		☐		1705.18			

NEW YORK STATE
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Office of Business Diversity

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CONTRACTOR'S MWBE UTILIZATION PLAN

☐ Revised Plan

Contract No.: _____

REMINDER: Utilize the New York State Contract System located at https://ny.newnycontracts.com/Default.asp?TN=ny&XID=8353 to report MWBE payments on a monthly basis. Making false representations or including information evidencing a lack of good faith as part of, or in conjunction with, the submission of a Utilization Plan is prohibited by law and may result in penalties including, but not limited to, termination of a contract for cause, loss of eligibility to submit future bids, and/or withholding of payments. Firms that do not perform commercially useful functions may not be counted toward MWBE utilization.

Contractor's Name, Address and Federal ID No.:	Contract Description/Location:	Date Proposal Approved:	Date Printed:	Bid Date:	MWBE GOALS	
					MBE%	WBE%
Federal ID No.:	Work/Job Order:	OGS Project Number:	Work Order Value:	Contract Amount:		

Certified MBE/WBE Name, Address and Phone No.	MBE	WBE	Tiered Sub	Description of Subcontracting/Supplies	Anticipated performance/purchase date(s)	Dollar Value of Subcontract/Supplies	FOR OGS USE ONLY	SEE BDC 328.1
Federal ID No.:	☐	☐	☐					☐
Federal ID No.:	☐	☐	☐					☐
Federal ID No.:	☐	☐	☐					☐
Federal ID No.:	☐	☐	☐					☐

Pursuant to Executive Law Article 15-A, my firm will engage in a good faith effort to achieve the MWBE goals on this contract.

Contractor's Signature:

Enter Name:

Title:

E-Mail Address: Date:

Contractor's Comments:

FOR OGS USE ONLY

☐ Accepted ☐ Accepted as Noted ☐ Notice of Deficiency Issued

MBE % _____ MBE $ _____ WBE % _____ WBE $ _____

OGS Authorized Signature:	Enter Name:	Date:

NEW YORK STATE | Office of General Services
Office of Business Diversity

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Albany, New York 12242
Phone: (518) 486-9284 FAX: (518) 486-9285

CONTRACTOR'S LIST OF SUBCONTRACTORS/SUPPLIERS

Contract No.

Contractor's Name, Address and Federal ID No.:	Project Description/Location:		Date Submitted:	Bid Date:	MWBE Goals		SDVOB Goal
					MBE	WBE	
Federal ID No.	☐ Construction Contracts Exceeding $100,000 ☐ Commodity or Service Contracts Exceeding $25,000		Submittal No.:	Contract Amount:			
Date Proposal Approved:	Date Printed:	OGS Project Number:	Work/Job Order:		Work Order Value:		

Subcontractor/Supplier Name, Address, Phone No., Federal ID No. (FEIN) and DOL No. *(Do not list information previously submitted.)*	Sub/Supplier *(Check One)*			MBE	WBE	SDVOB	General Description of Work	Subcontractor/ Supplier Dollar Value	**OGS Use Only**
	Sub	Tiered Sub	Supplier						
FEIN.: DOL No: - -CR	☐	☐	☐	☐	☐	☐			
FEIN.: DOL No: - -CR	☐	☐	☐	☐	☐	☐			
FEIN.: DOL No: - -CR	☐	☐	☐	☐	☐	☐			
FEIN.: DOL No: - -CR	☐	☐	☐	☐	☐	☐			

Pursuant to Executive Law Article 15-A and Article 3 of the Veterans' Services Law, my firm proposes to use the certified firms listed above.

Contractor's Signature

Title

Date

OGS Use Only

Proposed Goal Attainments:

MBE % _____ WBE % _____ SDVOB % _____

☐ Accepted ☐ Accepted as Noted ☐ Not Accepted

Reason: _____

OGS Authorized Signature _____ Date _____

Δ INDICATES REPLACEMENT DRAWING BY ADDENDUM. REMOVE OLD DRAWING AND INSERT NEW IN SET.

* INDICATES NEW DRAWING ADDED TO SET BY ADDENDUM.

● INDICATES REVISIONS TO THIS DRAWING, 3/16/92.

CONSTRUCTION

*G-1	PLOT PLAN	● Δ A-0	COVER SHEET (REVISED 3/16/92).	A-45	GYM/VOCATIONAL MISC. DETAILS	S-13	FIRST FLOOR FRAMING PLAN (HOUSING UNITS 3,4,5&6)
*G-2	PLOT PLAN	* A-1	OVERVIEW PLAN	* A-46	MISC. DETAILS	S-14	MECHANICAL LEVEL FRAMING PLAN (HOUSING UNITS 3,4,5&6)
*G-3	PLOT PLAN	Δ A-2	CELLAR PLAN, SECTIONS, DETAILS	A-47	DETAILS AT CLINIC	S-15	ROOF FRAMING PLAN (HOUSING UNITS 3,4,5&6)
*G-4	PLOT PLAN	Δ A-3	WAREHOUSE & KITCHEN WING PART FLOOR PLAN	A-48	FLOOR PATTERNS	S-16	FOUNDATION PLAN (HOUSING UNITS 7,8,9&10)
*G-5	PLOT PLAN	Δ A-4	ADMINISTRATION WING PART-FLOOR PLAN	A-48A	CELLAR STAIRS AEB PLANS, SECTIONS & ELEVATIONS	S-17	PIER AND COLUMN SCHEDULE (HOUSING UNITS 7,8,9&10)
*G-6	PLOT PLAN	Δ A-5	HOUSING UNIT (1&2)/HEALTH CLINIC PART-FLOOR PLAN	Δ A-49	DOOR SCHEDULE	S-18	MECHANICAL LEVEL FRAMING PLAN (HOUSING UNITS 7,8,9&10)
*G-7	PLOT PLAN	Δ A-6	HOUSING UNITS (3,4,5&6) PART-FLOOR PLAN	Δ A-50	DOOR SCHEDULE	S-19	ROOF FRAMING PLAN (HOUSING UNITS 7,8,9&10)
*G-8	PLOT PLAN	Δ A-7	HOUSING UNITS (7,8,9&10) PART-FLOOR PLAN	Δ A-51	DOOR SCHEDULE	S-20	FOUNDATION PLAN (GYMNASIUM/VOCATIONAL)
*G-9	PLOT PLAN	Δ A-8	GYMNASIUM/VOCATIONAL WING PART-FLOOR PLAN	Δ A-52	DOOR SCHEDULE	S-21	PIER AND COLUMN SCHEDULE (GYMNASIUM/VOCATIONAL)
*G-10	PLOT PLAN	Δ A-9	VOCATIONAL WING PART-FLOOR PLAN	Δ A-53	DOOR SCHEDULE	S-22	MECHANICAL LEVEL FRAMING PLAN (GYMNASIUM/VOCATIONAL)
*G-11	PLOT PLAN	A-10	WAREHOUSE AND KITCHEN WING REFLECTED CEILING PLAN AND DETAILS	Δ A-54	DOOR SCHEDULE	S-23	ROOF FRAMING PLAN (GYMNASIUM/VOCATIONAL)
*G-12	SCHEDULE SANITARY STRUCTURES	A-11	ADMINISTRATION WING REFLECTED CEILING PLAN	A-55	DOOR DETAILS	S-24	FOUNDATION PLAN (VOCATIONAL)
*G-13	SCHEDULE DRAINAGE STRUCTURES	A-12	HOUSING UNITS (1&2)/HEALTH CLINIC WING REFLECTED CEILING PLAN	A-56	DOOR DETAILS	S-25	ROOF FRAMING PLAN, COLUMN &PIER SCHEDULE (VOCATIONAL)
*G-14	SANITARY SYSTEM DETAILS	A-13	HOUSING UNITS (3,4,5&6) REFLECTED CEILING PLAN	Δ A-57	ROOM FINISH SCHEDULE	S-26	TYPICAL FOUNDATION SECTIONS AND DETAILS
*G-15	DRAINAGE SYSTEM DETAILS	A-14	HOUSING UNITS (7,8,9&10) REFLECTED CEILING PLAN	A-58	ROOM FINISH SCHEDULE	S-27	FOUNDATION SECTIONS AND DETAILS (WAREHOUSE/KITCHEN)
*G-16	WATER SYSTEM DETAILS	A-15	GYMNASIUM/VOCATIONAL WING REFLECTED CEILING PLAN	A-59	ROOM FINISH SCHEDULE	Δ S-28	FOUNDATION SECTIONS AND DETAILS (HOUSING UNITS 3,4,5&6)
*G-17	FIRE POND AND APPURTENANCES DETAILS	A-16	ROOF PLAN-A AND DETAILS	A-60	ROOM FINISH SCHEDULE	S-29	FOUNDATION SECTIONS AND DETAILS (HOUSING UNITS 3,4,5&6)
*G-18	MISCELLANEOUS DETAILS	A-17	ROOF PLAN-B AND DETAILS	A-61	ROOM FINISH SCHEDULE	S-30	TYPICAL STRUCTURAL SECTIONS AND DETAILS
X-X	XXXXX	A-18	ROOF PLAN-C AND DETAILS	A-62	ROOM FINISH SCHEDULE	S-31	RIGID FRAME DETAILS (ADMINISTRATION)
L-S1	SITE PLAN AND GRADING PLAN	A-19	ROOF & COLUMN DETAILS	A-63	ROOM FINISH SCHEDULE	Δ S-32	RIGID FRAME DETAILS (HOUSING UNITS)
L-S1A	SITE PLAN AND GRADING PLAN	A-20	ROOF, COLUMN & SIDING DETAILS	*A-64	ROOM FINISH SCHEDULE	S-33	RIGID FRAME DETAILS (GYMNASIUM/VOCATIONAL UNITS)
L-S1B	SITE PLAN AND GRADING PLAN	A-21	ROOF & SIDING DETAILS	* A-65	TEACHER'S WORKROOM & LIBRARY	Δ S-34	TRUSS DETAILS (ADMINISTRATION)
● Δ L-S2	SITE PLAN AND GRADING PLAN	A-21A	ROOF DETAILS	* A-66	MILLWORK & DETAILS	S-35	TRUSS DETAILS (HOUSING UNITS)
L-S2A	SITE PLAN AND GRADING PLAN	A-21B	ROOF & SIDING DETAILS	* A-67	SMOKE PARTITIONS	S-36	TRUSS DETAILS (HOUSING UNITS)
L-S3	SITE PLAN AND GRADING PLAN	* A-21C	ROOF DETAILS	*A-68	PARTITION DETAILS	S-37	STRUCTURAL SECTIONS AND DETAILS (WAREHOUSE/KITCHEN)
Δ L-S4	PLAN AND DETAILS COURTYARD NO.1	A-22	ELEVATIONS			* S-38	STRUCTURAL SECTIONS AND DETAILS (ADMINISTRATION)
Δ L-S5	PLAN AND DETAILS COURTYARD NO.2 & 7	A-23	ELEVATIONS			* S-39	STRUCTURAL SECTIONS AND DETAILS (HOUSING 1&2/HEALTH CLINIC)
Δ L-S6	PLAN AND DETAILS COURTYARD NO.3 & 6	A-24	ELEVATIONS			* S-40	STRUCTURAL SECTIONS AND DETAILS (HOUSING/GYMNASIUM/VOCATIONAL)
Δ L-S7	PLAN AND DETAILS COURTYARD NO.4	A-25	ELEVATIONS			* S-41	STRUCTURAL SECTIONS AND DETAILS (GYMNASIUM/VOCATIONAL)
*L-S8	PLAN AND DETAILS COURTYARD NO.5	A-26	ELEVATIONS			* S-42	STRUCTURAL SECTIONS AND DETAILS (GYMNASIUM/VOCATIONAL)
*LS-9	PLAN AND DETAILS DINING COURT	A-27	WAREHOUSE AND KITCHEN WING BUILDING ELEVATIONS			* S-43	STRUCTURAL SECTIONS AND DETAILS (GYMNASIUM/VOCATIONAL)
L-L1	LAYOUT PLAN	A-28	BUILDING SECTIONS-CLINIC/ADMINISTRATION			S-44	STEEL ELEVATIONS (WAREHOUSE/KITCHEN)
● Δ L-L2	LAYOUT PLAN	Δ A-29	BUILDING SECTIONS & WAREHOUSE, FOOD SERVICE & ADMINISTRATION	F-1	FOOD SERVICE EQUIPMENT LAYOUT AND SCHEDULE	* S-45	STEEL ELEVATIONS (ADMINISTRATION)
L-L3	LAYOUT PLAN	A-30	HOUSING/GALLERY BUILDING SECTIONS	F-2	FOOD SERVICE EQUIPMENT ELEVATIONS AND DETAILS	* S-46	STEEL ELEVATIONS (HOUSING UNITS 1&2/HEALTH CLINIC)
L-L4	LAYOUT DATA AND ROAD PROFILE	A-31	GYM/VOCATIONAL BUILDING SECTIONS & DETAILS			S-47	STEEL ELEVATIONS (HOUSING UNITS 3,4,5&6/7,8,9&10)
L-P1	PLANTING PLAN	A-32	UPPER LEVEL MECHANICAL ROOM PLANS	S-B.1	SUBSURFACE AND EARTHWORK INFORMATION	* S-48	STEEL ELEVATIONS (GYMNASIUM/VOCATIONAL)
L-P2	PLANTING PLAN	A-32A	UPPER LEVEL MECHANICAL ROOM PLANS & SECTIONS	S-B.2	SUBSURFACE AND EARTHWORK INFORMATION		
L-P3	PLANTING PLAN	A-33	TOILET ROOMS PLANS, ELEVATIONS DETAILS	S-B.3	CELLAR EXCAVATION AND DRAINAGE PLAN		
L-P4	PLANT LIST AND DETAILS	A-34	TOILET ROOMS PLANS,ELEVATIONS DETAILS	S-1	FOUNDATION PLAN (WAREHOUSE/KITCHEN)		
L-D1	ROAD SECTIONS, EARTH BENCHING, CONCRETE MONUMENT	A-35	TOILET ROOMS, PLANS, ELEVATIONS DETAILS	S-2	PIER AND COLUMN SCHEDULE (WAREHOUSE/KITCHEN)		
Δ L-D2	PAVEMENT, CURB, UNDERDRAIN AND JOINT DETAILS	A-36	HOUSING UNITS FURNITURE LAYOUT DETAILS	S-3	ROOF FRAMING PLAN (WAREHOUSE/KITCHEN)		
L-D3	MISCELLANEOUS DETAILS	A-37	ENLARGED PLANS & DETAILS	S-4	FOUNDATION PLAN (ADMINISTRATION WING)		
L-D4	ATHLETIC FACILITY DETAILS	A-38	DINING HALL AND LOBBY ELEVATIONS AND DETAILS	S-5	PIER AND COLUMN SCHEDULE (ADMINISTRATION WING)		
*L-D5	FENCE DETAILS	● A-38A	CELLAR SECTIONS & DETAILS (NEVER ISSUED)	Δ S-6	ROOF FRAMING PLAN (ADMINISTRATION WING)		
*L-D6	SALLYPORT DETAILS	A-39	CLINIC/ADMINISTRATION WALL & CLERESTORY SECTIONS	S-7	FOUNDATION PLAN (HOUSING UNIT 1&2/ HEALTH CLINIC)		
*L-D7	SALLYPORT DETAILS	A-40	GALLERY WALL SECTIONS & MISC. DETAILS	S-8	PIER AND COLUMN SCHEDULE (HOUSING UNIT 1&2/HEALTH CLINIC)		
*L-D8	MANUAL SLIDE GATE DETAILS	A-41	WALL & CLERESTORY SECTIONS	S-9	MECHANICAL LEVEL FRAMING PLAN (HOUSING UNIT 1&2/HEALTH CLINIC)		
*L-D9	MANUAL SIDE GATE DETAILS	Δ A-42	MISC DETAILS & FOOD SERVICE	S-10	ROOF FRAMING PLAN (HOUSING UNIT 1&2/HEALTH CLINIC)		
*L-D10	MISCELLANEOUS DETAILS	* A-43	MISC. DETAILS & WAREHOUSE, FOOD SERV. & MAINT. GAR.	Δ S-11	FOUNDATION PLAN (HOUSING UNITS 3,4,5&6)		
*L-D11	MISCELLANEOUS DETAILS	Δ A-44	WAREHOUSE & KITCHEN WING COLUMN DETAILS	S-12	PIER AND COLUMN SCHEDULE (HOUSING UNITS 3,4,5&6)		

LOUIS GOSSETT JR.

LIMITED SECURE RESIDENTIAL FACILITY

DIVISION FOR YOUTH
LANSING, NEW YORK

PROJECT No. 38317- C,H,P,E

STATE OF NEW YORK DIVISION FOR YOUTH
LEONARD G. DUNSTON, DIRECTOR

H.V.A.C.

H-1	SYMBOLS, ABBREVIATIONS & DETAILS
H-2	DETAILS
H-3	DETAILS
H-4	WIRING DIAGRAMS
H-5	PIPING SCHEMATICS
H-6	SCHEDULES
H-7	SCHEDULES
H-8	WAREHOUSE & KITCHEN WING PART FLOOR PLAN DUCTWORK
H-9	WAREHOUSE & KITCHEN WING PART FLOOR PLAN PIPING
H-10	ADMINISTRATION WING PART FLOOR PLAN DUCTWORK
H-11	ADMINISTRATION WING PART FLOOR PLAN PIPING
H-12	DINING AREA PART FLOOR PLAN
H-13	HOUSING UNITS 1&2 AND HEALTH CLINIC WING PART FLOOR PLAN
H-14	HOUSING UNITS 1&2 AND HEALTH CLINIC WING PART FLOOR PLAN PIPING
H-15	HOUSING 3,4,5,6 DUCTWORK
H-16	HOUSING 3,4,5,6 PART FLOOR PLAN PIPING
H-17	HOUSING 7,8,9,10 DUCTWORK
H-18	HOUSING 7,8,9,10 PART FLOOR PLAN PIPING
H-19	SECTIONS HOUSING MUL
H-20	GYMNASIUM/VOCATIONAL WING PART FLOOR PLAN DUCTWORK
H-21	GYMNASIUM/VOCATIONAL WING PART FLOOR PLAN PIPING
H-22	BASEMENT PLAN DUCTWORK
H-23	BASEMENT PLAN PIPING
H-24	SITE PLAN UNDERGROUND CHILLED WATER DISTRIBUTION
H-25	PIPING DETAILS
H-26	PIPE SUPPORT DETAILS
H-27	CATWALK DETAILS AND SPINE ELEVATIONS

PLUMBING

P-1	PART SITE PLAN, SYMBOLS, ABBREVIATIONS & SCHEDULE
P-2	CELLAR, PART PLANS & DETAILS
P-3	PART FLOOR PLAN MAINTENANCE/GARAGE/WAREHOUSE & KITCHEN
P-4	PART FLOOR PLAN ADMINISTRATION WING
P-5	PART FLOOR PLAN - HOUSING UNITS 1&2 VISITORS HEALTH CLINIC WING
P-6	PART FLOOR PLAN - HOUSING UNITS 3,4,5&6
P-7	PART FLOOR PLAN - HOUSING UNITS 7,8,9&10
P-8	PART FLOOR PLAN - GYMNASIUM WING
P-9	PART FLOOR PLAN - VOCATIONAL WING MAIN SPINE & CROSSOVER PIPING SUPPORT DETAILS, PIPE SPACE ELEVATIONS
P-10	PART ROOF PLAN
P-11	PART ROOF PLAN
P-12	PART FLOOR PLAN & DETAILS GARAGE/WAREHOUSE
P-13	PART FLOOR PLAN KITCHEN AREA
P-14	KITCHEN AREA DETAILS & ELEVATIONS
P-15	ADMINISTRATION WING PART PLANS & ELEVATIONS
P-16	PART PLANS HEALTH/VISITORS
P-17	HEALTH/VISITORS WING ELEVATIONS & DETAILS
P-18	HOUSING UNITS PART PLANS & ELEVATIONS
P-19	GYMNASIUM WING PART FLOOR PLAN & ELEVATIONS
P-20	GYM/VOCATIONAL WING PART FLOOR PLAN & ELEVATIONS
P-21	VOCATIONAL WING PART FLOOR PLAN & ELEVATIONS
P-22	FUEL SYSTEM DETAIL & SECTIONS
P-23	SPRINKLER WORK CELLAR PLAN & DETAILS
P-24	SPRINKLER WORK PART FLOOR PLAN KITCHEN/WAREHOUSE
P-25	SPRINKLER WORK PART FLOOR PLAN ADMINISTRATION WING
P-26	SPRINKLER WORK - PART FLOOR PLAN HOUSING UNIT 1&2 & HEALTH CLINIC MEDICAL UNIT
P-27	SPRINKLER WORK PART FLOOR PLAN HOUSING UNITS 3,4,5&6
P-28	SPRINKLER WORK PART FLOOR PLAN HOUSING UNITS 7,8,9&10
P-29	SPRINKLER WORK PART FLOOR PLAN VOCATIONAL WING/GYM
P-30	SPRINKLER WORK PART FLOOR PLAN VOCATIONAL WING

ELECTRICAL

E-1	KEY PLAN, SYMBOLS & ABBREVIATIONS
E-2	SITE PLAN - POWER & SIGNAL
E-3	SITE PLAN - LIGHTING
E-4	SITE PLAN - SECURITY SYSTEM
E-5	FLOOR PLAN - WAREHOUSE/KITCHEN WING - LIGHTING
E-6	FLOOR PLAN - WAREHOUSE/KITCHEN WING - POWER
E-7	FLOOR PLAN - WAREHOUSE/KITCHEN WING - SIGNAL
E-8	FLOOR PLAN - ADMINISTRATION AREA - LIGHTING
E-9	FLOOR PLAN - ADMINISTRATION AREA - POWER
E-10	FLOOR PLAN - ADMINISTRATION AREA - SIGNAL
E-11	FLOOR PLAN - UNITS 1&2, HEALTH UNIT - LIGHTING
E-12	FLOOR PLAN - UNITS 1&2, HEALTH UNIT - POWER
E-13	FLOOR PLAN - UNITS 1&2, HEALTH UNIT - SIGNAL
E-14	FLOOR PLAN - UNITS 3,4,5&6 - LIGHTING
E-15	FLOOR PLAN - UNITS 3,4,5&6 - POWER
E-16	FLOOR PLAN - UNITS 3,4,5&6 - SIGNAL
E-17	FLOOR PLAN - UNITS 7,8,9&10 - LIGHTING
E-18	FLOOR PLAN - UNITS 7,8,9&10 - POWER
E-19	FLOOR PLAN - UNITS 7,8,9&10 - SIGNAL
E-20	FLOOR PLAN - GYMNASIUM/VOCATIONAL AREA - LIGHTING
E-21	FLOOR PLAN - GYMNASIUM/VOCATIONAL AREA - POWER
E-22	FLOOR PLAN - GYMNASIUM/VOCATIONAL AREA - SIGNAL
E-23	BASEMENT PLAN - LIGHTING, POWER & SIGNAL
E-24	ENLARGED FLOOR PLAN - CONTROL ROOMS
E-25	POWER PANELBOARD SCHEDULES
E-26	LIGHTING PANELBOARD SCHEDULES
E-27	FIRE PROTECTIVE SIGNALING SYSTEM ONE-LINE DIAGRAMS
E-28	POWER AND LIGHTING CONTROL ONE-LINE DIAGRAMS
E-29	COMMUNICATION AND VIDEO ONE-LINE DIAGRAMS
E-30	SECURITY AND DOOR LOCKING ONE-LINE DIAGRAMS
E-31	GENERATOR BUILDING, SITE AND FLOOR PLANS
E-32	GENERATOR BUILDING DETAILS
E-33	SEWAGE TREATMENT BUILDING SITE PLAN AND DETAILS
E-34	DETAILS
E-35	DETAILS, TEMPORARY LIGHT AND POWER
E-36	DETAILS

STATE OF NEW YORK
OFFICE OF GENERAL SERVICES
JOHN F. HUDACS
COMMISSIONER

EXECUTIVE DEPARTMENT
DESIGN AND CONSTRUCTION
RAYMOND W. CASEY
EXECUTIVE DIRECTOR

DIVISION OF DESIGN
WILLIAM F. O'CONNOR, R.A.
DIRECTOR

REVISED 3/16/92
ADDENDUM DRAWING 12/30/91
REPLACES DRAWING A-0

A-0

PLAN FILE No. 91/102

CODE SUMMARY

OCCUPANCY

OCCUPANCY CLASSIFICATION C6.3

CONSTRUCTION CLASSIFICATION

TYPE 2a (NON-COMBUSTIBLE)

CODE COMPLIANCE

NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE

AMERICAN CORRECTIONAL ASSOCIATION (ACA)
STANDARDS FOR JUVENILE TRAINING SCHOOLS 3rd ED.

NFPA 101 - LIFE SAFETY CODE, 1988

AMERICANS WITH DISABILITIES ACT (ADA)
ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES, PROPOSED RULE

ENERGY CODE SUMMARY

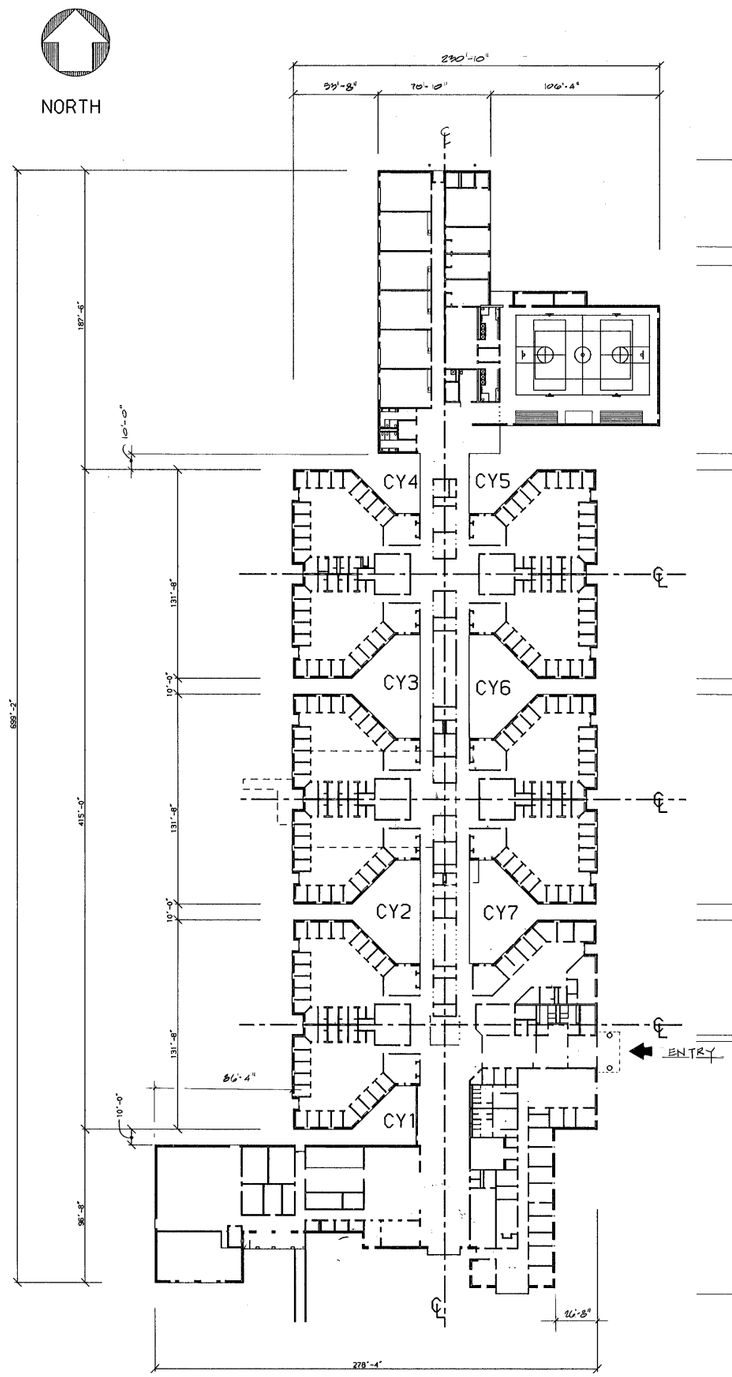
CODE COMPLIANCE

N.Y.S. ENERGY CONSERVATION CONSTRUCTION CODE

DESIGN COMPLIANCE

COMPLIANCE WITH PART 4 - BUILDING DESIGN BY COMPONENT PERFORMANCE

BLDG. COMPONENT	REQUIRED VALUE	ACTUAL VALUE
WALLS	MAX. U = 0.20	U = 0.185
ROOF	MAX. U = 0.05	U = 0.048
FOUNDATION WALLS	MIN. R = 5.00	R = 10.00
SLAB EDGE	MIN. R = 5.00	R = 5.00



VOCATIONAL WING CONTINUED
(DRAWING A-9)

GYMNASIUM / VOCATIONAL WING
(DRAWING A-8)

HOUSING UNITS 7,8,9 & 10
(DRAWING A-7)

HOUSING UNITS 3,4,5 & 6
W/ CELLER
(DRAWING A-2)
(DRAWING A-6)

HOUSING UNITS 1 & 2 /
HEALTH CLINIC
(DRAWING A-5)

ADMINISTRATION WING
(DRAWING A-4)

WAREHOUSE / KITCHEN WING
(DRAWING A-3)

ADDENDUM DWG -12/30/91
(NEW DRAWING)

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

REGISTERED ARCHITECT RAYMOND ERNEST WEBSTER NEW YORK ARC 012101 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

OVERVIEW PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

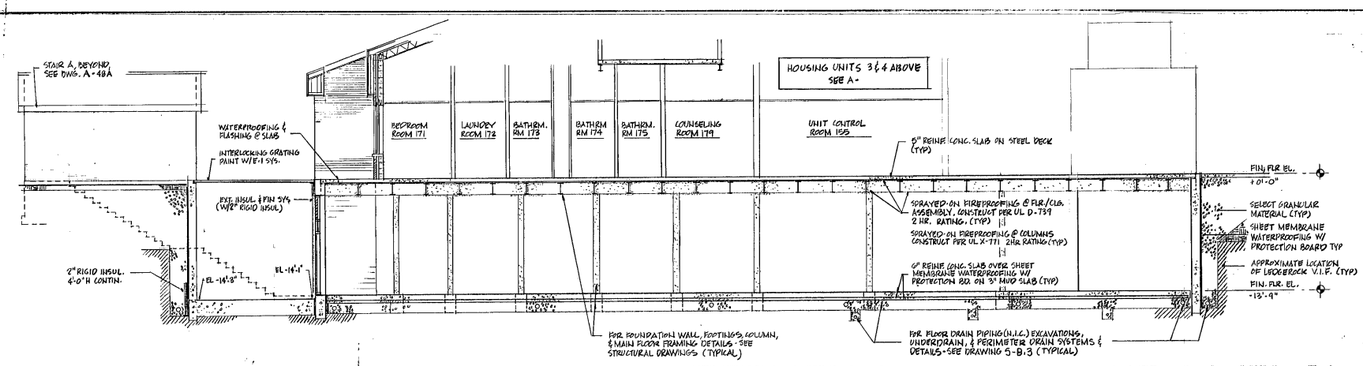
DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D.SCOTT	12/30/91	NONE	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

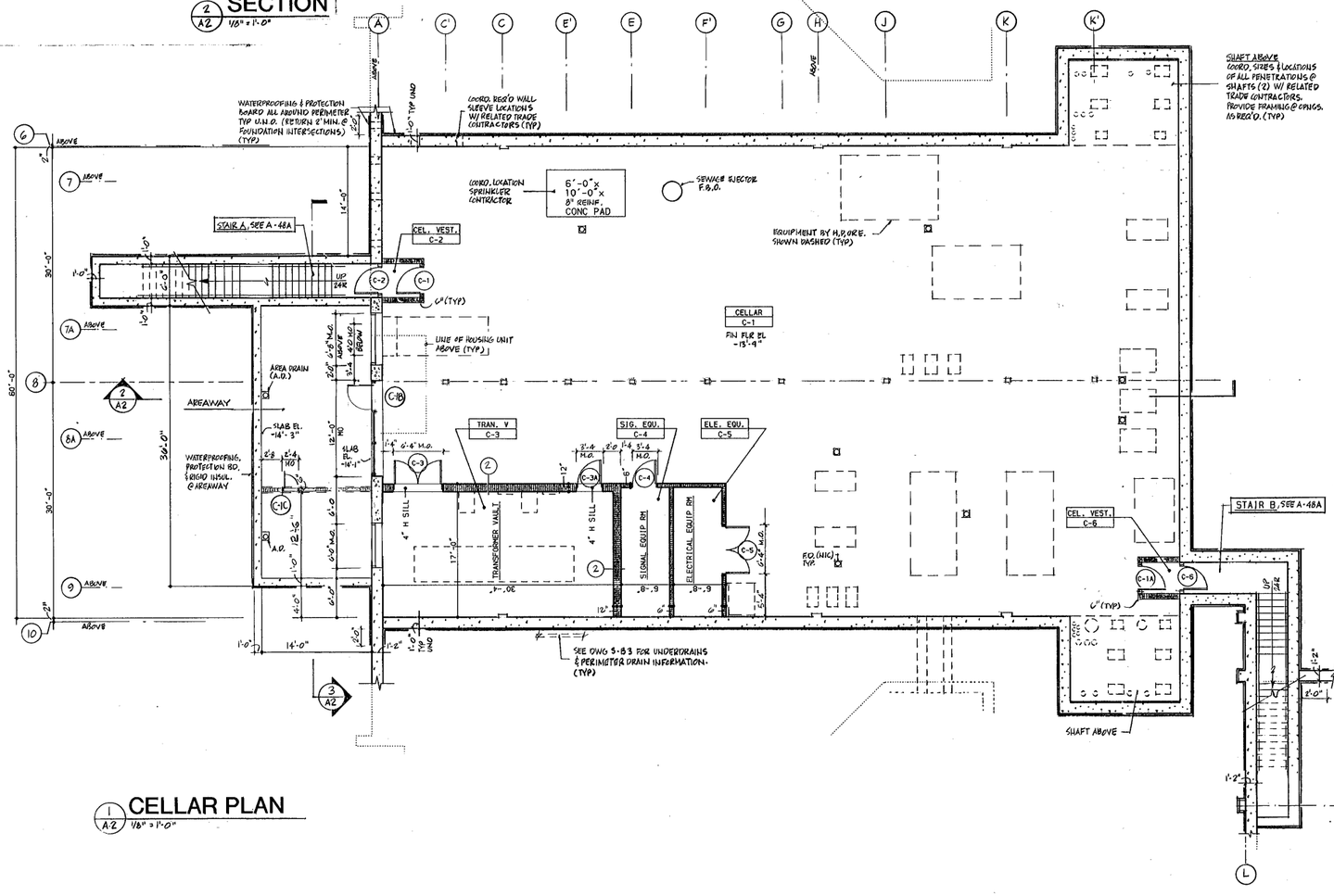
APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	A-1 ADDENDUM DRAWING
	PLAN FILE NO. 91/101

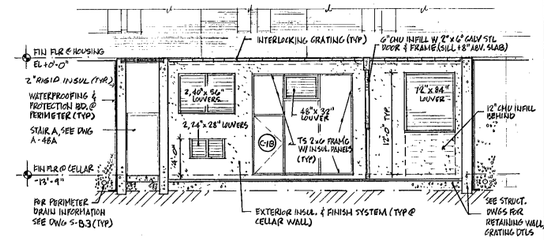
30 DEC 1991 08:42:38 JOHN.THOMPSON /USERS/JOHN/ARCH/38317A1.DFT/10.38317A1.10/8_1/1.PLWS



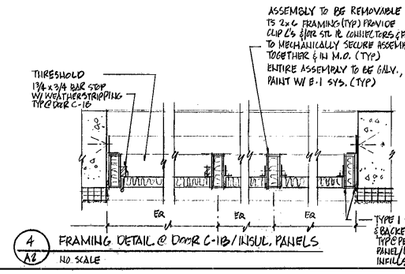
2/A2 SECTION
1/8" = 1'-0"



1/A-2 CELLAR PLAN
1/8" = 1'-0"



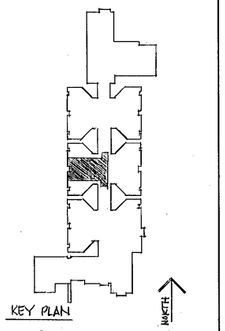
3/A2 SECTION
1/8" = 1'-0"



4/A2 FRAMING DETAIL @ DOOR C-1B / INSUL. PANELS
NO SCALE

NOTES

1. FIN. FLOOR REFERENCE ELEV. 0'-0" EQUALS 989.50' USGS DATUM.
2. SEE NOTE 3, DWG 5-B.3 REGARDING EXCAVATIONS REQ'D FOR PIPING.
3. ALL INTERIOR MASONRY SHALL TERMINATE @ UNDERSIDE OF STRUCTURE. PROVIDE LINTELS AS REQ'D @ PENETRATIONS. PROVIDE FIRESAFING INSUL. @ JUNCTURES W/ STRUCTURE & @ PENETRATIONS AS REQ'D.
4. EITHER FLOOR/CEILING ASSEMBLY TO RECEIVE SPRAYED ON FIREPROOFING AS INDICATED FOR 2 HR RATING, EXCEPT TRANSFORMER VAULT C-3 - 3 HR RATING.
5. INSTALL LOUVERS USING MANUFACTURER'S STANDARD CANTILEVERED L's @ PERIMETER. FASTENER SPACING 6" O.C. TYP.



ADDENDUM DWG - 12/30/91
(REPLACES DRAWING A-2)

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REGISTERED ARCHITECT RAYMOND ERNEST WEBSTER ARC 012701 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

CELLAR PLAN
SECTIONS, DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND M. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

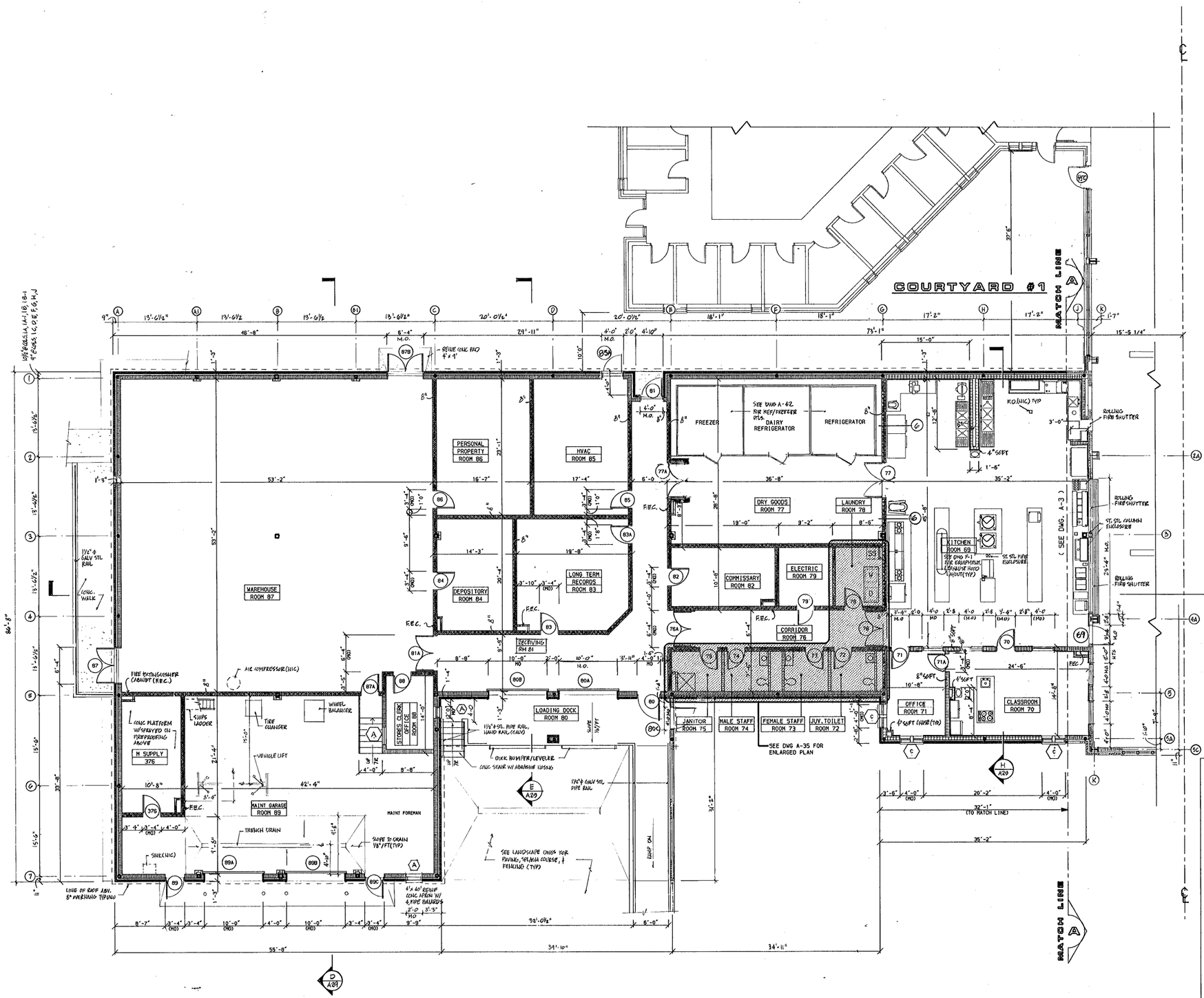
DESIGNED BY	DATE	SCALE	APPROVED
D.S. R.T.	12/30/91	AS NOTED	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A. MORRIS	RT		—

APPROVED BY DIVISION FOR YOUTH

DATED 11/27/91 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	A-2 ADDENDUM DRAWING
	PLAN FILE NO. 91/102

VINCE.MORRISON 28 NOV 1991 13:24:17 -USERS:[VINCE.MORRISON.ADDS]A-2ADD.DFT/VU, 38317-C/1/1/1_PL.PLANS



NOTES

1. FIN. FLR REF ELEV. 0'-0" EQUALS 999.50' USGS DATUM
2. SEE BLDG. ELEVATIONS FOR INFORMATION ON PENETRATIONS REQ'D @ ROOF & WALLS. COORD. SIZES & LOCATIONS W/ RESPECTIVE TRADE CONTRACTORS. (T)(R) PROVIDE LINTELS AS REQ'D. (TYP)
3. SEE BLDG. ELEVATIONS FOR CONTROL JOINT LOCATIONS
4. DEPRESS CONC. SLAB 2" IN ALL AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE, DEPRESS CONC. SLAB 6" @ WALK-IN REFRIGERATORS/ FREEZER.
6. UNLESS NOTED OTHERWISE, ALL EXPOSED FASTENERS SHALL BE TAMPER RESISTANT. (TYP)
7. SEE ROOM FINISH SCHEDULE FOR FINISHES
8. T/MAS @ INTERIOR WALLS SHALL BE +13'-4" U.N.O. PROVIDE MTL. STUD/GYP BD INFILL TO UNDERSIDE OF STRUCTURE @ FIRE RATED CONSTRUCTION PER U.L. REQ'MTS. FILL ALL VOIDS @ JUNCTURES W/ STRUCTURE, & @ PENETRATIONS W/ FIRE SAFING INSUL. (TYP)
9. @ AREAS EXPOSED TO VIEW, WHERE GYPSUM BD. ABUTS DISSIMILAR MATERIALS, PROVIDE MTL 'J' MOLDING & SEALANT AS REQ'D. (TYP)
10. SLOPE FIN. FLRS TO FLOOR DRAINS (U.I.C.) COORD DRAIN LOCATIONS W/ PLUMBING CONTRACTOR.
11. FOR BLDG. ELEVATIONS SEE DWGS A-25 & A27
12. INTERIOR WALL THICKNESS 8" NOM TYP U.N.O.

ADDENDUM DWG -12/30/91

(REPLACES DRAWING A-3)

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

REGISTERED ARCHITECT RAYMOND ERNEST WESSEL NEW YORK STATE OF NEW YORK ARC 012191

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Warehouse & Kitchen Wing

PART-FLOOR PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D. SCOTT	12/30/91	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
VM, RT	RT		-

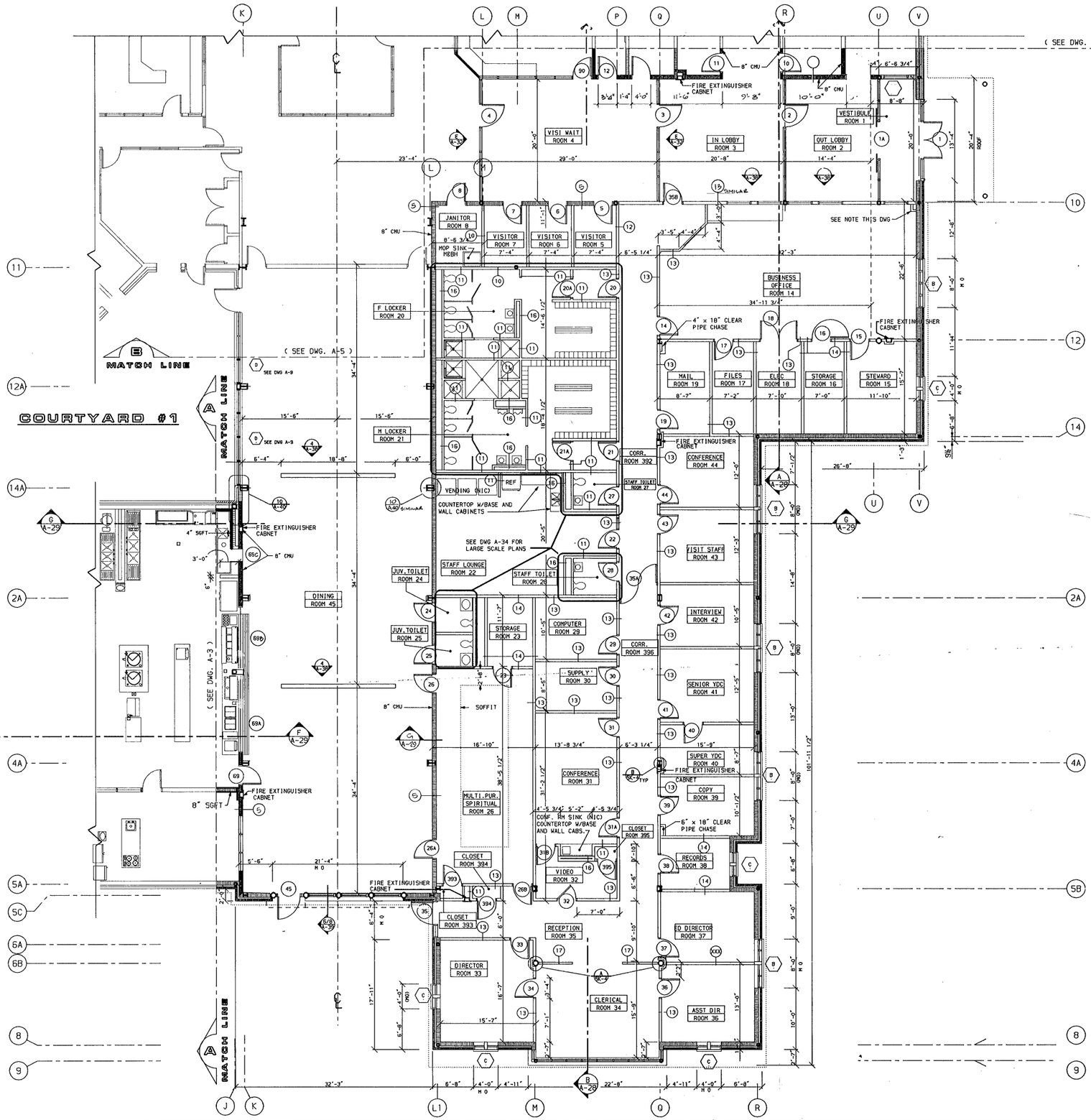
APPROVED BY DIVISION FOR YOUTH
DATED 11-27-91 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. A-3 ADDENDUM DRAWING

PLAN FILE NO. 91/103

Key Plan



NOTES

1 FACE OF PIPE CHASE SHALL MATCH THE FACE OF RADIATOR ENCLOSURE. COORDINATE WITH HVAC

ADDENDUM DWG -12/30/91
(REPLACES DRAWINGS A-4)

WARNING
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WILLIAM EARNEST WEBB
REGISTERED ARCHITECT
No. 021210
STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Administration Wing

PART-FLOOR PLAN (A4)

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

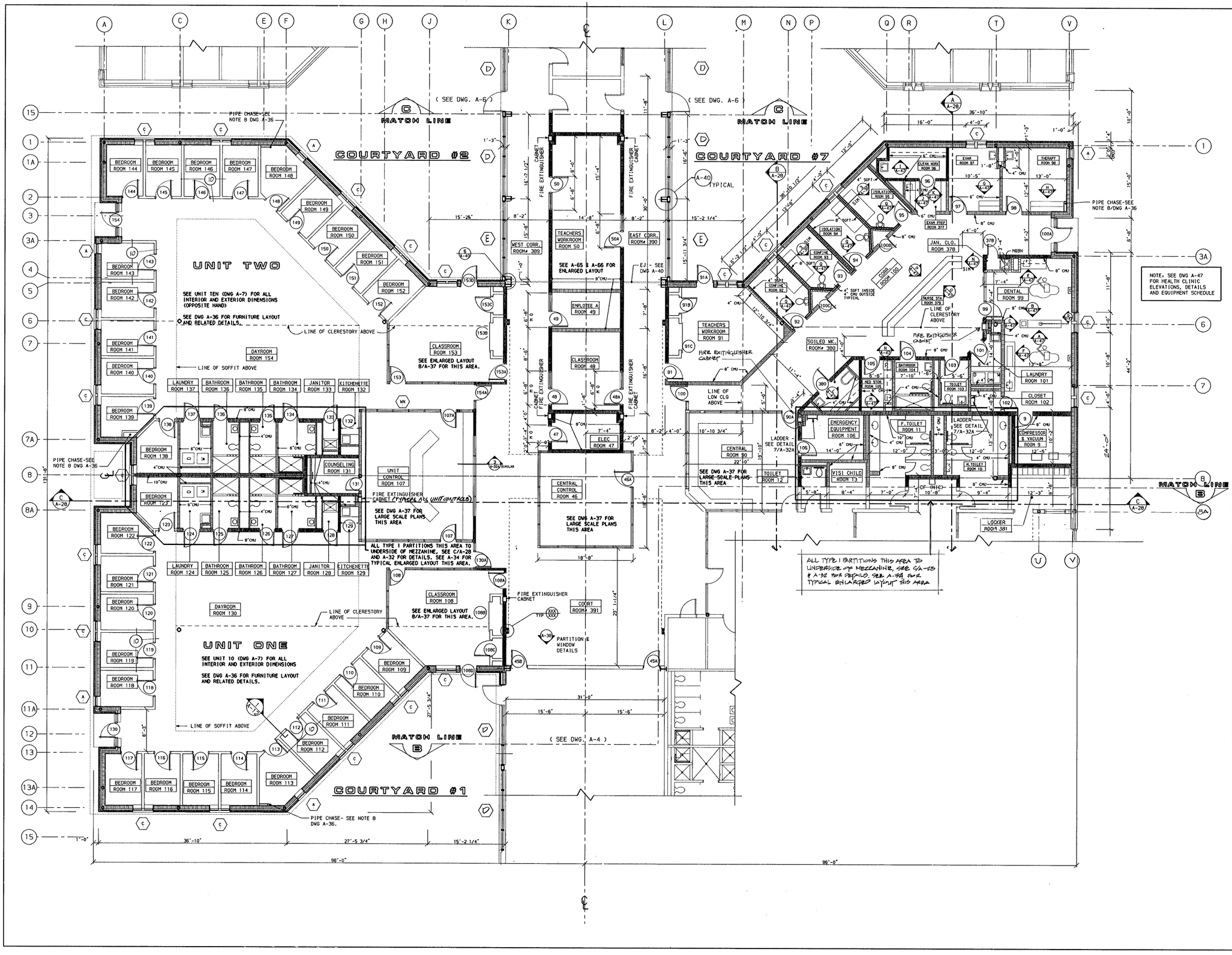
DESIGNED BY	DATE	SCALE	APPROVED
D.SCOTT	12/30/91	1/8" =1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C
DRAWING NO. A-4 ADDENDUM DRAWING
PLAN FILE NO. 91/104

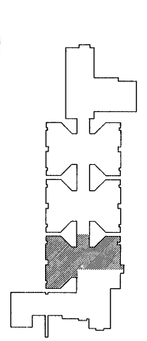
Key Plan

ASM.THOMPSON 30 DEC 1991 10:26:16 <DGS$CAD:[ASM.DGS]A-4.DFT;10.38317-C\1/8_FL_PLANS



ADDENDUM DWG -12/30/91
(REPLACES DRAWINGS A-5)

Key Plan



WARNING
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CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (182)/Health Clinic Wing

PART-FLOOR PLAN (A5)

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS
DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY
DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D.SCOTT	12/30/91	1/8" =1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY: DIVISION FOR YOUTH
DATED: 11/27/91 LETTER NO.: 026344

PROJECT NO.	DRAWING NO.
38317-C	A-5 ADDENDUM DRAWING
	PLAN FILE NO. 91/106

30 DEC 1991 09:43:38 JOHN_THOMPSON <USERDB>MACH>USR2>DEPT>0_3831?>0_3831?>0_1/8_FL_PLANS

ADDENDUM DWG -12/30/91
(REPLACES DRAWINGS A-6)

NORTH

Key Plan

WARNING
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CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (3,4,5 & 6) Wing

PART-FLOOR PLAN
(A6)

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D.SCOTT	12/30/91	1/8" =1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY DIVISION FOR YOUTH

DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. A-6 ADDENDUM DRAWING

PLAN FILE NO. 91/106

30 DEC 1991 09:44:38 JOHN THOMPSON

UNIT EIGHT

SEE UNIT TEN (THIS SHEET) FOR ALL INTERIOR AND EXTERIOR DIMENSIONS (OPPOSITE HAND)

SEE DWG A-36 FOR FURNITURE LAYOUT AND RELATED DETAILS.

UNIT SEVEN

SEE UNIT TEN (THIS SHEET) FOR ALL INTERIOR AND EXTERIOR DIMENSIONS

SEE DWG A-36 FOR FURNITURE LAYOUT AND RELATED DETAILS.

UNIT TEN

SEE DWG A-36 FOR FURNITURE LAYOUT AND RELATED DETAILS.

UNIT NINE

SEE UNIT TEN (THIS SHEET) FOR ALL INTERIOR AND EXTERIOR DIMENSIONS (OPPOSITE HAND)

SEE DWG A-36 FOR FURNITURE LAYOUT AND RELATED DETAILS.

COURTYARD #4

SEE DWG A-9 FOR GALLERY WINDOW DIMENSIONS

COURTYARD #5

SEE DWG A-9 FOR GALLERY WINDOW DIMENSIONS

COURTYARD #3

SEE DWG A-9 FOR GALLERY WINDOW DIMENSIONS

COURTYARD #6

SEE DWG A-9 FOR GALLERY WINDOW DIMENSIONS

ADDENDUM DWG -12/30/91

(REPLACES DRAWINGS A-7)

NORTH

Key Plan

WARNING

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REGISTERED ARCHITECT RAYMOND ERNEST CASEY 027101 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

PART-FLOOR PLAN (A7)

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND N. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D.SCOTT	12/30/91	1/8" =1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY DIVISION FOR YOUTH

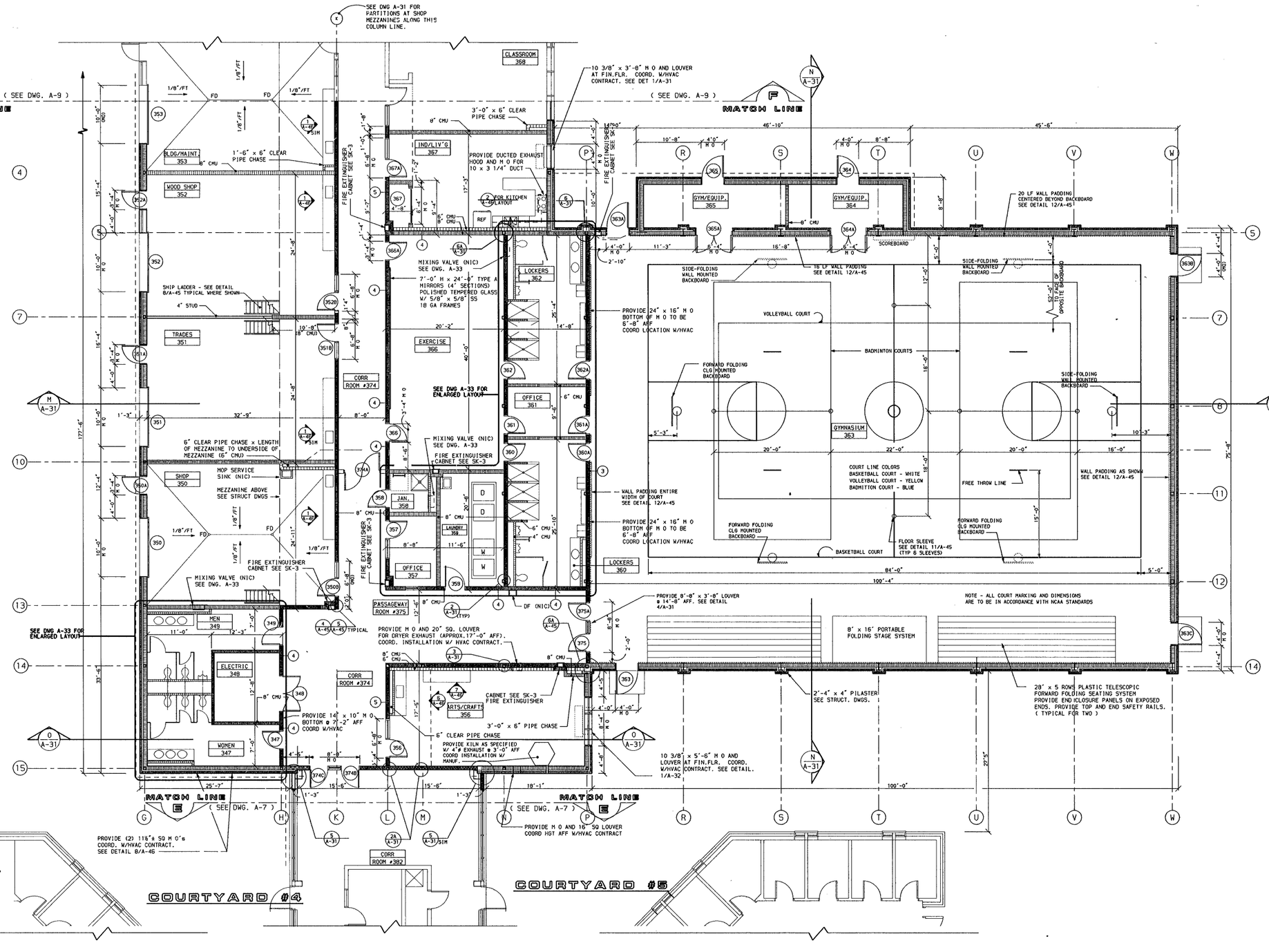
DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. A-7 ADDENDUM DRAWING

PLAN FILE NO. 91/107

30 DEC 1991 09:45:44 JOAN.THOMPSON



NOTES

1 AT ROOM 363, PROVIDE ACOUSTIC CMU FROM 9'-4" AFF TO ROOF CONSTRUCTION AT NORTH, EAST & WEST WALLS. PROVIDE ACOUSTIC CMU FROM 14'-0" AFF TO ROOF CONSTRUCTION AT SOUTH WALL. SEE SECTION N/A-31 FOR DETAILS.

2 PROVIDE CONCRETE SLAB, T/SLAB @ 10'-8" AFF, ABOVE ROOMS 348, 374 AND 375, UL G530. SEE DWG A-31 FOR DETAILS

ADDENDUM DWG -12/30/91
(REPLACES DRAWINGS A-8)

NORTH

Key Plan

WARNING
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REGISTERED ARCHITECT RAYMOND ERNEST WEBER JR. ARC 012101 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

GYMNASIUM/VOCATIONAL WING

PART-FLOOR PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. MUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D SCOTT	12/30/91	1/8" = 1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
VM RB			----

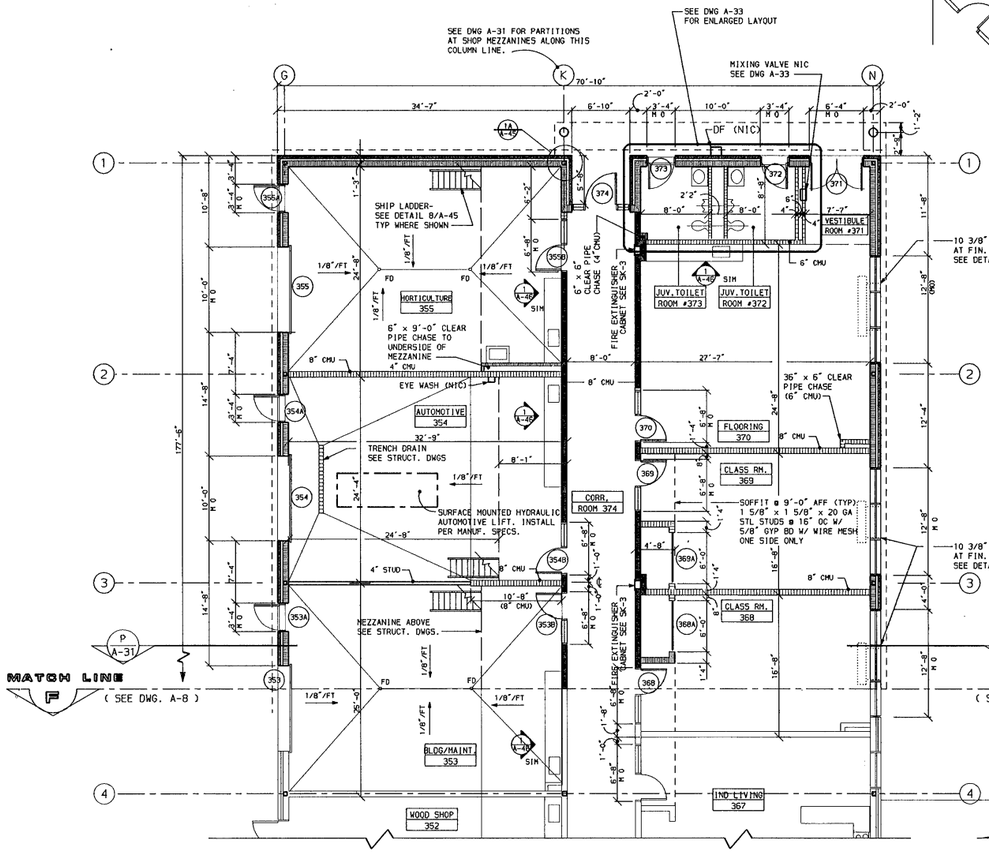
APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

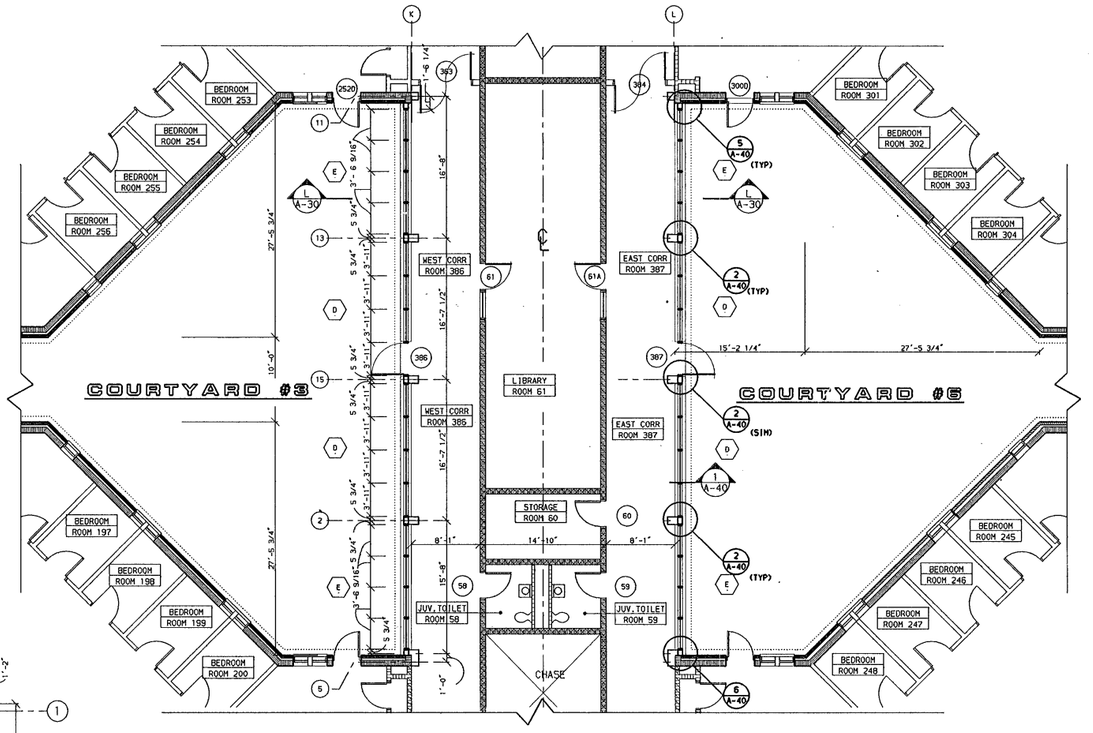
PROJECT NO. 38317-C

DRAWING NO. A-8 ADDENDUM DRAWING

PLAN FILE NO. 91/108

30 DEC 1991 09:45:25 JOAN_THOMPSON <USER2$D:\ACAD\2021\DRWGS\38317\C\1\8_FL_PLAN.DWG>





TYPICAL COURTYARD PLAN

TYPICAL GALLERY WINDOW WALL DIMENSIONS
COURTYARD 4 & 5 SIMILAR
COURTYARD 2 & 7 TYPICAL

(D) INDICATES STEEL CURTAIN WALL W/ 3'11" MULLION SPACING
(E) INDICATES STEEL CURTAIN WALL W/ 3'6 9/16" MULLION SPACING

ADDENDUM DWG -12/30/91
(REPLACES DRAWINGS A-9)

NORTH

SIMILAR

Key Plan

WARNING
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REGISTERED ARCHITECT RAYMOND ERNEST WESTER UNIVERSITY OF THE STATE OF NEW YORK ARC 012101

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

VOCATIONAL WING

PART-FLOOR PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D SCOTT	12/30/91	1/8" = 1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
VM RB			----

APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. A-9
ADDENDUM DRAWING
PLAN FILE NO. 91/109

30 DEC 1991 09:45:45 JOAN.THOMPSON

CEILING TYPE KEY

SUSPENDED 2'x2' ACOUSTIC PANEL CEILING SYSTEM

SUSPENDED 2'x2' ACOUSTIC PANEL CEILING SYSTEM WITH CLIPS

SUSPENDED 5/8" TYPE X GYPSUM BOARD ON FLATTENED EXPANDED METAL MESH

SUSPENDED 5/8" TYPE X GYPSUM BOARD CEILING

12"x12" ACOUSTICAL TILE GLUED TO SUSPENDED 5/8" TYPE 'X' GYPSUM BOARD CEILING ON FLATTENED EXPANDED METAL MESH

NOTE: CEILINGS ABOVE 9'-0" HIGH DO NOT REQUIRE EXPANDED METAL MESH.

NOTE: FOR SPECIFIC ROOM BY ROOM CEILING PANEL TYPES, SEE ROOM FINISH SCHEDULE, DRAWINGS A-55 THRU A-62

SYMBOLS

LIGHT FIXTURES

SUPPLY REGISTERS

RETURN REGISTER

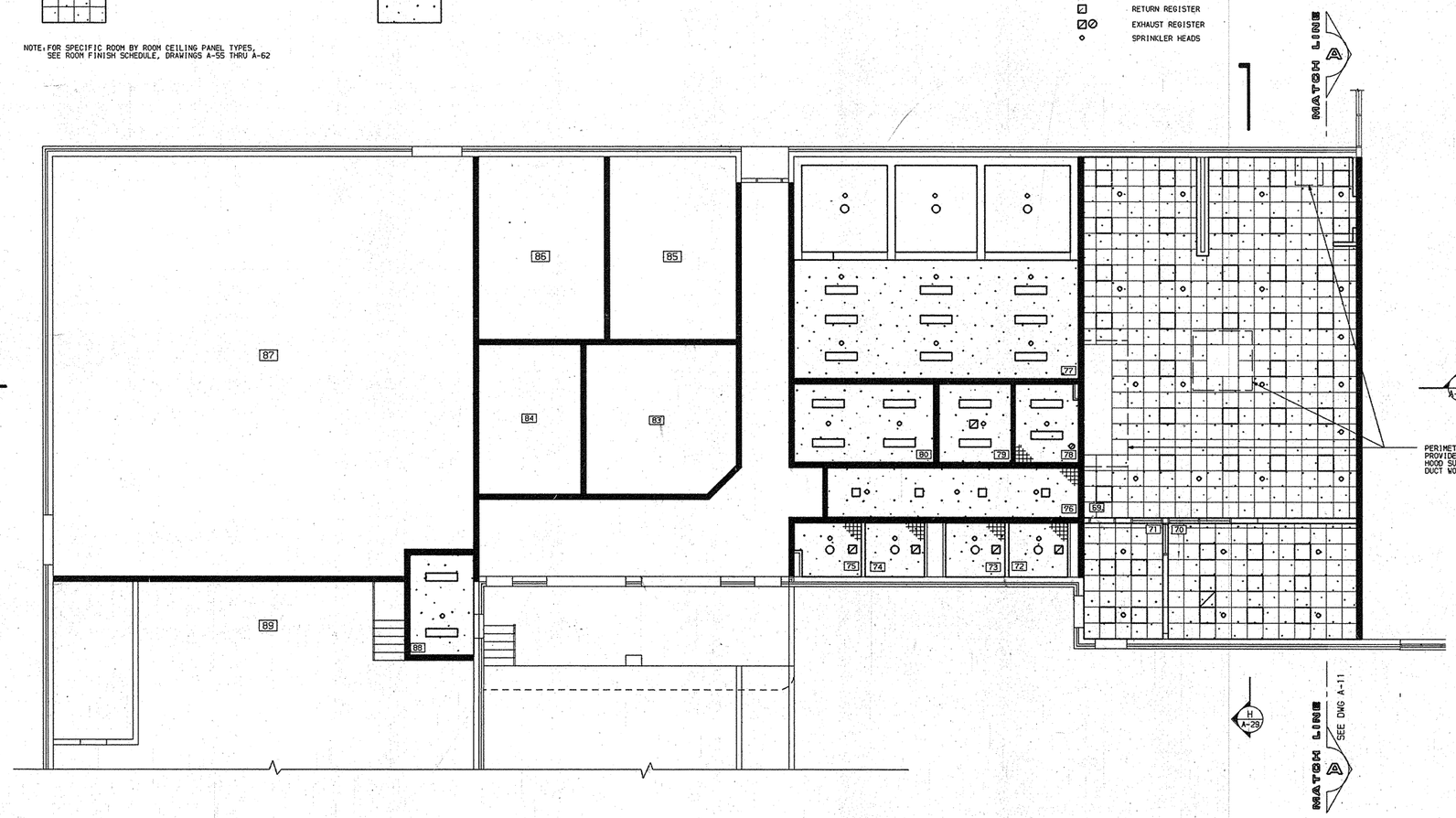
EXHAUST REGISTER

SPRINKLER HEADS

INDICATES WALLS EXTENDING UP TO ROOF

INDICATES WALLS EXTENDING UP TO STRUCTURAL DECK

INDICATES WALLS EXTENDING 12" ABOVE CEILING



NOTES

1. PROVIDE OPENINGS IN CEILING FOR LIGHT FIXTURES, ACCESS DOORS AND CEILING REGISTERS. COORDINATE LOCATIONS WITH HVAC, PLUMBING AND ELECTRIC CONTRACTOR.
2. PROVIDE ACCESS DOORS:
   24"x24" - 1 LOCATIONS
   14"x14" - 9 LOCATIONS

WARNING

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REGISTERED ARCHITECT RAYMOND WHITNEY CASEY 012781 NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Warehouse & Kitchen Wing

REFLECTED CEILING PLAN AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
GH	11/27/91	1/8" =1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY: DIVISION FOR YOUTH

DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

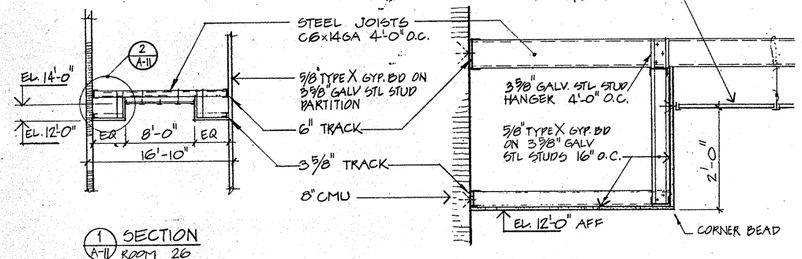
DRAWING NO. A-10

PLAN FILE NO. 91/110

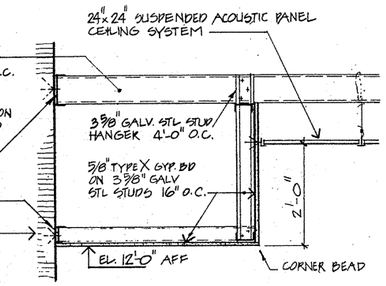
NORTH

Key Plan

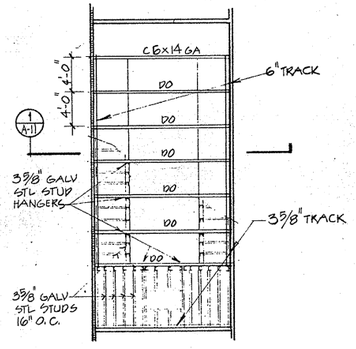
TONY.MORRIS 26 NOV 1991 14:52:27 <USERDIR>ARCH>A0024>LDPT>A1.38317



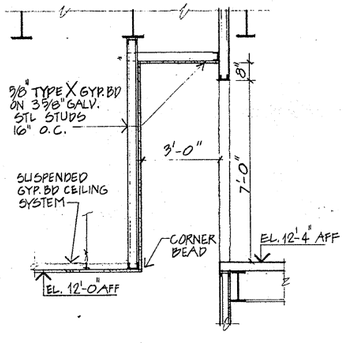
1 A-11 SECTION
ROOM 26



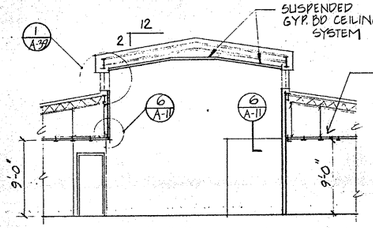
2 A-11 DETAIL
3/4" = 1'-0"



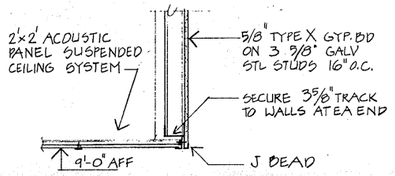
CEILING FRAMING PLAN
ROOM 26



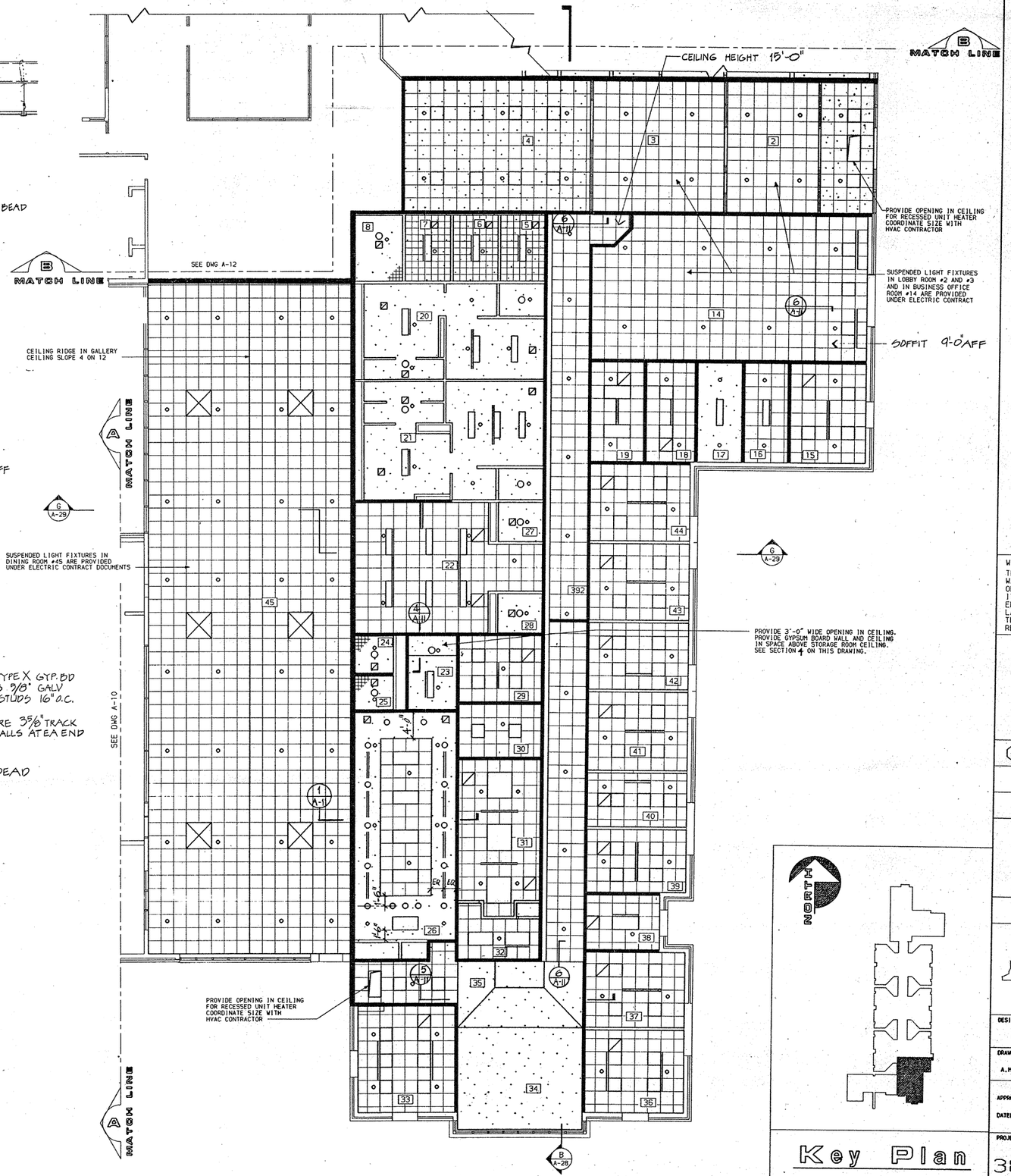
4 A-11 SECTION (RM. 23)
SCALE: 1/8" = 1'-0"



5 A-11 SECTION
ROOM 35



6 A-11 DETAIL
3/4" = 1'-0"



NOTES

1. SEE DRAWING A-10 FOR KEY TO CEILING TYPES.
2. PROVIDE OPENINGS IN CEILING FOR LIGHT FIXTURES, ACCESS DOORS AND CEILING REGISTERS. COORDINATE LOCATIONS WITH HVAC, PLUMBING AND ELECTRIC CONTRACTOR.
3. PROVIDE ACCESS DOORS:
   24" x 24" — 2 LOCATIONS
   14" x 14" — 8 LOCATIONS

WARNING
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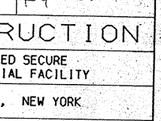


CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Administration Wing

REFLECTED CEILING PLAN AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

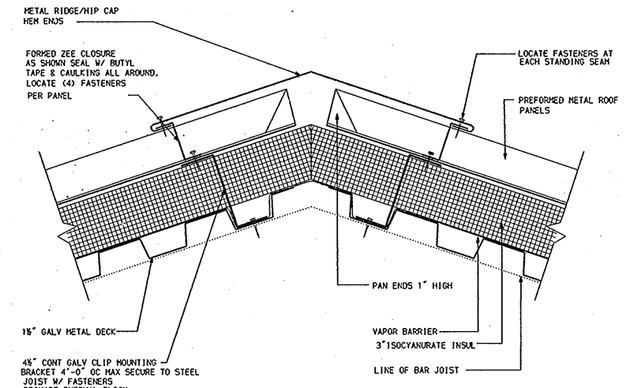
COMMISSIONER JOHN F. HUDACS
DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY
DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
GH	11/27/91	1/8" = 1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A. MORRIS			

APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C
DRAWING NO. A-11
PLAN FILE NO. 91/11

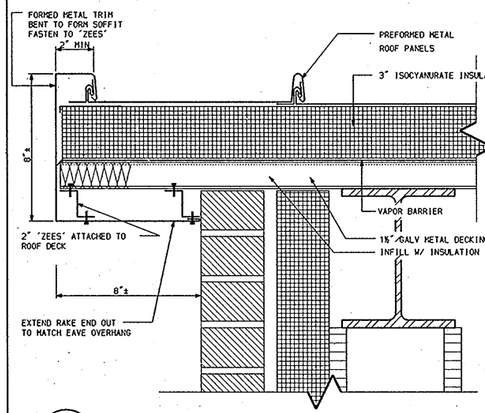
Key Plan



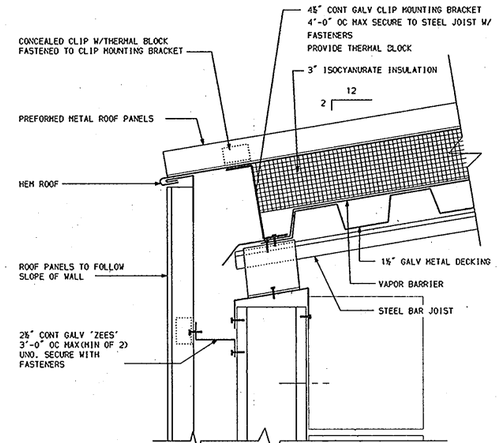
NOTE:
INSULATION & VAPOR BARRIER TO COVER RIDGE COMPLETELY TO PREVENT MOISTURE INSIDE RIDGE CAP.

IF CLIP MOUNTING BRACKET DOES NOT ALIGN WITH CLOSURE AND IS SET CLOSER TO THE ℄ OF RIDGE PROVIDE GALV BACKER PLATE PLACED BELOW ROOF PANEL AT CLOSURE LOCATION.

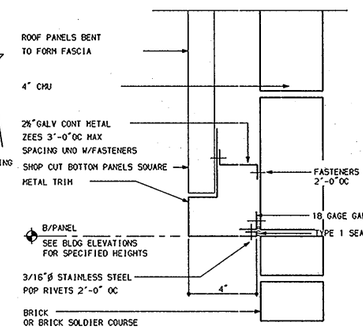
1 / A-16 RIDGE/HIP CAP FLASHING
NO SCALE:



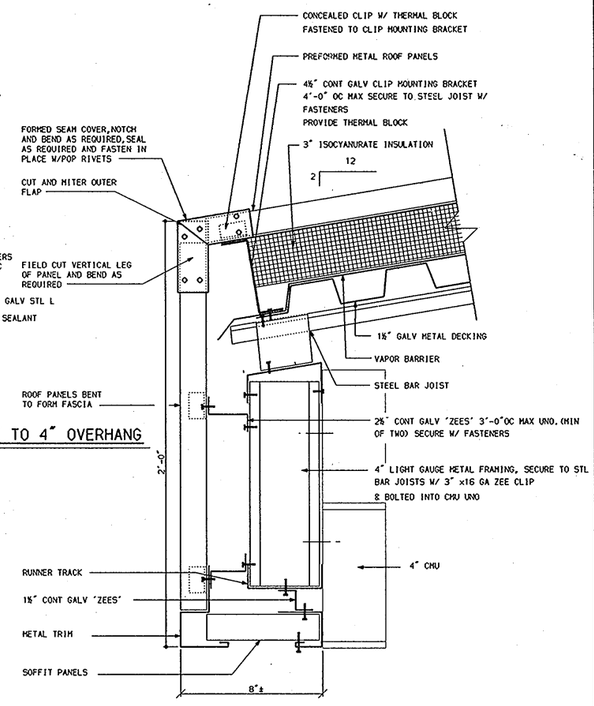
2 / A-16 RAKE DETAIL
SCALE 3" =1'-0"



3 / A-16 EAVE @ ANGLE WALL
SCALE 3" =1'-0"

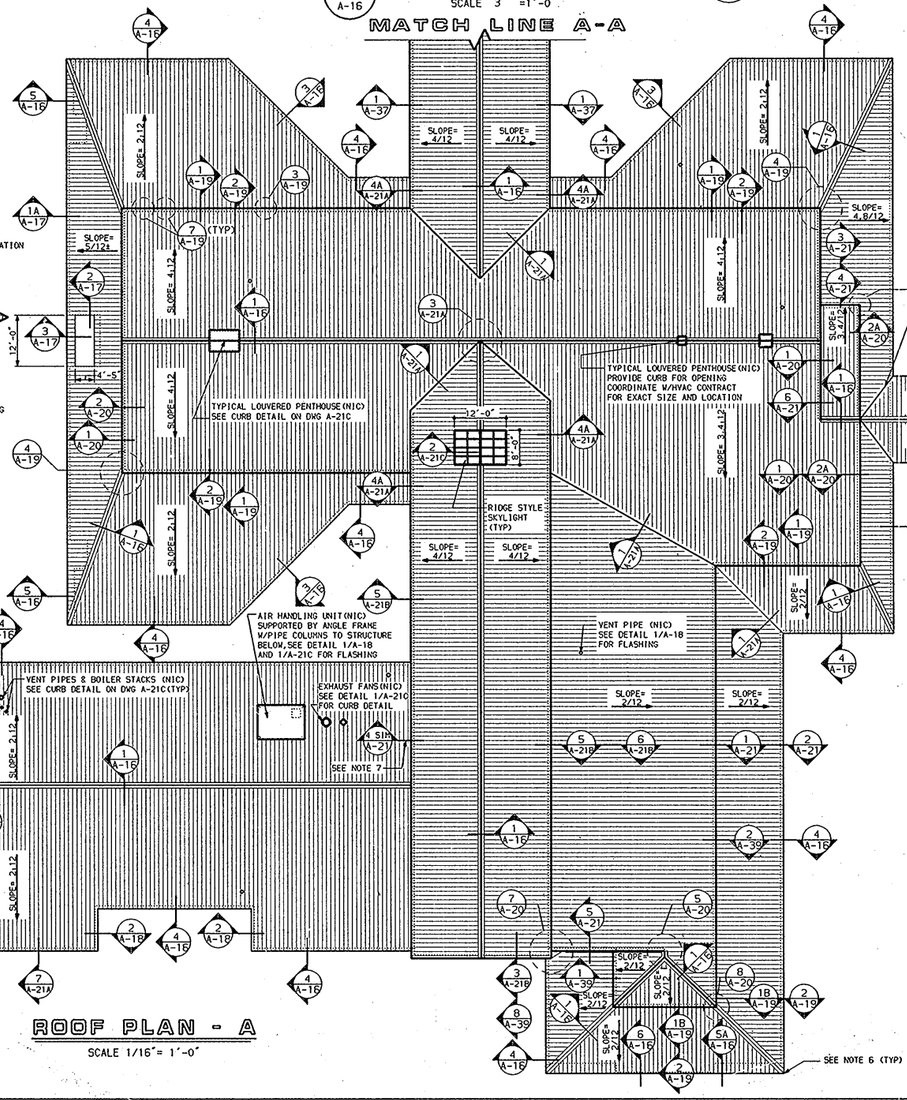


6 / A-16 EAVE @ TRANSITION FROM 8" TO 4" OVERHANG
SCALE:3"=1'-0"

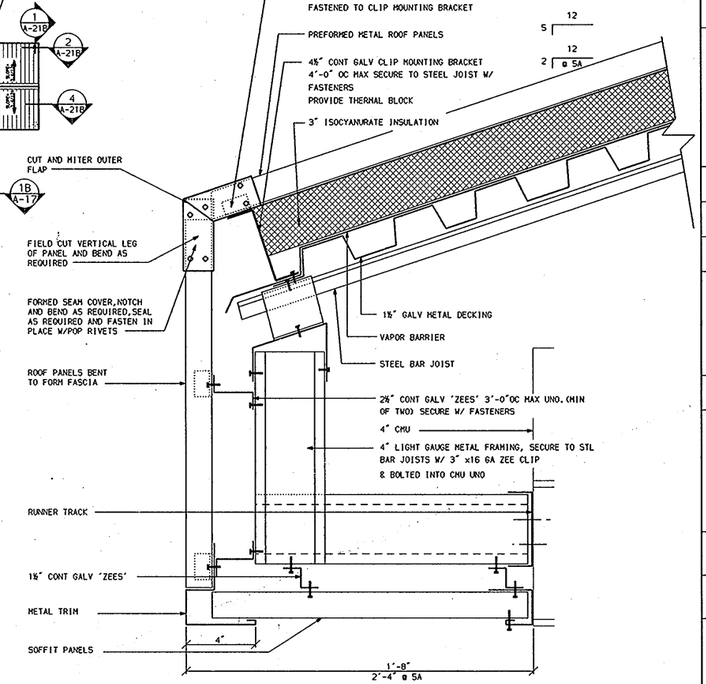


4 / A-16 EAVE DETAIL
SCALE 3" =1'-0"

MATCH LINE A-A



ROOF PLAN - A
SCALE 1/16"= 1'-0"



5 / A-16 5A / A-16 EAVE DETAIL
SCALE 3" =1'-0"

NOTES:

1. THE COLOR SELECTIONS FOR THE ROOF PANELS METAL CLAPBOARD SIDING AND COLUMN COVERS IS AS FOLLOWS:
   ROOF PANELS,FASCIA & TRIM:
   DURANAR: FAINT GRAY - 65525Z
   METAL CLAPBOARD SIDING & TRIM:
   BERRIDGE: AGED METALLIC - CHARCOAL GREY
   COLUMN COVERS TO MATCH
   SHERWIN WILLIAMS: COUSTEAU BLEU - 1483
2. PAINT RIVETS TO MATCH PANEL AND TRIM
3. PROVIDE SNOWGUARDS OVER ALL EAVES AT EXTERIOR DOORS.
   THIS INCLUDES OVERHEAD OR ROLLING DOORS.
4. PROVIDE ½" FIBERBOARD BACKING FOR VERTICAL EPDM FLASHING WHERE THERE ARE STEEL STUDS.
5. PROVIDE ALL CURBS AND FLASHINGS FOR ALL MECHANICAL AND PLUMBING ROOF PENETRATIONS. COORDINATE W/THESE CONTRACTS FOR EXACT SIZES AND LOCATIONS.
6. AT ALL HIP CAPS AS DEPICTED ON ROOF PLANS A THRU C, BEND CAP TO FORM FASCIA AS THE ROOF PANEL IS DETAILED.
7. DETAIL 4 SIM/A-21 IS SIMILAR TO 4/A-21 WITH THE EXCEPTION 3" 'ZEES' ARE USED INSTEAD OF 2⅝".

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

ROOF PLAN -A AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

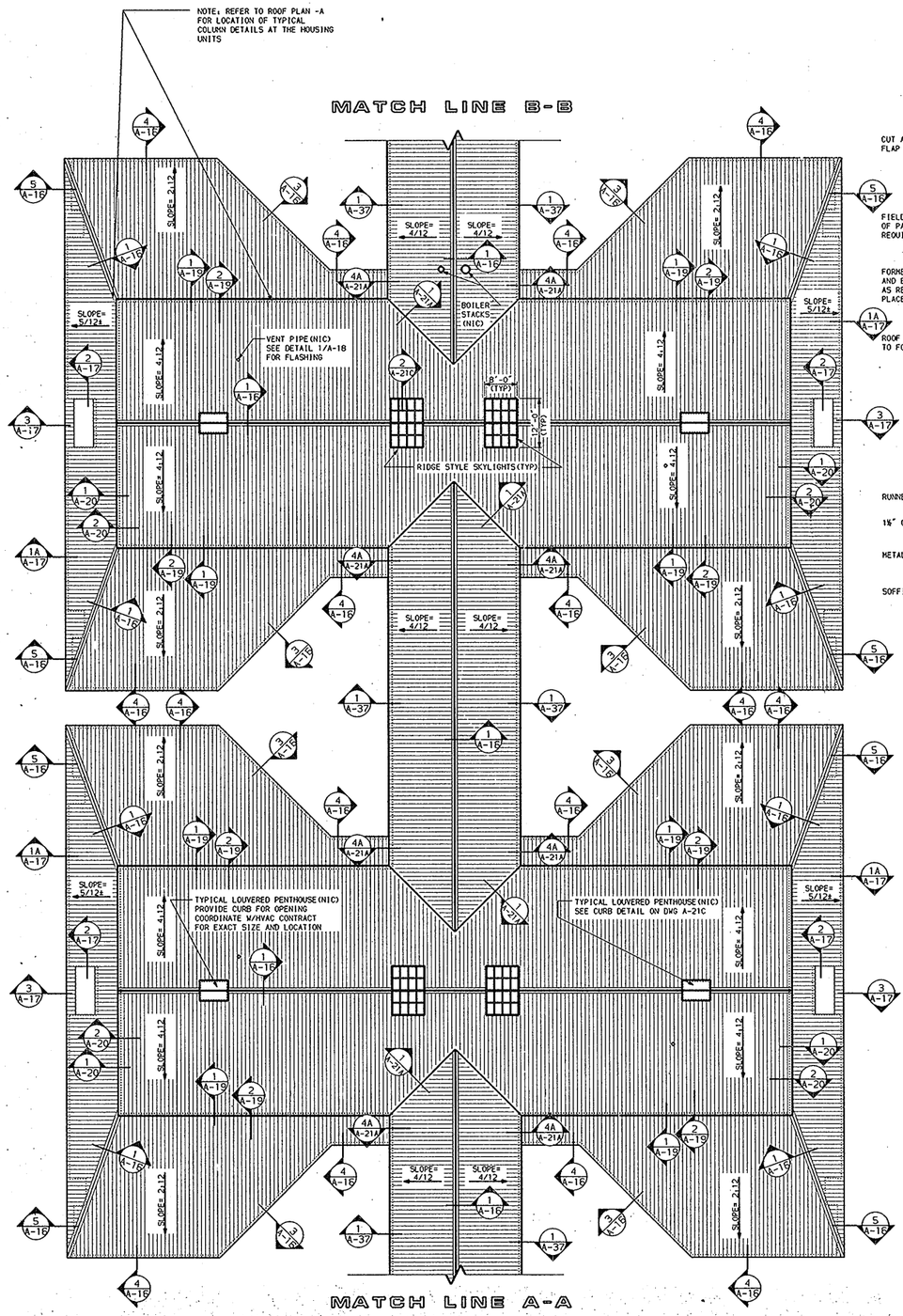
DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
M.RHEINGOLD	11/27/91	AS NOTED	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
M.RHEINGOLD			

APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

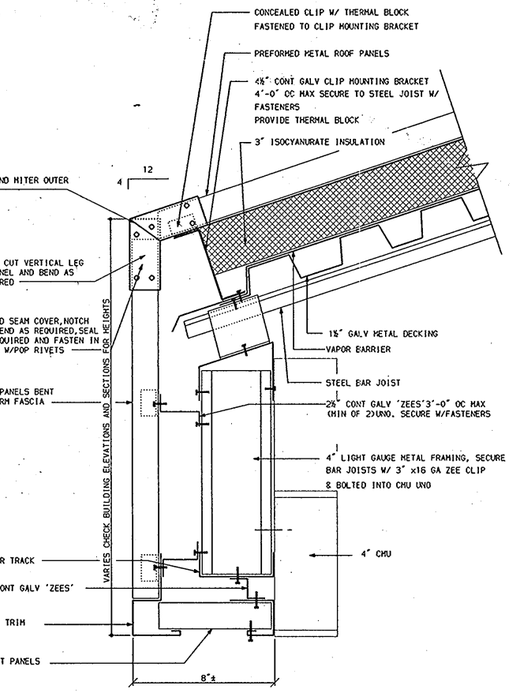
PROJECT NO. 38317-C
DRAWING NO. A-16
PLAN FILE NO. 91/116

27 NOV 1991 08:04:48 ALICE.RHEINGOLD



ROOF PLAN - B

SCALE 1/16"= 1'-0"



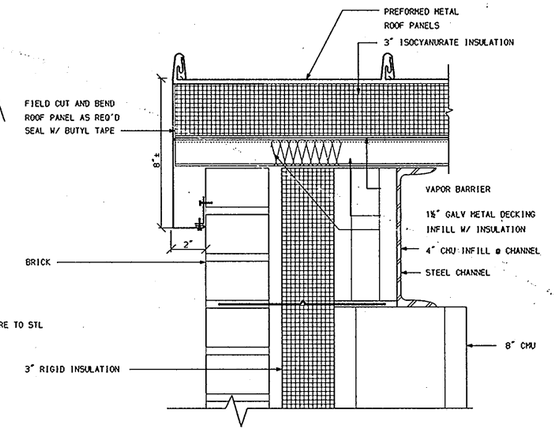
1 1A 1B 1C — EAVE DETAIL

SCALE 3" =1'-0"

NOTE: 1A SIMILAR EXCEPT SLOPE= 5/12±

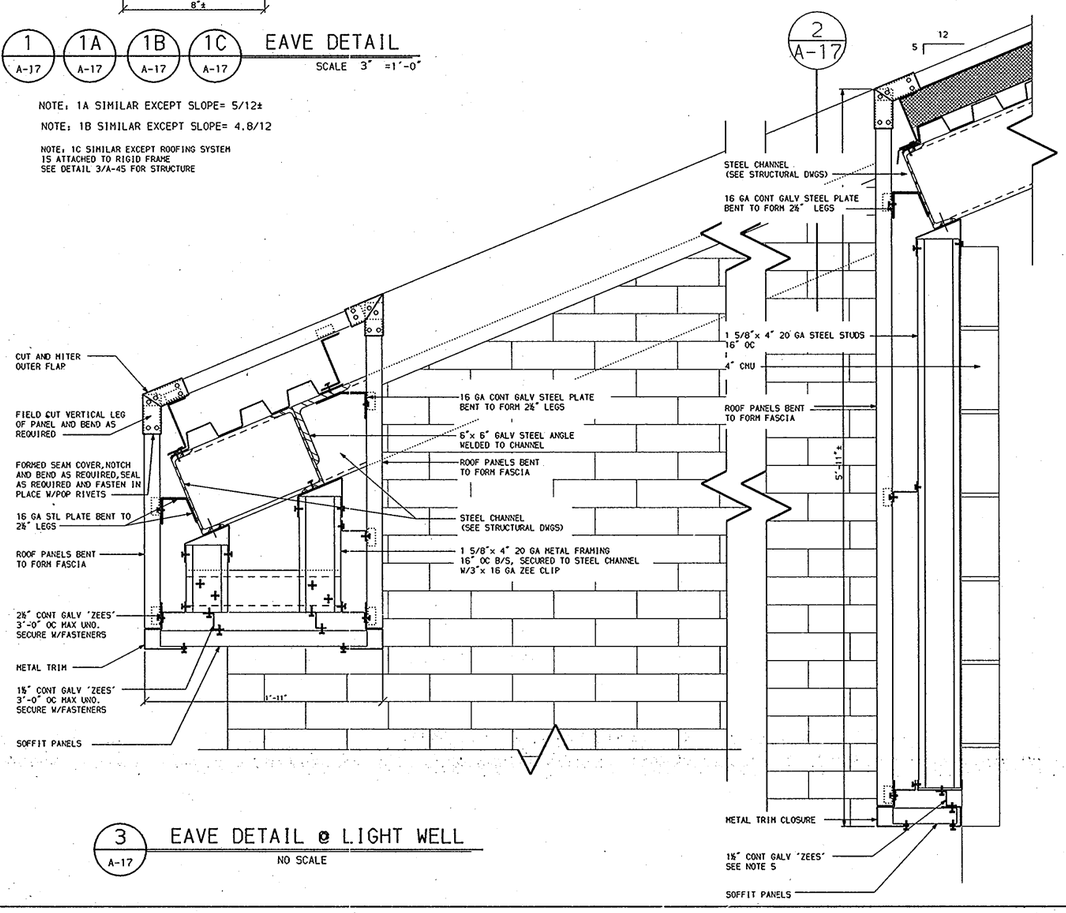
NOTE: 1B SIMILAR EXCEPT SLOPE= 4.8/12

NOTE: 1C SIMILAR EXCEPT ROOFING SYSTEM IS ATTACHED TO RIGID FRAME SEE DETAIL 3/A-45 FOR STRUCTURE



2 / A-17 — RAKE DETAIL @ BRICK

SCALE 3" =1'-0"



3 / A-17 — EAVE DETAIL @ LIGHT WELL

NO SCALE

NOTES:

1. THE COLOR SELECTIONS FOR THE ROOF PANELS METAL CLAPBOARD SIDING AND COLUMN COVERS IS AS FOLLOWS;
   ROOF PANELS, FASCIA & TRIM;
   DURANAR; FAINT GRAY - 665252
   METAL CLAPBOARD SIDING & TRIM,
   BERRIDGE; AGED METALLIC - CHARCOAL GREY

   COLUMN COVERS TO MATCH
   SHERWIN WILLIAMS; COUSTEAU BLEU - 1483
2. PAINT RIVETS TO MATCH PANEL AND TRIM
3. PROVIDE SNOWGUARDS OVER ALL EAVES AT EXTERIOR DOORS. THIS INCLUDES OVERHEAD OR ROLLING DOORS.
4. PROVIDE ½" FIBERBOARD BACKING FOR VERTICAL EPDM FLASHING WHERE THERE ARE STEEL STUDS.
5. PROVIDE ALL CURBS AND FLASHINGS FOR ALL MECHANICAL AND PLUMBING ROOF PENETRATIONS. COORDINATE W/THESE CONTRACTS FOR EXACT SIZES AND LOCATIONS.

WARNING
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CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ROOF PLAN -B AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. MUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
M.RHEINGOLD	11/27/91	AS NOTED	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
M.RHEINGOLD			

APPROVED BY DIVISION FOR YOUTH

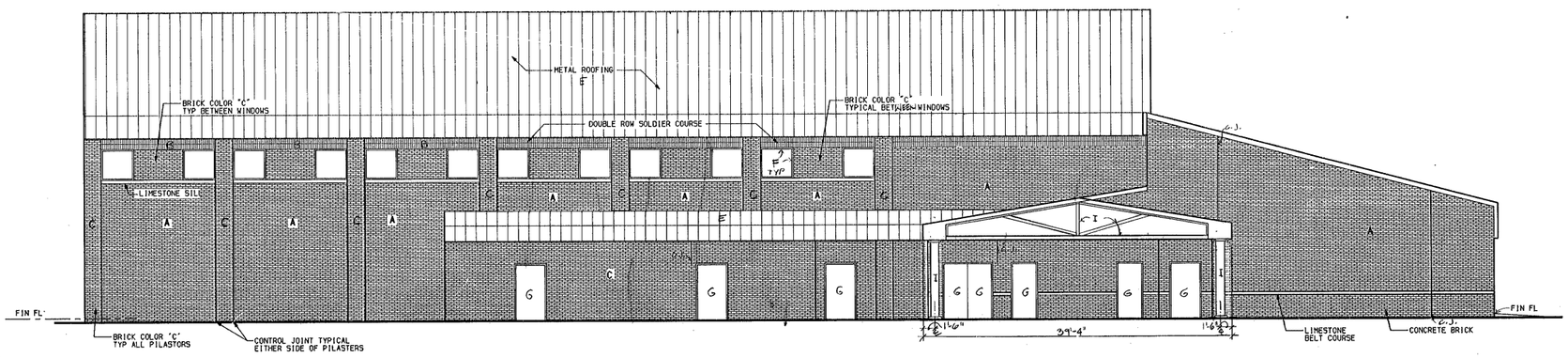
DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

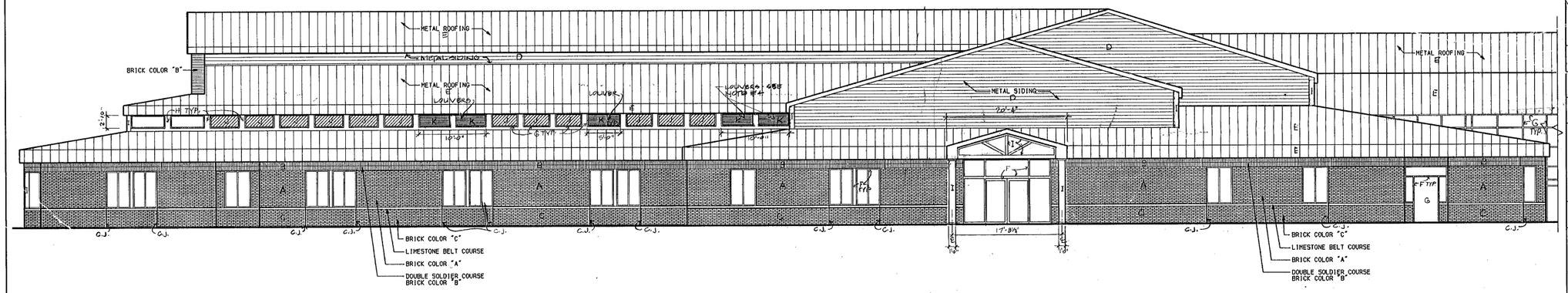
DRAWING NO. A-17

PLAN FILE NO. 91/117

27 NOV 1991 08:04:37 MIKE.RHEINGOLD <USERDIR>MIKE>ARCH>38317C\SHT\A17.ROOF



NORTH ELEVATION @ GYMNASIUM



EAST ELEVATION @ ADMINISTRATION WING / HEALTH CLINIC

NOTES

1. FIN FL REF EL 0'-0" =949.5'
2. 'A' INDICATES BRICK - SEE SPECIFICATION COLOR 'A'
   'B' INDICATES BRICK - SEE SPECIFICATION COLOR 'B'
   'C' INDICATES CONCRETE BRICK - SEE SPECIFICATION FOR COLOR AND TEXTURE.
   'D' INDICATES PREFINISHED METAL SIDING BERRIDGE MAN. COLOR CHARCOAL GREY
   'E' INDICATES PREFORMED METAL ROOFING SYSTEM COLOR DURANAR 665252 FAINT GRAY
   'F' INDICATES WINDOW FRAMES @ BRICK ES SYSTEM TNEMIC BF82 CLOUD
   'G' INDICATES DOORS & WINDOW FRAMES @ SPANDRELS ES SYSTEM TNEMIC BH42 SPIDER WEB
   'H' INDICATES STRUCTURAL FRAMES @ SPANDRELS ES SYSTEM TNEMIC BH12 GRAPHITE
   'I' INDICATES COLUMNS, COLUMN COVERS AND EXPOSED STEEL ON PORCHES ES SYSTEM COLOR TO MATCH SHERWIN WILLIAMS 1483 COUSTEAU BLEU
   'J' INDICATES SPANDREL GLASS PPG HARMONY SOLAR GRAY
   'K' INDICATES LOUVERS @ SPANDREL FRAMES - DURANAR 665252 FAINT GRAY BLADES - DURANAR 665255 MUSKET GRAY
   'L' INDICATES LOUVERS @ SIDING & BRICK DURANAR 665255 MUSKET GRAY
3. CONTROL JOINTS WHICH ARE SHOWN AT DOOR OR WINDOW OPENINGS SHALL EXTEND UP FROM THE END OF THE LINTEL C.J. = CONTROL JOINT
4. VERIFY DIMENSIONS IN FIELD & WITH STRUCTURAL TRUSS DIMENSIONS.

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

REGISTERED ARCHITECT — RICHARD ERNEST WERNER — NEW YORK — STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ELEVATIONS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D.SCOTT	11/27/91	1/8"= 1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY DIVISION FOR YOUTH

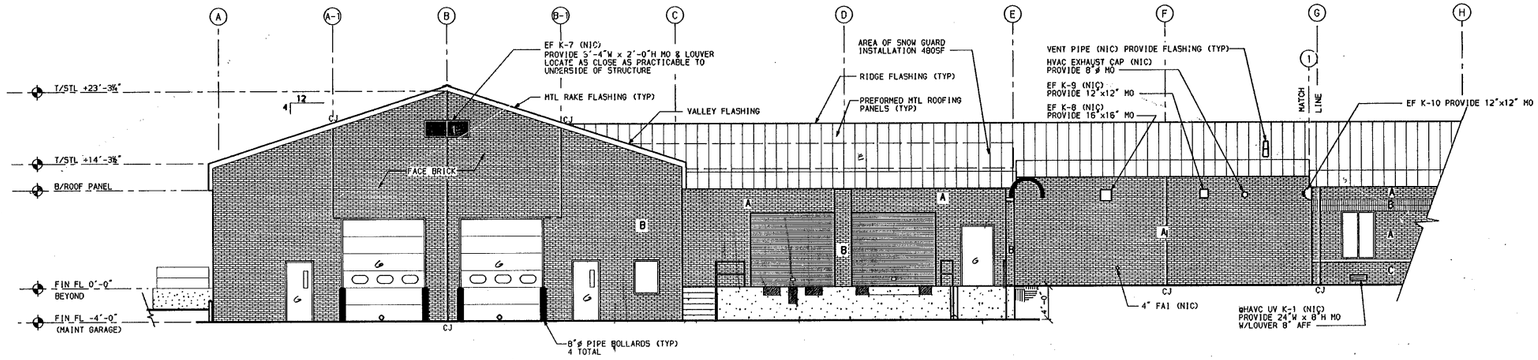
DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

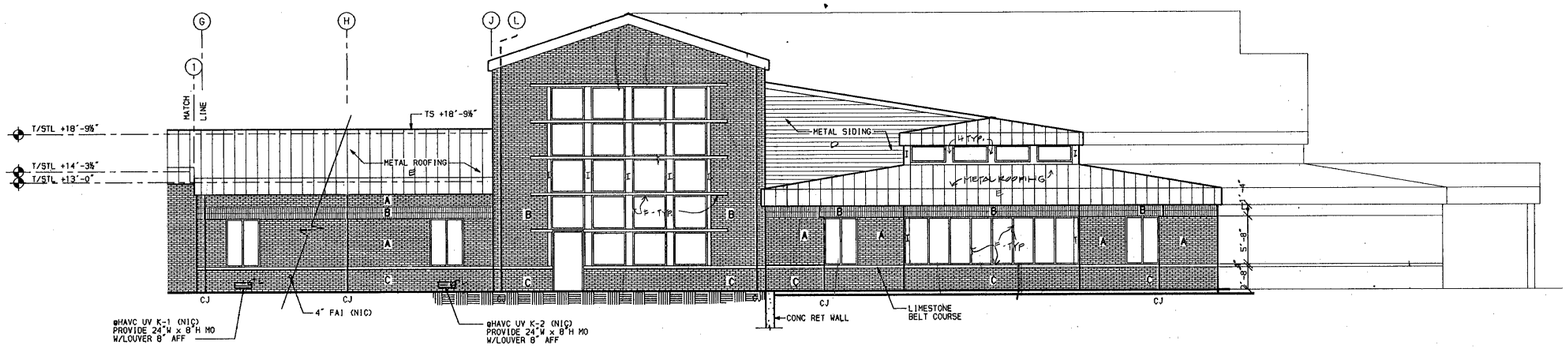
DRAWING NO. A-22

PLAN FILE NO. 91/125

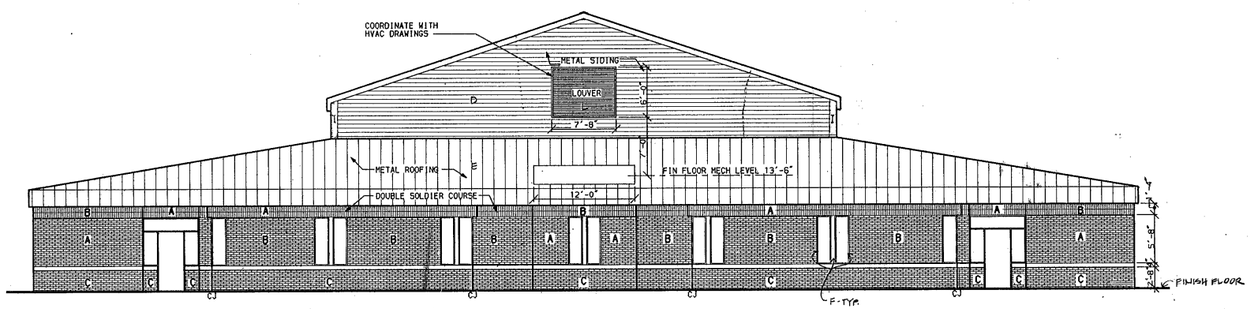
TONY.MORRIS 25 NOV 1991 14:55:52 -USER:[MORRIS.ARCH]A22.DFT;10,38317



SOUTH ELEVATION



SOUTH ELEVATION



TYPICAL HOUSING ELEVATION

NOTES

1. FIN FL REF EL 0'-0" =949.5'
2. 'A' INDICATES BRICK - SEE SPECIFICATION COLOR 'A'
   'B' INDICATES BRICK - SEE SPECIFICATION COLOR 'B'
   'C' INDICATES CONCRETE BRICK - SEE SPECIFICATION FOR COLOR AND TEXTURE.
2a. SEE NOTES ON A-22 FOR CONTINUATION OF COLOR INDICATIONS
3. CONTROL JOINTS WHICH ARE SHOWN AT DOOR OR WINDOW OPENINGS SHALL EXTEND UP FROM THE END OF THE LINTEL. C.J. - CONTROL JOINT

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

REGISTERED ARCHITECT RAYMOND ERNEST KERSTEN ARC 031701 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ELEVATIONS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D.SCOTT	11/27/91	1/8" =1'-0"	WFO
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

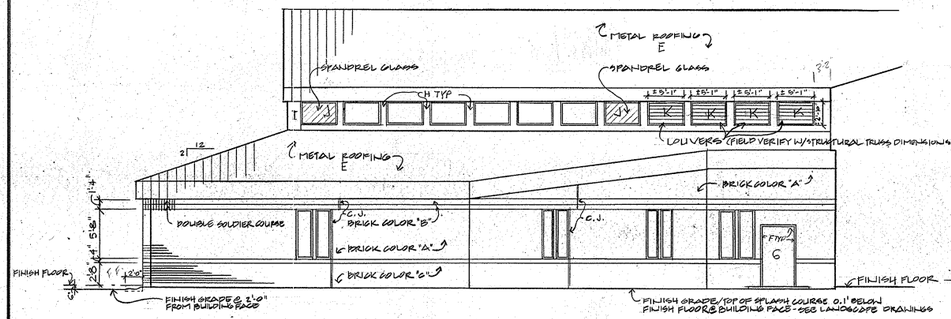
APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

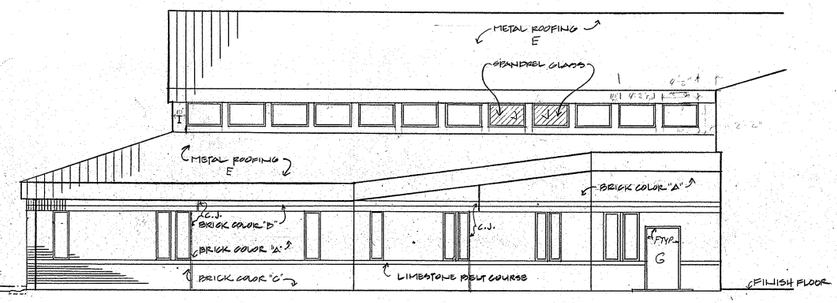
DRAWING NO. A-23

PLAN FILE NO. 91/126

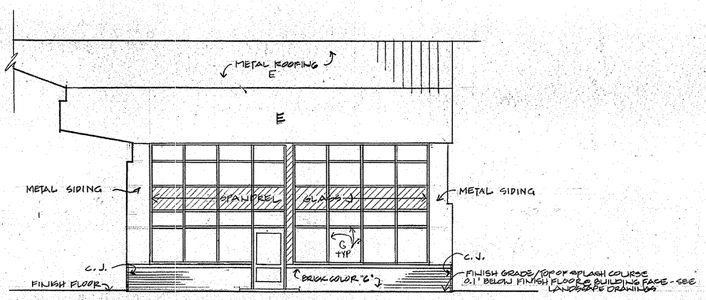
TOM.MORRIS 26 NOV 1991 08:19:52 \\DEPT25-VAX3\A-ARCH-A\DGS-D\DIV\D.38317



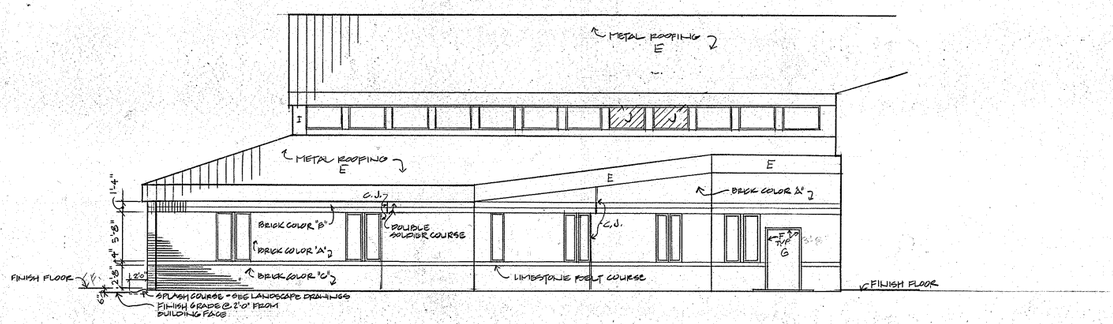
4 ELEVATION AT HEALTH CLINIC



3 ELEVATION AT HOUSING UNITS 3 & 6 (UNITS 4 & 5 OPP. HAND)



2 ELEVATION AT GALLERY (ADJAC. TO UNIT 10)



1 ELEVATION AT HOUSING UNITS 1, 7 & 10 (UNITS 2, 8, 9 OPP. HAND)

SCANNED
2004

NOTES

1. SEE NOTE 2 - A-22 FOR ALL COLOR INDICATIONS (NOTED AS LETTERS A - L ON ELEVATIONS)
2. CONTROL JOINTS WHICH ARE SHOWN AT DOOR OR WINDOW OPENINGS SHALL EXTEND UP FROM THE END OF THE LINTEL. C.J. - CONTROL JOINT.

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, i.e. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.

RAYMOND EARNEST ARCHITECT
REGISTERED ARCHITECT
No. 012107
STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ELEVATIONS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER	DESIGN AND CONSTRUCTION DIRECTOR
JOHN F. HUDACS	RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

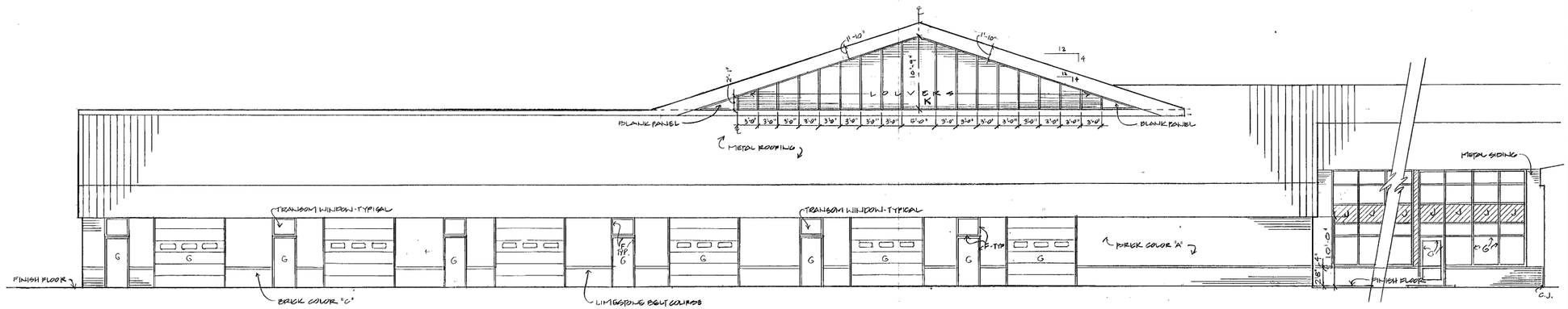
DRAWN BY	DATE	SCALE	APPROVED
D. SCOTT	11/27/91	1/8" = 1'-0"	
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A. SHAPIRO			

APPROVED BY DIVISION FOR YOUTH

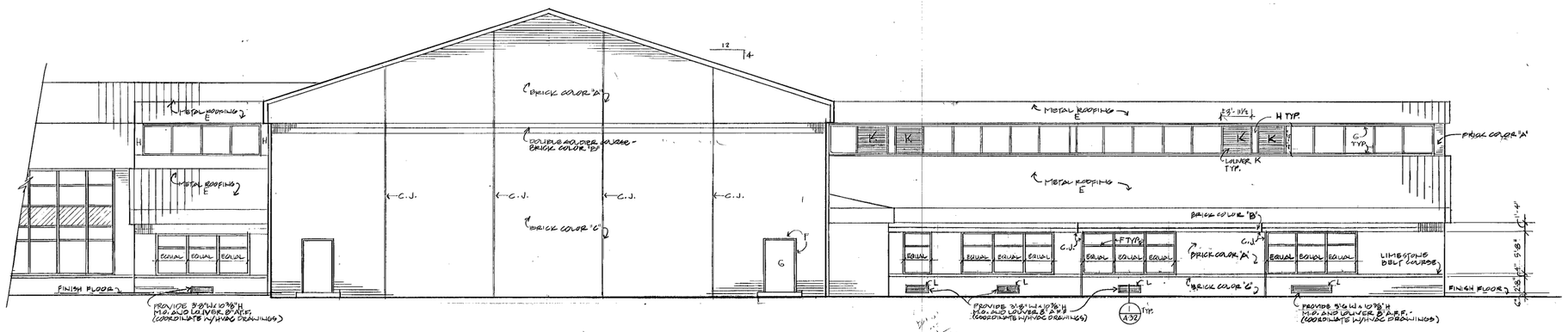
DATED 11/27/91 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	A-24
	PLAN FILE NO. 91/127

05/95



(2) GYMNASIUM/VOCATIONAL WING - WEST ELEVATION



(1) GYMNASIUM/VOCATIONAL WING - EAST ELEVATION

NOTES

1. SEE NOTE 2 - A-22 FOR ALL COLOR INDICATIONS (NOTED AS LETTERS A-L ON ELEVATIONS).
2. CONTROL JOINTS WHICH ARE SHOWN AT DOOR OR WINDOW OPENINGS SHALL EXTEND UP FROM THE END OF THE LINTEL. C.J. - CONTROL JOINT

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, i.e. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS-A MISDEMEANOR.

REGISTERED ARCHITECT RAYMOND ERNEST WEBSTER ARC 012101 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ELEVATIONS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION DIRECTOR RAYMOND W. CASEY III

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DRAWN BY	DATE	SCALE	APPROVED
BISSETT	11/27/91	1/8" = 1'-0"	WD
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.GHAEIRO			

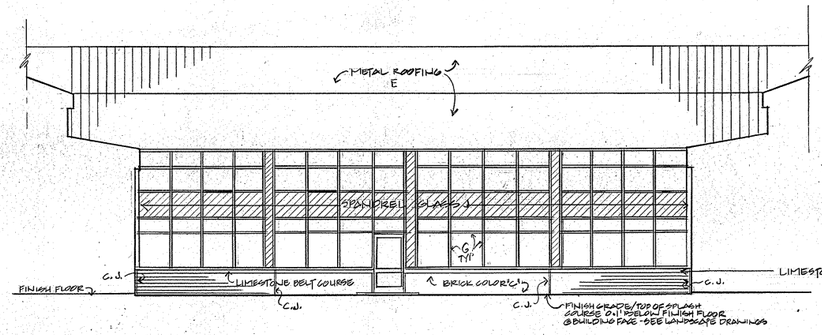
APPROVED BY DIVISION FOR YOUTH

DATED 11/27/91 LETTER NO 02638641

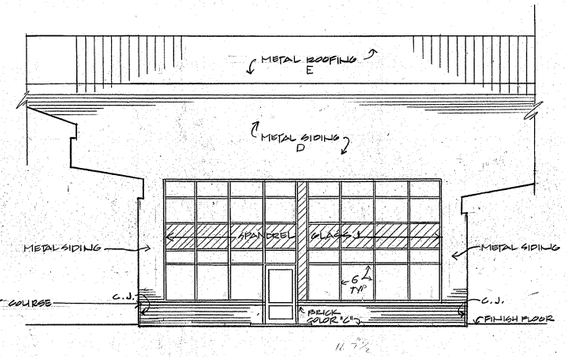
PROJECT NO. 38317-C

DRAWING NO. A-25

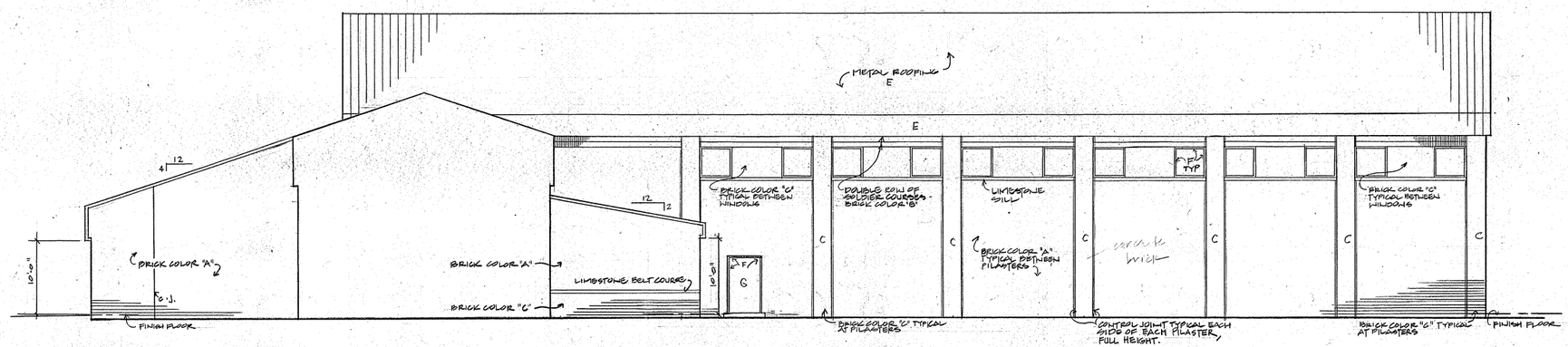
PLAN FILE NO. 91/128



3 COURTYARD ELEVATION AT GALLERY - COURTYARDS #2 & #3;
COURTYARDS #6, #7 - DOOR LOCATION ONE BAY NORTH - SEE PLANS



2 WEST ELEVATION AT DINING ROOM



1 GYMNASIUM/VOCATIONAL WING - SOUTH ELEVATION

NOTES

1. SEE NOTE 2 - A-22 FOR ALL COLOR INDICATIONS (NOTED AS LETTERS A-L ON ELEVATIONS).

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, i.e. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.

RAYMOND ERNEST WEBSTER
REGISTERED ARCHITECT
ARC 012101
STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ELEVATIONS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER	DESIGN AND CONSTRUCTION DIRECTOR
JOHN F. HUDACS	RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR
	WILLIAM F. O'CONNOR, R.A.

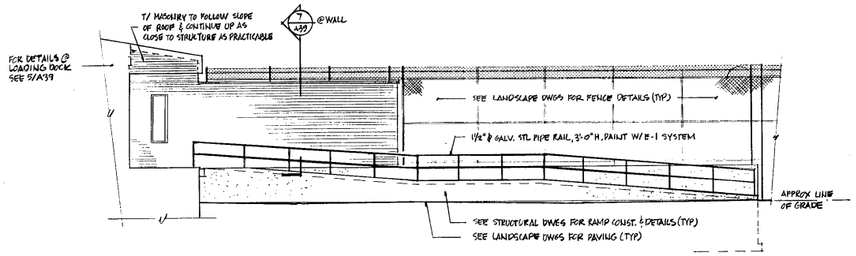
DRAWN BY	DATE	SCALE	APPROVED
D. SCOTT	11/27/91	1/8" = 1'-0"	
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A. SHAPIRO			

APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

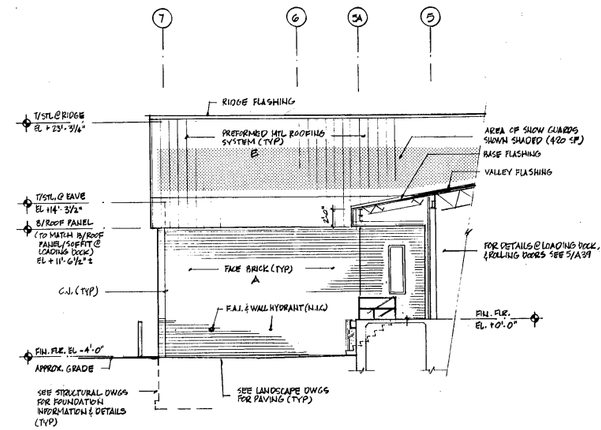
PROJECT NO.	DRAWING NO.
38317-C	A-26
	PLAN FILE NO. 91/129

SCANNED 2004

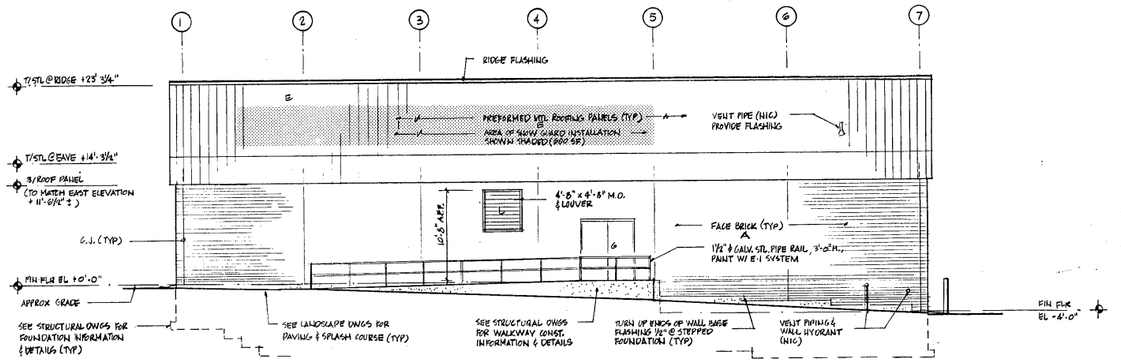
021465



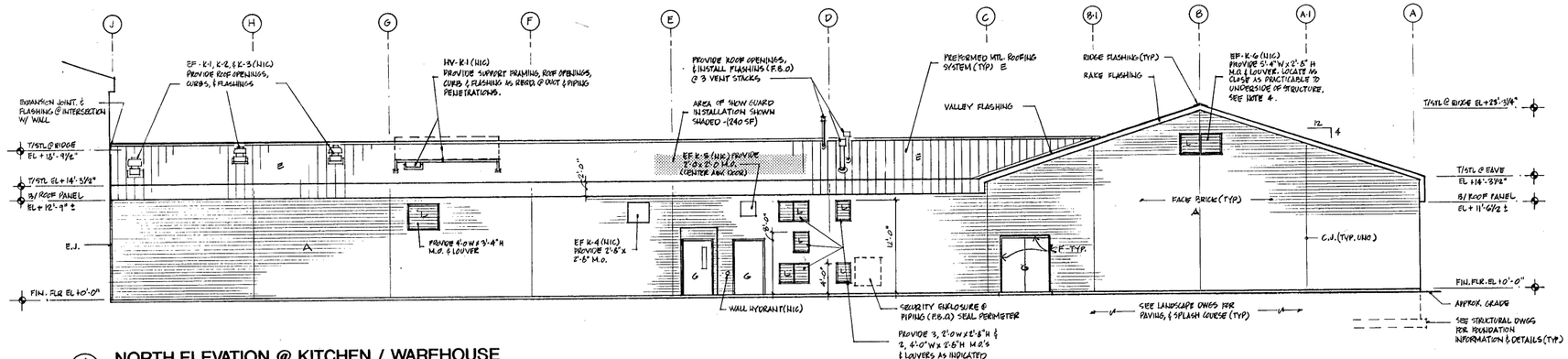
1 A27 **WEST ELEVATION @ RAMP**
1/8" = 1'-0"



2 A27 **EAST ELEVATION @ MAINTENANCE GARAGE**
1/8" = 1'-0"



3 A27 **WEST ELEVATION @ WAREHOUSE / MAINTENANCE GARAGE**
1/8" = 1'-0"



4 A27 **NORTH ELEVATION @ KITCHEN / WAREHOUSE**
1/8" = 1'-0"

NOTES

1. FINISH FLOOR REFERENCE ELEVATION 0'-0" = + 449.50' USGS DATUM.
2. ALL LOCATIONS & SIZES FOR STRUCTURE PENETRATIONS SHALL BE COORDINATED W/ RESPECTIVE TRADE CONTRACTORS. (TYP.)
3. FOR PREFORMED MTL. ROOFING DETAILS SEE A-16
4. @ WAREHOUSE, COL LINE B, 5'-4" x 2'-5 LOUVER : PROVIDE 1½" INSULATED PANEL W/ MTL. SHEET FACING TO SEAL AREA NOT REQ'D FOR HVAC DUCT CONNECTION. FINISH TO MATCH LOUVER. INSTALL USING LOUVER MANUFACTURER'S STANDARD CONTINUOUS L's @ PERIMETER. PROVIDE PERIMETER GASKETS &/OR SEALS.
5. WALL CONTROL JOINTS (C.J.) SHALL BE LOCATED @ COLUMN LOCATIONS AS INDICATED.
6. SEE NOTE 2 - A-22 FOR ALL COLOR INDICATIONS (LISTED AS LETTERS A-L ON ELEVATIONS)

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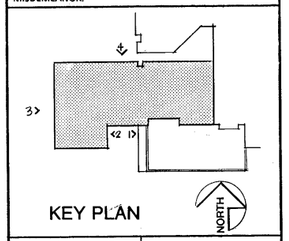


KEY PLAN

REGISTERED ARCHITECT RAYMOND ERNEST WEST 027210 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

WAREHOUSE and KITCHEN WING

BUILDING ELEVATIONS

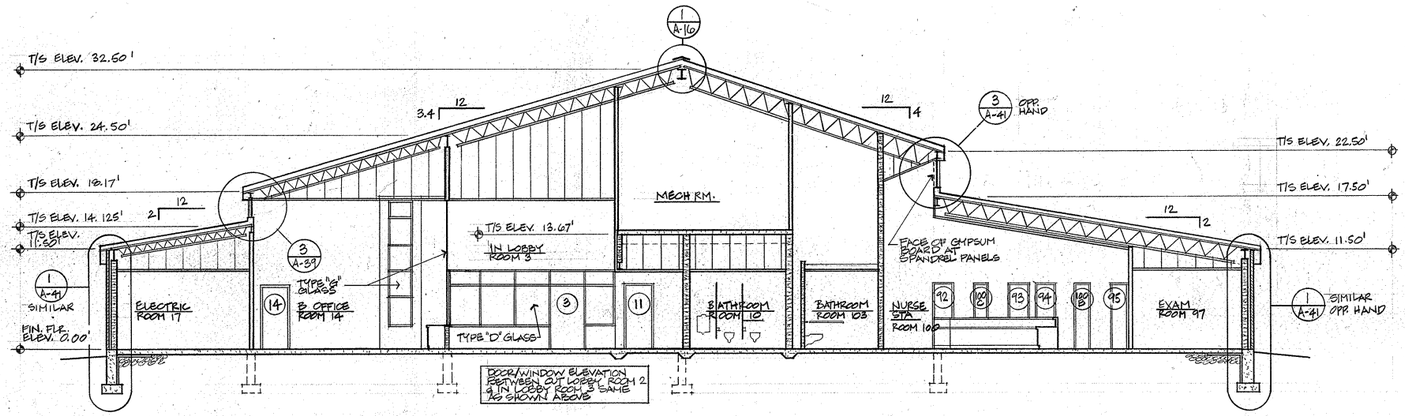
STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS	DESIGN AND CONSTRUCTION DIRECTOR RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DRAWN BY	DATE	SCALE	APPROVED
DS, A.S., R.T.	11.27.91	AS NOTED	
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
RT			—

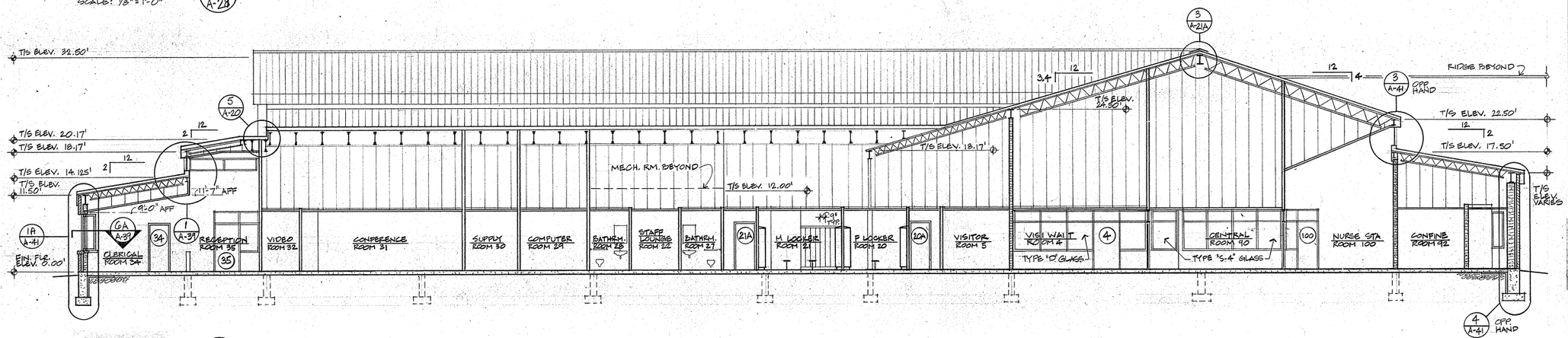
APPROVED BY DIVISION FOR YOUTH
DATED 11.27.91 LETTER NO 026344

PROJECT NO.	DRAWING NO.
38317-C	A-27
	PLAN FILE NO. 91/130



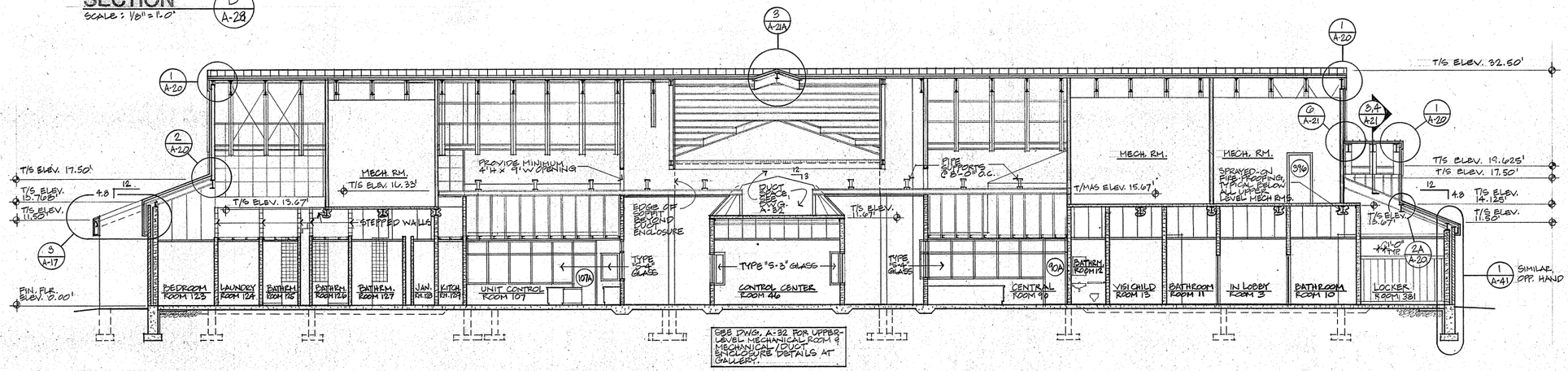
SECTION A / A-28

SCALE: 1/8" = 1'-0"



SECTION B / A-28

SCALE: 1/8" = 1'-0"



SECTION C / A-28

SCALE: 1/8" = 1'-0"

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, i.e. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.

REGISTERED ARCHITECT RAYMOND ERNEST WESSEL ARC 012101 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

CLINIC/ADMINISTRATION

BUILDING SECTIONS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER	DESIGN AND CONSTRUCTION DIRECTOR
JOHN F. HUDACS	RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR
	WILLIAM F. O'CONNOR, R.A.

DRAWN BY	DATE	SCALE	APPROVED
DAIGLER	11/27/91	1/8" = 1'-0"	
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
DAIGLER			

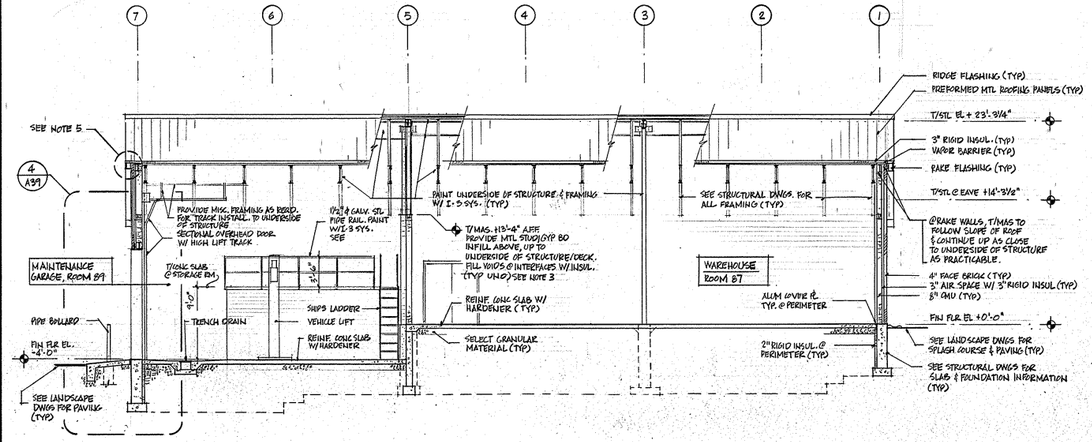
APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 0260344

PROJECT NO. 38317-C

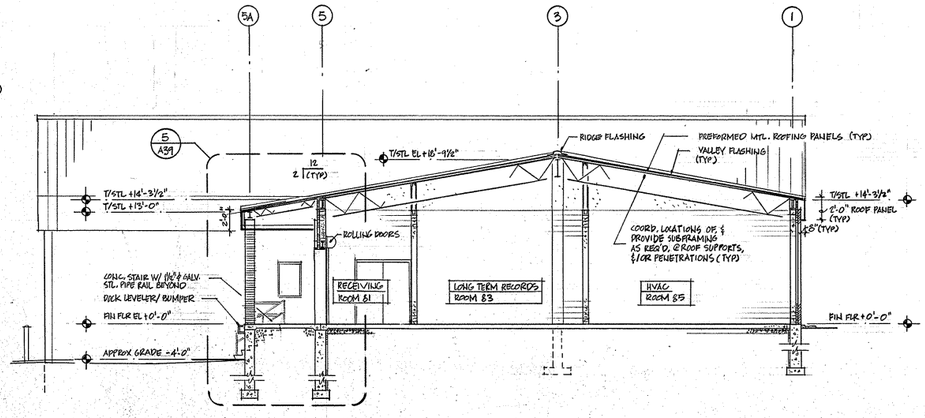
DRAWING NO. A-28

PLAN FILE NO. 91/131

057165

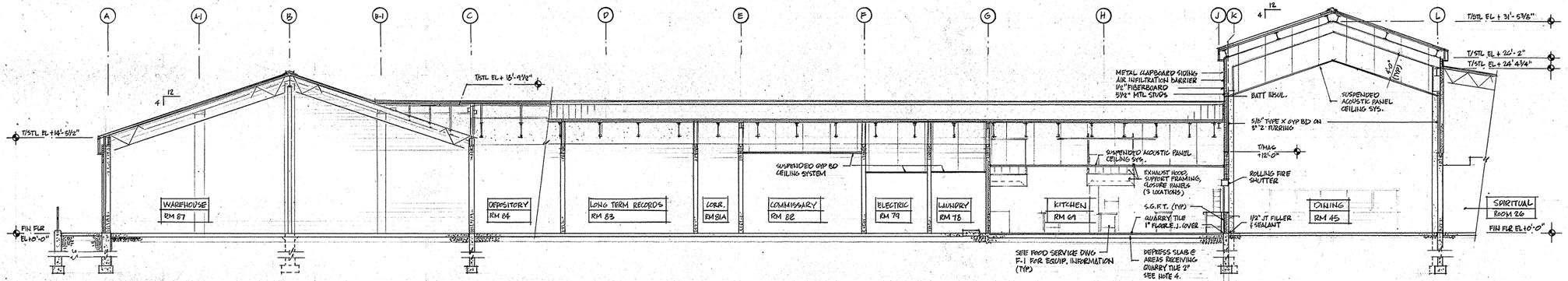


D A-29 **SECTION**



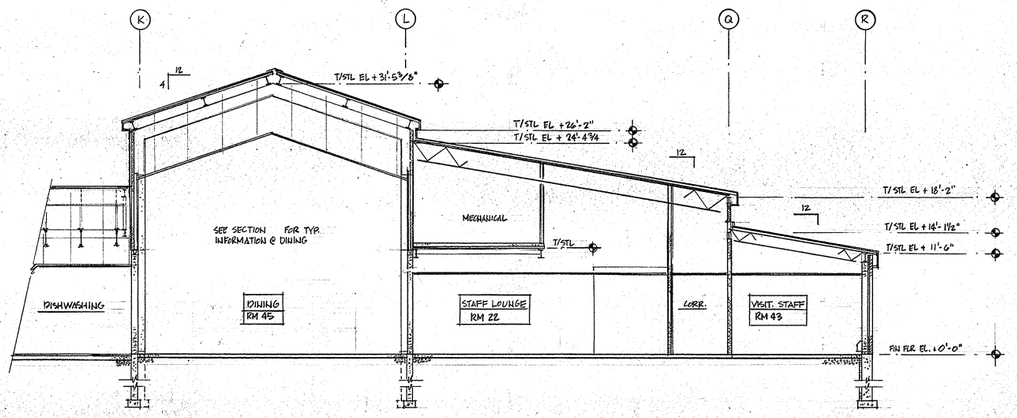
E A-29 **SECTION**

CONSTRUCTION & MATERIALS SAME AS INDICATED IN SECTION TYP. U.N.O.

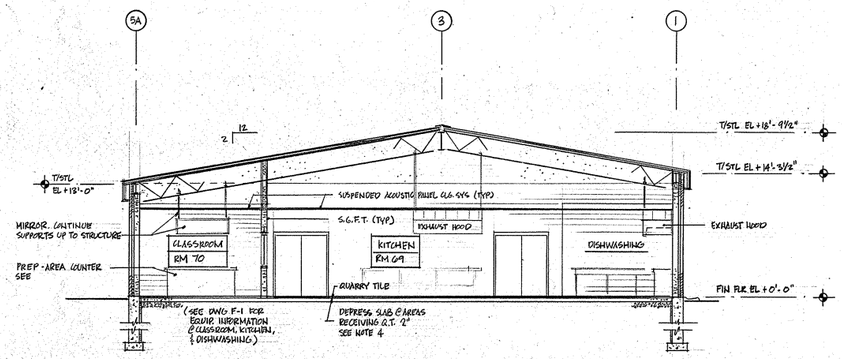


F A-29 **SECTION**

CONSTRUCTION & MATERIALS SAME AS INDICATED IN SECTION TYP U.N.O.



C A-29 **SECTION**



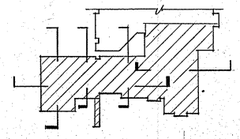
H A-29 **SECTION**

CONSTRUCTION & MATERIALS SAME AS INDICATED IN SECTION UNO

NOTES

1. FINISH FLOOR REFERENCE ELEVATION 0'-0" EQUALS 149.50' USGS DATUM.
2. SEE ROOM FINISH SCHEDULE ALSO FOR REQ'D FINISHES NOT OTHERWISE NOTED.
3. INSULATION @ NON-RATED CONSTRUCTION: FIBERGLASS BATT INSULATION @ RATED CONSTRUCTION: PER UL REQUIREMENTS
4. @ ALL AREAS W/ DEPRESSED STRUCTURAL SLAB, PROVIDE BASE COURSE FOR MASONRY WALLS AS REQ'D. TO BRING MASONRY COURSING IN ALIGNMENT W/ FIN. FLR. EL +0'-0".
5. FOR ROOFING DETAIL REFERENCES, SEE A-16 (TYP)

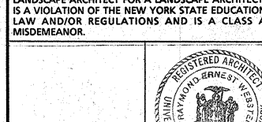
ADDENDUM DRAWING 12/30/91
REPLACES DRAWING A-29



KEY PLAN

NORTH

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, i.e. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.



CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

BUILDING SECTIONS @ WAREHOUSE, FOOD SERVICE, & ADMINISTRATION

STATE OF NEW YORK EXECUTIVE DEPARTMENT

OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN P. HUDACS	DESIGN AND CONSTRUCTION DIRECTOR RAYMOND W. CASEY III
	DIVISION OF DESIGN - DIRECTOR WILLIAM F. O'CONNOR, R.A.

DRAWN BY	DATE	SCALE	APPROVED
R.T.	12/30/91	1/8" = 1'-0"	
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK

APPROVED BY DIVISION FOR YOUTH

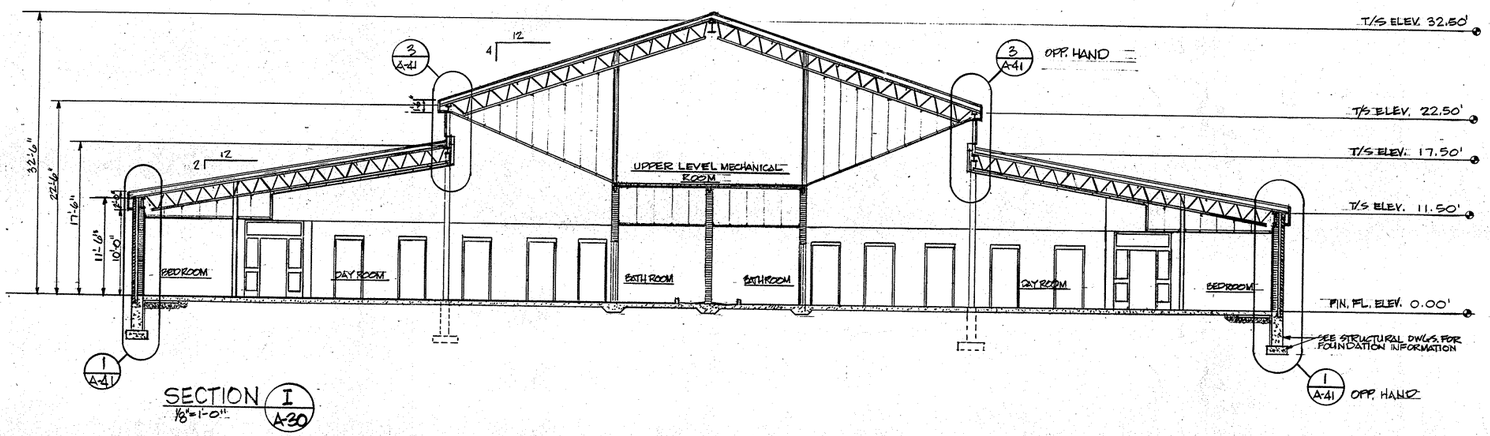
DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

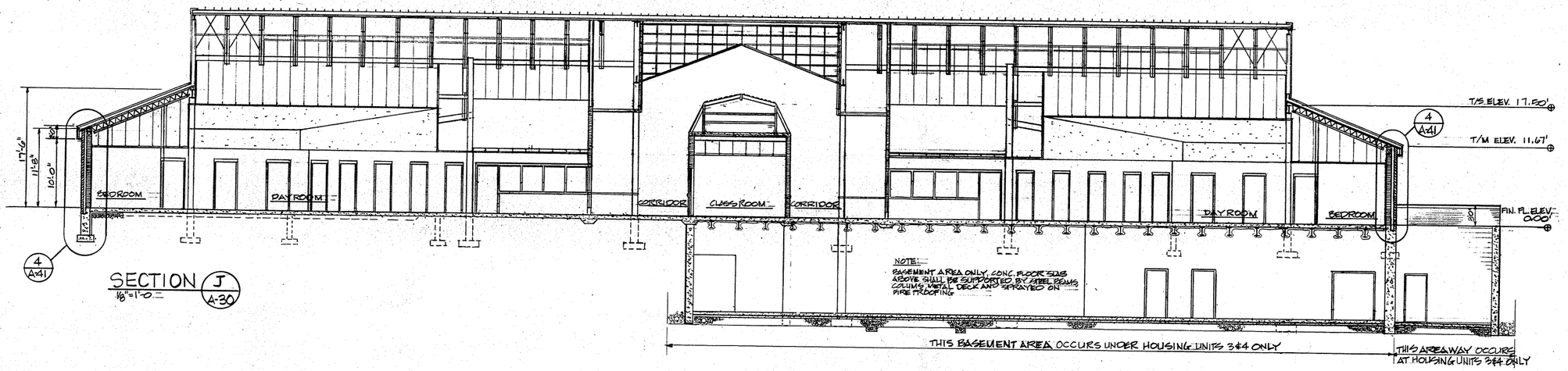
DRAWING NO. A-29 ADDENDUM DRAWING

PLAN FILE NO. 91/132

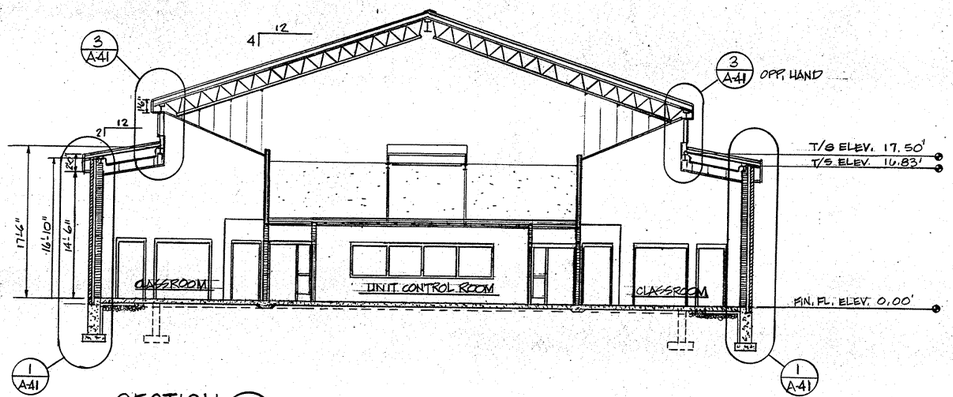
067465



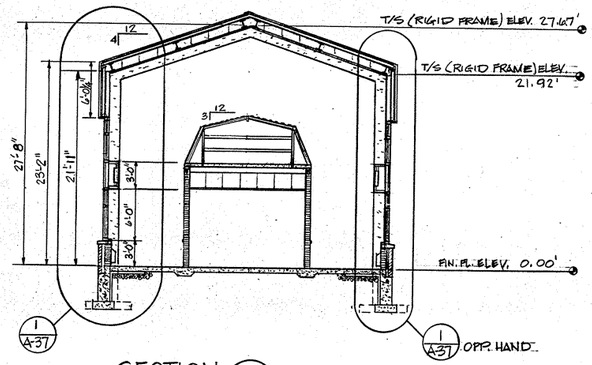
SECTION I
1/8"=1'-0" A-30



SECTION J
1/8"=1'-0" A-30



SECTION K
1/8"=1'-0" A-30



SECTION L
1/8"=1'-0" A-30

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CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

HOUSING/GALLERY BUILDING SECTIONS

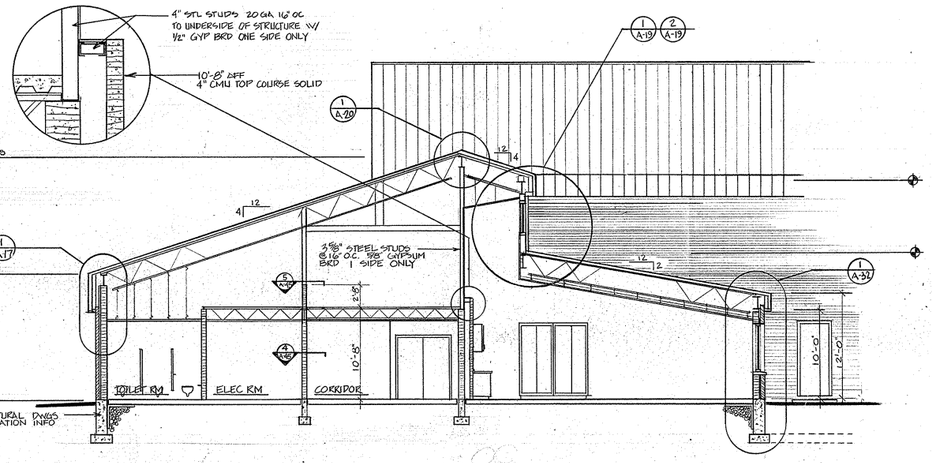
STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER	DESIGN AND CONSTRUCTION DIRECTOR
JOHN F. HUDACS	RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR
	WILLIAM F. O'CONNOR, R.A.

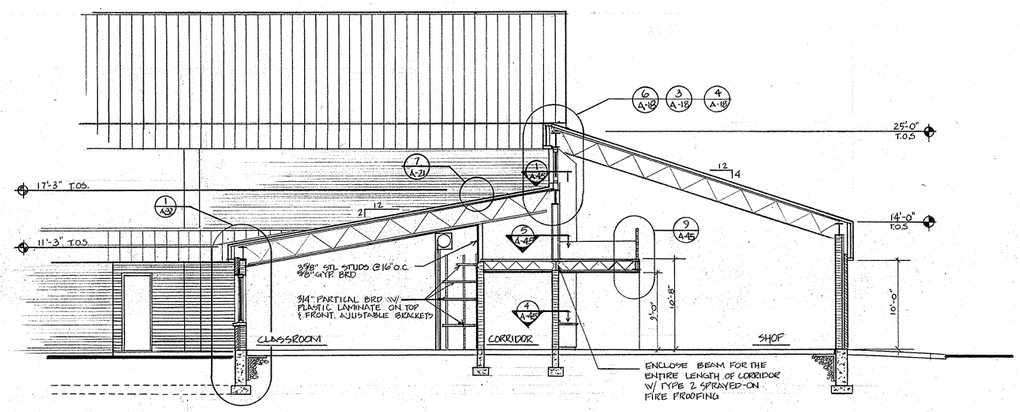
DRAWN BY	DATE	SCALE	APPROVED
A.TRAEGER	11/27/91	AS NOTED	RWD
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK

APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

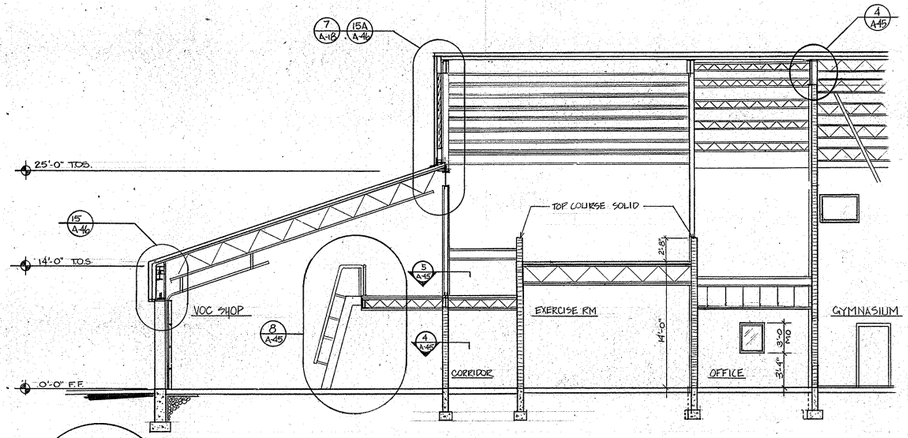
PROJECT NO.	DRAWING NO.
38317-C	A-30
	PLAN FILE NO. 91/133

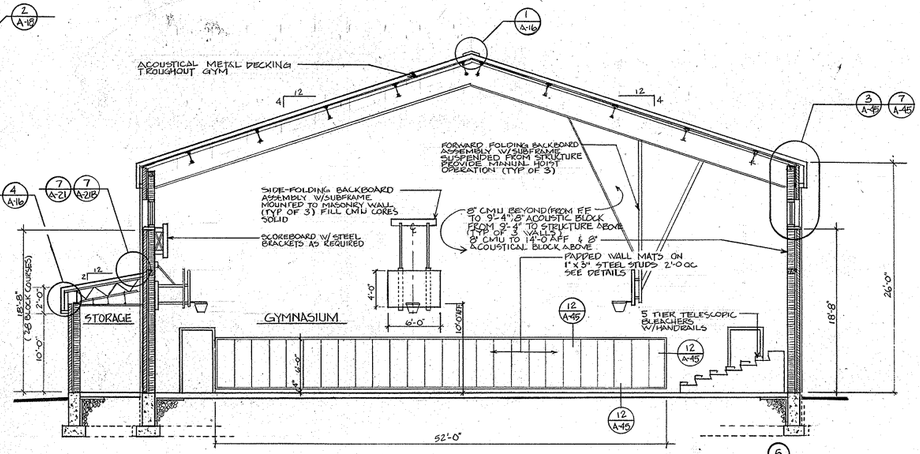


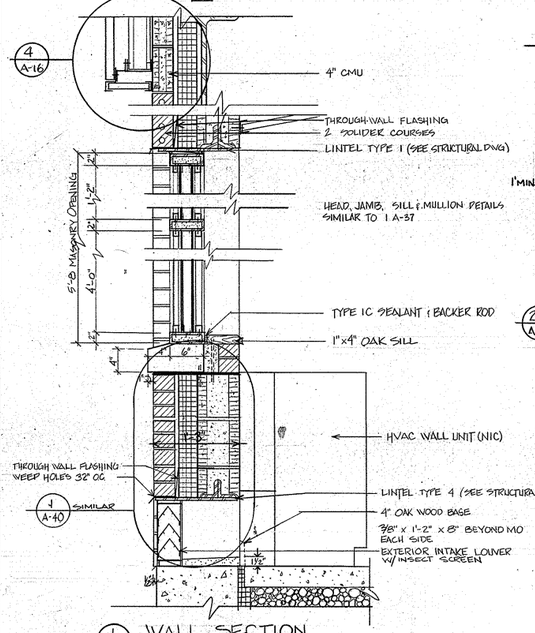
SECTION O-O



SECTION P-P

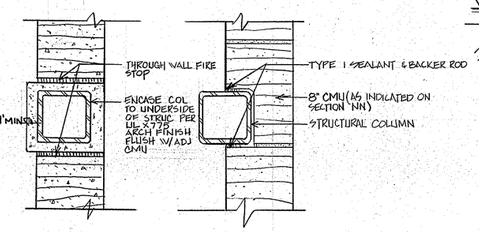






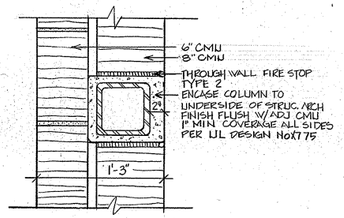
1 A-31 WALL SECTION 1"=1'-0"

SECTION MM 1¼"=1'-0"

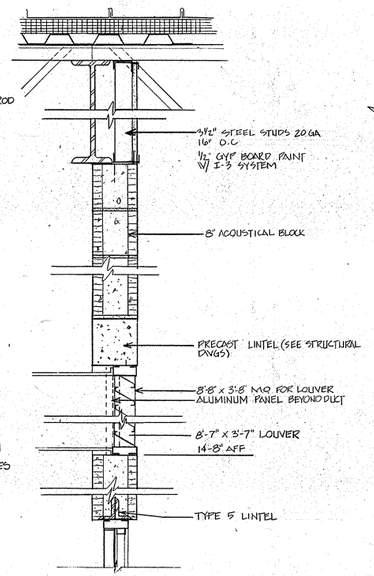


2A A-31 COLUMN DETAIL 1½"=1'-0" COL L15 & M15

2 A-31 COLUMN DETAIL 1½"=1'-0" TYP @ N7, N8, N11, N12, P7, P8, P11'S P12

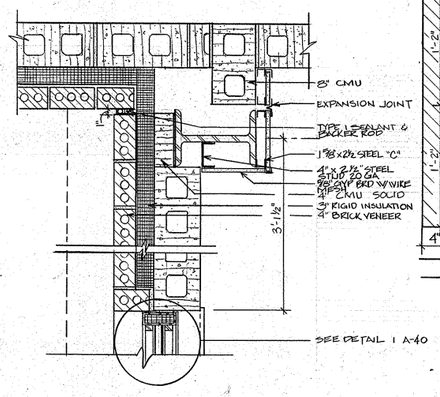


3 A-31 COLUMN DETAIL 1½=1-0 TYP @ M14 & N14 SIM @ L14

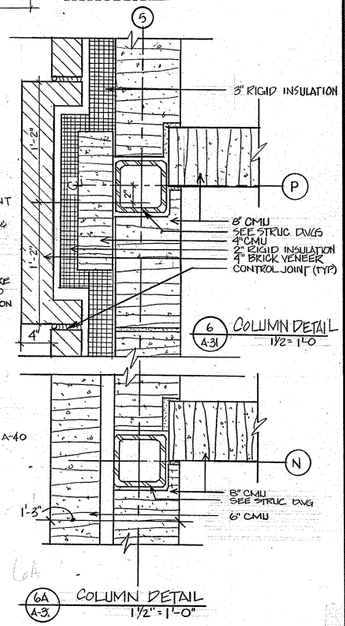


4 A-31 WALL SECTION 1"=1'-0"

SECTION N-N SCALE ¼"=1'-0"



5 A-31 COLUMN DETAIL 1½"=1'-0"



6 A-31 COLUMN DETAIL 1½"=1'-0"

6A A-3 COLUMN DETAIL 1½"=1'-0"

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REGISTERED ARCHITECT RAYMOND ERNEST WESSEL ARC 012708 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

GYM/VOCATIONAL BLDG. SECTIONS AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS	DESIGN AND CONSTRUCTION DIRECTOR RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

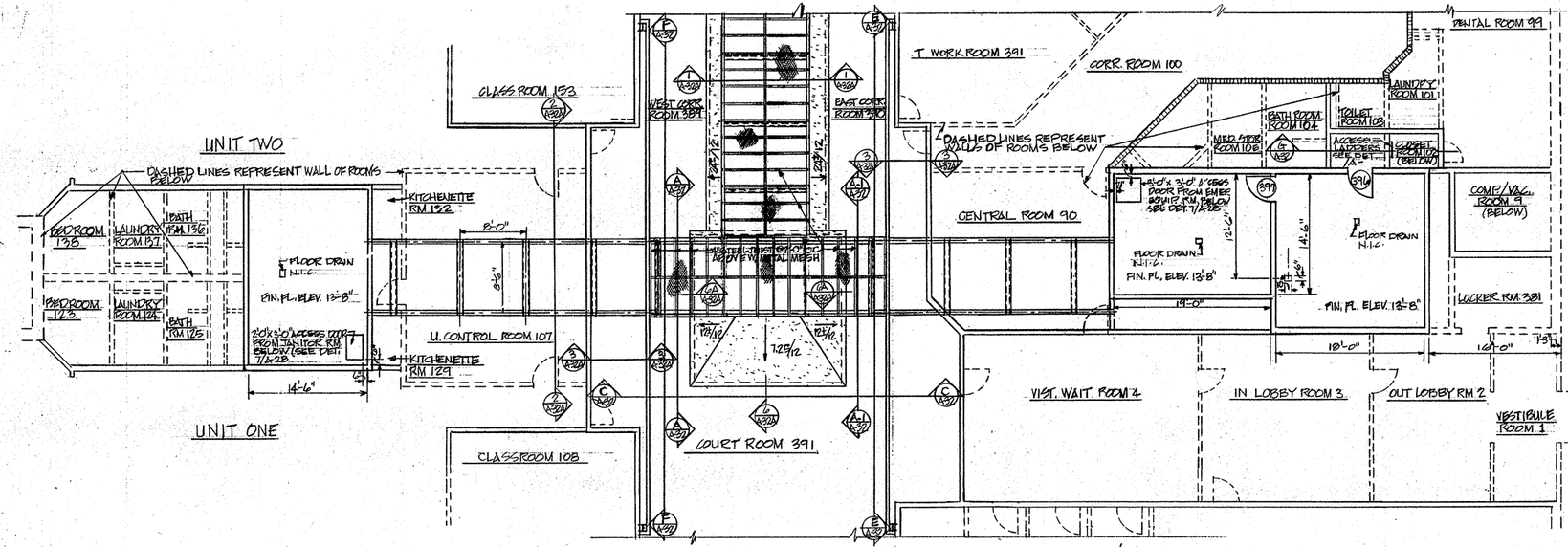
DRAWN BY	DATE	SCALE	APPROVED
THOMPSON	11/27/91	AS SHOWN	
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK

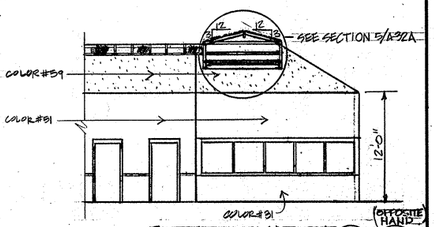
APPROVED BY Division for Youth
DATED 11/27/91 LETTER NO. 026344

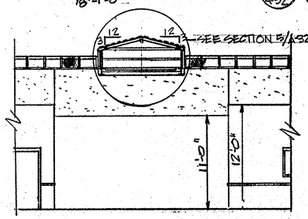
PROJECT NO. 38317-C

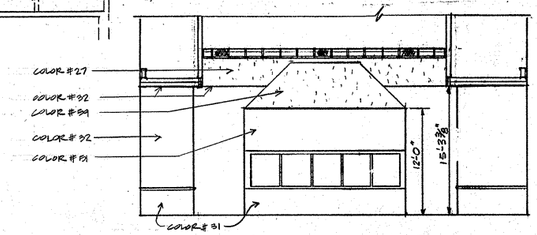
DRAWING NO. A-31

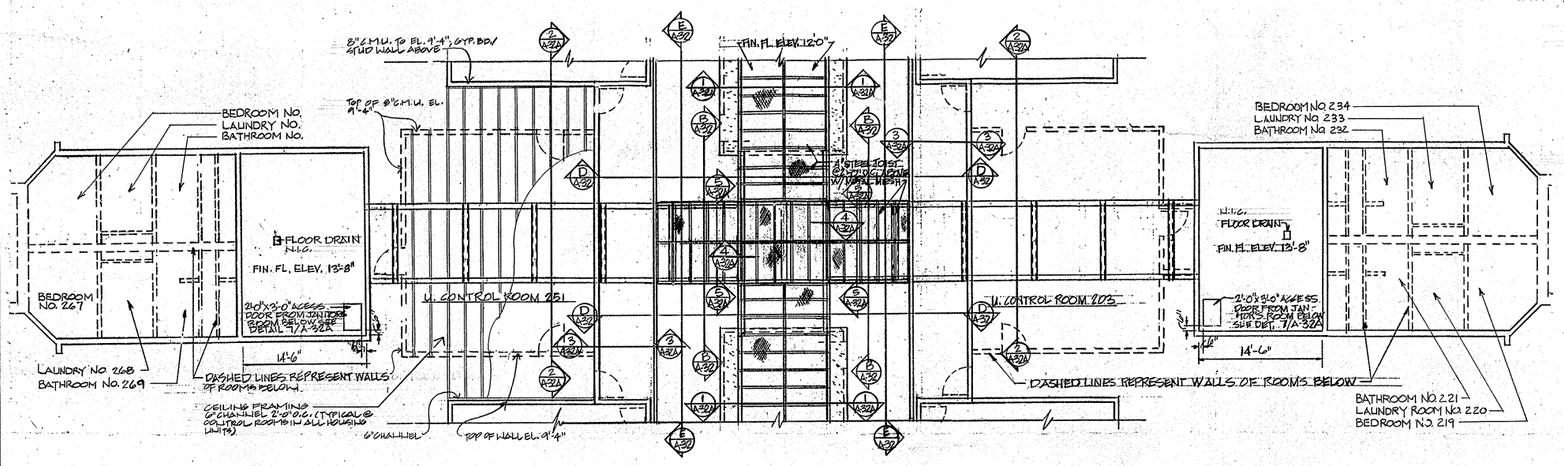
PLAN FILE NO. 91/134

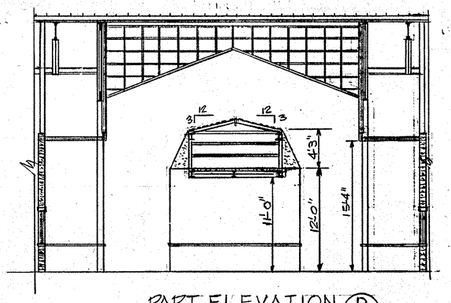


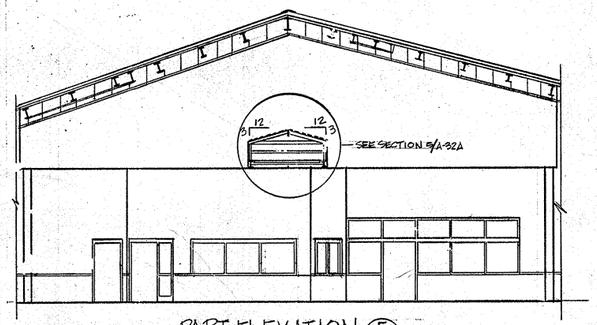


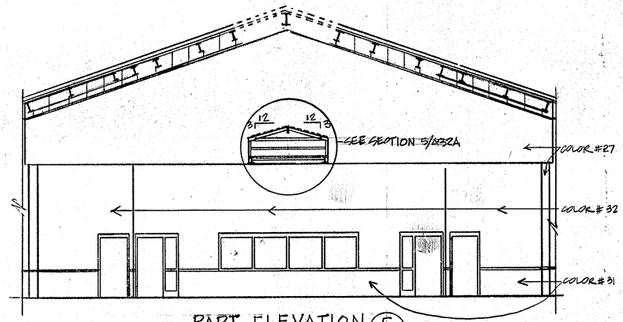


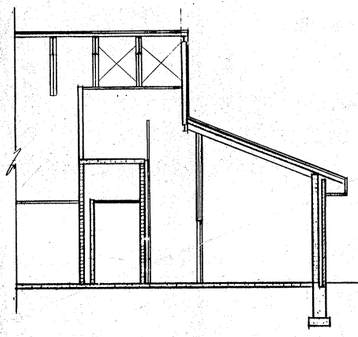


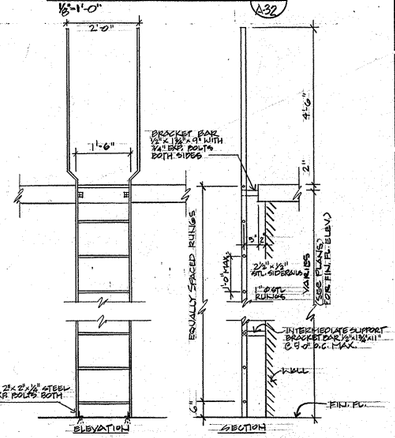












NOTES

1. SEE ROOM FINISH SCHEDULE FOR COLORS.

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REGISTERED ARCHITECT RAYMOND ERNEST WEBSTER ARC 019701

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

UPPER LEVEL MECHANICAL ROOM PLANS

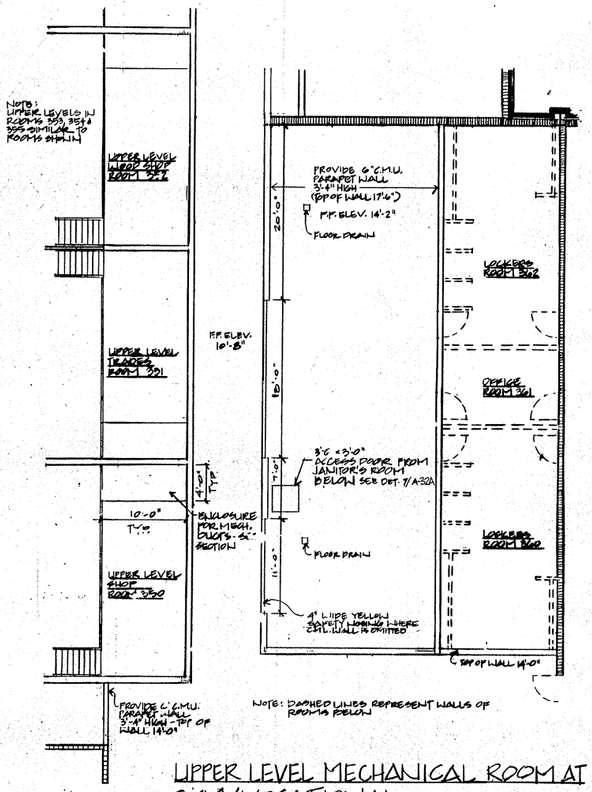
STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS	DEPUTY COMMISSIONER FOR CONSTRUCTION Div. TON RAYMOND W. [illegible]
	DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

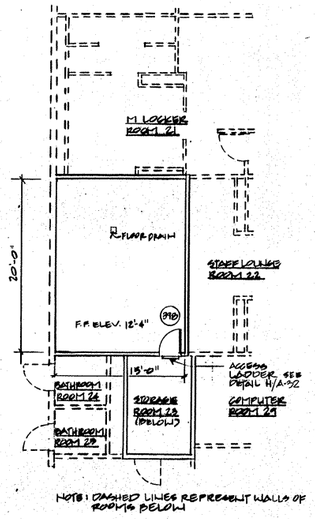
DRAWN BY	DATE	SCALE	APPROVED
A. TRAEGLER	11/27/91	1/8"=1'-0" U.O.N.	[illegible]
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK

APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	A-32
	PLAN FILE NO. 91/135

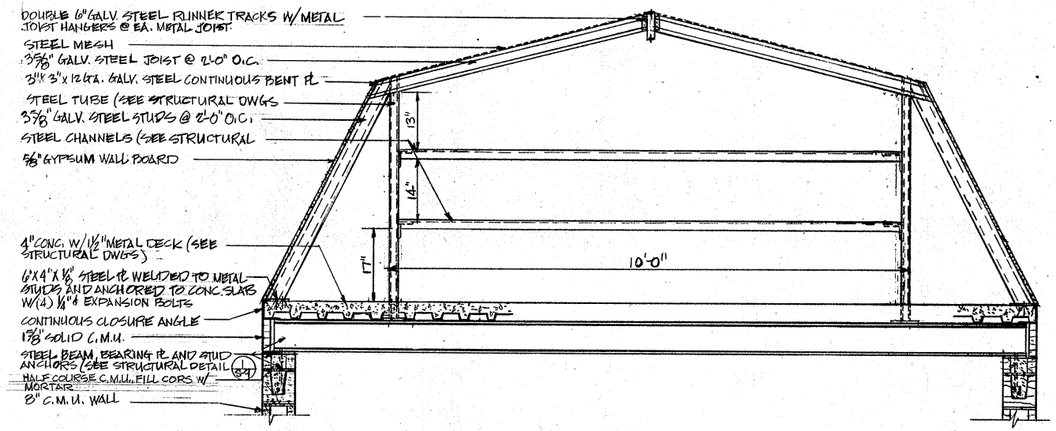


UPPER LEVEL MECHANICAL ROOM AT GYM/VOCATIONAL

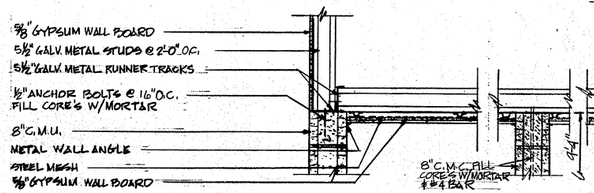


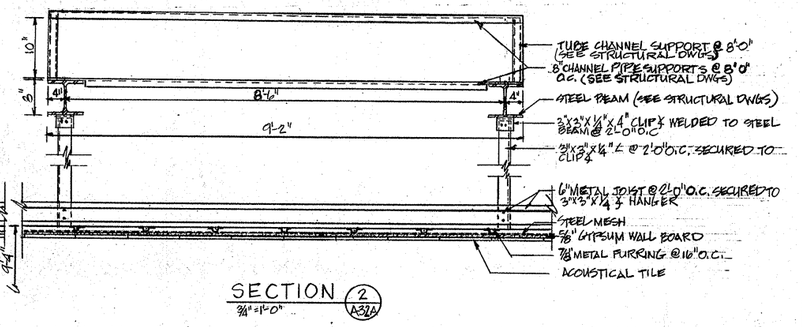
NOTE: DASHED LINES REPRESENT WALLS OF ROOMS BELOW

UPPER LEVEL MECHANICAL ROOM AT ADMINISTRATION



SECTION 1/A-32A
3/4"=1'-0"





SECTION 2/A-32A
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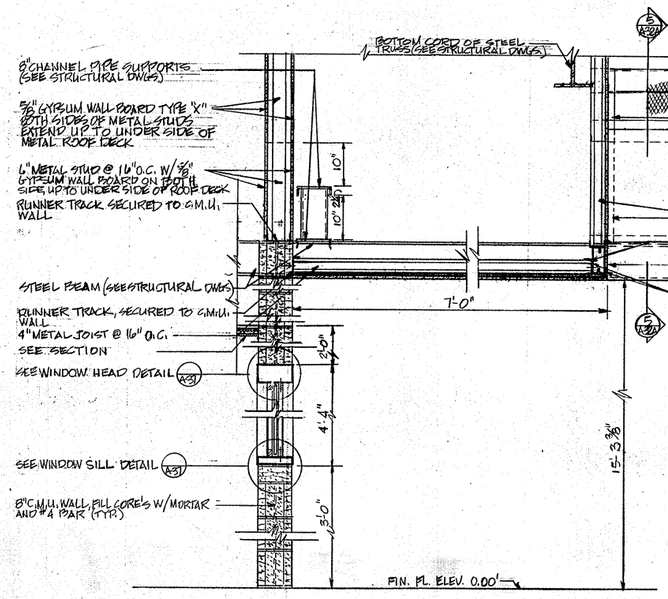

SECTION 3/A-32A
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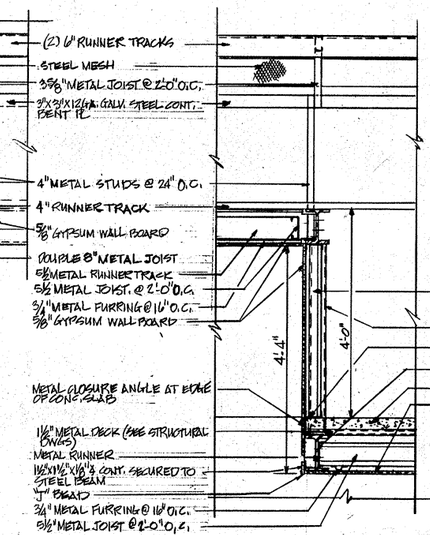

SECTION 4/A-32A
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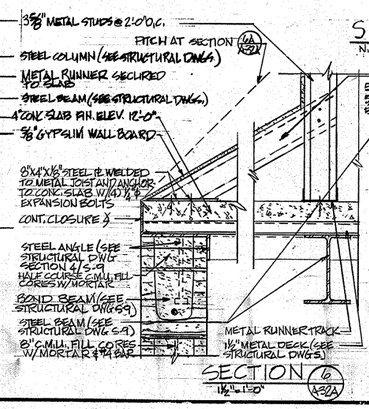
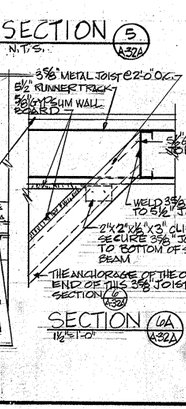
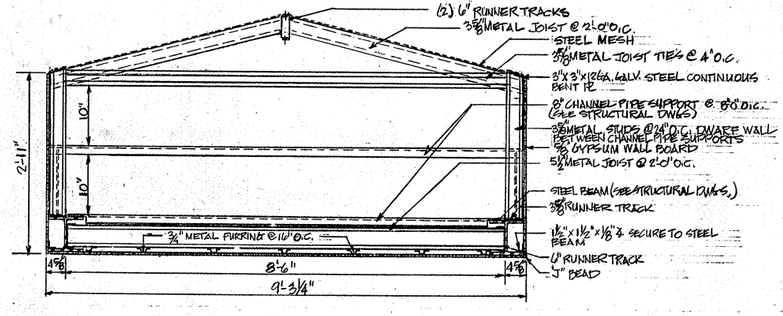


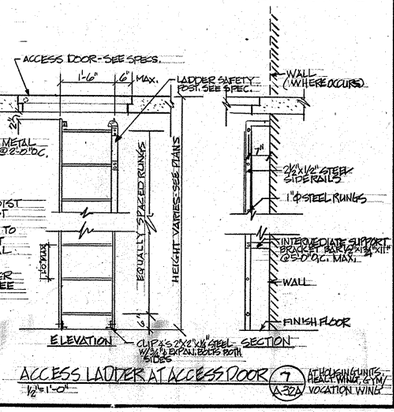
SECTION 5/A-32A
N.T.S.



SECTION 6A/A-32A
1½"=1'-0"



SECTION 6/A-32A
1½"=1'-0"



ACCESS LADDER AT ACCESS DOOR 7/A-32A
1½"=1'-0"

ALL PLUMBING FIXTURES IN HEALTH WING, GYM, VOCATION WING

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, i.e. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.

REGISTERED ARCHITECT RAYMOND CARNEY WEST JR. NEW YORK ARC 012101

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

UPPER LEVEL MECHANICAL ROOM PLANS AND SECTIONS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

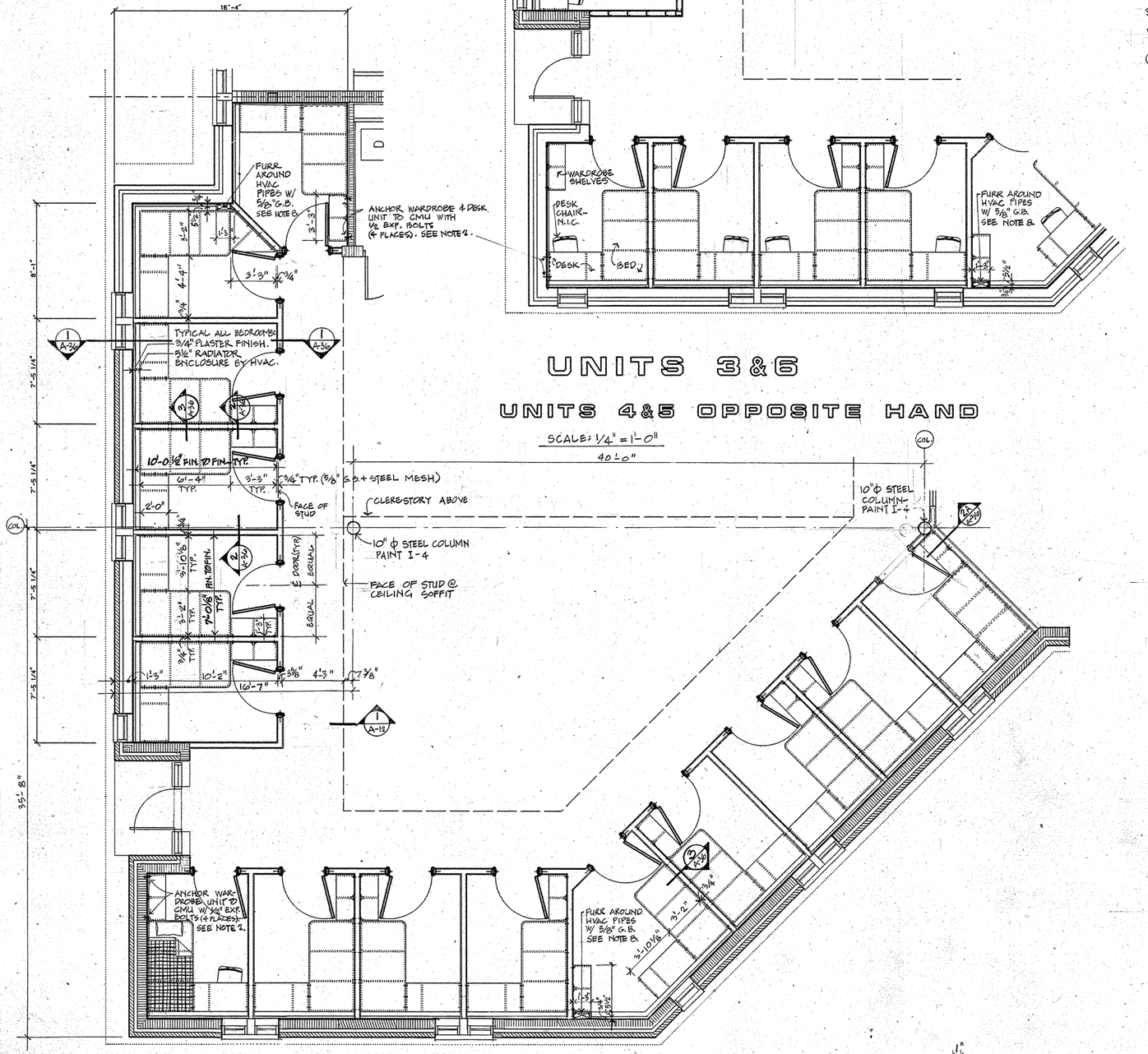
COMMISSIONER JOHN F. HUDACS	DESIGN AND CONSTRUCTION DIRECTOR RAYMOND W. CASEY II:
	DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

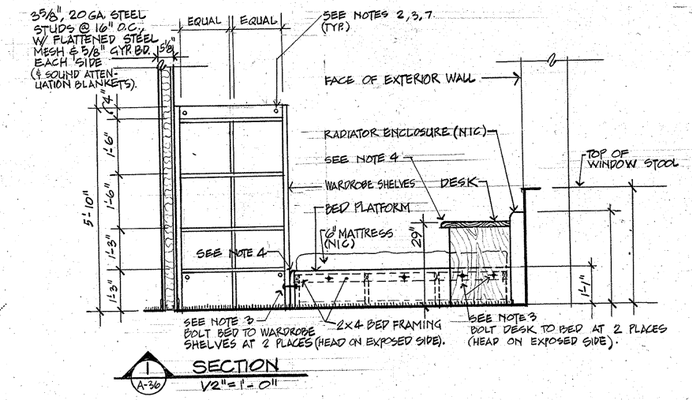
DRAWN BY	DATE	SCALE	APPROVED
ATRAEGLER	11/27/91	AS NOTED	
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK

APPROVED BY DIVISION FOR YOUTH

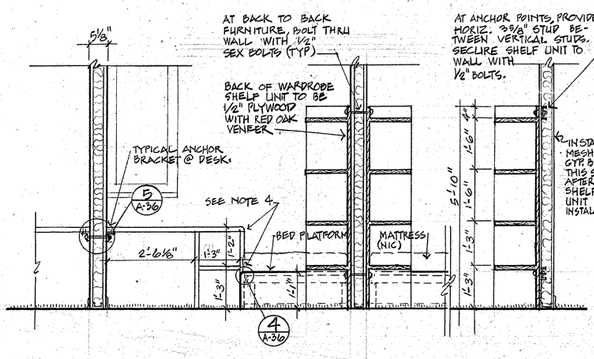
DATED 11/27/91 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	A-32A
	PLAN FILE NO. 91/136



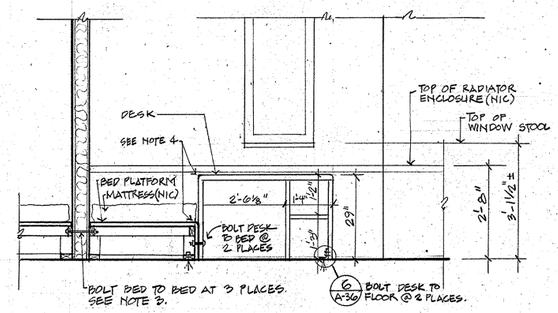


1 A-36 SECTION 1/2" = 1'-0"

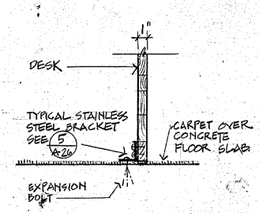


2 A-36 SECTION 1/2" = 1'-0"

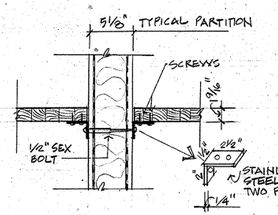
SECTION 2A A-36 1/2" = 1'-0"



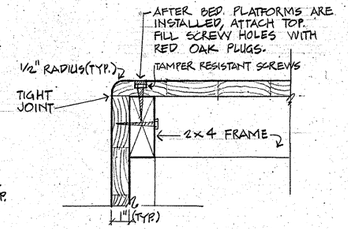
3 A-36 SECTION 1/2" = 1'-0"



6 A-36 FLOOR ANCHORAGE @ DESK 1 1/2" = 1'-0" (SEE NOTE 2)



5 A-36 TYPICAL ANCHOR BRACKET @ DESKTOP 1 1/2" = 1'-0" (SEE NOTE 2)



4 A-36 BED FRAME EDGE DETAIL 3" = 1'-0"

NOTES

UNLESS NOTED OTHERWISE:

1. CONSTRUCT FURNITURE OF 1" THICK RED OAK BUTCHER BLOCK; ON DESK TOPS PROVIDE 1 9/16" THICK BUTCHER BLOCK. FINISH AS SPECIFIED IN SECTION 12622.
2. ALL FASTENERS SHALL BE TAMPER RESISTANT (TYPICAL).
3. SECURE FURNITURE WITH 1/2"ϕ OVAL HEAD CADMIUM PLATED SCREWS, SEX BOLTS, EXPANSION BOLTS, OR BOLTS WITH NUTS & WASHERS.
4. ROUND ALL EXPOSED EDGES OF FURNITURE, R=1/2".
5. FIELD-VERIFY BEDROOM DIMENSIONS BEFORE FABRICATING FURNITURE.
6. PLAN DIMENSIONS ARE TO FACE OF CMU OR FACE OF STUD, UNLESS NOTED OTHERWISE.
7. ALL EXPOSED SCREW & BOLT HEADS TO BE OVAL HEAD, CADMIUM PLATED.
8. FACE OF PIPE CHASE SHALL MATCH FACE OF RADIATOR ENCLOSURE. COORDINATE WITH "H" CONTRACTOR.

WARNING
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REGISTERED ARCHITECT RAYMOND ERNEST WEBSTER ARC 012267 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

HOUSING UNITS

FURNITURE LAYOUT DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

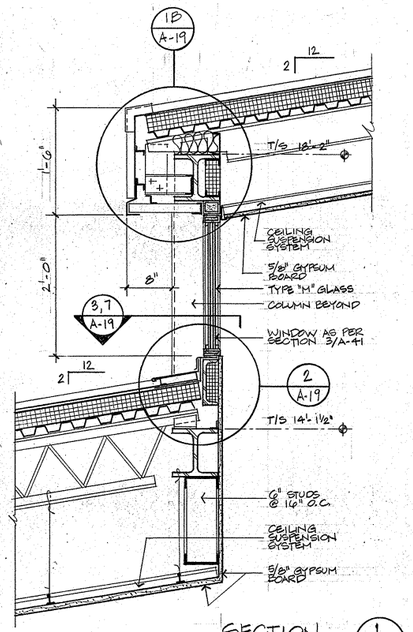
DESIGNED BY	DATE	SCALE	APPROVED
GH	11/27/91	AS NOTED	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
GH AM RW		—	—

APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

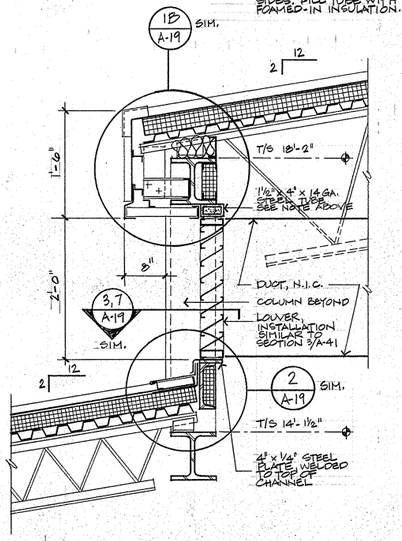
PROJECT NO. 38317-C

DRAWING NO. A-36

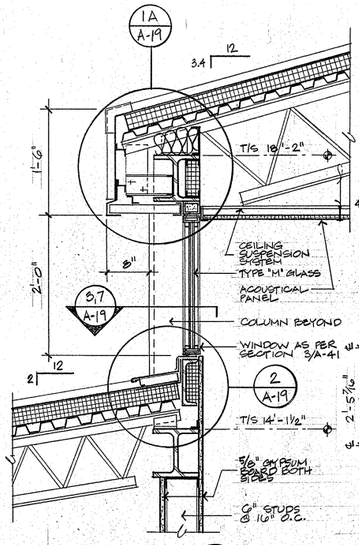
PLAN FILE NO. 91/140



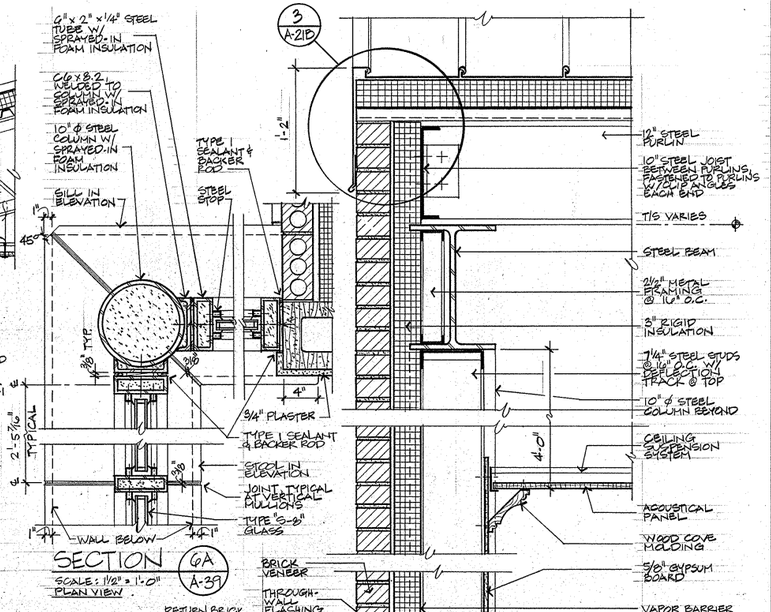
SECTION 1 A-39
SCALE: 1"=1'-0"



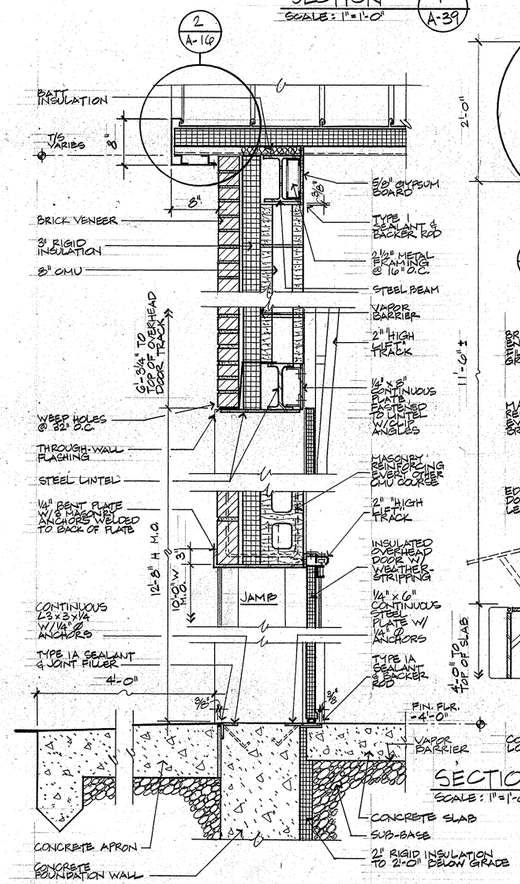
SECTION 2 A-39
SCALE: 1"=1'-0"
NOTE: SECTION SHOWN AT LOUVER. SIMILAR AT SPANDREL PANEL.



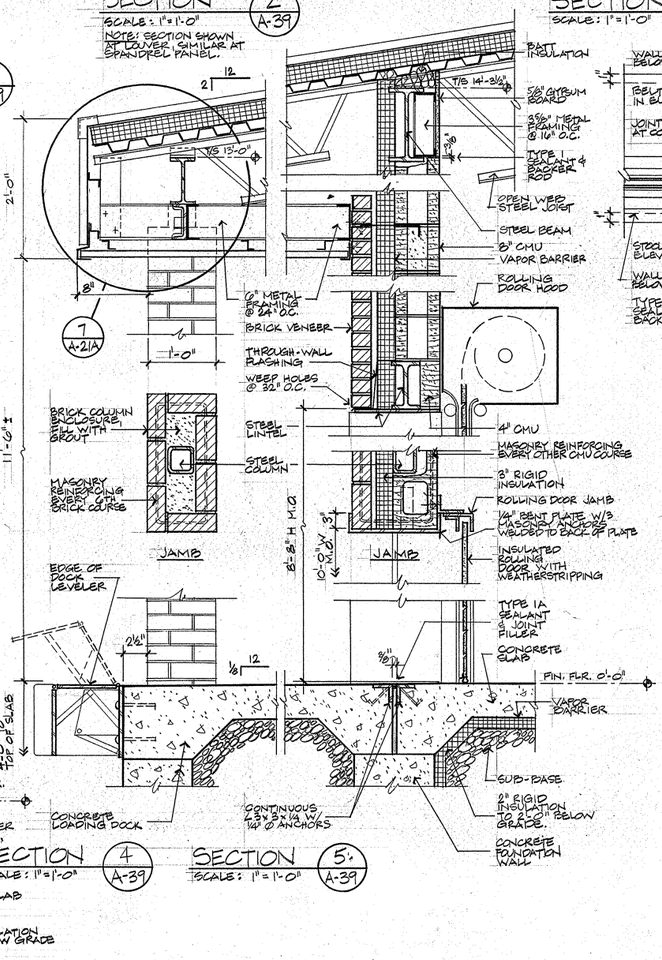
SECTION 3 A-39
SCALE: 1"=1'-0"



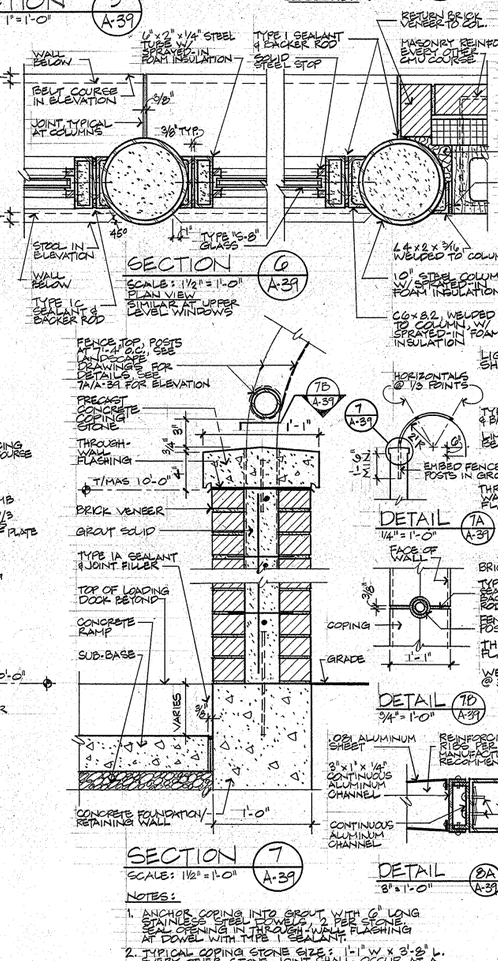
SECTION 6A A-39
SCALE: 1½" = 1'-0"
PLAN VIEW



SECTION 4 A-39
SCALE: 1"=1'-0"

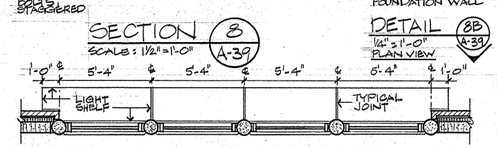


SECTION 5 A-39
SCALE: 1" = 1'-0"



SECTION 6 A-39
SCALE: 1½" = 1'-0"
PLAN VIEW SIMILAR AT UPPER LEVEL WINDOWS

NOTES:
1. ANCHOR COPING INTO GROUT WITH 6" LONG STAINLESS STEEL DOWELS, 2 PER STONE. SEAL COPING IN THROUGH-WALL FLASHING AT DOWEL WITH TYPE I SEALANT.
2. TYPICAL COPING STONE SIZE: 1'-1" W x 3'-8" L. EVERY OTHER STONE JOINT SHALL OCCUR AT A FENCE TOP POST, SEE DETAIL 7D/A-39.



SECTION 8 A-39
SCALE: 1½" = 1'-0"
PLAN VIEW

DETAIL 8B A-39
1½" = 1'-0"

NOTES:

1. SEE STRUCTURAL DRAWINGS FOR ALL STEEL BEAMS, JOISTS, PURLINS, COLUMNS & LINTELS. CONCRETE FOUNDATIONS & SLABS, RAMPS, APRONS & REINFORCING.
2. ALL STEEL EXPOSED TO THE EXTERIOR AND WINDOWS SHALL BE GALVANIZED. PAINT ALL STEEL AT EXTERIOR W/ TYPE ET SYSTEM.
3. ALUMINUM COMPONENTS AT LIGHT SHELVES SHALL BE PRE-FINISHED.

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REGISTERED ARCHITECT RAYMOND ERNEST WEBSTER UNIV. OF THE STATE OF NEW YORK ARC 012101

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

CLINIC/ADMINISTRATION

WALL & CLERESTORY SECTIONS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

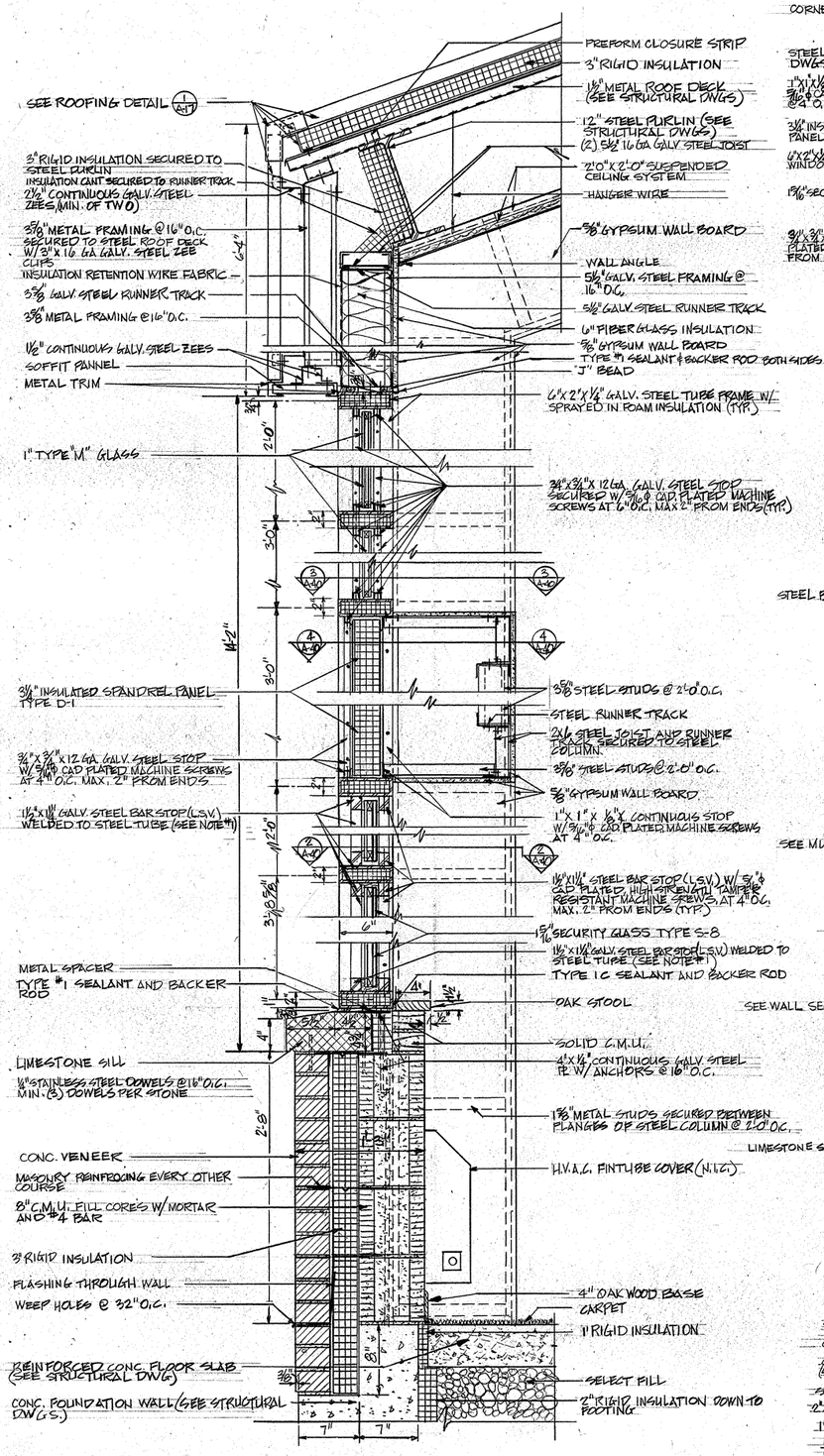
COMMISSIONER JOHN F. HUDACS	DESIGN AND CONSTRUCTION DIRECTOR RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DRAWN BY	DATE	SCALE	APPROVED
DAIGLER	11/27/91	AS NOTED	JOD
TRACED BY	**CHECKED BY**	**STRUCTURAL CHECK**	**FIELD CHECK**
DAIGLER			

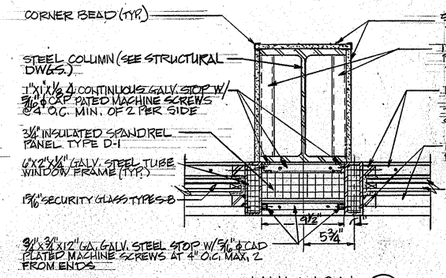
APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 0260344

PROJECT NO. 38317-C
DRAWING NO. A-39
PLAN FILE NO. 91144

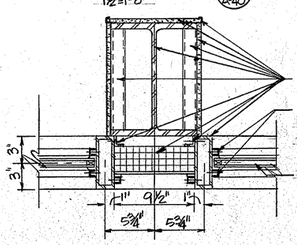
061453



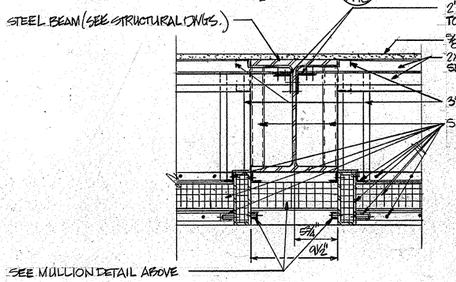
WALL SECTION 1 / A40
1½"=1'-0"



MULLION 2 / A40
1½"=1'-0"



MULLION 3 / A40
1½"=1'-0"



MULLION 4 / A40
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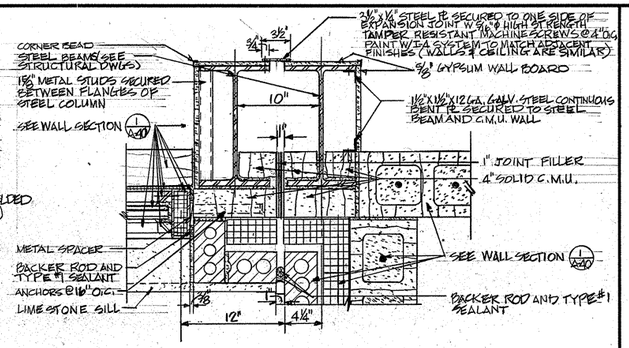

JAMB 6 / A40
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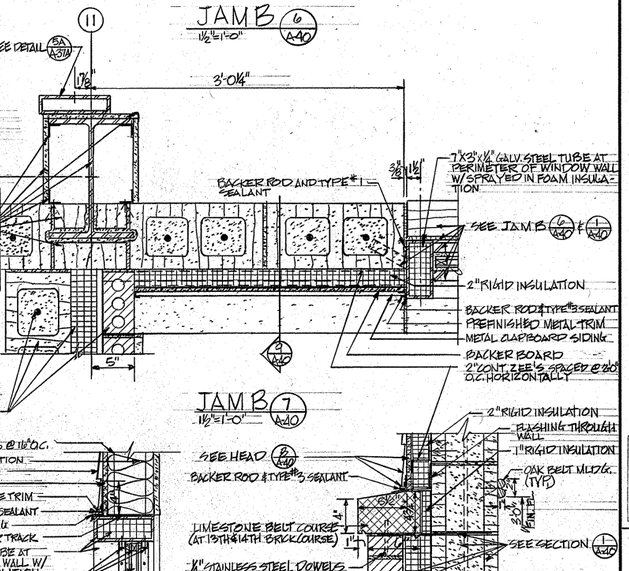

JAMB 7 / A40
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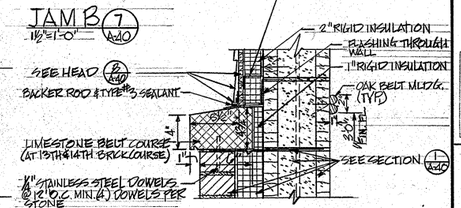

JAMB 10 / A40
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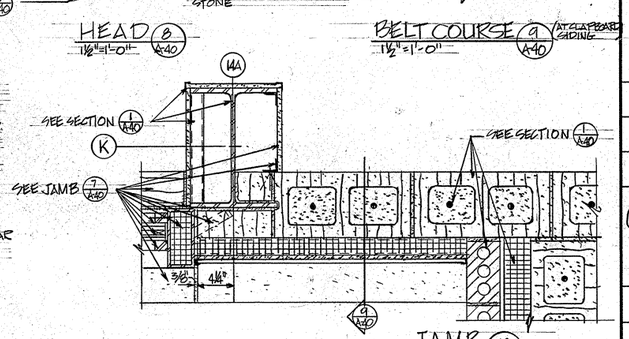
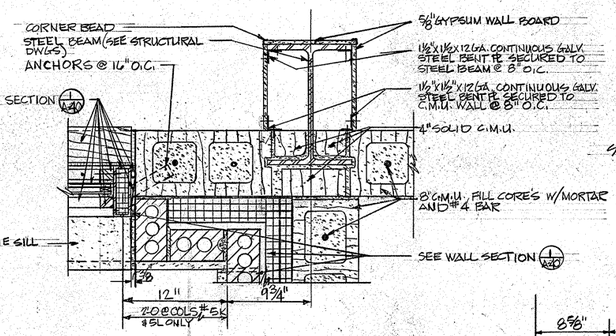
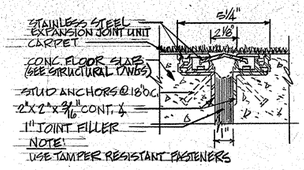


HEAD 8 / A40
1½"=1'-0"

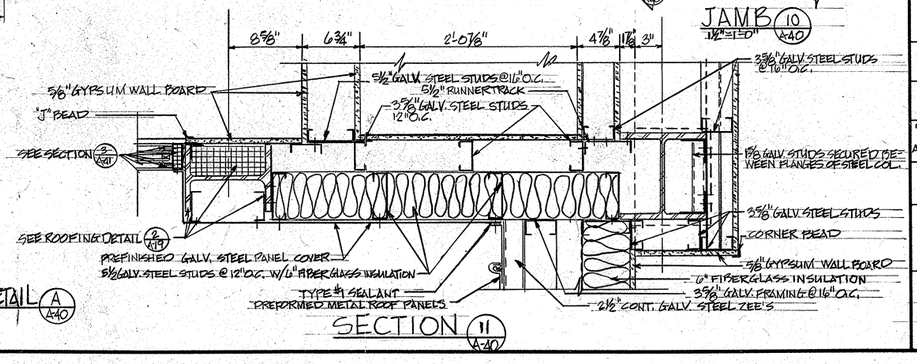
BELT COURSE 9 / A40
AT CLAPBOARD SIDING
1½"=1'-0"



JAMB 5 / A40
1½"=1'-0"



TYPICAL EXPANSION JOINT DETAIL A / A40
3"=1'-0"



SECTION 11 / A40

NOTES:

1. WELD 1½" X 1¼" CONTINUOUS GALV. STEEL STOP (L.S.V.) TO TUBE STEEL FRAME WITH 1½" WELDS @ 6" O.C. MAX. EACH SIDE STAGGERED 1" MAX FROM END TYPICAL ALL AROUND

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, i.e. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.

REGISTERED ARCHITECT RAYMOND ERNEST HERTTER UNIVERSITY OF THE STATE OF NEW YORK ARC 012101

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

GALLERY WALL SECTIONS AND MISC. DETAILS

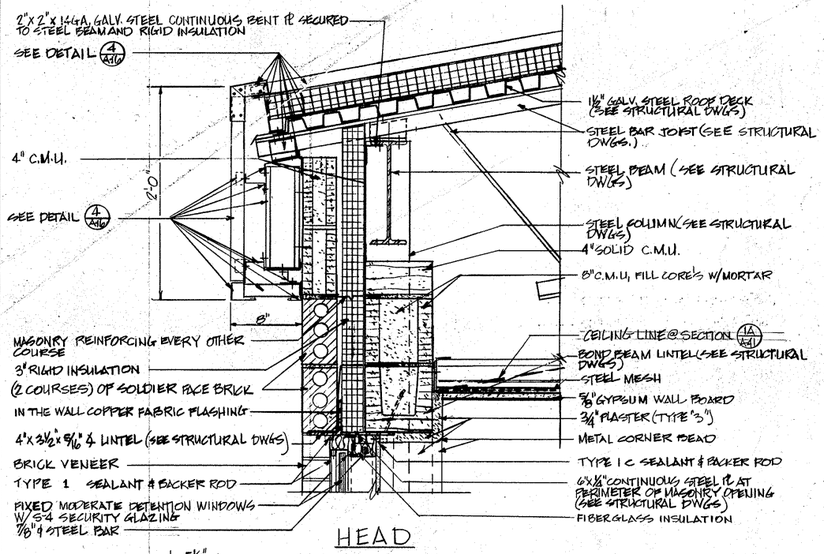
STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER	DESIGN AND CONSTRUCTION DIRECTOR
JOHN F. HUDACS	RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR
	WILLIAM F. O'CONNOR, R.A.

DRAWN BY	DATE	SCALE	APPROVED
A. TRAEGLER	11/27/91	AS NOTED	
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK

APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C
DRAWING NO. A-40
PLAN FILE NO. 91/145



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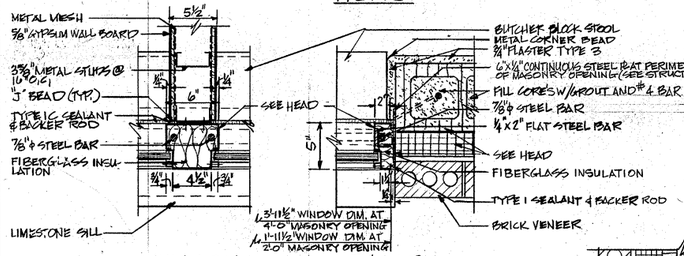

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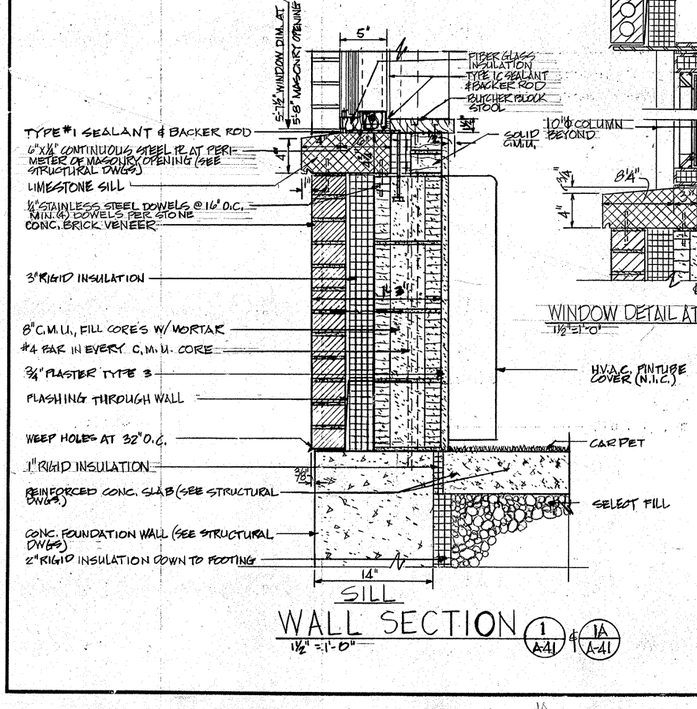
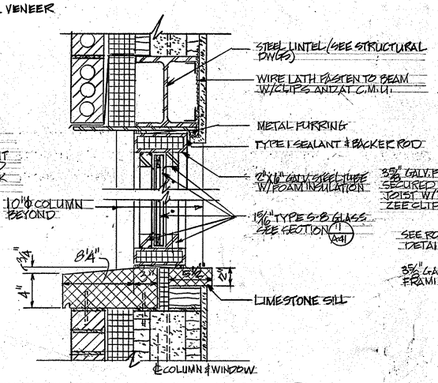
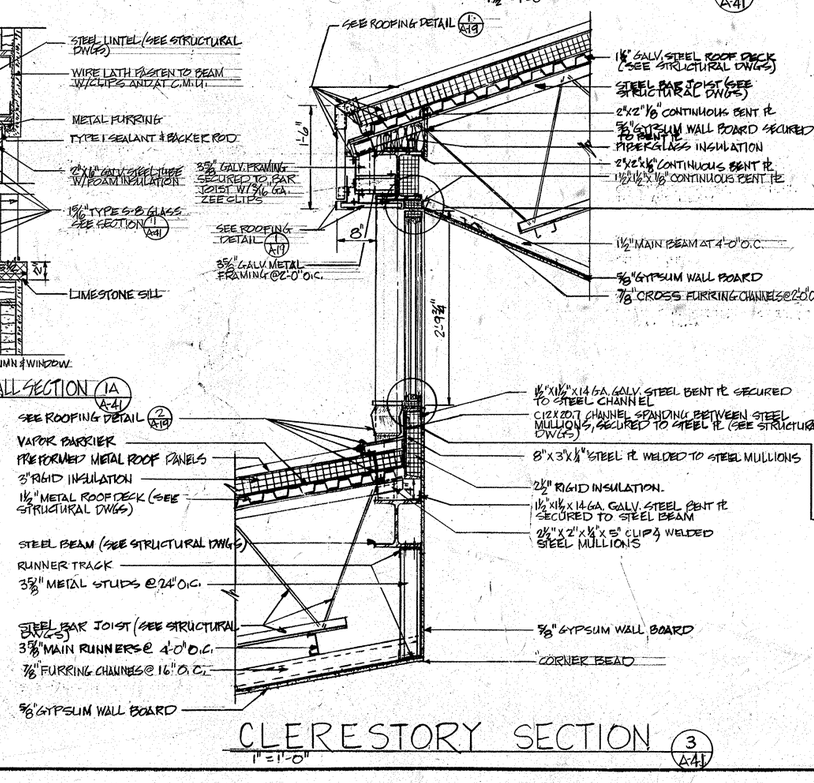


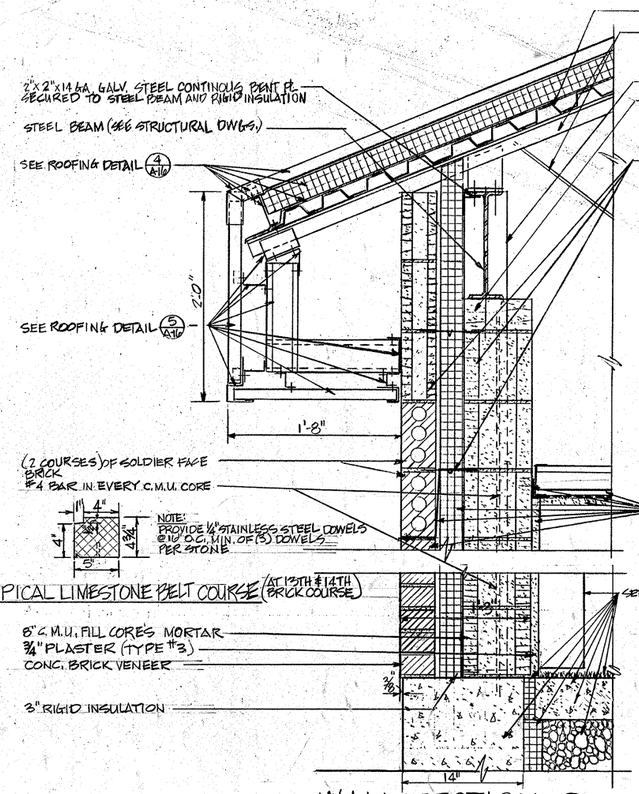
WALL SECTION 1 A-41 & 1A A-41
1½" = 1'-0"



WINDOW DETAIL AT WALL SECTION 1A A-41
1½" = 1'-0"

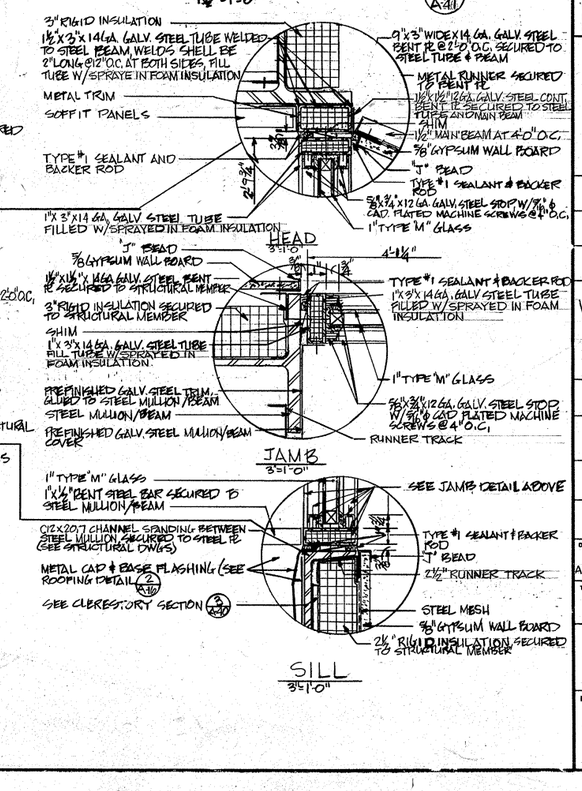


CLERESTORY SECTION 3 A-41
1" = 1'-0"



WALL SECTION 2 A-41
1½" = 1'-0"

WALL SECTION 4 A-41
1½" = 1'-0"



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REGISTERED ARCHITECT RAYMOND ERNEST ALBERTS 019101 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

WALL AND CLERESTORY SECTIONS

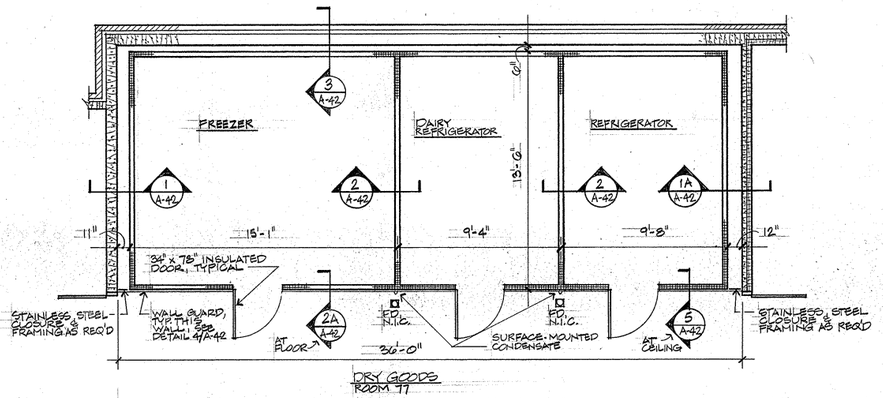
STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS	DESIGN AND CONSTRUCTION DIRECTOR RAYMOND W. CASEY II
	DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR,

DRAWN BY	DATE	SCALE	APPROVED
A.TRAEGLER	11/27/91	AS NOTED	
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK

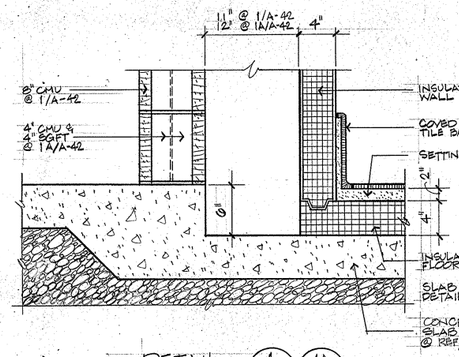
APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER I.D. 026344

PROJECT NO.	DRAWING NO.
38317-C	A-41
	PLAN FILE NO. 01/146



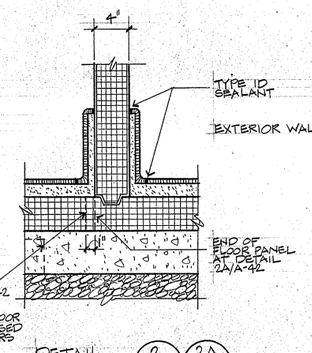
PARTIAL PLAN @ REFRIGERATOR/FREEZERS

SCALE: 1/2" = 1'-0"



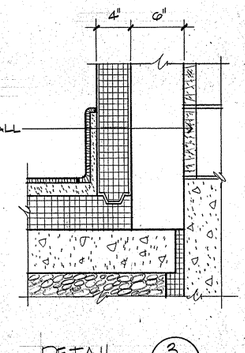
DETAIL 1 / 1A A-42

SCALE: 1½" = 1'-0"



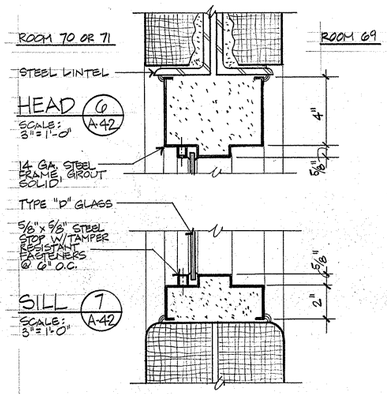
DETAIL 2 / 2A A-42

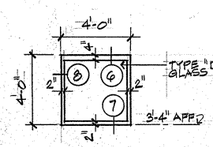
SCALE: 1½" = 1'-0"



DETAIL 3 A-42

SCALE: 1½" = 1'-0"

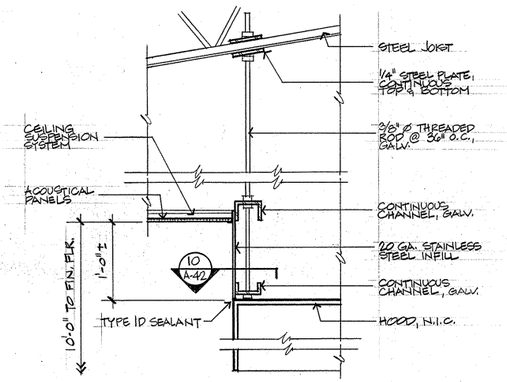




WINDOW ELEVATION

AT KITCHEN ROOM 69

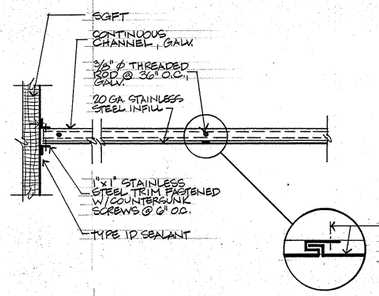
SCALE: ¼" = 1'-0"



DETAIL 9 A-42

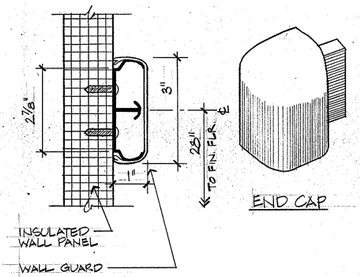
NOT TO SCALE

TYPICAL AT HOODS IN KITCHEN ROOM 69



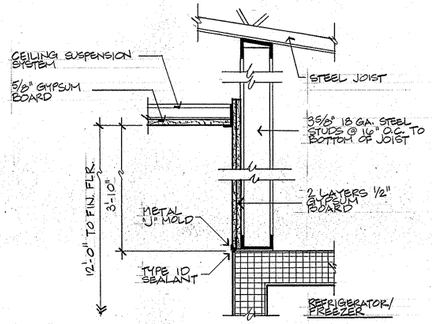
DETAIL 10 A-42

NOT TO SCALE



DETAIL 4 A-42

NOT TO SCALE



DETAIL 5 A-42

SCALE: 1½" = 1'-0"

NOTES:

1. DEPRESS CONCRETE SLABS 2" AT ALL AREAS TO RECEIVE CERAMIC OR QUARRY TILE. DEPRESS CONCRETE SLABS 6" AT WALK-IN REFRIGERATORS & FREEZER.
2. REFRIGERATORS - PACKAGED UNIT W/TOP MOUNTED CONDENSING UNIT & THE FOLLOWING CAPACITIES: 9000 BTUH; 35°F.; 1 HP CONDENSER; 1100 EVAPORATOR CFM; 1/15 HP EVAPORATOR MOTOR; 208 V.; 3 PH; 60 HZ.; 7.2 RATED LOAD AMPS; W/DOOR HEATER.
3. FREEZER - PACKAGED UNIT W/TOP MOUNTED CONDENSING UNIT & THE FOLLOWING CAPACITIES: 14,300 BTUH; -10°F.; 3 HP CONDENSER; 2400 EVAPORATOR CFM; 1/6 HP EVAPORATOR MOTOR (2 MOTORS); 208 V.; 3 PH.; 60 HZ.; 20.2 RATED LOAD AMPS.; W/DOOR HEATER.

ADDENDUM DRAWING 12/30/91

REPLACES DRAWING A-42

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, i.e. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.

REGISTERED ARCHITECT RAYMOND ERNEST WEBER 023 ARC 012101 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

MISC. DETAILS @ FOOD SERVICE

STATE OF NEW YORK EXECUTIVE DEPARTMENT

OFFICE OF GENERAL SERVICES

COMMISSIONER	DESIGN AND CONSTRUCTION DIRECTOR
JOHN F. HUDACS	RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR
	WILLIAM F. O'CONNOR, R.A.

DRAWN BY	DATE	SCALE	APPROVED
TATARA	12/30/91	AS NOTED	
TRACED BY	**CHECKED BY**	**STRUCTURAL CHECK**	**FIELD CHECK**
DAIGLER			

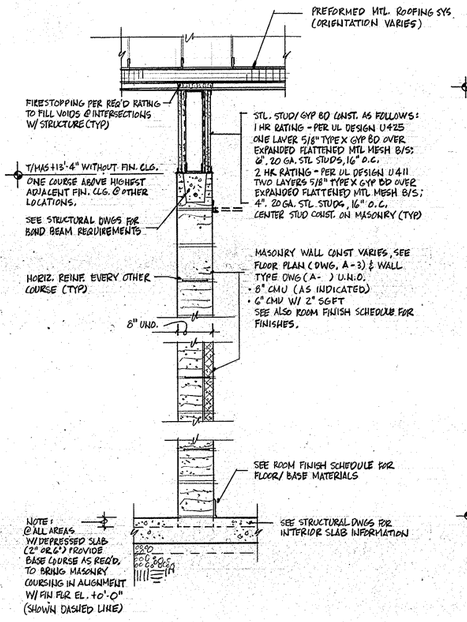
APPROVED BY DIVISION FOR YOUTH

DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

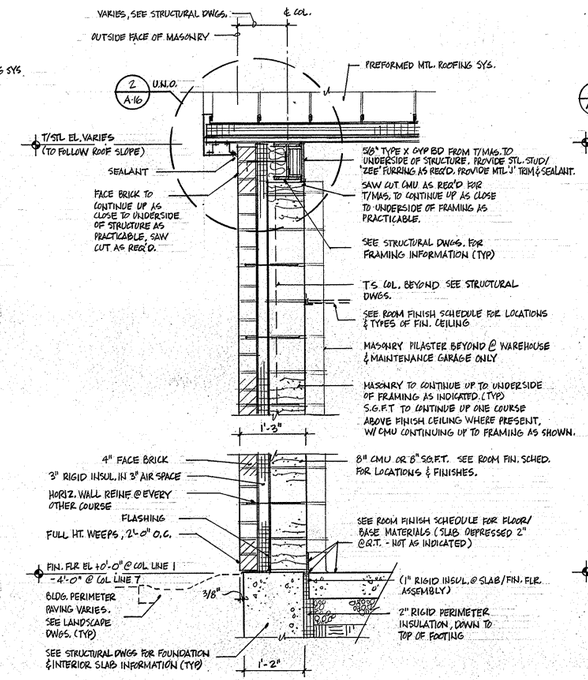
DRAWING NO. A-42 ADDENDUM DRAWING

PLAN FILE NO. 91/147

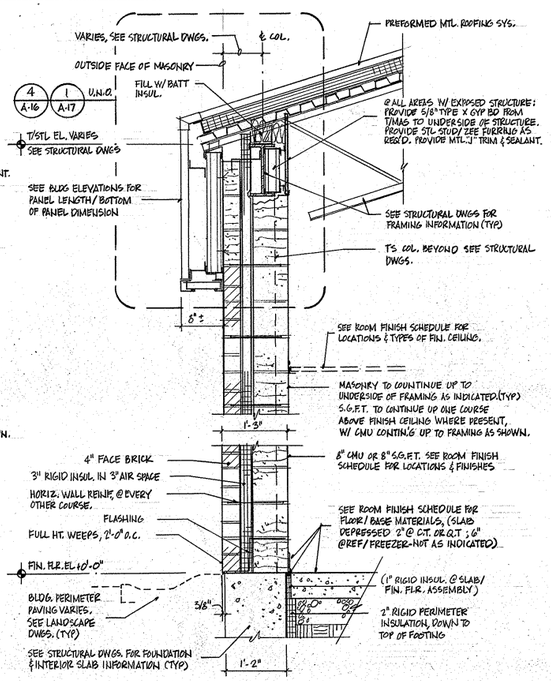


1 A13 WALL SECTION @ FIRE RATED CONSTRUCTION
3/4" = 1'-0"

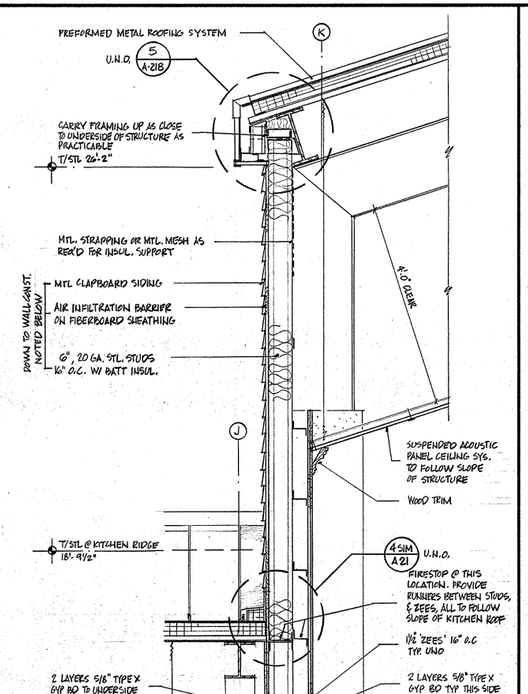
PER NOTATION ABOVE, SEE FLOOR PLAN (DWG A-3) FOR WALL LOCATIONS & WALL TYPE DWG (A-) FOR ADDITIONAL INFORMATION.



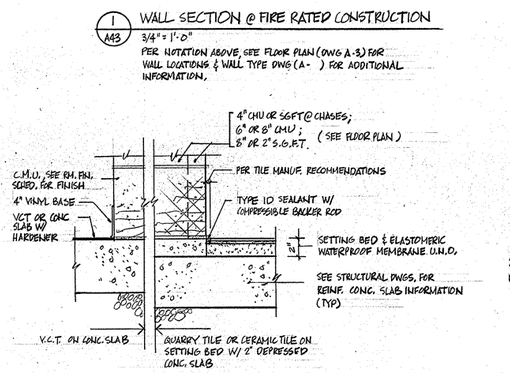
2 A13 WALL SECTION @ RAKES
3/4" = 1'-0"



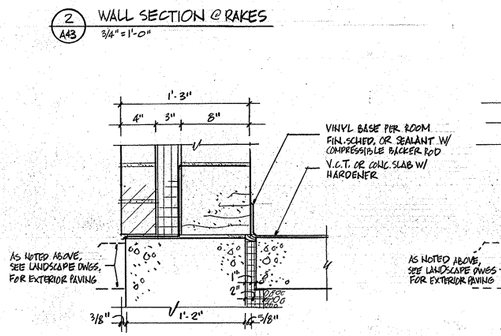
3 A13 WALL SECTION @ EAVES
3/4" = 1'-0"



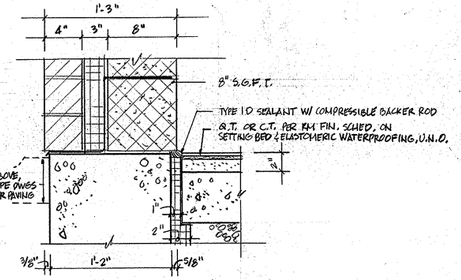
8 A13 WALL SECTION
3/4" = 1'-0"



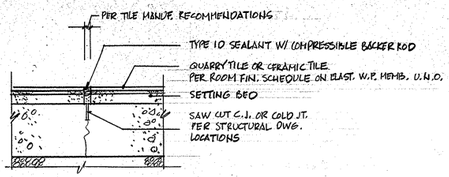
4 A13 BASE DETAIL (INTERIOR WALLS)
1½" = 1'-0"



5 A13 BASE DETAIL (EXTERIOR WALL)
1½" = 1'-0"



6 A13 BASE DETAIL (EXTERIOR WALL)
1½" = 1'-0"



7 A13 CONTROL JOINT DETAIL
1½" = 1'-0"

ADDENDUM DWG -12/30/91

(NEW DRAWING)

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REGISTERED ARCHITECT RAYMOND ERNEST WEBER JR. ARC 012701 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

MISC. DETAILS @ WAREHOUSE, FOOD SERV. & MAINT. GAR.

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS	DESIGN AND CONSTRUCTION DIRECTOR RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DRAWN BY	DATE	SCALE	APPROVED
RT	12.30.91	AS NOTED	
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
RT	RT		–

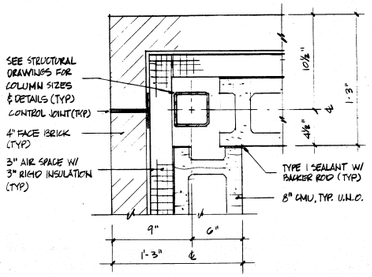
APPROVED BY DIVISION FOR YOUTH
DATED 11.27.91 LETTER NO. 026344

PROJECT NO. 38317-C

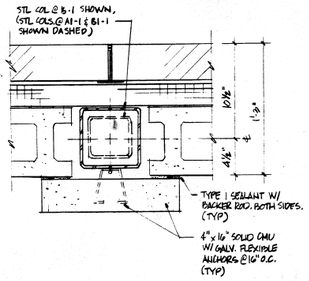
DRAWING NO. A-43 ADDENDUM DRAWING

PLAN FILE NO. 91/148

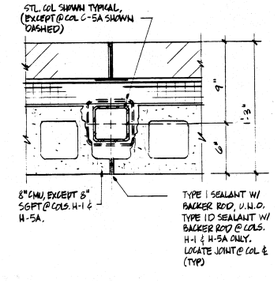
041565



1 / A44 @ COL A-1

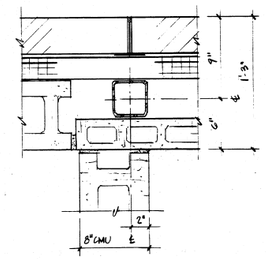


2 / A44 @ COLS. A1-1; B-1; B1-1

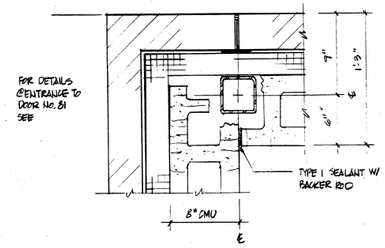


- SEE 1/8" FLOOR PLANS FOR ORIENTATIONS, DWG A-3
- SEALANT & BACKER ROD @ AREAS EXPOSED TO VIEW ONLY.

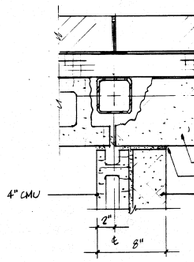
3 / A44 @ COLS A-2,3,4,6; C-5A; D-1,5; F-1,5; H-1,5A



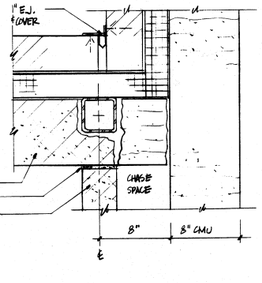
4 / A44 @ COL. C-1



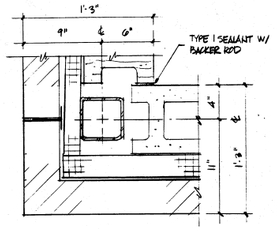
5 / A44 @ COL. E-1



6 / A44 @ COL. G-1

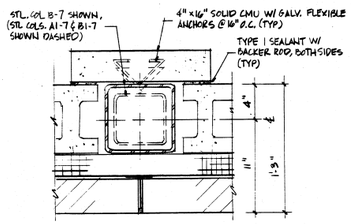


7 / A44 @ COL J-1

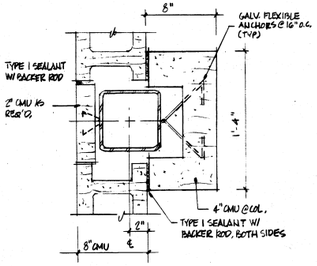


- SEE 1/8" FLOOR PLANS FOR ORIENTATIONS, DWG A-3

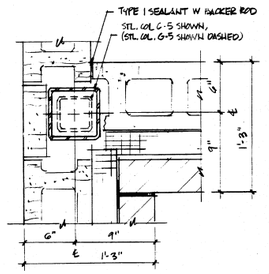
8 / A44 @ COLS. A-7, C-7 (OPPOSITE HAND)



9 / A44 @ COLS A1-7; B1-7; B-7

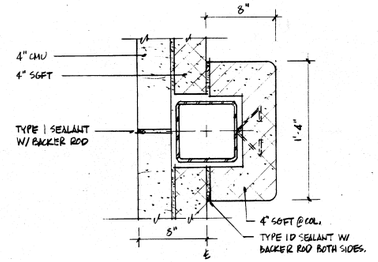


10 / A44 @ COL C-3

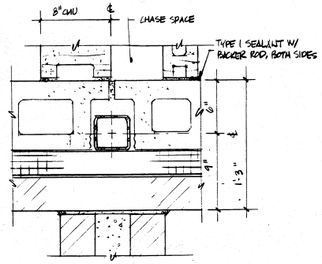


- SEE 1/8" SCALE FLOOR PLANS FOR ORIENTATIONS, DWG A-3

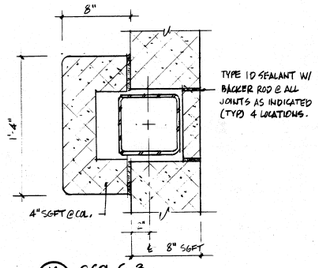
11 / A44 @ COLS C-5, G-5 (OPPOSITE HAND)



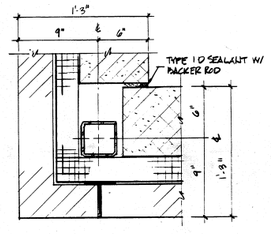
12 / A44 @ COL. E-3



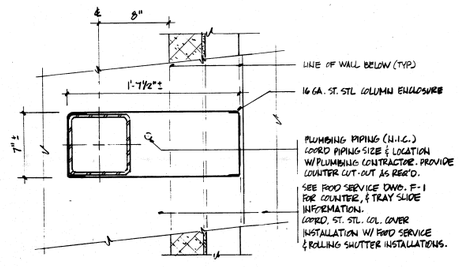
13 / A44 @ COL E-5



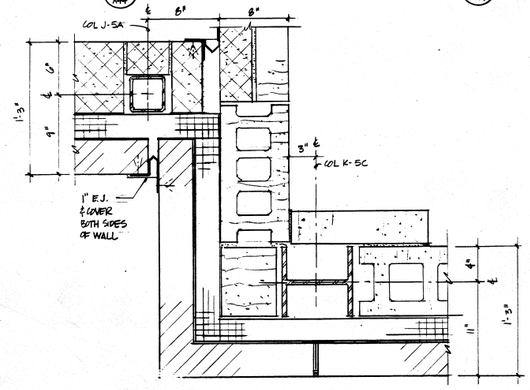
14 / A44 @ COL. G-3



15 / A44 @ COL. G-5A



16 / A44 @ COL J-3



17 / A44 @ COLS. J-5A, K-1, K-5C

GENERAL NOTES

1. SEE ROOM FINISH SCHEDULE FOR ALL REQ'D. FINISHES @ EXPOSED SURFACES.
2. DETAILS @ MASONRY & STL. COL. INTERFACES ARE DIAGRAMATIC ONLY. LIMIT CHIPPING &/OR CUTTING OF MASONRY UNITS TO PROVIDE MINIMUM REQ'D. CLEARANCES & STILL INSURE STRUCTURAL INTEGRITY OF MASONRY UNIT & WALL CONSTRUCTION. WHERE PRACTICABLE PROVIDE FULL MASONRY UNITS OF REQ'D. DIMENSION IN LIEU OF CHIPPING &/OR CUTTING TO PROVIDE COL. COVERAGE.

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, i.e. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.

REGISTERED ARCHITECT RAYMOND ERNEST CASEY 026344 ARC 012101 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

WAREHOUSE and KITCHEN WING

COLUMN DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

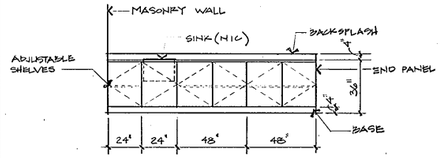
COMMISSIONER JOHN F. HUDACS	DESIGN AND CONSTRUCTION DIRECTOR RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DRAWN BY	DATE	SCALE	APPROVED
R.T.	11-27-91	1½" = 1'-0"	
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
	RT		—

APPROVED BY DIVISION FOR YOUTH
DATED 11-27-91 LETTER NO 026344

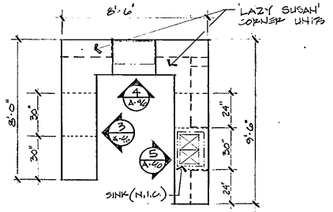
PROJECT NO.	DRAWING NO.
38317-C	A-44
	PLAN FILE NO. 91/149

CAD TAG

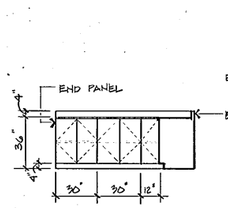


1 A-46 ELEVATION
1/4" = 1'-0"

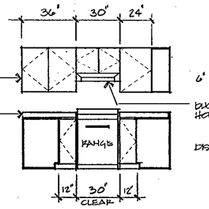
- ALL INTERIOR & EXTERIOR SURFACES TO BE PLASTIC LAMINATE
- ROOMS 351, 353 AND 355 SIMILAR, OPPOSITE HAND.
- ALL CABINETRY TO HAVE RECESSED PULLS. & LOCKABLE DOORS



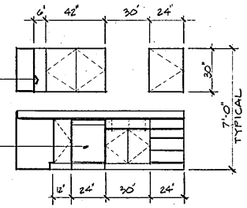
2 A-46 PLAN - ROOM 367
1/4" = 1'-0"



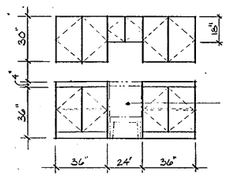
3 A-46 ELEVATION
1/4" = 1'-0"



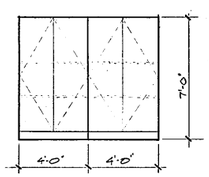
4 A-46 ELEVATION
1/4" = 1'-0"



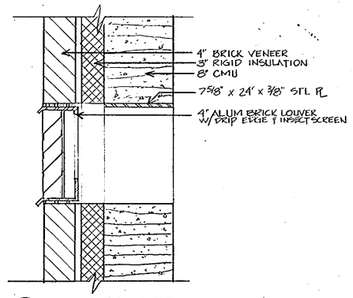
5 A-46 ELEVATION
1/4" = 1'-0"



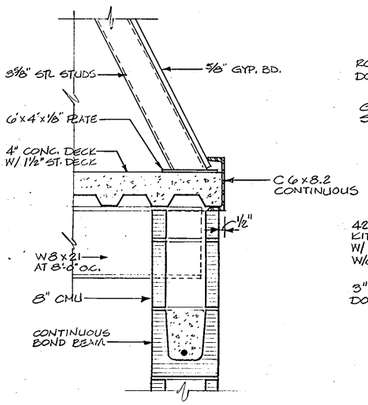
6 A-46 ELEVATION
1/4" = 1'-0"



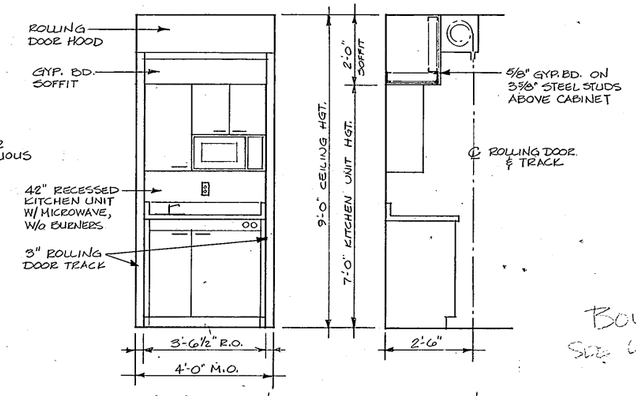
7 A-46 ELEVATION
1/4" = 1'-0"



8 A-46 LOUVER DETAIL
SCALE 1 1/2" = 1'-0"



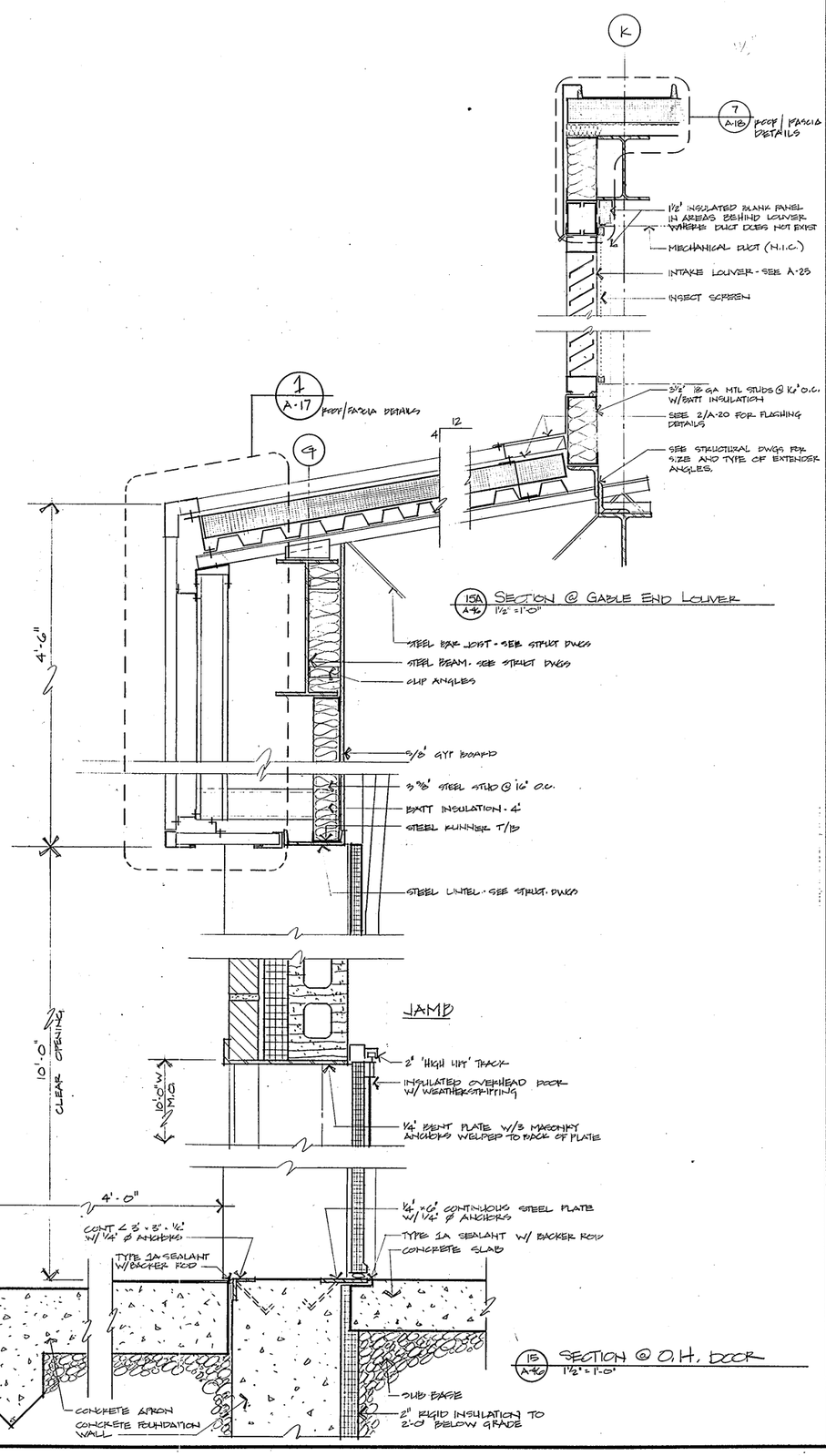
9 A-46 DETAIL
1 1/2" = 1'-0"
SEE ALSO SECTION 1/A32A
OCCURS AT CENTER SPINE ONLY.



ELEVATION SECTION

10 A-46 DETAIL OF KITCHEN UNIT - HOUSING UNITS
1/2" = 1'-0"

BOLLARDS ? SEE LANDSCAPING



15A A-46 SECTION @ GABLE END LOUVER
1 1/2" = 1'-0"

15 A-46 SECTION @ O.H. DOOR
1 1/2" = 1'-0"

REGISTERED ARCHITECT
RAYMOND ERNEST WESSEL
023855
STATE OF NEW YORK
ARC 012101

ADDENDUM DRAWING 12/30/91
NEW DRAWING

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, i.e. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

MISC. DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER	DESIGN AND CONSTRUCTION DIRECTOR
JOHN F. HUDACS	RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DRAWN BY	DATE	SCALE	APPROVED
P. LEEHLE	12/30/91		
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK

APPROVED BY DIVISION FOR YOUTH
DATED 11/27/91 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	A-46 ADDENDUM DRAWING
	PLAN FILE NO. 91/151

026365

DOOR SCHEDULE

TYPICAL:

DOOR NO.	DOOR SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	GLASS SIZE	GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
C-1	3'-8"	7'-0"	1¾"	1	STL	E-1	--	-	-	2	STL	I-4	--	7	6	-	L6	B	-	C-1
C-1A	3'-8"	7'-0"	1¾"	1	STL	E-1	--	-	-	2	STL	I-4	--	7	6	-	L6	B	-	C-1A
C-2	3'-8"	7'-0"	1¾"	1	STL	E-1	--	-	-	2	STL	E-1	--	10	10	1	-	-	INSULATED	C-2
C-3	(2)3'-0"	6'-8"	1¾"	1	STL	E-1	--	-	-	2	STL	E-1	--	7	6	-	L6	A	-	C-3
C-3A	3'-0"	6'-8"	1¾"	1	STL	E-1	--	-	-	2	STL	I-4	--	7	6	-	L6	A	-	C-3A
C-4	3'-0"	7'-0"	1¾"	1	STL	E-1	--	-	-	2	STL	I-4	--	7	6	-	L6	C	-	C-4
C-5	(2)3'-0"	7'-0"	1¾"	1	STL	E-1	--	-	-	2	STL	I-4	--	7	6	-	L6	C	-	C-5
C-6	3'-8"	7'-0"	1¾"	1	STL	E-1	--	-	-	2	STL	E-1	--	10	10	1	-	-	INSULATED	C-6
C-6A	3'-0"	7'-0"	1¾"	1	STL	E-1	--	-	-	2	STL	I-4	--	10	10		-	-		C-6A
1	(2)3'-0"	7'-0"	1¾"	4	STL	I-4 / E-1	A / G	VARIES	S-4	--	STL	I-4 / E-1	A / G	--	--	--	--	-	INSULATED, EXTERIOR COLOR G	1
1A	(2)3'-0"	7'-0"	1¾"	4	STL	I-4	A	VARIES	S-4	--	STL	E-1	A	--	--	--	--	-	AUTOMATIC SLIDING DOORS W/SIDELIGHTS	1A
2	3'-8"	7'-0"	1¾"	4	STL	I-4	A	VARIES	S-4	--	STL	E-1	A	--	--	--	--	-	-	2
3	3'-8"	7'-0"	1¾"	4	STL	I-4	A	VARIES	S-4	--	STL	E-1	A	--	--	--	--	-	-	3
4	3'-8"	7'-0"	1¾"	4	STL	I-4	A	VARIES	S-4	--	STL	E-1	A	--	--	--	--	C	-	4
5	3'-0"	7'-0"	1¾"	2	STL	I-4	A	5x20	S-4	2	STL	I-4	A	7	6	-	L6	C	-	5
6	3'-0"	7'-0"	1¾"	2	STL	I-4	A	5x20	S-4	2	STL	I-4	A	7	6	-	L6	C	-	6
7	3'-0"	7'-0"	1¾"	2	STL	I-4	A	5x20	S-4	2	STL	I-4	A	7	6	-	L6	C	-	7
8	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	2	L6	C	-	8
9	3'-0"	7'-0"	1¾"	1	STL	I-4	E	-	-	2	STL	I-4	E	7	6	-	L6	C	-	9
10	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	2	L5	C	-	10
11	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	2	L5	C	-	11
12	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	2	L6	C	-	12
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	14
15	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	15
16	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	C	-	16
17	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	C	-	17
18	(2)3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	B	-	18
19	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	C	-	19
20	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	2	-	C	-	20
20A	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	-	-	20A
21	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	2	-	C	-	21
21A	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	-	-	21A
22	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	3	3	-	-	C	-	22
23	3'-0"	7'-0"	1¾"	1	STL	I-4	F	-	-	3	STL	I-4	F	3	3	-	-	B	-	23
24	3'-0"	7'-0"	1¾"	2	STL	I-4	A	5x12	S-4	2	STL	I-4	A	7	6	2	L6	C	-	24
25	3'-0"	7'-0"	1¾"	2	STL	I-4	A	5x12	S-4	2	STL	I-4	A	7	6	2	L6	C	-	25
26	3'-0"	7'-0"	1¾"	1	STL	I-4	A / F	-	-	2	STL	I-4	A / F	7	6	-	L6	C	DINING ROOM SIDE COLOR A	26
26A	3'-0"	7'-0"	1¾"	1	STL	I-4	A / F	-	-	2	STL	I-4	A / F	7	6	-	L6	C	DINING ROOM SIDE COLOR A	26A
26B	3'-0"	7'-0"	1¾"	1	STL	I-4	B / F	-	-	3	STL	I-4	B / F	3	3	-	-	C	RECEPTION SIDE COLOR B	26B
27	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	2	-	C	-	27
28	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	2	-	C	-	28
29	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	29
30	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	C	-	30
31	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	C	-	31
C-1B	3'-0"	7'-0"	1¾"	1	STL	E-1	--	-	-	2	STL	E-1	--	--	--	--	-	--	-	C-1B
C-1C	3'-0"	7'-0"	1¾"	1	STL	E-1	--	-	-	2	STL	E-1	--	--	--	--	L6	--	-	C-1C
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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DOOR SCHEDULE

TYPICAL:

DOOR NO.	DOOR SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	GLASS SIZE	GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
31A	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	C	-	31A
31B	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	-	-	31B
32	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	C	-	32
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
33	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	33
34	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	34
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
35	3'-8"	7'-0"	1¾"	4	STL	I-4 / E-1	B / G	VARIES	S-4	4	STL	I-4 / E-1	B / G	1	1	1	-	-	INSULATED, EXTERIOR COLOR G	35
35A	(2)3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	-	DOUBLE EGRESS	35A
35B	3'-0"	7'-0"	1¾"	3	STL	I-4	B	24x24	S-4	-	STL	I-4	B	-	-	-	-	C	SEE DETAILS A-	35B
36	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	36
37	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	37
38	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	B	-	38
39	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	39
40	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	-	-	40
41	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	41
42	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	42
43	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	43
44	3'-0"	7'-0"	1¾"	2	STL	I-4	B	6x48	D	3	STL	I-4	B	3	3	-	-	C	-	44
45	3'-8"	7'-0"	1¾"	4	STL	I-4 / E-1	A / G	VARIES	S-4	?	STL	I-4 / E-1	A / G	?	?	-	1	-	INSULATED, EXTERIOR COLOR G	45
45A	3'-0"	7'-0"	1¾"	3	STL	E-1	A	24X36	S-7	-	STL	E-1	A	9	6/9	-	-	C	-	45A
45B	3'-0"	7'-0"	1¾"	3	STL	E-1	A	24X36	S-7	-	STL	E-1	A	9	6/9	-	-	C	-	45B
45C	3'-8"	7'-0"	1¾"	3	STL	I-4 / E-1	A / G	--	--	?	STL	I-4 / E-1	A / G	?	?	1	-	-	INSULATED, EXTERIOR COLOR G	45C
46	3'-0"	7'-0"	2¼"	3	STL	I-4	A	24x36	S-4	--	STL	I-4	A	--	--	--	-	-	-	46
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
47	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	B	7	6	--	L6	C	-	47
48	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	B	7	6	--	L7	C	-	48
48A	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	B	7	6	--	L7	C	-	48A
49	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	B	7	6	--	L7	C	-	49
50	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	B	7	6	--	L7	C	-	50
50A	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	B	7	6	-	L7	B	-	50A
51	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	B	7	6	-	L6	B	-	51
51A	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	B	7	6	-	L6	C	-	51A
52	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	B	7	6	-	L6	C	-	52
52A	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	B	7	6	-	L7	C	-	52A
53	3'-0"	7'-0"	1¾"	2	STL	I-4	A	5X12	S-7	2	STL	I-4	B	7	6	2	L6	C	-	53
54	3'-0"	7'-0"	1¾"	2	STL	I-4	A	5X12	S-7	2	STL	I-4	B	7	6	2	L6	C	-	54
55	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	B	7	6	-	L6	C	-	55
56	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	B	7	6	-	L7	C	-	56
56A	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	B	7	6	-	L7	C	-	56A
57	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	B	7	6	-	L7	C	-	57
57A	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	B	7	6	-	L7	C	-	57A
58	3'-0"	7'-0"	1¾"	2	STL	I-4	A	5X12	S-7	2	STL	I-4	B	7	6	2	L6	C	-	58
59	3'-0"	7'-0"	1¾"	2	STL	I-4	A	5X12	S-7	2	STL	I-4	B	7	6	2	L6	C	-	59
60	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	B	7	6	-	L6	B	-	60
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COLOR LIST

A SHERWIN WILLIAMS PAINT NO. SW 1313 RUSTIQUE

B SHERWIN WILLIAMS PAINT NO. SW 1064 CORAL SANDS

C SHERWIN WILLIAMS PAINT NO. SW 1316 WINNIPEG SAND

D SHERWIN WILLIAMS PAINT NO. SW 1071 EXECUTIVE SUITE

E SHERWIN WILLIAMS PAINT NO. SW 1481 VIZCAYA

F SHERWIN WILLIAMS PAINT NO. SW 1075 EARTHENWARE

G (DOORS) E5 SYSTEM TNEMIC 8H42 SPIDER WEB
(FRAMES) E5 SYSTEM TENEMIC BF82 CLOUD

ADDENDUM DRAWING 12/30/91
REPLACES DRAWING A-49

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

REGISTERED ARCHITECT RAYMOND EARNEST WEST No. ARC 012101 THE STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

DOOR SCHEDULE

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
A.SPANG	12/30/91	NO SCALE	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY DIVISION FOR YOUTH

DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. A-49 ADDENDUM DRAWING

PLAN FILE NO. 91/155

31 DEC 1991 11:45:49 ANN.SPANG

DOOR SCHEDULE

TYPICAL:

DOOR NO.	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	DOOR GLASS SIZE	DOOR GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
61	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	A	7	6	-	L7	C	-	61
61A	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	A	7	6	-	L7	C	-	61A
62	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	C	-	62
63	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	A	7	6	-	L7	C	-	63
63A	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	A	7	6	-	L7	C	-	63A
64	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	A	7	6	-	L7	C	-	64
64A	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	A	7	6	-	L7	C	-	64A
65	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	A	7	6	-	L7	C	-	65
65A	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	A	7	6	-	L7	C	-	65A
66	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	C	-	66
67	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	A	7	6	-	L7	C	-	67
68	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	C	-	68
69	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	B	-	69
69A	13'-0"	4'-0"	-	--	STL	--	-	-	-	-	-	-	-	-	-	-	-	-	STAINLESS STEEL COUNTER SHUTTER COORDINATE WITH KITCHEN EQUIPMENT	69A
69B	9'-0"	4'-0"	-	--	STL	--	-	-	-	-	-	-	-	-	-	-	-	-	STAINLESS STEEL COUNTER SHUTTER COORDINATE WITH KITCHEN EQUIPMENT	69B
69C	2'-0"	4'-0"	-	--	STL	--	-	-	-	-	-	-	-	-	-	-	-	-	STAINLESS STEEL COUNTER SHUTTER COORDINATE WITH KITCHEN EQUIPMENT	69C
70	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	A	7	6	-	L6	-	2 BORROWED LITES	70
70A	9'-0"	4'-0"	-	--	STL	--	--	-	--	-	STL	-	-	-	-	-	-	B	-	70A
71	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	1	STL	I-4	A	7	6	-	L6	-	-	71
71A	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	-	-	71A
72	3'-0"	7'-0"	1¾"	2	STL	I-4	A	5x12	S-4	2	STL	I-4	A	7	6	2	L6	C	-	72
73	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	2	L6	C	-	73
74	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	2	L6	C	-	74
75	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	5	L6	C	-	75
76	(2)3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	B	-	76
76A	(2)3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	B	-	76A
77	(2)3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	B	-	77
77A	(2)3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	B	-	77A
78	3'-0"	7'-0"	1¾"	2	STL	I-4	A	5x12	S-4	2	STL	I-4	A	7	6	2	L6	C	-	78
79	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	C	-	79
80	3'-8"	7'-0"	1¾"	1	STL	E-1	G	-	-	2	STL	E-1	G	1	1	1	L3	-	-	80
80A	10'-0"	10'-0"	--	--	STL	E-1	G	-	-	--	STL	E-1	G	-	-	-	-	-	SEE DETAIL 5 A-39 INSUL.ROLL-UP DOOR	80A
80B	10'-0"	10'-0"	--	--	STL	E-1	G	-	-	--	STL	E-1	G	-	-	-	-	-	SEE DETAIL 5 A-39 INSUL.ROLL-UP DOOR	80B
80C	3'-8"	7'-0"	1¾"	1	STL	E-1	G	-	-	2	STL	E-1	G	7	6	-	L3	-	-	80C
81	3'-8"	7'-0"	1¾"	1	STL	E-1	G	--	--	2	STL	E-1	G	-	-	-	L3	-	INSULATED	81
81A	(2)3'-0"	7'-0"	1¾"	1	STL	I-4	--	-	-	2	STL	I-4	-	7	6	-	L6	B	-	81A
82	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	B	-	82
83	3'-0"	7'-0"	1¾"	1	STL	I-4	--	-	-	2	STL	I-4	-	7	6	-	L6	B	-	83
83A	3'-0"	7'-0"	1¾"	1	STL	I-4	--	-	-	2	STL	I-4	-	7	6	-	L6	B	-	83A
84	3'-0"	7'-0"	1¾"	1	STL	I-4	--	-	-	2	STL	I-4	-	7	6	-	L6	B	-	84
85	3'-0"	7'-0"	1¾"	1	STL	I-4	--	-	-	2	STL	I-4	-	7	6	--	L6	B	-	85
86	3'-0"	7'-0"	1¾"	1	STL	I-4	--	-	-	2	STL	I-4	-	7	6	-	L6	B	-	86
87	(2)3'-0"	7'-0"	1¾"	1	STL	E-1	G	-	-	2	STL	E-1	G	1	1	1	L3	-	INSULATED	87
87A	3'-0"	7'-0"	1¾"	1	STL	I-4	--	-	-	2	STL	I-4	-	7	6	-	L6	B	-	87A
87B	(2)3'-0"	7'-0"	1¾"	1	STL	E-1	G	-	-	2	STL	E-1	G	1	1	1	L3	-	INSULATED	87B
88	3'-0"	7'-0"	1¾"	1	STL	I-4	--	-	-	2	STL	I-4	-	7	6	-	L6	B	-	88
89	3'-0"	7'-0"	1¾"	1	STL	E-1	G	-	--	2	STL	E-1	G	1	1	1	L3	-	INSULATED	89
89A	10'-0"	10'-0"	--	6	STL	E-1	G	-	--	-	STL	E-1	G	-	-	-	-	-	SEE DETAIL 4 A-39 INSUL.SECT.OVERHEAD DOOR	89A
85A	3'-8"	7'-0"	1¾	1	STL	E-1	G	--	--	2	STL	E-1	G	1	1	1	--	--	--	--

DOOR SCHEDULE

TYPICAL:

DOOR NO.	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	DOOR GLASS SIZE	DOOR GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
89B	10'-0"	10'-0"	--	6	STL	E-1	G	-	-	-	STL	E-1	G	-	-	-	-	-	SEE DETAIL 4 A-39 INSUL.SECT.OVERHEAD DOOR	89B
89C	3'-0"	7'-0"	1¾"	1	STL	E-1	G	-	-	2	STL	E-1	G	-	-	-	L3	-	INSULATED	89C
90	3'-0"	7'-0"	1¾"	1	STL	I-4	A/E	-	-	-	STL	I-4	A/E	-	-	-	-	C	SEE DETAILS A-37, COLOR E ON RM 90 SIDE	90
90A	3'-0"	7'-0"	1¾"	1	STL	I-4	--	-	-	-	STL	I-4	-	-	-	-	-	-	SEE DETAILS A-37	90A
90B	16'-0"	4'-0"	--	--	STL	--	--	-	-	-	STL	-	-	-	-	-	-	C	SEE DETAILS A-	90B
90C	4'-0"	4'-0"	--	--	STL	--	--	-	-	-	STL	-	-	-	-	-	-	C	SEE DETAILS A-	90C
90D	12'-0"	4'-0"	--	--	STL	-	--	-	-	-	STL	-	-	-	-	-	-	C	SEE DETAILS A-	90D
91	3'-0"	7'-0"	1¾"	1	STL	I-4	A	-	-	2	STL	I-4	A	7	6	-	L6	C	-	91
91A	3'-0"	7'-0"	1¾"	1	STL	I-4/E-1	A/G	-	-	2	STL	I-4/E-1	A/G	1	1	1	L3	-	INSULATED, INTERIOR SIDE COLOR A	91A
91B	3'-0"	7'-0"	1¾"	1	STL	I-4	--	-	-	3	STL	I-4	-	3	3	-	L5	-	-	91B
91C	6'-0"	7'-0"	--	--	STL	I-4	--	-	-	3	STL	I-4	--	8	8	-	L5	-	-	91C
92	3'-0"	7'-0"	1¾"	2	STL	I-4	E	5X20	S-4	2	STL	I-4	E	7	6	-	L6	-	-	92
93	3'-0"	7'-0"	1¾"	2	STL	I-4	E	5X20	S-4	2	STL	I-4	E	7	6	-	L6	-	-	93
94	3'-0"	7'-0"	1¾"	2	STL	I-4	E	5X20	S-4	2	STL	I-4	E	7	6	-	L6	-	-	94
95	3'-0"	7'-0"	1¾"	2	STL	I-4	E	5X20	S-4	2	STL	I-4	E	7	6	-	L6	-	-	95
96	3'-0"	7'-0"	1¾"	1	STL	I-4	E	-	-	2	STL	I-4	E	7	6	-	L6	-	-	96
97	3'-0"	7'-0"	1¾"	2	STL	I-4	E	5x12	S-4	2	STL	I-4	E	7	6	-	L6	-	-	97
98	3'-0"	7'-0"	1¾"	2	STL	I-4	E	5x12	S-4	2	STL	I-4	E	7	6	-	L6	-	-	98
99	3'-0"	7'-0"	1¾"	3	STL	I-4	E	24x36	S-4	-	STL	I-4	E	-	-	-	-	-	SEE DETAILS A-37, A-47	99
100	3'-0"	7'-0"	1¾"	1	STL	I-4	E/A	-	-	1	STL	I-4	E/A	7	6	-	-	C	CORRIDOR SIDE COLOR A	100
100A	3'-8"	7'-0"	1¾"	3	STL	I-4/E-1	E/G	24x36	S-4	5	STL	I-4/E-1	E/G	1	1	1	L3	-	INSULATED EXTERIOR SIDE COLOR G	100A
100B	2'-0"	7'-0"	1¾"	1	STL	I-4	E	-	-	2	STL	I-4	E	7	6	-	L6	-	-	100B
100C	2'-0"	7'-0"	1¾"	1	STL	I-4	E	-	-	2	STL	I-4	E	7	6	2	L6	-	-	100C
101	3'-0"	7'-0"	1¾"	2	STL	I-4	E	5x12	S-4	2	STL	I-4	E	7	6	-	L6	-	-	101
102	3'-0"	7'-0"	1¾"	1	STL	I-4	E	-	-	2	STL	I-4	E	7	6	-	L6	-	-	102
103	3'-0"	7'-0"	1¾"	2	STL	I-4	E	-	-	6	STL	I-4	E	6	6	2	L6	-	-	103
104	3'-0"	7'-0"	1¾"	2	STL	I-4	E	5x12	S-4	6	STL	I-4	E	6	6	2	L6	-	-	104
105	3'-0"	7'-0"	1¾"	1	STL	I-4	E	-	-	2	STL	I-4	E	7	6	2	L6	-	-	105
106	3'-0"	7'-0"	1¾"	1	STL	I-4	E	-	-	2	STL	I-4	E	7	6	-	L6	-	-	106
107	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	-	STL	I-4	C	-	-	-	-	-	SEE DETAILS A-37	107
107A	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	-	STL	I-4	C	-	-	-	-	-	SEE DETAILS A-37	107A
107B	16'-0"	4'-0"	--	--	STL	--	C	-	-	-	STL	I-4	C	-	-	-	-	C	SEE DETAILS A-37 ROLL-UP SHUTTER	107B
108	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	-	STL	I-4	C	-	-	-	-	-	SEE DETAILS A-37	108
108A	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	2	STL	I-4	C	7	6	-	L6	C	-	108A
108B	6'-0"	7'-0"	--	--	STL	--	C	-	-	3	STL	I-4	C	8	8	-	L5	-	-	108B
108C	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	3	STL	I-4	C	3	3	-	L5	-	-	108C
108D	3'-8"	7'-0"	1¾"	1	STL	E-1	C	-	-	2	STL	E-1	C	1	1	1	L3	-	INSULATED	108D
109	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	109
110	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	110
111	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	111
112	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	112
113	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	113
114	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	114
115	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	115
116	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	116
117	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	117
118	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	118
119	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	119
120	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	120
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COLOR LIST

A SHERWIN WILLIAMS PAINT NO. SW 1313 RUSTIQUE

B SHERWIN WILLIAMS PAINT NO. SW 1064 CORAL SANDS

C SHERWIN WILLIAMS PAINT NO. SW 1316 WINNIPEG SAND

D SHERWIN WILLIAMS PAINT NO. SW 1071 EXECUTIVE SUITE

E SHERWIN WILLIAMS PAINT NO. SW 1481 VIZCAYA

F SHERWIN WILLIAMS PAINT NO. SW 1075 EARTHENWARE

G (DOORS) ES SYSTEM TNEMIC BH42 SPIDER WEB
(FRAMES) ES SYSTEM TENEMIC BF82 CLOUD

ADDENDUM DRAWING 12/30/91
REPLACES DRAWING A-50

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

REGISTERED ARCHITECT RAYMOND ERNEST MORA UNIVERSITY OF THE STATE OF NEW YORK APC 012191

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

DOOR SCHEDULE

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D.SCOTT	12/30/91	NO SCALE	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY: DIVISION FOR YOUTH

DATED: 11/27/91 LETTER NO.: 026344

PROJECT NO. 38317-C

DRAWING NO. A-50 ADDENDUM DRAWING

PLAN FILE NO. 91/136

31 DEC 1991 11:49:54 ARK:\PAGT150 =(USER)=(ARCH-1002)=(.DFP)=(.38317

DOOR SCHEDULE

TYPICAL:

DOOR NO.	DOOR SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	DOOR GLASS SIZE	DOOR GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
121	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	121
122	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	122
123	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	123
124	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	6	STL	I-4	C	6	6	2	L6	-	-	124
125	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	6	STL	I-4	C	6	6	2	L6	-	-	125
126	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	6	STL	I-4	C	6	6	2	L6	-	-	126
127	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	6	STL	I-4	C	6	6	2	L6	-	-	127
128	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	2	STL	I-4	C	7	6	2	L6	-	-	128
129	3'-6"	9'-0"	--	--	STL	-	C	-	-	-	STL	-	C	5	5	-	L6	-	-	129
130	3'-8"	7'-0"	1¾"	3	STL	I-4 / E-1	C / G	24x36	S-4	5	STL	I-4 / E-1	C / G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	130
130A	3'-0"	7'-0"	1¾"	1	STL	I-4	C / A	-	-	1	STL	I-4	C / A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	130A
131	2'-6"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	2	STL	I-4	C	7	6	-	L6	-	-	131
132	3'-6"	9'-0"	--	--	STL	I-4	C	-	-	-	STL	I-4	C	5	5	-	L6	-	-	132
133	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	2	STL	I-4	C	7	6	2	L6	-	-	133
134	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x12	S-4	6	STL	I-4	C	6	6	2	L6	-	-	134
135	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x12	S-4	6	STL	I-4	C	6	6	2	L6	-	-	135
136	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x12	S-4	6	STL	I-4	C	6	6	2	L6	-	-	136
137	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x12	S-4	6	STL	I-4	C	6	6	2	L6	-	-	137
138	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	138
139	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	139
140	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	140
141	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	141
142	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	142
143	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	143
144	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	144
145	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	145
146	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	146
147	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	147
148	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	148
149	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	149
150	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	150
151	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	151
152	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	152
153	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	-	STL	I-4	C	-	-	-	-	-	SEE DETAILS A-37	153
153A	3'-0"	7'-0"	1¾"	1	STL	I-4	C / A	-	-	2	STL	I-4	C / A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	153A
153B	6'-0"	7'-0"	-	--	STL	I-4	C	-	-	3	STL	I-4	C	8	8	-	L5	-	-	153B
153C	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	3	STL	I-4	C	3	3	-	L5	-	-	153C
153D	3'-8"	7'-0"	1¾"	1	STL	I-4 / E-1	C / G	-	-	2	STL	I-4 / E-1	C / G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	153D
154	3'-8"	7'-0"	1¾"	3	STL	I-4 / E-1	C / G	24x36	S-4	5	STL	I-4 / E-1	C / G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	154
154A	3'-0"	7'-0"	1¾"	1	STL	I-4	C / A	-	-	1	STL	I-4	C / A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	154A
155	3'-0"	7'-0"	1¾"	1	STL	I-4	D	-	-	-	STL	I-4	D	-	-	-	-	-	SEE DETAILS A-37	155
155A	3'-0"	7'-0"	1¾"	1	STL	I-4	D	-	-	-	STL	I-4	D	-	-	-	-	-	SEE DETAILS A-37	155A
155B	16'-0"	4'-0"	--	--	STL	--	D	-	-	-	STL	--	D	-	-	-	-	C	SEE DETAILS A-37,ROLL-UP SHUTTER	155B
156	3'-0"	7'-0"	1¾"	1	STL	I-4	D	-	-	-	STL	I-4	D	-	-	-	-	-	SEE DETAILS A-37	156
156A	3'-0"	7'-0"	1¾"	1	STL	I-4	D / A	-	-	2	STL	I-4	D / A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	156A
156B	6'-0"	7'-0"	-	--	STL	I-4	D	-	-	3	STL	I-4	D	8	8	-	L5	-	-	156B
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DOOR SCHEDULE

TYPICAL:

DOOR NO.	DOOR SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	DOOR GLASS SIZE	DOOR GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
156C	3'-0"	7'-0"	1¾"	1	STL	I-4	D	-	-	3	STL	I-4	D	3	3	-	-	-	-	156C
156D	3'-8"	7'-0"	1¾"	1	STL	I-4 / E-1	D / G	-	-	2	STL	I-4 / E-1	D / G	1	1	1	-	-	INSULATED, EXTERIOR SIDE COLOR G	156D
157	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	157
158	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	158
159	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	159
160	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	160
161	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	161
162	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	162
163	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	163
164	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	164
165	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	165
166	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	166
167	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	167
168	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	168
169	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	169
170	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	170
171	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	171
172	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x12	S-4	6	STL	I-4	D	6	6	2	L6	-	-	172
173	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x12	S-4	6	STL	I-4	D	6	6	2	L6	-	-	173
174	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x12	S-4	6	STL	I-4	D	6	6	2	L6	-	-	174
175	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x12	S-4	6	STL	I-4	D	6	6	2	L6	-	-	175
176	3'-0"	7'-0"	1¾"	1	STL	I-4	D	-	-	2	STL	I-4	D	7	6	2	L6	-	-	176
177	3'-6"	9'-0"	--	--	--	--	D	--	--	-	STL	I-4	D	5	5	-	L6	-	-	177
178	3'-8"	7'-0"	1¾"	3	STL	I-4 / E-1	D / G	24x36	S-4	5	STL	I-4 / E-1	D / G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	178
178A	3'-0"	7'-0"	1¾"	1	STL	I-4	D / A	-	-	1	STL	I-4	D / A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	178A
179	2'-6"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	2	STL	I-4	D	7	6	-	L6	-	-	179
180	3'-6"	9'-0"	--	--	--	--	D	--	--	-	--	I-4	D	5	5	-	L6	-	-	180
181	3'-0"	7'-0"	1¾"	1	STL	I-4	D	-	-	2	STL	I-4	D	7	6	2	L6	-	-	181
182	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x12	S-4	6	STL	I-4	D	6	6	2	L6	-	-	182
183	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x12	S-4	6	STL	I-4	D	6	6	2	L6	-	-	183
184	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x12	S-4	6	STL	I-4	D	6	6	2	L6	-	-	184
185	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x12	S-4	6	STL	I-4	D	6	6	2	L6	-	-	185
186	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	186
187	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	187
188	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	188
189	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	189
190	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	190
191	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	191
192	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	192
193	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	193
194	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	194
195	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	195
196	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	196
197	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	197
198	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	198
199	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	199
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COLOR LIST

A SHERWIN WILLIAMS PAINT NO. SW 1313 RUSTIQUE

B SHERWIN WILLIAMS PAINT NO. SW 1064 CORAL SANDS

C SHERWIN WILLIAMS PAINT NO. SW 1316 WINNIPEG SAND

D SHERWIN WILLIAMS PAINT NO. SW 1071 EXECUTIVE SUITE

E SHERWIN WILLIAMS PAINT NO. SW 1481 VIZCAYA

F SHERWIN WILLIAMS PAINT NO. SW 1075 EARTHENWARE

G (DOORS) ES SYSTEM TNEMIC BH42 SPIDER WEB
(FRAMES) ES SYSTEM TENEMIC BF82 CLOUD

ADDENDUM DRAWING 12/30/91
REPLACES DRAWING A-51

WARNING
THE ALTERATION OF THIS MATERIAL IN any WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

REGISTERED ARCHITECT RAYMOND ERNEST WEST NEW YORK ARC 012110 UNIVERSITY OF THE STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

DOOR SCHEDULE

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
GH	12/30/91	NO SCALE	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY DIVISION FOR YOUTH

DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. A-51 ADDENDUM DRAWING

PLAN FILE NO. 91/187

31 DEC 1991 11:48:38 ANN_SHAFNO <USERDIR>ARCH>A38249.DFT/ALL 38317

DOOR SCHEDULE

TYPICAL;

DOOR NO.	DOOR SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	DOOR GLASS SIZE	DOOR GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
200	3'-0"	7'-0"	1¾"	2	STL	I-4	D	5x20	S-4	3	STL	I-4	D	9	9	-	-	-	-	200
201	3'-0"	7'-0"	1¾"	1	STL	I-4	D	-	-	-	STL	I-4	D	-	-	-	-	-	SEE DETAILS A-37	201
201A	3'-0"	7'-0"	1¾"	1	STL	I-4	D/A	-	-	2	STL	I-4	D/A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	201A
201B	6'-0"	7'-0"	-	--	STL	I-4	D	-	-	3	STL	I-4	D	8	8	-	L5	-	-	201B
201C	3'-0"	7'-0"	1¾"	1	STL	I-4	D	-	-	3	STL	I-4	D	3	3	-	L5	-	-	201C
201D	3'-8"	7'-0"	1¾"	1	STL	I-4/E-1	D/G	-	-	2	STL	I-4/E-1	D/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	201D
202	3'-0"	7'-0"	1¾"	3	STL	I-4/E-1	D/G	24x36	S-4	5	STL	I-4/E-1	D/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	202
202A	3'-0"	7'-0"	1¾"	1	STL	I-4	D/A	-	-	1	STL	I-4	D/A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	202A
203	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	-	STL	I-4	B	-	-	-	-	-	SEE DETAILS A-37	203
203A	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	-	STL	I-4	B	-	-	-	-	-	SEE DETAILS A-37	203A
203B	16'-0"	4'-0"	--	--	STL	--	B	-	-	-	STL	I-4	B	-	-	-	-	C	ROLL-UP SHUTTER	203B
204	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	-	STL	I-4	B	-	-	-	-	-	-	204
204A	3'-0"	7'-0"	1¾"	1	STL	I-4	B/A	-	-	2	STL	I-4	B/A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	204A
204B	6'-0"	7'-0"	--	--	STL	I-4	B	-	-	3	STL	I-4	B	8	8	-	L5	-	-	204B
204C	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	L5	-	-	204C
204D	3'-8"	7'-0"	1¾"	1	STL	I-4/E-1	B/G	-	-	2	STL	I-4/E-1	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	204D
205	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	205
206	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	206
207	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	207
208	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	208
209	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	209
210	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	210
211	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	211
212	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	212
213	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	213
214	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	214
215	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	215
216	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	216
217	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	217
218	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	218
219	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	219
220	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	220
221	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	221
222	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	222
223	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	223
224	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2	L6	-	-	224
225	3'-6"	9'-0"	1¾"	--	STL	I-4	B	--	--	-	STL	I-4	B	5	5	-	L6	-	-	225
226	3'-8"	7'-0"	1¾"	3	STL	I-4/E-1	B/G	24x36	S-4	5	STL	I-4/E-1	B/G	1	1	1	-	-	INSULATED, EXTERIOR SIDE COLOR G	226
226A	3'-0"	7'-0"	1¾"	1	STL	I-4	B/A	-	-	1	STL	I-4	B/A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	226A
227	2'-6"	7'-0"	1¾"	2	STL	STL	B	5x20	S-4	2	STL	I-4	B	7	6	-	L6	-	-	227
228	3'-6"	7'-0"	--	--	STL	I-4	B	-	-	-	STL	I-4	B	5	5	-	L6	-	-	228
229	3'-0"	9'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2	L6	-	-	229
230	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	230
231	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	231
232	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	232
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DOOR SCHEDULE

TYPICAL;

DOOR NO.	DOOR SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	DOOR GLASS SIZE	DOOR GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
233	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	233
234	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	234
235	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	235
236	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	236
237	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	237
238	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	238
239	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	239
240	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	240
241	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	241
242	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	242
243	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	243
244	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	244
245	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	245
246	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	246
247	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	247
248	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	248
249	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	-	STL	I-4	B	-	-	-	-	-	SEE DETAILS A-37	249
249A	3'-0"	7'-0"	1¾"	1	STL	I-4	B/A	-	-	2	STL	I-4	B/A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	249A
249B	6'-0"	7'-0"	1¾"	--	STL	I-4	B	--	--	3	STL	I-4	B	8	8	-	L5	-	-	249B
249C	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	L5	-	-	249C
249D	3'-8"	7'-0"	1¾"	1	STL	I-4/E-1	B/G	-	-	2	STL	I-4/E-1	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	249D
250	3'-8"	7'-0"	1¾"	3	STL	I-4	B	24x36	S-4	5	STL	I-4	B	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	250
250A	3'-0"	7'-0"	1¾"	1	STL	I-4	B/A	-	-	1	STL	I-4	B/A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	250A
251	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	-	STL	I-4	B	-	-	-	-	-	SEE DETAILS A-37	251
251A	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	-	STL	I-4	B	-	-	-	-	-	SEE DETAILS A-37	251A
251B	16'-0"	4'-0"	--	--	STL	I-4	B	--	--	-	STL	I-4	B	-	-	-	-	C	SEE DETAILS A-37, ROLL-UP SHUTTER	251B
252	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	-	STL	I-4	B	-	-	-	-	-	SEE DETAILS A-37	252
252A	3'-0"	7'-0"	1¾"	1	STL	I-4	B/A	-	-	2	STL	I-4	B/A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	252A
252B	6'-0"	9'-0"	--	--	--	I-4	B	--	--	3	STL	I-4	B	8	8	-	L5	-	-	252B
252C	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	L5	-	-	252C
2520	3'-8"	7'-0"	1¾"	1	STL	I-4/E-1	B/G	-	-	2	STL	I-4/E-1	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	2520
253	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	253
254	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	254
255	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	255
256	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	256
257	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	257
258	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	258
259	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	259
260	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	260
261	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	261
262	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	262
263	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	263
264	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	264
265	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	265
266	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	266
267	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	267
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COLOR LIST

A SHERWIN WILLIAMS PAINT NO. SW 1313 RUSTIQUE

B SHERWIN WILLIAMS PAINT NO. SW 1064 CORAL SANDS

C SHERWIN WILLIAMS PAINT NO. SW 1316 WINNIPEG SAND

D SHERWIN WILLIAMS PAINT NO. SW 1071 EXECUTIVE SUITE

E SHERWIN WILLIAMS PAINT NO. SW 1481 VIZCAYA

F SHERWIN WILLIAMS PAINT NO. SW 1075 EARTHENWARE

G (DOORS) E5 SYSTEM TNEMIC BH42 SPIDER WEB
(FRAMES) E5 SYSTEM TENEMIC BF82 CLOUD

ADDENDUM DRAWING 12/30/91
REPLACES DRAWING A-52

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THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

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CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

DOOR SCHEDULE

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
A. SPANG	12/30/91	NO SCALE	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A. MORRIS			

APPROVED BY DIVISION FOR YOUTH

DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. A-52 ADDENDUM DRAWING

PLAN FILE NO. 91/158

31 DEC 1991 11:47:05 ANN.SPANTAG v5SDGDB:ANDO-A52ADD.DFTv3.38317

DOOR SCHEDULE

TYPICAL:

DOOR NO.	DOOR: SIZE WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	COLOR	GLASS SIZE	GLASS TYPE	FRAME: TYPE	MATERIAL	FINISH	COLOR	DETAILS: HEAD	JAMB	THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
268	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	268
269	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	269
270	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	270
271	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	271
272	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2	L6	-	-	272
273	3'-6"	9'-0"	--	--	STL	I-4	B	-	-	-	STL	I-4	B	5	5	-	L6	-	-	273
274	3'-8"	7'-0"	1¾"	3	STL	I-4 / E-1	B / G	24x36	S-4	5	STL	I-4 / E-1	B / G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	274
274A	3'-0"	7'-0"	1¾"	1	STL	I-4	B / A	-	-	1	STL	I-4	B / A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	274A
275	2'-6"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	2	STL	I-4	B	7	6	-	L6	-	-	275
276	3'-6"	9'-0"	--	--	STL	I-4	B	-	-	-	STL	I-4	B	5	5	-	L6	-	-	276
277	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2	L6	-	-	277
278	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	278
279	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	279
280	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	280
281	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x12	S-4	6	STL	I-4	B	6	6	2	L6	-	-	281
282	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	282
283	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	283
284	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	284
285	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	285
286	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	286
287	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	287
288	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	288
289	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	289
290	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	290
291	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	291
292	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	292
293	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	293
294	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	294
295	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	295
296	3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	3	STL	I-4	B	9	9	-	-	-	-	296
297	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	-	STL	I-4	B	-	-	-	-	-	SEE DETAILS A-37	297
297A	3'-0"	7'-0"	1¾"	1	STL	I-4	B / A	-	-	2	STL	I-4	B / A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	297A
297B	6'-0"	9'-0"	--	--	STL	I-4	B	-	-	3	STL	I-4	B	8	8	-	L5	-	-	297B
297C	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	L5	-	-	297C
297D	3'-8"	7'-0"	1¾"	1	STL	I-4 / E-1	B / G	-	-	2	STL	I-4 / E-1	B / G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	297D
298	3'-8"	7'-0"	1¾"	3	STL	I-4 / E-1	B / G	24x36	S-4	5	STL	I-4 / E-1	B / G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	298
298A	3'-0"	7'-0"	1¾"	1	STL	I-4	B / A	-	-	1	STL	I-4	B / A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	298A
299	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	-	STL	I-4	C	-	-	-	-	-	SEE DETAILS A-37	299
299A	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	-	STL	I-4	C	-	-	-	-	-	SEE DETAILS A-37	299A
299B	16'-0"	4'-0"	--	--	STL	I-4	C	-	-	-	STL	I-4	C	-	-	-	-	C	SEE DETAILS A-37, ROLL-UP SHUTTER	299B
300	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	-	STL	I-4	C	-	-	-	-	-	SEE DETAILS A-37	300
300A	3'-0"	7'-0"	1¾"	1	STL	I-4	C / A	-	-	2	STL	I-4	C / A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	300A
300B	6'-0"	9'-0"	--	--	STL	I-4	C	-	-	3	STL	I-4	C	8	8	-	L5	-	-	300B
300C	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	3	STL	I-4	C	3	3	-	L5	-	-	300C
300D	3'-8"	7'-0"	1¾"	1	STL	I-4 / E-1	C / G	-	-	2	STL	I-4 / E-1	C / G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	300D
301	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	301
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DOOR SCHEDULE

TYPICAL:

DOOR NO.	DOOR: SIZE WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	COLOR	GLASS SIZE	GLASS TYPE	FRAME: TYPE	MATERIAL	FINISH	COLOR	DETAILS: HEAD	JAMB	THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
302	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	302
303	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	303
304	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	304
305	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	305
306	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	306
307	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	307
308	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	308
309	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	309
310	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	310
311	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	311
312	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	312
313	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	313
314	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	-	-	-	314
315	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x20"	S-4	3	STL	I-4	C	9	9	-	L6	-	DETAILS SHOWN FOR 6"CMU-THIS CASE 8"CMU	315
316	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x12"	S-4	6	STL	I-4	C	6	6	2	L6	-	-	316
317	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x12"	S-4	6	STL	I-4	C	6	6	2	L6	-	-	317
318	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x12"	S-4	6	STL	I-4	C	6	6	2	L6	-	-	318
319	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5"x12"	S-4	6	STL	I-4	C	6	6	2	L6	-	-	319
320	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	2	STL	I-4	C	7	6	2	L6	-	-	320
321	3'-6"	9'-0"	--	--	STL	I-4	C	-	-	-	STL	I-4	C	5	5	-	L6	-	-	321
322	3'-8"	7'-0"	1¾"	3	STL	I-4 / E-1	C / G	24x36	S-4	5	STL	I-4 / E-1	C / G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	322
322A	3'-0"	7'-0"	1¾"	1	STL	I-4	C / A	-	-	1	STL	I-4	C / A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	322A
323	2'-6"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	2	STL	I-4	C	7	6	-	L6	-	-	323
324	3'-6"	9'-0"	--	--	STL	I-4	C	-	-	-	STL	I-4	C	5	5	-	L6	-	-	324
325	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	2	STL	I-4	C	7	6	2	L6	-	-	325
326	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x12	S-4	6	STL	I-4	C	6	6	2	L6	-	-	326
327	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x12	S-4	6	STL	I-4	C	6	6	2	L6	-	-	327
328	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x12	S-4	6	STL	I-4	C	6	6	2	L6	-	-	328
329	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x12	S-4	6	STL	I-4	C	6	6	2	L6	-	-	329
330	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	L6	-	DETAILS SHOWN FOR 6"CMU-THIS CASE 8"CMU	330
331	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	331
332	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	332
333	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	333
334	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	334
335	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	335
336	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	336
337	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	337
338	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	338
339	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	339
340	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	340
341	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	341
342	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	342
343	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	343
344	3'-0"	7'-0"	1¾"	2	STL	I-4	C	5x20	S-4	3	STL	I-4	C	9	9	-	-	-	-	344
345	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	-	STL	I-4	C	-	-	-	-	-	SEE DETAILS A-37	345
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COLOR LIST

A SHERWIN WILLIAMS PAINT
NO. SW 1313 RUSTIQUE

B SHERWIN WILLIAMS PAINT
NO. SW 1064 CORAL SANDS

C SHERWIN WILLIAMS PAINT
NO. SW 1316 WINNIPEG SAND

D SHERWIN WILLIAMS PAINT
NO. SW 1071 EXECUTIVE SUITE

E SHERWIN WILLIAMS PAINT
NO. SW 1481 VIZCAYA

F SHERWIN WILLIAMS PAINT
NO. SW 1075 EARTHENWARE

G (DOORS) ES SYSTEM
TNEMIC BH42 SPIDER WEB
(FRAMES) ES SYSTEM
TENEMIC BF82 CLOUD

ADDENDUM DRAWING 12/30/91
REPLACES DRAWING A-53

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THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

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CONSTRUCTION

LIMITED SECURE
RESIRENTIAL FACILITY

LANSING, NEW YORK

DOOR
SCHEDULE

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
A.SPANG	12/30/91	NO SCALE	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY: DIVISION FOR YOUTH

DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. A-53
! ADDENDUM DRAWING

PLAN FILE NO. 91/159

31 DEC 1991 11:47:10 ARM_SHAPIRO <USERDIR>ARCH-ASSIGN\A_SAMPLE.DRF(v1.38317

DOOR SCHEDULE

TYPICAL:

DOOR NO.	DOOR SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	DOOR GLASS SIZE	DOOR GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
345A	3'-0"	7'-0"	1¾"	1	STL	I-4	C/A	-	-	2	STL	I-4	C/A	7	6	-	L6	C	CORRIDOR SIDE COLOR A	345A
345B	6'-0"	7'-0"	--	--	STL	--	C	-	-	3	STL	--	C	8	8	-	L5	-	-	345B
345C	3'-0"	7'-0"	1¾"	1	STL	I-4	C	-	-	3	STL	I-4	C	3	3	-	L5	-	-	345C
345D	3'-8"	7'-0"	1¾"	1	STL	I-4 E-1/G	C/G	-	-	2	STL	I-4 E-1/G	C/G	1	1	1	L3	-	EXTERIOR SIDE COLOR G	345D
346	3'-8"	7'-0"	1¾"	3	STL	I-4 E-1/G	C/G	24x36	S-4	5	STL	I-4 E-1/G	C/G	1	1	1	L3	-	EXTERIOR SIDE COLOR G	346
346A	3'-0"	7'-0"	1¾"	1	STL	I-4	C/A	-	-	1	STL	I-4	C/A	7	6	-	-	C	CORRIDOR SIDE COLOR A	346A
347	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2	L7	C	-	347
348	(2)3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	5	L3	C	-	348
349	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2	L7	C	-	349
350	10'-0"	10'-0"	--	--	--	E-1	G	-	-	6	STL	E-1	G	-	-	-	-	-	SEE DETAIL 4 A-39, INSUL. SECT. OVERHEAD DOOR	350
350A	3'-0"	7'-0"	1¾"	1	STL	I-4 E-1/G	B/G	-	-	2	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	350A
350B	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	7	6	-	L6	C	-	350B
351	10'-0"	10'-0"	--	--	--	E-1	G	-	-	6	STL	E-1	G	-	-	-	-	-	SEE DETAIL 4 A-39, INSUL. SECT. OVERHEAD DOOR	351
351A	3'-0"	7'-0"	1¾"	1	STL	I4/E1	B/G	-	-	2	STL	I4/E1	B/G	1	1	1	L3	-	-	351A
351B	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	7	6	-	L6	C	-	351B
352	10'-0"	10'-0"	--	--	--	E-1	G	-	-	6	STL	E-1	G	-	-	-	-	-	SEE DETAIL 4 A-39	352
352A	3'-0"	7'-0"	1¾"	1	STL	I-4 E-1/G	B/G	-	-	2	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	352A
352B	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	7	6	-	L6	C	-	352B
353	10'-0"	10'-0"	--	--	--	E-1	G	-	-	6	STL	E-1	G	-	-	-	-	-	SEE DETAIL 4 A-39, INSUL. SECT. OVERHEAD DOOR	353
353A	3'-0"	7'-0"	1¾"	1	STL	I-4 E-1/G	B/G	-	-	2	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	353A
353B	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	7	6	-	L6	C	-	353B
354	10'-0"	10'-0"	--	--	--	E-1	G	-	-	6	STL	E-1	G	-	-	-	-	-	SEE DETAIL 4 A-39, INSUL. SECT. OVERHEAD DOOR PROVIDE EXHAUST PORT IN BOTTOM PANEL	354
354A	3'-0"	7'-0"	1¾"	1	STL	I-4 E-1/G	B/G	-	-	2	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	354A
354B	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	7	6	-	L6	C	-	354B
355	10'-0"	10'-0"	--	--	--	E-1	G	-	-	6	STL	E-1	-	-	-	-	-	-	SEE DETAIL 4 A-39, INSUL. SECT. OVERHEAD DOOR	355
355A	3'-0"	7'-0"	1¾"	1	STL	I-4 E-1/G	B/G	-	-	2	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	355A
355B	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	7	6	-	L6	C	-	355B
356	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	7	6	-	L3	C	-	356
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357	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	7	6	-	L3	C	-	357
358	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2	L7	C	-	358
359	3'-4"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2	L7	C	-	359
360	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2	L7	-	-	360
360A	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2/4	L6	-	-	360A
361	3'-0"	7'-0"	1¾"	3	STL	I-4	B	24x24	S-4	2	STL	I-4	B	7	6	2	L7	-	PROVIDE ONE WAY GLAZING	361
361A	3'-0"	7'-0"	1¾"	3	STL	I-4	B	24x24	S-4	2	STL	I-4	B	7	6	2/4	L6	-	PROVIDE ONE WAY GLAZING	361A
362	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2	L7	-	-	362
362A	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	2/4	L6	-	-	362A
363	3'-8"	7'-0"	1¾"	1	STL	I-4 E-1/G	B/G	-	-	2	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	363
363A	3'-8"	7'-0"	1¾"	1	STL	I-4 E-1/G	B/G	-	-	2	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	363A
363B	3'-8"	7'-0"	1¾"	1	STL	I-4 E-1/G	B/G	-	-	2	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	363B
363C	3'-8"	7'-0"	1¾"	1	STL	I-4 E-1/G	B/G	-	-	2	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	363C
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364	3'-8"	7'-0"	1¾"	1	STL	I-4 E-1/G	B/G	-	-	2	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	364
364A	(2)3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	4	4	4	L3	B	--	364A
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DOOR SCHEDULE

TYPICAL:

DOOR NO.	DOOR SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	DOOR COLOR	DOOR GLASS SIZE	DOOR GLASS TYPE	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	LINTEL TYPE	RATING	REMARKS	DOOR NO.
365	3'-8"	7'-0"	1¾"	1	STL	I-4 E-1/G	B/G	-	-	2	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	365
365A	(2)3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	4	4	4	L3	B	-	365A
366	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	3	L7	C	-	366
366A	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	3	L7	C	-	366A
367	6'-0"	12'-0"	--	--	STL	I-4	B	-	-	-	STL	I-4	B	5	2	-	L6	-	-	367
367A	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	7	6	-	L7	C	-	367A
368	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	5	2	-	L7	C	-	368
368A	6'-0"	12'-0"	--	--	STL	I-4	B	-	-	-	STL	I-4	B	5	2	-	L6	-	-	368A
369	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	5	2	-	L7	C	-	369
369A	6'-0"	12'-0"	--	--	STL	I-4	B	-	-	-	STL	I-4	B	5	2	-	L6	-	-	369A
370	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	1	STL	I-4	B	7	6	-	L7	C	-	370
371	(2)3'-0"	7'-0"	1¾"	1	STL	I4/E1	B/G	-	-	2	STL	I4/E1	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	371
372	3'-0"	7'-0"	1¾"	1	STL	E-1	G	-	-	2	STL	E-1	G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	372
373	3'-0"	7'-0"	1¾"	1	STL	E-1	G	-	-	2	STL	E-1	G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	373
374	3'-8"	7'-0"	1¾"	3	STL	I-4 E-1/G	B/G	24x36	S-4	5	STL	I-4 E-1/G	B/G	1	1	1	L3	-	INSULATED, EXTERIOR SIDE COLOR G	374
374A	(2)3'-0"	7'-0"	1¾"	2	STL	I-4	B	5x20	S-4	2	STL	I-4	B	7	6	-	L6	-	DOUBLE EGRESS	374A
374B	3'-0"	7'-0"	1¾"	1	STL	I-4	A/B	-	-	2	STL	I-4	A/B	7	6	-	L6	B	COLOR B ON ROOM NO. 374 SIDE 60MBRL8N09LR80MF8B.D80R 378B, CONT.	374B
374C	3'-0"	7'-0"	1¾"	1	STL	I-4	A/B	-	-	2	STL	I-4	A/B	7	6	-	L6	B	COLOR B ON ROOM NO. 374 SIDE SAME LINTEL AS FOR DOOR 374B, CONT.	374C
375	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	4	L6	-	SAME LINTEL AS FOR DOOR 375A, CONT.	375
375A	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	2	STL	I-4	B	7	6	4	L6	-	SAME LINTEL AS FOR DOOR 375, CONT.	375A
376	3'-0"	7'-0"	1¾"	1	STL	I-4	--	-	-	2	STL	I-4	--	7	6	-	L6	-	-	376
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378	2'-0"	7'-0"	1¾"	1	STL	I-4	E	-	-	2	STL	I-4	E	7	6	-	-	-	-	378
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380	3'-0"	7'-0"	1¾"	1	STL	I-4	E	-	-	2	STL	I-4	E	7	6	--	--	-	-	380
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382	3'-8"	7'-0"	1¾"	3	STL	I-4 E-1/A/G	24x36	S-4	-	STL	I-4 E-1/A/G			-	-	-	-	-	SEE DETAILS A-37 INSULATED, EXTERIOR SIDE COLOR G	382
382A	3'-8"	7'-0"	1¾"	3	STL	I-4 E-1/A/G	24x36	S-4	-	STL	I-4 E-1/A/G			-	-	-	-	-	SEE DETAILS A-37 INSULATED, EXTERIOR SIDE COLOR G	382A
383	(2)3'-0"	7'-0"	1¾"	2	STL	I-4	A	5x20	S-4	3	STL	I-4	A	--	--	-	-	-	DOUBLE EGRESS, SEE DWG A-67	383
384	(2)3'-0"	7'-0"	1¾"	2	STL	I-4	A	5x20	S-4	3	STL	I-4	A	--	--	-	-	-	DOUBLE EGRESS, SEE DWG A-67	384
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386	3'-8"	7'-0"	1¾"	3	STL	I-4 E-1/A/G	24x36	S-4	-	STL	I-4 E-1/A/G			-	-	-	-	-	SEE DETAILS A-37 INSULATED, EXTERIOR SIDE COLOR G	386
386A	(2)3'-0"	7'-0"	1¾"	2	STL	I-4	A	5x20	S-4	3	STL	I-4	A	--	--	-	-	-	DOUBLE EGRESS, SEE DWG A-67	386A
387	3'-8"	7'-0"	1¾"	3	STL	I-4 E-1/A/G	24x36	S-4	-	STL	I-4 E-1/A/G			-	-	-	-	-	SEE DETAILS A-37 INSULATED, EXTERIOR SIDE COLOR G	387
387A	(2)3'-0"	7'-0"	1¾"	2	STL	I-4	A	5x20	S-4	3	STL	I-4	A	--	--	-	-	-	DOUBLE EGRESS, SEE DWG A-67	387A
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389	3'-8"	7'-0"	1¾"	3	STL	I-4 E-1/A/G	24x36	S-4	-	STL	I-4 E-1/A/G			-	-	-	-	-	SEE DETAILS A-37 INSULATED, EXTERIOR SIDE COLOR G	389
390	3'-8"	7'-0"	1¾"	3	STL	I-4 E-1/A/G	24x36	S-4	-	STL	I-4 E-1/A/G			-	-	-	-	-	SEE DETAILS A-37 INSULATED, EXTERIOR SIDE COLOR G	390
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393	3'-0"	7'-0"	1¾"	1	STL	I-4	F	-	-	3	STL	I-4	F	3	3	-	-	-	-	393
394	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	-	-	394
395	3'-0"	7'-0"	1¾"	1	STL	I-4	B	-	-	3	STL	I-4	B	3	3	-	-	-	-	395
396	3'-0"	7'-0"	1¾"	1	STL	I-4	--	--	--	3	STL	I-4	--	3	3	-	-	C	--	396
397	3'-0"	7'-0"	1¾"	1	STL	I-4	--	--	--	3	STL	I-4	--	3	3	-	-	C	--	397
398	3'-0"	7'-0"	1¾"	1	STL	I-4	--	--	--	3	STL	I-4	--	3	3	-	-	C	--	398
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COLOR LIST

A SHERWIN WILLIAMS PAINT NO. SW 1313 RUSTIQUE

B SHERWIN WILLIAMS PAINT NO. SW 1064 CORAL SANDS

C SHERWIN WILLIAMS PAINT NO. SW 1316 WINNIPEG SAND

D SHERWIN WILLIAMS PAINT NO. SW 1071 EXECUTIVE SUITE

E SHERWIN WILLIAMS PAINT NO. SW 1481 VIZCAYA

F SHERWIN WILLIAMS PAINT NO. SW 1075 EARTHENWARE

G (DOORS) TNEMIC BH42 SPIDER WEB
(FRAMES) TENEMIC BF82 CLOUD

ADDENDUM DRAWING 12/30/91
REPLACES DRAWING A-54

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

REGISTERED ARCHITECT RAYMOND ERNEST WEBSTER 029576 NEW YORK STATE
UNIVERSITY OF THE STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

DOOR SCHEDULE

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. MUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
A.SPANG	12/30/91	NO SCALE	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY DIVISION FOR YOUTH

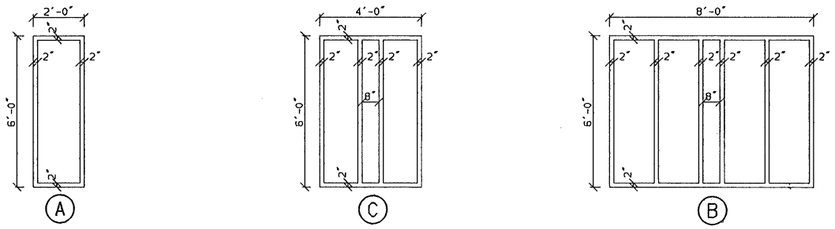
DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

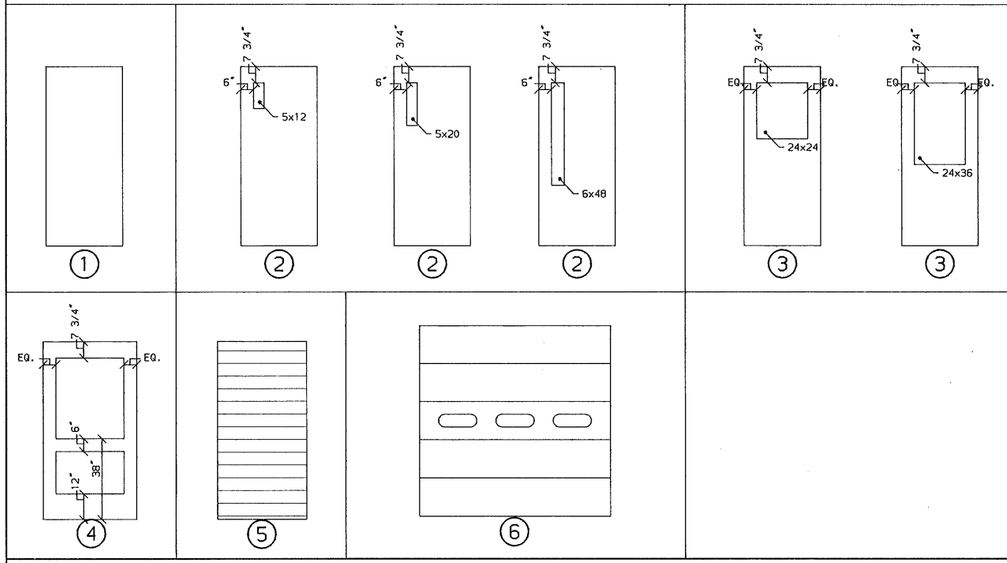
DRAWING NO. A-54 ADDENDUM DRAWING

PLAN FILE NO. 91/160

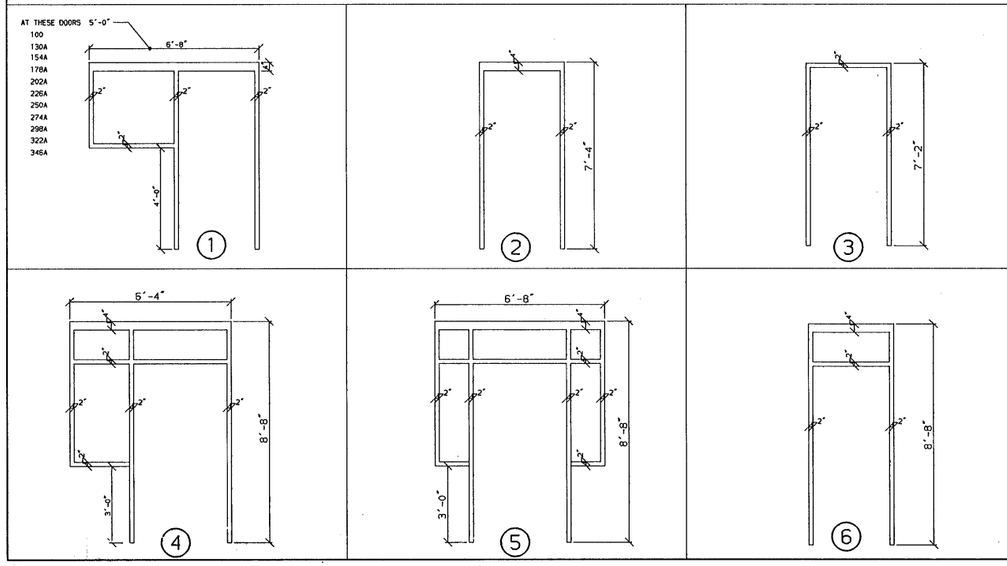
WINDOW TYPES



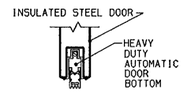
DOOR TYPES



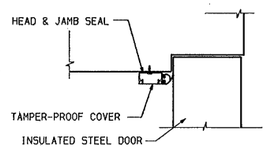
FRAME TYPES



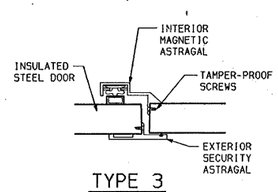
WEATHERSTRIPPING TYPES



TYPE 1

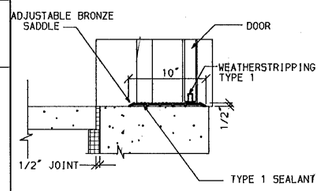


TYPE 2

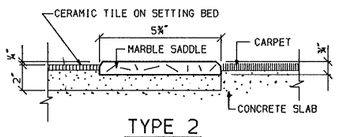


TYPE 3

THRESHOLD TYPES



TYPE 1
NTS



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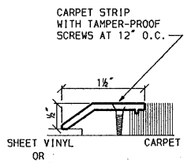

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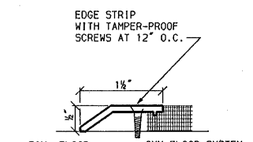
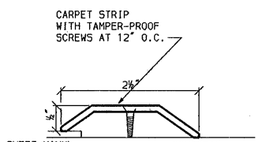


** SIMILAR FOR OTHER FLOOR MATERIALS **

TYPE 4
NTS



TYPE 5
NTS

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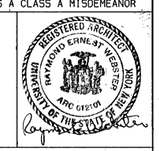

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

DOOR DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D.SCOTT	11/27/91		
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
G.DAOUST			

APPROVED BY DIVISION FOR YOUTH

DATED 11/27/91 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. A-55

PLAN FILE NO. 91/161

27 NOV 1991 10:53:21 GERRY.DAOUST

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR			BASE			WALLS													CEILING				REMARKS	ROOM NO.
								NORTH			SOUTH			EAST			WEST									
		MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	MATERIAL	FINISH	COLOR	HEIGHT		
1	VESTIBULE	CONC	CT	13,14, 15,16	CMU	WOOD	52	GLASS/ PLAS CMU	I-3	24 / 23	GLASS/ PLAS CMU	I-3	24 / 23	GLASS/ PLAS CMU	I-3	24 / 23	GLASS/ PLAS CMU	I-3	24 / 23	ACP	-	45	9'-0"	SEE FLOOR PATTERN,DWG NO WOOD CHAIR RAIL AT 3'-0"H, COLOR NO. 52	1
2	OUT LOBBY	CONC	CT	13,14, 15,16	CMU	WOOD	52	PLAS CMU	I-3	24 / 23	GB/GLASS/ PLAS CMU	I-3	24 / 23	GB/GLASS PLAS CMU	I-3	24 / 23	GB/GLASS PLAS CMU	I-3	24 / 23	ACP	-	46	16'-0"	SEE FLOOR PATTERN,DWG NO WOOD CHAIR RAIL AT 3'-0"H, COLOR NO. 52	2
3	IN LOBBY	CONC	CT	13,14, 15,16	CMU	WOOD	52	PLAS CMU	I-3	24 / 23	GB/GLASS/ PLAS CMU	I-3	24 / 23	GB/GLASS PLAS CMU	I-3	24 / 23	GB/GLASS PLAS CMU	I-3	24 / 23	ACP	-	46	16'-0"	SEE FLOOR PATTERN,DWG NO WOOD CHAIR RAIL AT 3'-0"H, COLOR NO. 52	3
4	VISITOR WAITING	CONC	CPT	2	CMU	WOOD	52	GWB/GLASS/ PLAS CMU	I-3	24 / 23	GB/GLASS/ PLAS CMU	I-3	24 / 23	GB/GLASS PLAS CMU	I-3	24 / 23	GB/GLASS PLAS CMU	I-3	24 / 23	ACP	-	45	9'-0"	-	4
5	VISITOR	CONC	CPT	3	CMU / GB	VINYL	18	PLAS CMU	I-3	24	GB	I-3	24	GB	I-3	24	GB	I-3	24	GB	ACT	49	9'-0"	-	5
6	VISITOR	CONC	CPT	3	CMU / GB	VINYL	18	PLAS CMU	I-3	24	GB	I-3	24	GB	I-3	24	GB	I-3	24	GB	ACT	49	9'-0"	-	6
7	VISITOR	CONC	CPT	3	CMU / GB	VINYL	18	PLAS CMU	I-3	24	GB	I-3	24	GB	I-3	24	GB	I-3	24	GB	ACT	49	9'-0"	-	7
8	JANITOR	CONC	VCT	12B	CMU / GB	VINYL	18	CMU	I-3	24	GB	I-3	24	GB	I-3	24	CMU	I-3	24	GB	I-1	44	9'-0"	-	8
9	HVAC	CONC	CS	-	CMU	-	-	CMU	-	-	CMU	-	-	CMU	-	-	CMU	-	-	GB	I-1	44	9'-0"	-	9
10	VISITOR TOILET	CONC	CT	13	CMU	CT	13	CMU	CT	36,37	CMU	CT	36,37	CMU	CT	36,37	CMU	CT	36,37	GB	I-1	44	9'-0"	SEE ELEVATIONS, DWG NO.A-19; COUNTERTOP -COLOR NO.57, BASE -COLOR NO.60	10
11	VISITOR TOILET	CONC	CT	13	CMU	CT	13	CMU	CT	36,37	CMU	CT	36,37	CMU	CT	36,37	CMU	CT	36,37	GB	I-1	44	9'-0"	SEE ELEVATIONS, DWG NO.A-19; COUNTERTOP -COLOR NO.57, BASE -COLOR NO.60	11
12	VISITING CHILD	CONC	CPT	3	CMU	VINYL	18	PLAS CMU	I-3	24	PLAS CMU	I-3	24	PLAS CMU	I-3	24	PLAS CMU	I-3	24	GB	ACT	49	9'-0"	-	12
13	TOILET	CONC	CT	14	CMU	CT	14	CMU	CT	36,38	CMU	CT	36,38	CMU	CT	36,38	CMU	CT	36,38	GB	I-1	44	9'-0"	SEE ELEVATIONS, DWG NO.A-19; COUNTERTOP -COLOR NO.57, BASE -COLOR NO.60	13
14	BUSINESS OFFICE	CONC	CPT	10	CMU / GB	VINYL	19	GWB/GLASS/ PLAS CMU	I-3	24 / 25	GLASS / GB	I-3	26	GLASS/PLAS CMU	I-3	25* / 26	GB	I-3	26	ACP	-	46	16'-0"	*COLOR NO.25 ON FACE OF SOFFIT, COLOR NO.44 ON UNDERSIDE OF SOFFIT	14
15	STEWARD	CONC	CPT	11	CMU / GB	VINYL	20	GB	I-3	26	PLAS CMU	I-3	26	PLAS CMU	I-3	26	GB	I-3	26	ACP	-	45	9'-0"	-	15
16	STORAGE	CONC	VCT	12A	CMU / GB	VINYL	20	GB	I-3	26	PLAS CMU	I-3	26	GB	I-3	26	GB	I-3	26	ACP	-	45	9'-0"	-	16
17	FILES	CONC	VCT	12A	CMU / GB	VINYL	20	GB	I-3	26	PLAS CMU /GB	I-3	26	GB	I-3	26	GB	I-3	26	ACP	-	45	9'-0"	-	17
18	ELECTRIC	CONC	CS	-	GB	-	-	GB	I-3	26	GB	I-3	26	GB	I-3	26	GB	I-3	26	GB	I-1	44	9'-0"	-	18
19	MAIL	CONC	VCT	12A	GB	VINYL	20	GB	I-3	26	GB	I-3	26	GB	I-3	26	GB	I-3	26	ACP	-	45	9'-0"	-	19
20	FEMALE LOCKER	CONC	CT	13	GB	CT	13	GB	CT	36,37	GB	CT	36,37	GB	CT	36,37	GB	CT	36,37	GB	I-4	44	9'-0"	SEE ELEVATIONS, DWG NO.A-18. DO NOT PROVIDE TILE BEHIND LOCKERS. COUNTERTOP -COLOR NO.55, BASE -COLOR NO.60	20
21	MALE LOCKER	CONC	CT	13	GB	CT	13	GB	CT	36,37	GB	CT	36,37	GB	CT	36,37	GB	CT	36,37	GB	I-4	44	9'-0"	SEE ELEVATIONS, DWG NO.A-18. DO NOT PROVIDE TILE BEHIND LOCKERS. COUNTERTOP -COLOR NO.55, BASE -COLOR NO.60	21
22	STAFF LOUNGE	CONC	CPT	11	CMU / GB	VINYL	20	GB	I-3	27	GB	I-3	27	GB	I-3	27	PLAS CMU	I-3	27	ACP	-	45	9'-0"	-	22
23	STORAGE	CONC	VCT	12A	GB	VINYL	19	GB	I-3	28	GB	I-3	28	GB	I-3	28	GB	I-3	28	GB	I-1	44	12'-0"	-	23
24	JUVINILE TOILET	CONC	CT	15	CMU / GB	CT	15	GB	CT	36,39	GB	CT	36,38	GB	CT	36,39	CMU	CT	36,39	GB	I-1	44	9'-0"	SEE ELEVATIONS, DWG NO.A-18	24
25	JUVINILE TOILET	CONC	CT	15	CMU / GB	CT	15	GB	CT	36,39	GB	CT	36,38	GB	CT	36,39	CMU	CT	36,39	GB	I-1	44	9'-0"	SEE ELEVATIONS, DWG NO.A-18	25
26	MULTI.PUR/SPIRITUAL	CONC	CPT	10	CMU / GB	WOOD	52	GB	WC / I-3	34	GB/ PLAS CMU	WC / I-3	35	GB	WC / I-3	34	PLAS CMU	WC / I-3	34	GB / ACP	I-1 / -	44 / 45	9'-0"	FACE OF SOFFIT -COLOR NO.28, WOOD CHAIR RAIL AT 3'-0"H COLOR NO.52	26
27	STAFF TOILET	CONC	CT	13	GB	CT	13	GB	I-3 / CT	28 / 36,37	GB	I-3 / CT	28 / 36,37	GB	I-3 / CT	28 / 36,37	GB	I-3 / CT	28 / 36,37	GB	I-1	44	9'-0"	SEE ELEVATIONS, DWG NO.A-18	27
28	STAFF TOILET	CONC	CT	13	GB	CT	13	GB	I-3 / CT	28 / 36,37	GB	I-3 / CT	28 / 36,37	GB	I-3 / CT	28 / 36,37	GB	I-3 / CT	28 / 36,37	GB	I-1	44	9'-0"	SEE ELEVATIONS, DWG NO.A-18	28
29	COMPUTER	CONC	VCT	12A	GB	VINYL	20	GB	I-3	26	GB	I-3	26	GB	I-3	26	GB	I-3	26	ACP	-	45	9'-0"	-	29
30	SUPPLY	CONC	VCT	12A	GB	VINYL	20	GB	I-3	26	GB	I-3	26	GB	I-3	26	GB	I-3	26	ACP	-	45	9'-0"	-	30
31	CONFERENCE	CONC	CPT	11	GB	VINYL	20	GB	I-3	29	GB	I-3	29* / 24	GB	I-3	24	GB	I-3	24	ACP	-	45	9'-0"	*COLOR NO.29 ON BACKFACE OF RECESSED WALL	31
32	VIDEO	CONC	VCT	12A	GB	VINYL	20	GB	I-3	24	GB	I-3	24	GB	I-3	24	GB	I-3	24	ACP	-	45	9'-0"	-	32
33	DIRECTOR	CONC	CPT	11	CMU / GB	VINYL	20	GB/ PLAS CMU	I-3	24	PLAS CMU	I-3	26	GB	I-3	24	PLAS CMU	I-3	26	ACP	-	45	9'-0"	-	33
34	CLERICAL	CONC	CPT	10	CMU / GB	VINYL	19	GB	I-3	25*	GLASS/ PLAS CMU	I-3	26	GB	I-3	24	PLAS CMU/ GB	I-3	24	GB	I-1	44	9'-0"- 14'-0"	* KNEEWALL HERE	34
35	RECEPTION	CONC	CPT	10	GB	VINYL	19	GB	I-3	26	GB	I-3	25*	GB	I-3	24	GB	I-3	24	GB	I-1	44	16'-0"- 18'-0"	* KNEEWALL HERE	35
36	ASSISTANT DIRECTOR	CONC	CPT	11	CMU / GB	VINYL	20	GB	I-3	24	PLAS CMU	I-3	26	PLAS CMU	I-3	26	GB	I-3	24	ACP	-	45	9'-0"	-	36
37	EDUCATION DIRECTOR	CONC	CPT	11	CMU / GB	VINYL	20	GB	I-3	24	GB	I-3	24	PLAS CMU	I-3	26	GB	I-3	24	ACP	-	45	9'-0"	-	37
38	RECORDS	CONC	CPT	11	CMU / GB	VINYL	20	GB	I-3	26	GB	I-3	26	PLAS CMU	I-3	26	GB	I-3	26	ACP	-	45	9'-0"	-	38
39	COPY	CONC	VCT	12A	CMU / GB	VINYL	20	GB	I-3	26	GB	I-3	26	PLAS CMU	I-3	26	GB	I-3	26	ACP	-	45	9'-0"	-	39
40	SUPER YDC	CONC	CPT	11	CMU / GB	VINYL	20	GB	I-3	26	GB	I-3	24	PLAS CMU	I-3	24	GB	I-3	24	ACP	-	45	9'-0"	-	40
41	SENIOR YDC	CONC	CPT	11	CMU / GB	VINYL	20	GB	I-3	24	GB	I-3	26	PLAS CMU	I-3	24	GB	I-3	24	ACP	-	45	9'-0"	-	41
42	INTERVIEW	CONC	CPT	11	CMU / GB	VINYL	20	GB	I-3	24	GB	I-3	24	PLAS CMU	I-3	24	GB	I-3	24	ACP	-	45	9'-0"	-	42
43	VISITING STAFF	CONC	CPT	11	CMU / GB	VINYL	20	GB	I-3	24	GB	I-3	24	PLAS CMU	I-3	24	GB	I-3	24	ACP	-	45	9'-0"	-	43
44	CONFERENCE	CONC	CPT	11	CMU / GB	VINYL	20	GB	I-3	24	GB	I-3	24	PLAS CMU	I-3	24	GB	I-3	24	ACP	-	45	9'-0"	-	44
45	DINING	CONC	CPT	2	CMU	WOOD	52	GLASS/ GB/CMU	I-3	23 / 31	GLASS/ GB/CMU	I-3	23 / 31	GLASS / CMU	I-3	59 / 31	GLASS / CMU	I-3	59 / 31	ACP / WOOD*	-	45	19'-0"- 24'-0"	FREESTANDING WALLS BOTTOM -COLOR NO.51, *METAL TRIM -COLOR NO.30, PILASTERS -COLOR NO.30 *WOOD CHAIR AT 3'-0"H, -COLOR NO.52. CEILING TO BE WOOD TRIM -COLOR NO.52.	45
46	CENTRAL CONTROL	CONC	VCT	12A	CMU	VINYL	18	CMU	I-3	27	GLASS / CMU	I-3	27	GLASS / CMU	I-3	27	GLASS / CMU	I-3	27	GB	ACT	49	9'-0"	COUNTERTOP -COLOR NO.57, BASE -COLOR NO.57	46
47	ELECTRIC	CONC	CS	-	CMU	-	-	CMU	I-3	27	CMU	I-3	27	CMU	I-3	27	CMU	I-3	27	GB	I-1	44	9'-0"	-	47
48	CLASSROOM	CONC	CPT	3	CMU	VINYL	18	CMU	I-3	27	CMU	I-3	27	GLASS / CMU	I-3	27	GLASS / CMU	I-3	27	GB	ACT	49	9'-0"	-	48
49	EMPLOYEE ASSISTANCE	CONC	CPT	3	CMU	VINYL	18	CMU	I-3	27	CMU	I-3	27	GLASS/ PLAS CMU	I-3	27	PLAS CMU	I-3	27	GB	I-1	44	9'-0"	-	49
50	TEACHER'S WORKROOM	CONC	CPT	3	CMU	VINYL	18	CMU	I-3	27	CMU	I-3	27	GLASS / CMU	I-3	27	GLASS / CMU	I-3	27	GB	I-1	44	9'-0"	-	50

COLOR LIST

FLOORS

1. MOHAWK COMMERCIAL CARPET, HARMONY GROUP -COLOR ACCENT, NO. CLA/424 MYRTLE.
2. MOHAWK COMMERCIAL CARPET, HARMONY GROUP -COLOR POINT, NO. CLP/424 MYRTLE.
3. MOHAWK COMMERCIAL CARPET, HARMONY GROUP -COLOR THEME, NO. CTH/424 MYRTLE.
4. MOHAWK COMMERCIAL CARPET, HARMONY GROUP -COLOR POINT, NO. CLP/215 SHRIMP.
5. MOHAWK COMMERCIAL CARPET, HARMONY GROUP -COLOR THEME, NO. CTH/215 SHRIMP.
6. MOHAWK COMMERCIAL CARPET, HARMONY GROUP -COLOR POINT, NO. CLP/825 BURLWOOD.
7. MOHAWK COMMERCIAL CARPET, HARMONY GROUP -COLOR THEME, NO. CTH/825 BURLWOOD.
8. MOHAWK COMMERCIAL CARPET, HARMONY GROUP -COLOR POINT, NO. CLP/813 FAWN.
9. MOHAWK COMMERCIAL CARPET, HARMONY GROUP -COLOR THEME, NO. CTH/813 FAWN.
10. WELLCO CARPET, OCALA, CREAMCICLE (CREA).
11. WELLCO CARPET, OCALA, BROWNSTONE (BRST).
12. ARMSTRONG SOLID VINYL COMMERCIAL SHEET VINYL, MEDINTECH NO. 86472 BOUVARDIA.
12A. TARKETT VINYL COMPOSITION FLOOR TILE, SIGNALS COLLECTION NO.3819
12B. TARKETT VINYL COMPOSITION FLOOR TILE, BASICS ARCHITECTURAL WHITE/TEAL NO.3043
13. AMERICAN OLEAN CERAMIC MOSAIC TILE, NO. ABO TAUPE.
14. AMERICAN OLEAN CERAMIC MOSAIC TILE, NO. R24 SEA CORAL.
15. AMERICAN OLEAN CERAMIC MOSAIC TILE, NO R23 JEWEL GREEN.
16. AMERICAN OLEAN CERAMIC MOSAIC TILE, NO A13 WHITE.

NOTE: COLORS 13,14,15&16 TO BE MASTERSET IN AMERICAN OLEAN PATTERN NO. SB-1129 IN ROOMS 1,2,3,6,& 391.

17. AMERICAN OLEAN SURE STEP QUARRY TILE, NO. Q12 RED.

BASES

18. VPI VINYL BASE, NO. 318 MING GREEN.
19. VPI VINYL BASE, NO. 313 ADOBE ROSE.
20. VPI VINYL BASE, NO. 314 TAUPE.
21. VPI VINYL BASE, NO. 364 CHOCOLATE.
22. VPI VINYL BASE, NO. 385 SPANISH CLAY.

WARNING

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REGISTERED ARCHITECT WILLIAM ERNEST WEBER ARC 017424

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ROOM FINISH SCHEDULE

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. MUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
A.SPANG	11/27/91	NONE	WFW
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
A.MORRIS			

APPROVED BY: DIVISION FOR YOUTH

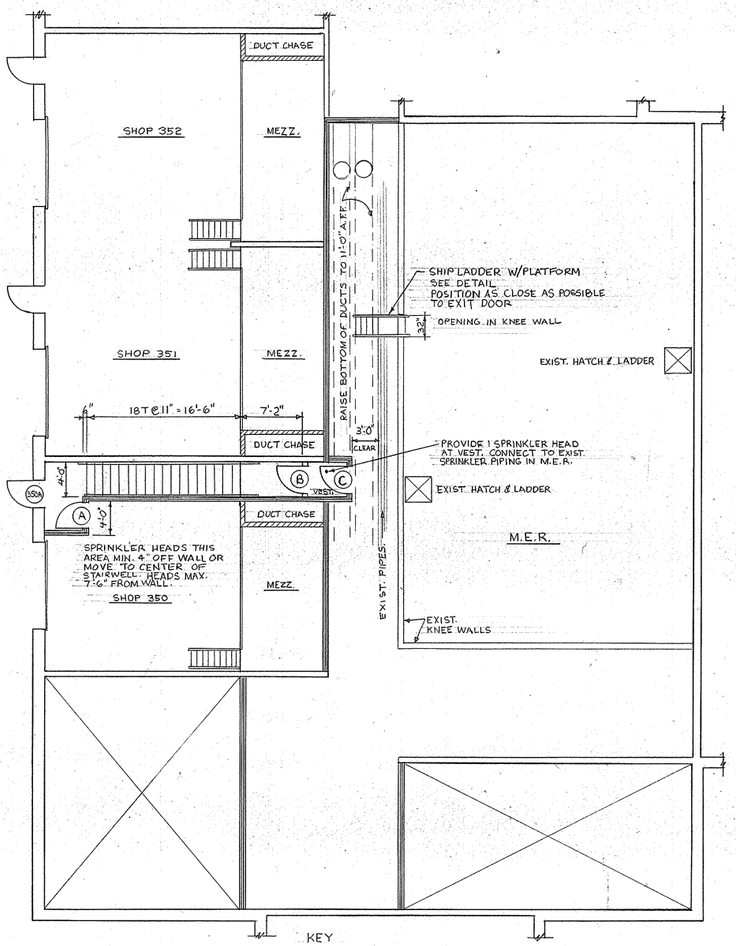
DATED: 11/27/91 LETTER NO.: 026344

PROJECT NO. 38317-C

DRAWING NO. A-57

PLAN FILE NO. 91/163

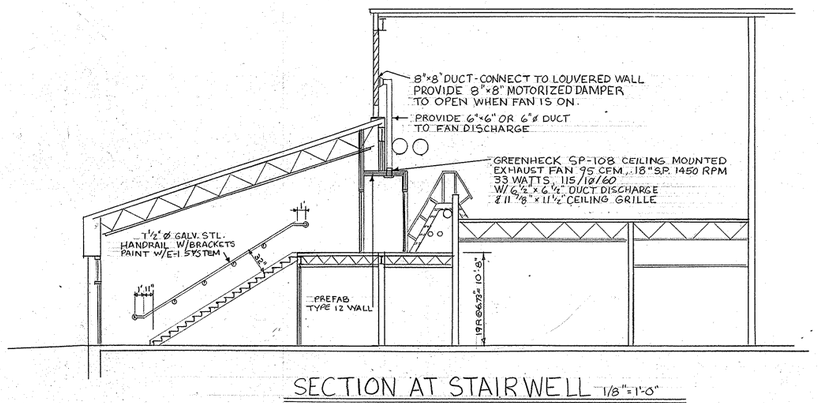
27 NOV 1991 10:46:29 TONY.MORRIS <USERDIR:ARCH>SSD2HS.DFT>S.38317



PLAN GYM/VOC. M.E.R. AREA 1/8"=1'-0"

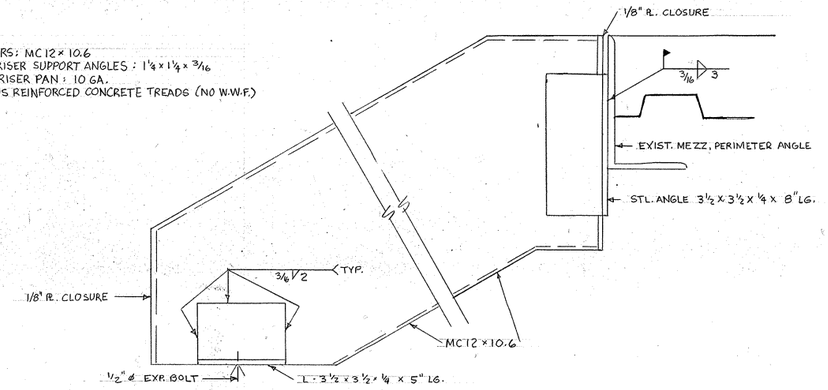
FINISH HARDWARE

DOOR A RHR
3 HINGES HAGER BB1279 - 4½ × 4½ × USP
1 DOOR CLOSER YALE PR403 × SNB × AL
1 LOCKSET YALE 8760 - 2 × 2813 × LF × LN × SHS × US32D × KEY CHANGE AC1
1 WALL STOP ROCKWOOD - 400 × W526D
DOOR B & C LHR EA. DOOR
SAME AS ABOVE EXCEPT LOCKSET
LOCKSET YALE 8705 × 2812 × LF × LN × KNURLED KNOB OUTSIDE × US32D × KEY CHANGE A-3
EXIST. DOOR 350A
CHANGE LOCK TO 8705 FUNCTION WITH AC1 KEY CHANGE

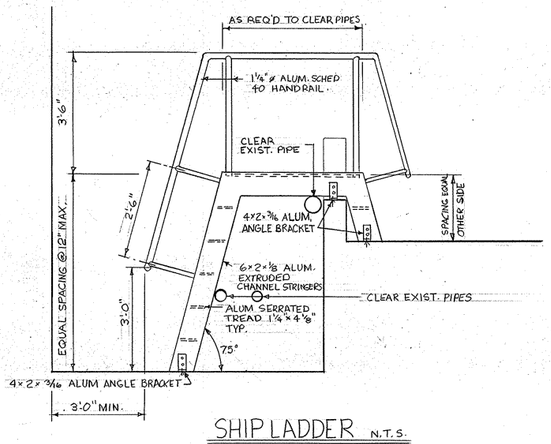


SECTION AT STAIRWELL 1/8"=1'-0"

STAIR:
STRINGERS: MC 12 × 10.6
TREAD/RISER SUPPORT ANGLES: 1¼ × 1¼ × 3/16
TREAD/RISER PAN: 10 GA.
FIBEROUS REINFORCED CONCRETE TREADS (NO W.W.F.)



STAIR ANCHORAGE N.T.S.



SHIP LADDER N.T.S.

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS	DESIGN AND CONSTRUCTION DIRECTOR RAYMOND W. CASEY III
	DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DRAWN BY	DATE	SCALE	APPROVED
D.S. J.D. H.D. J.J.	6/24/93		
TRACED BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK

APPROVED BY
DATED LETTER NO.

PROJECT NO.	DRAWING NO.
38317	69
	PLAN FILE #

CHANGE ORDER #

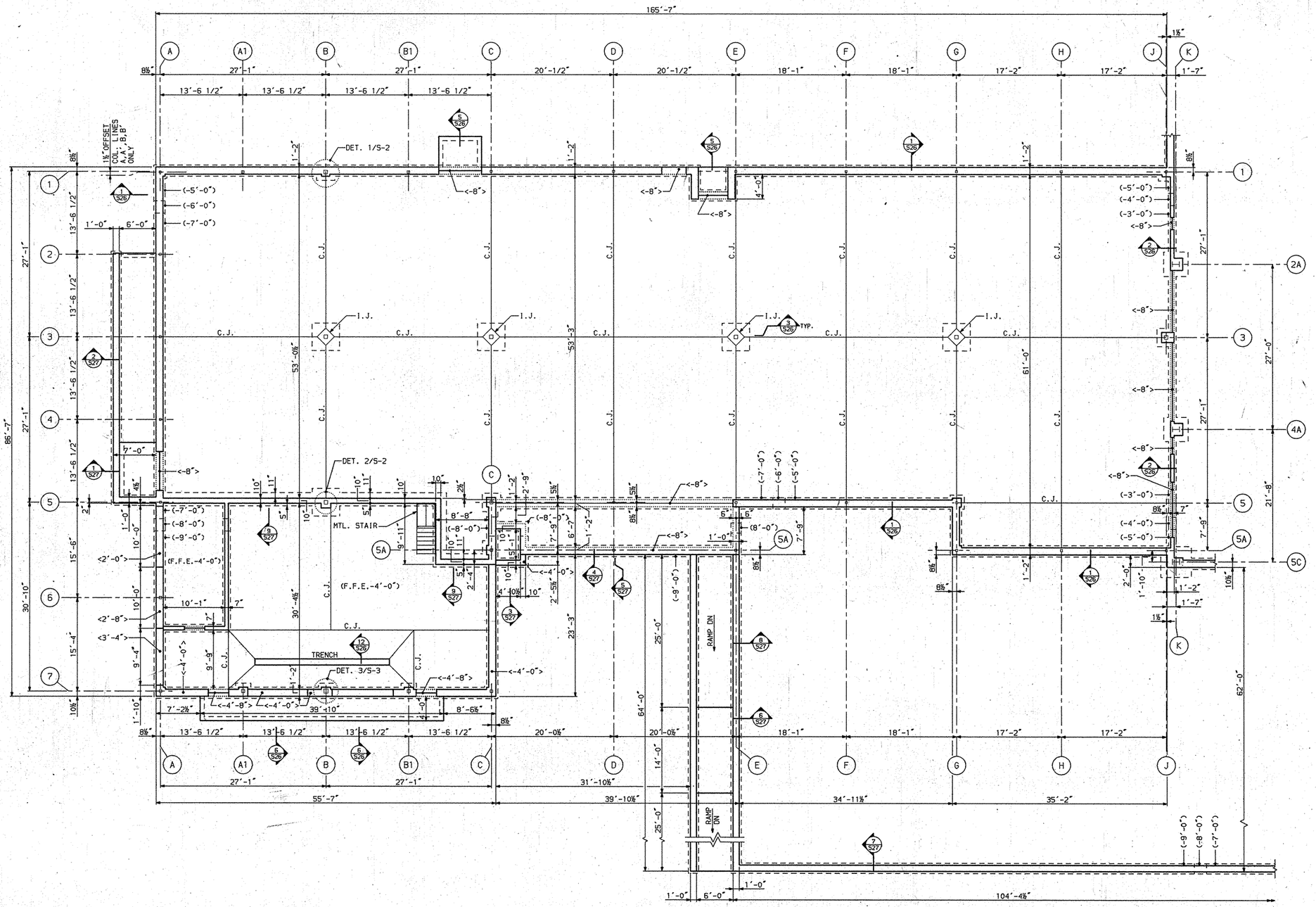
LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

GYM./VOC. M.E.R. EGRESS

REGISTERED ARCHITECT JAMES M. DAWSON 015319 THE STATE OF NEW YORK

002465



KEY PLAN

NOTES:

1. SEE DRAWING S-26 FOR TYPICAL FOUNDATION NOTES, SECTIONS AND DETAILS.
2. BOTTOM OF FOOTING ELEVATIONS (X'-X") ARE GIVEN FROM FINISHED FLOOR DATUM = 0'-0". SEE DRAWING L-52 FOR ACTUAL FINISHED FLOOR ELEVATION.
3. TOP OF FOUNDATION WALL ELEVATION = 0'-0" UNLESS NOTED THUS <-4'-0">
4. CONCRETE SLAB THICKNESS = 6" UNLESS NOTED OTHERWISE.

WARNING
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STATE OF NEW YORK JAMES BRZEZINSKI LICENSED ARCHITECT No. 019136 ALL STATES

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Warehouse & Kitchen Wing

FOUNDATION PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
R. DOYLE	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

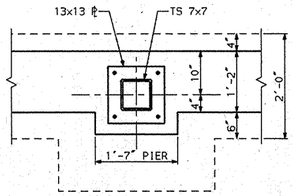
DRAWING NO. S-1

PCAN FILE NO. 91/178

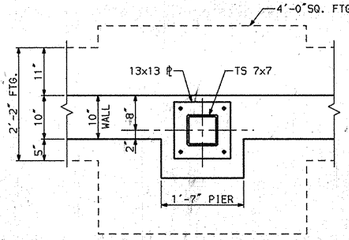
25 NOV 1991 08:19:56 JOHN_N|CASE =USER24=STRA=S001=U_38317

PIER AND COLUMN SCHEDULE

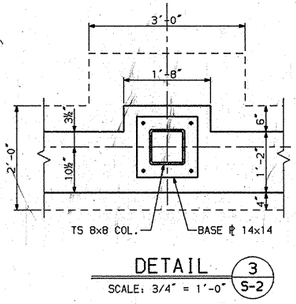
	COLUMNS	A-1	A-2 A-3 A-4 A-5	A-6	A1-1 B1-1	A1-7 B1-7	B-7	B-1	B-3	B-5	A-7 C-7	C-1 D-1 E-1 F-1 G-1 H-1	D-5	E-5 F-5	C-5	G-5A J-5A	H-5A	D-5A E-5A	J-1	C-3 E-3	G-3	J-3	C-5A	G-5
	MAIN ROOF T.O.S. 23'-3¼"																							
	T.O.S. 18'-9½"																							
	T.O.S. 14'-3½"																							
	T.O.S. 13'-0"																							
	MAIN FLOOR EL. 0'-0"	TS 4x4x1/4	TS 4x4x1/4	TS 5x5x1/4	TS 5x5x1/4	TS 6x6x1/4	TS 8x8x5/16	TS 7x7x5/16	TS 7x7x5/16	TS 7x7x5/16	TS 5x5x1/4	TS 4x4x1/4	TS 4x4x1/4	TS 4x4x1/4	TS 6x6x1/4	TS 4x4x1/4	TS 4x4x1/4	TS 4x4x1/4	TS 4x4x1/4	TS 7x7x5/16	TS 7x7x5/16	TS 7x7x5/16	TS 5x5x1/4	TS 4x4x1/4
	EL. -0'-8"																							
	EL. -2'-8"																							
	EL. -4'-0"																							
	BASE PLATE	10"x10"x3/8"	8"x12"x1/2"	8"x14"x1/2"	8"x14"x1/2"	12"x12"x5/8"	14"x14"x5/8"	13"x13"x5/8"	13"x13"x3/4"	13"x13"x3/4"	11"x11"x1/2"	8"x12"x5/8"	8"x12"x5/8"	8"x12"x5/8"	12"x12"x5/8"	10"x10"x1/2"	8"x12"x5/8"	8"x12"x3/8"	10"x10"x1/2"	13"x13"x7/8"	13"x13"x1"	13"x13"x3/4"	8"x14"x1/2"	10"x10"x5/8"
PIER	SIZE A x B	1'-4" SQ.	1'-2" SQ.	1'-2" SQ.	1'-2" SQ.	1'-6" SQ.	1'-8" SQ.	1'-7" SQ.	1'-7" SQ.	1'-7" SQ.	1'-5" SQ.	1'-2" SQ.	1'-2" SQ.	1'-2" SQ.	1'-6" SQ.	1'-4" SQ.	1'-2" SQ.	1'-2" SQ.	1'-4" SQ.	1'-7" SQ.	1'-7" SQ.	1'-7" SQ.	1'-2" SQ.	1'-4" SQ.
PIER	REINFORCING VERTICALS	4-#5 BARS	4-#5 BARS	4-#5 BARS	4-#5 BARS	4-#6 BARS	4-#7 BARS	4-#6 BARS	4-#6 BARS	4-#6 BARS	4-#5 BARS	4-#5 BARS	4-#5 BARS	4-#5 BARS	4-#6 BARS	4-#5 BARS	4-#5 BARS	4-#5 BARS	4-#5 BARS	4-#6 BARS	4-#6 BARS	4-#6 BARS	4-#5 BARS	4-#5 BARS
PIER	REINFORCING STIRRUPS	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"
FOOTING	SIZE	2'-0"x2'-0"x1'-0"	2'-0"x2'-0"x1'-0"	2'-0"x2'-0"x1'-0"	2'-0"x2'-0"x1'-0"	3'-0"x3'-0"x1'-0"	3'-0"x3'-0"x1'-0"	3'-0"x3'-0"x1'-0"	4'-0"x4'-0"x1'-0"	4'-0"x4'-0"x1'-0"	2'-6"x2'-6"x1'-0"	2'-0"x2'-0"x1'-0"	2'-0"x2'-0"x1'-0"	2'-0"x2'-0"x1'-0"	3'-0"x3'-0"x1'-0"	2'-6"x2'-6"x1'-0"	2'-0"x2'-0"x1'-0"	2'-0"x2'-0"x1'-0"	2'-6"x2'-6"x1'-0"	4'-6"x4'-6"x1'-0"	5'-0"x5'-0"x1'-0"	4'-0"x4'-0"x1'-0"	2'-0"x2'-0"x1'-0"	2'-6"x2'-6"x1'-0"
FOOTING	REINFORCING	3-#4 EA. WAY	3-#4 EA. WAY	3-#4 EA. WAY	3-#4 EA. WAY	3-#4 EA. WAY	4-#4 EA. WAY	4-#4 EA. WAY	6-#4 EA. WAY	6-#4 EA. WAY	3-#6 EA. WAY	3-#4 EA. WAY	3-#4 EA. WAY	3-#4 EA. WAY	4-#3 EA. WAY	3-#4 EA. WAY	3-#4 EA. WAY	2-#4 EA. WAY	3-#4 EA. WAY	7-#4 EA. WAY	9-#4 EA. WAY	6-#4 EA. WAY	3-#4 EA. WAY	3-#4 EA. WAY
	COLUMNS	A-1	A-2 A-3 A-4 A-5	A-6	A1-1 B1-1	A1-7 B1-7	B-7	B-1	B-3	B-5	A-7 C-7	C-1 D-1 E-1 F-1 G-1 H-1	D-5	E-5 F-5	C-5	G-5A J-5A	H-5A	D-5A E-5A	J-1	C-3 E-3	G-3	J-3	C-5A	G-5



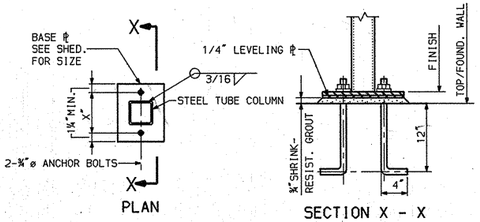
DETAIL 1 / S-2
SCALE: 3/4" = 1'-0"



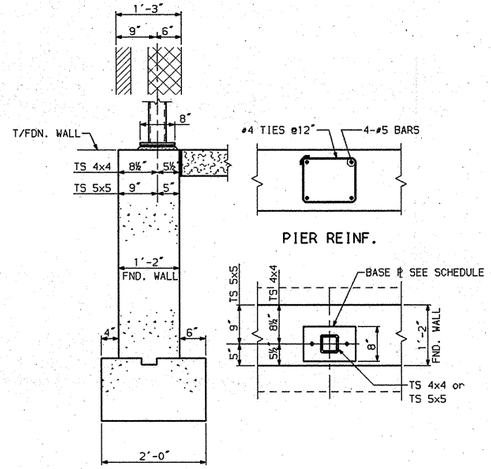
DETAIL 2 / S-2
SCALE: 3/4" = 1'-0"



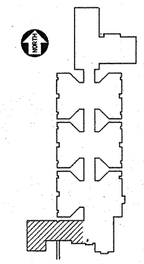
DETAIL 3 / S-2
SCALE: 3/4" = 1'-0"



TYPICAL BASE ℄ DETAILS



TYPICAL PIER FOR
TS 4x4 COL.
TS 5x5 COL.



KEY PLAN

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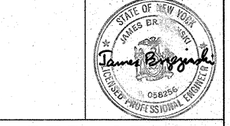


CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Warehouse & Kitchen Wing

PIER & COLUMN SCHEDULE AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
R. DOYLE	NOV. 27, 1991	XXX'	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

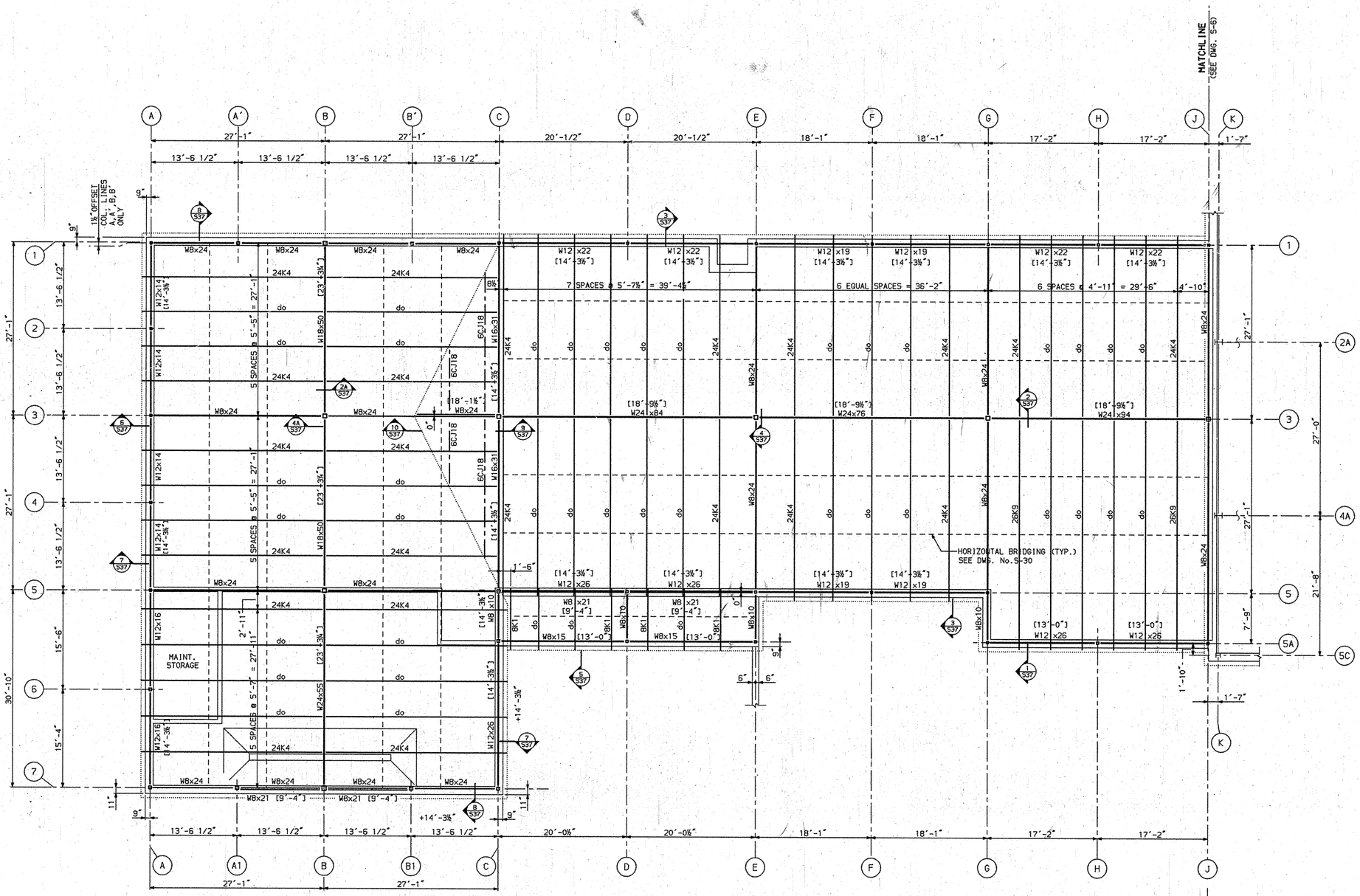
DATED NOV. 27, 1991 LETTER NO. 026344

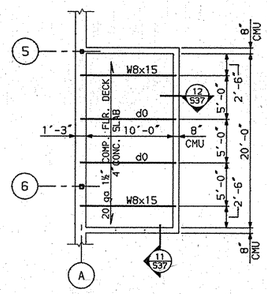
PROJECT NO. 38317-C

DRAWING NO. S-2

PLAN FILE NO. 91/179

JOHN.MCCABE 27 NOV 1991 08:24:13 <USER240>STRUCSS01#0,38317

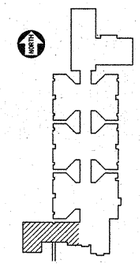




PLAN - MAINT. STORAGE

NOTES:

1. SEE DRAWING S-30 FOR TYPICAL STRUCTURAL NOTES, SECTIONS AND DETAILS.



KEY PLAN

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CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Warehouse & Kitchen Wing

ROOF FRAMING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
R. DOYLE	NOV. 27, 1991	XXX'	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

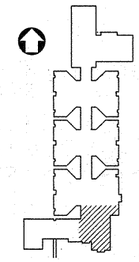
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	S-3
	PLAN FILE NO. 91/180

25 NOV 1991 08:19:02 JOHN.MICHISE

NOTES

1. SEE DRAWING S-26 FOR TYPICAL FOUNDATION NOTES, SECTIONS AND DETAILS.
2. BOTTOM OF FOOTING ELEVATIONS (X'-X") ARE GIVEN FROM FINISHED FLOOR DATUM = 0'-0". SEE DRAWING L-52 FOR ACTUAL FINISHED FLOOR ELEVATION.
3. CONCRETE SLAB THICKNESS = 6" UNLESS NOTED OTHERWISE.
4. TOP OF FOUNDATION WALL ELEV. = 0'-0" UNLESS NOTED OTHERWISE.



KEY PLAN

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CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Administration Wing

FOUNDATION PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

DATED NOV. 27, 1991 LETTER NO. 026344

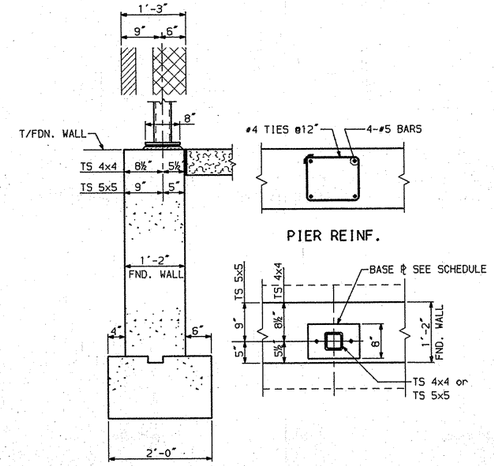
PROJECT NO. 38317-C

DRAWING NO. S-4

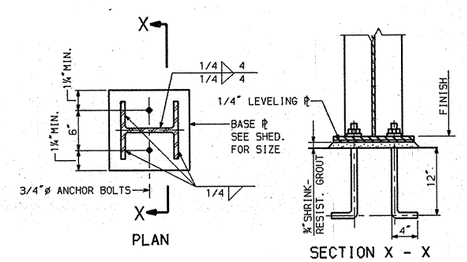
PLAN FILE NO. 91/181

PIER AND COLUMN SCHEDULE

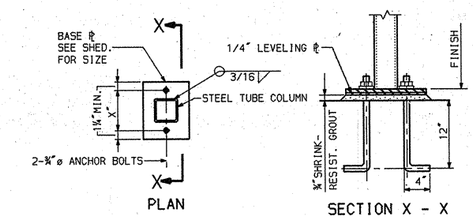
	COLUMNS	R-3A R-2A L1-6A	M-9 Q-9 R-5B	L1-8 R-8	M-6B Q-6B	Q-4A Q-2A Q-14 Q-5B	R-14	Q-12	V-14	K-5C L-5C	K1-5C K5-5C	K2-5C K4-5C	K3-5C	V-12	L1-B5	U-12	M-5B	L2-2B L2-14B M-2B M-14B	K-4A L-4A K-2A L-2A K-14A L-14A K-12A L-12A
	T.O.S. EL. 31'-5 3/8"																		
	T.O.S. EL. 29'-8"																		
	T.O.S. EL. 27'-10 5/8"																		
	T.O.S. EL. 26'-2"																		
	T.O.S. EL. 24'-2 3/4"																		
	T.O.S. EL. 21'-7"																		
	T.O.S. EL. 18'-2"																		
	T.O.S. EL. 14'-1⅝"																		
	T.O.S. EL. 12'-0"																		
	T.O.S. EL. 11'-5¾"																		
	MAIN FLOOR ELEV. 0'-0"	TS4x4x1/4	TS4x4x1/4	TS4x4x1/4	10"DIA. EXTRA STRONG PIPE	W8x35	TS4x4x1/4	W8x35	TS5x5x1/4	W8x35	10"DIA. EXTRA STRONG PIPE	10"DIA. EXTRA STRONG PIPE	10"DIA. EXTRA STRONG PIPE	TS5x5x1/4	W8x35	10"DIA. EXTRA STRONG PIPE	W8x35	TS 4x4x1/4	SEE FRAME F-2
	-8"																		
	BASE PLATE	8x12x1/2	10x10x1/2	10x10x1/2	14x14x5/8	11x11x1/2	10x10x5/8	11x11x1/2	11x11x1/2	11x11x1/2	14x14x5/8	14x14x5/8	14x14x5/8	8x14x1/2	11x11x1/2	14x14x5/8	11x11x1/2	10x10x1/2	DWG. S-31
PIER	SIZE AxB	1'-2"SQ.	1'-4"SQ.	1'-4"SQ.	1'-5"SQ.	1'-5"SQ.	1'-4"SQ.	1'-5"SQ.	1'-5"SQ.	1'-5"SQ.	1'-8"SQ.	1'-8"SQ.	1'-8"SQ.	1'-2"SQ.	1'-5"SQ.	1'-7"SQ.	1'-5"SQ.	1'-4"SQ.	14"x20"
PIER	VERTICALS	4-#5	4-#5	4-#5	4-#5	4-#5	4-#5	4-#5	4-#5	4-#5	4-#6	4-#6	4-#6	4-#5	4-#5	4-#6	4-#5	4-#5	4-#6
PIER	STIRRUPS	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"	#3@12"
FOOTING	SIZE	2'-0"x2'-0"x1'-0"	2'-6"x2'-6"x1'-0"	2'-6"x2'-6"x1'-0"	3'-0"x3'-0"x1'-0"	4'-0"x4'-0"x1'-0"	2'-6"x2'-6"x1'-0"	4'-0"x4'-0"x1'-0"	2'-6"x2'-6"x1'-0"	3'-0"x3'-0"x1'-0"	3'-0"x3'-0"x1'-0"	3'-0"x3'-0"x1'-0"	3'-0"x3'-0"x1'-0"	2'-0"x2'-0"x1'-0"	2'-6"x2'-6"x1'-0"	4'-0"x4'-0"x1'-0"	3'-0"x3'-0"x1'-0"	2'-6"x2'-6"x1'-0"	4'-6"x4'-6"x1'-0"
FOOTING	REINFORCING	3-#4 EA. WAY	3-#4 EA. WAY	3-#4 EA. WAY	4-#4 EA. WAY	6-#4 EA. WAY	3-#4 EA. WAY	6-#4 EA. WAY	3-#4 EA. WAY	4-#4 EA. WAY	4-#4 EA. WAY	4-#4 EA. WAY	4-#4 EA. WAY	3-#4 EA. WAY	3-#4 EA. WAY	6-#4 EA. WAY	4-#4 EA. WAY	3-#4 EA. WAY	7-#4 EA. WAY
	COLUMNS	R-3A R-2A L1-6A	M-9 Q-9 R-5B	L1-8 R-8	M-6B Q-6B	Q-4A Q-2A Q-14 Q-5B	R-14	Q-12	V-14	K-5C L-5C	K1-5C K5-5C	K2-5C K4-5C	K3-5C	V-12	L1-B5	U-12	M-5B	L2-2B L2-14B M-2B M-14B	K-4A L-4A K-2A L-2A K-14A L-14A K-12A L-12A



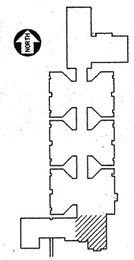
TYPICAL PIER FOR
TS 4x4 COL.
TS 5x5 COL.



TYPICAL BASE ℄ DETAILS



TYPICAL BASE ℄ DETAILS



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STATE OF NEW YORK
JAMES BRZEZINSKI
No. 056
LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

Administration Wing

PIER & COLUMN
SCHEDULE
AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND M. CASEY

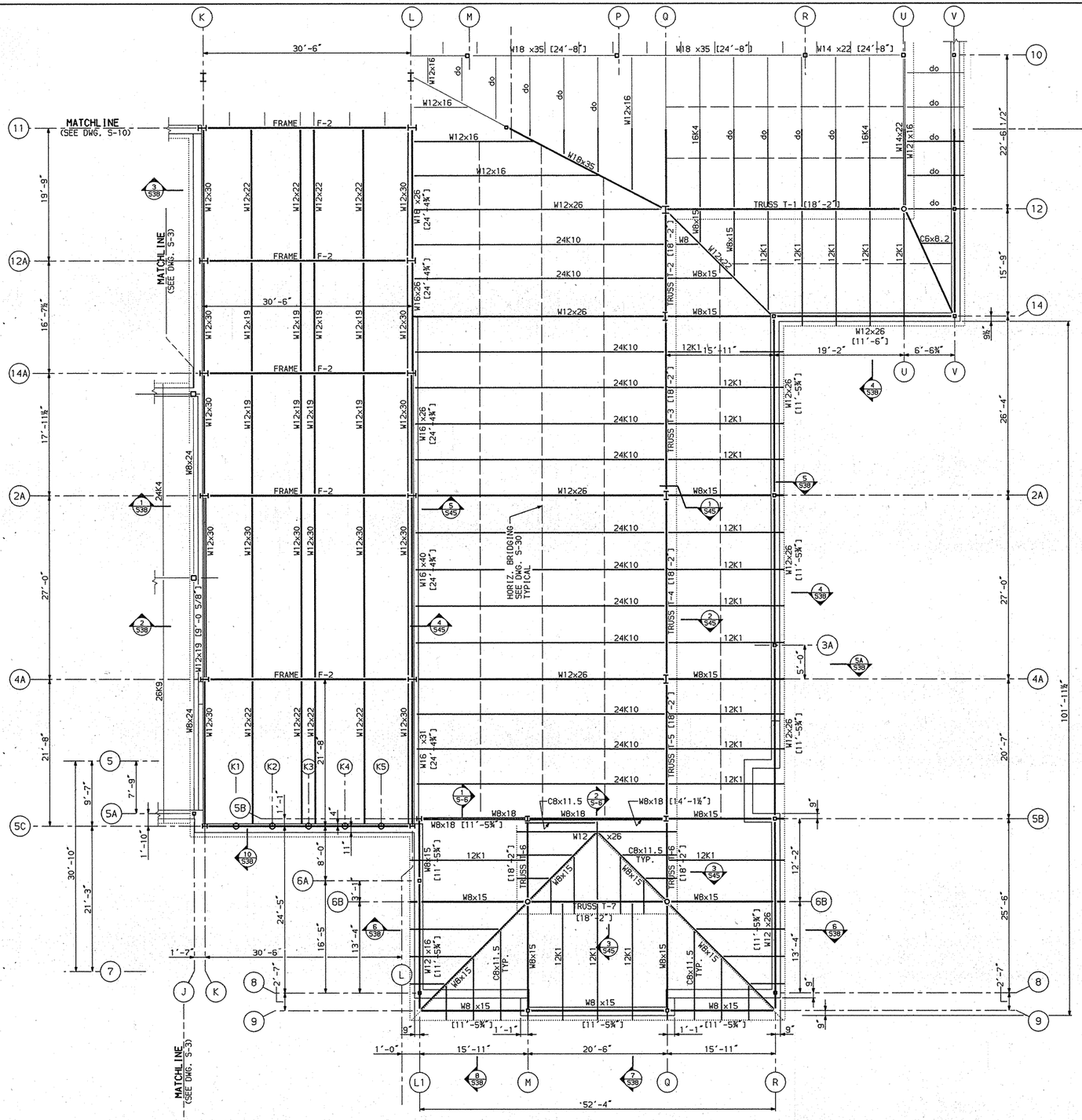
DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	XXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

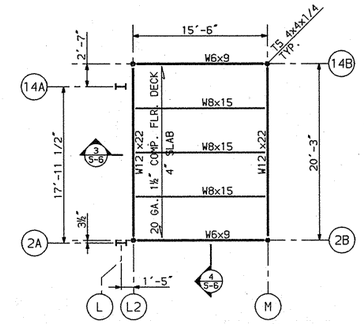
PROJECT NO. 38317-C
DRAWING NO. S-5
PLAN FILE NO. 91/182

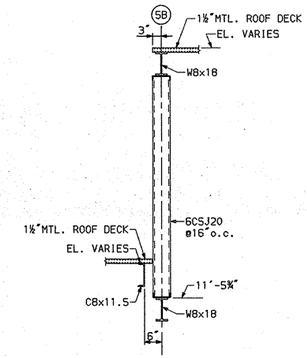
JOHN.NOGAISE 27 NOV 1991 09:41:05 -05[DESIGN-STRU-SS0142.38317



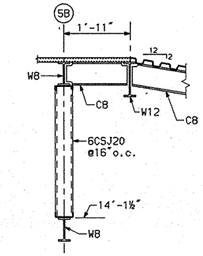
PLAN - MECH. MEZZANINE

SCALE: 1/8" = 1'-0"

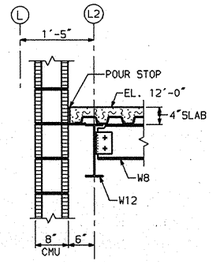




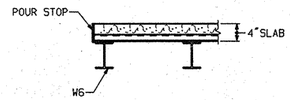
SECTION 1 / S-6



SECTION 2 / S-6



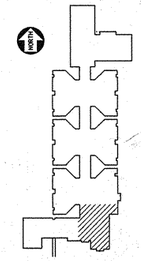
SECTION 3 / S-6



SECTION 4 / S-6

NOTES:

1. SEE DRAWING S-30 FOR TYPICAL STRUCTURAL NOTES, SECTIONS AND DETAILS.



KEY PLAN

ADDENDUM DWG. - 12/30/91
REPLACES DRAWING S-6 DATED 11/27/91

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LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Administration Wing

ROOF FRAMING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

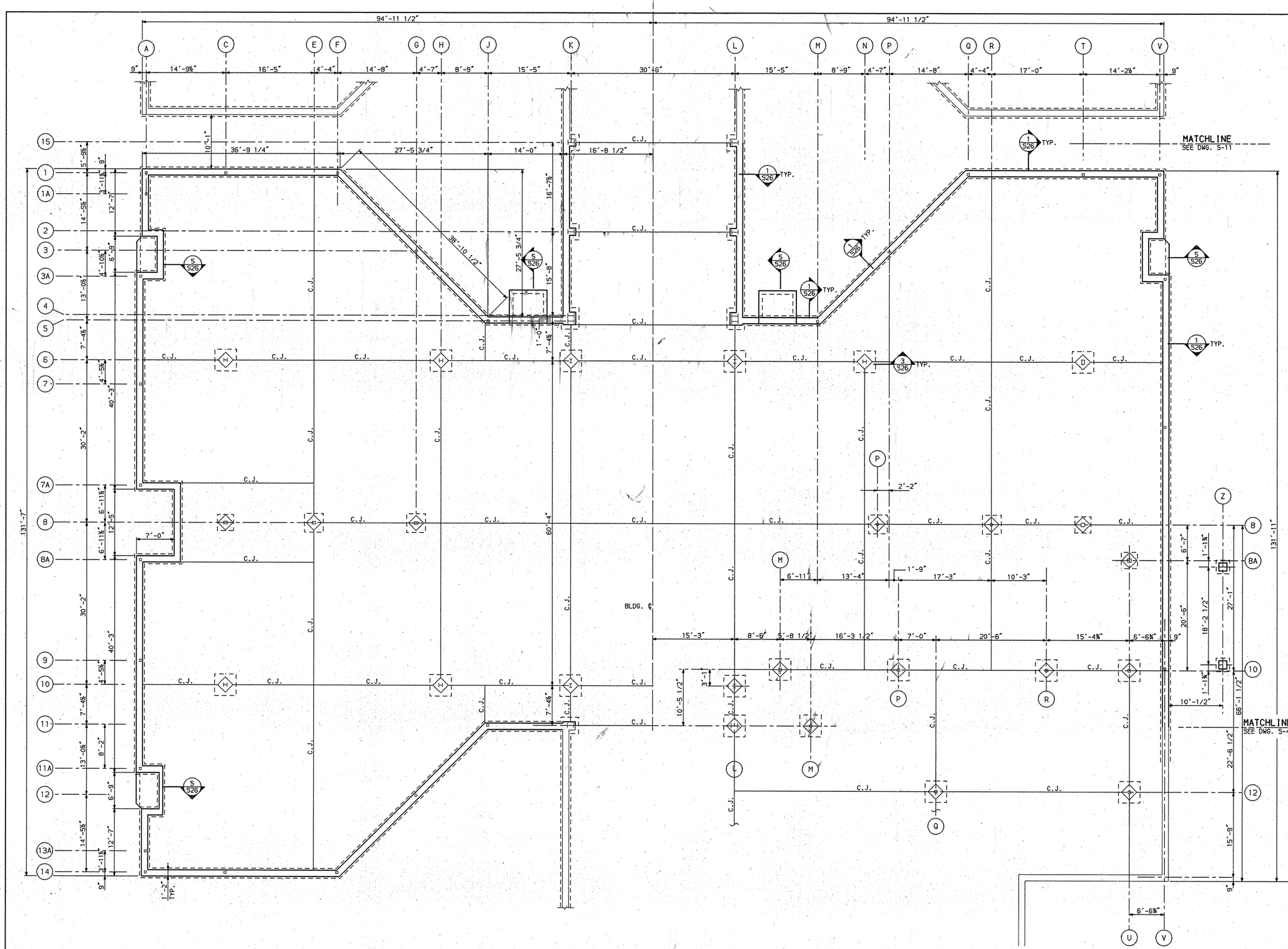
DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

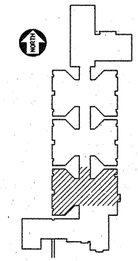
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	S-6
	PLAN FILE NO. 91/183



NOTES

1. SEE DRAWING S-26 FOR TYPICAL FOUNDATION NOTES, SECTIONS AND DETAILS.
2. CONCRETE FLOOR SLAB THICKNESS = 6", UNLESS NOTED OTHERWISE.



KEY PLAN

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (182) & Health Clinic Wing

FOUNDATION PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

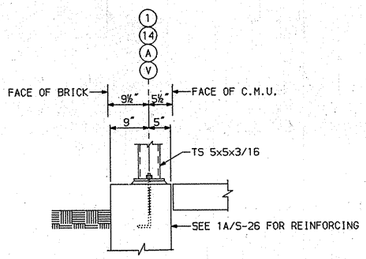
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	S-7
	PLAN FILE NO 91/184

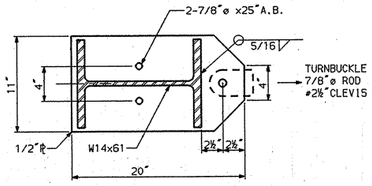
26 NOV 1991 13:27:15 JOHN.MCAUSE <USER24>STRUCT38317-C.38317

PIER AND COLUMN SCHEDULE

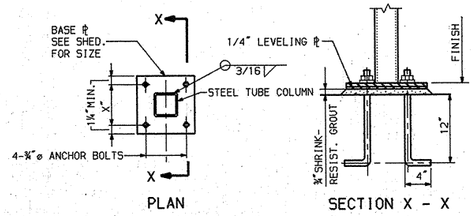
	COLUMNS	A-1 A-14 V-1	A-1A A-13A V-1A	A-3A A-11A V-3A	A-7 A-9 V-7 V-8A V-10	A-7A A-8A	C-8	C-6 C-10 T-6	C-1 C-14 T-1	E-8 R-8	F-1 F-14 Q-1	G-3 G-12 P-3	G-8 P-8	H-6 H-10 N-6	J-5 J-11 M-5	K-6 L-6 K-10 L-10	M-10	M-11	P-10 R-10	T-8	U-8A U-10	K-2 L-2 K-15 L-15	K-4 L-4 K-5 L-5	K-11 L-11	Z-8A Z-10
	MAIN ROOF																								
	32'-6"																								
	24'-7"																								
	23'-2"																								
	22'-6"																								
	21'-9"																								
	16'-0"																								
	13'-6"																								
	11'-6"																								
	10'-2"																								
	MAIN FLOOR 0'-0"	TS 5x5x1/4	TS 5x5x1/4	TS 5x5x1/4	TS 5x5x1/4	TS 5x5x1/4	TS 10x6x1/2	10"DIA. EXTRA STRONG PIPE	TS 5x5x1/4	TS 10x6x1/2	TS 5x5x1/4	TS 5x5x1/4	TS 8x8x3/8	10"DIA. EXTRA STRONG PIPE	TS 5x5x1/4	W10x54	TS 10x6x3/8	TS 7x5x3/8	TS 7x5x3/8	TS 10x6x1/2	TS 5x5x1/4	SEE FRAME F-4 ON DWG. S-32	SEE FRAME F-3 ON DWG. S-32	SEE FRAME F-2 ON DWG. S-31	12"DIA. STD. PIPE
	-(0'-8")																								
	BASE PLATE	9"x6"x1/2"	9"x6"x1/2"	9"x6"x1/2"	9"x6"x1/2"	9"x6"x1/2"	12"x12"x3/4"	14"x14"x1¼"	9"x6"x1/2"	12"x12"x3/4"	9"x6"x1/2"	9"x6"x1/2"	12"x12"x3/4"	14"x14"x1¼"	9"x6"x1/2"	12"x12"x1"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	12"x12"x3/4"	9"x9"x1/2"	11"x20"x1/2"	11"x20"x1/2"	11"x20"x5/8"	14"x14"x1"
PIER	REINFORCING — VERTICALS	FOUNDATION WALL REINFORCING ON DWG. S-26	FOUNDATION WALL REINFORCING ON DWG. S-26	FOUNDATION WALL REINFORCING ON DWG. S-26	FOUNDATION WALL REINFORCING ON DWG. S-26	FOUNDATION WALL REINFORCING ON DWG. S-26	4-#6	4-#6	FOUNDATION WALL REINFORCING ON DWG. S-26	4-#6	FOUNDATION WALL REINFORCING ON DWG. S-26	FOUNDATION WALL REINFORCING ON DWG. S-26	4-#6	4-#6	FOUNDATION WALL REINFORCING ON DWG. S-26	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6
PIER	REINFORCING — STIRRUPS	FOUNDATION WALL REINFORCING ON DWG. S-26	FOUNDATION WALL REINFORCING ON DWG. S-26	FOUNDATION WALL REINFORCING ON DWG. S-26	FOUNDATION WALL REINFORCING ON DWG. S-26	FOUNDATION WALL REINFORCING ON DWG. S-26	#3@12"o.c.	#3@12"o.c.	FOUNDATION WALL REINFORCING ON DWG. S-26	#3@12"o.c.	FOUNDATION WALL REINFORCING ON DWG. S-26	FOUNDATION WALL REINFORCING ON DWG. S-26	#3@12"o.c.	#3@12"o.c.	FOUNDATION WALL REINFORCING ON DWG. S-26	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.
FOOTING	SIZE	CONTINUOUS WALL FTG.	CONTINUOUS WALL FTG.	CONTINUOUS WALL FTG.	CONTINUOUS WALL FTG.	CONTINUOUS WALL FTG.	3'-0"x3'-0"x1'-0"	3'-6"x3'-6"x1'-0"	CONTINUOUS WALL FTG.	3'-6"x3'-6"x1'-0"	CONTINUOUS WALL FTG.	CONTINUOUS WALL FTG.	3'-6"x3'-6"x1'-0"	4'-0"x4'-0"x1'-0"	CONTINUOUS WALL FTG.	5'-0"x5'-0"x1'-0"	4'-0"x4'-0"x1'-0"	3'-6"x3'-6"x1'-0"	3'-6"x3'-6"x1'-0"	4'-6"x3'-6"x1'-0"	3'-0"x3'-0"x1'-0"	3'-0"x3'-0"x1'-0"	3'-0"x3'-0"x1'-0"	3'-0"x3'-0"x1'-0"	2'-6"x2'-6"x1'-0"
FOOTING	REINFORCING	SECTION 1A/S-26	SECTION 1A/S-26	SECTION 1A/S-26	SECTION 1A/S-26	SECTION 1A/S-26	3-#4 E.W.	4-#4 E.W.	SECTION 1A/S-26	4-#4 E.W.	SECTION 1A/S-26	SECTION 1A/S-26	4-#4 E.W.	4-#4 E.W.	SECTION 1A/S-26	5-#4 E.W.	4-#4 E.W.	4-#4 E.W.	4-#4 E.W.	4-#4 E.W.	3-#4 E.W.	3-#4 E.W.	3-#4 E.W.	3-#4 E.W.	3-#4 E.W.
	SIZE A x B	FOUNDATION WALL 1/S-8	FOUNDATION WALL 1/S-8	FOUNDATION WALL 1/S-8	FOUNDATION WALL 1/S-8	FOUNDATION WALL 1/S-8	1'-3"x1'-3"	1'-4"x1'-4"	FOUNDATION WALL 1/S-8	1'-3"x1'-3"	FOUNDATION WALL 1/S-8	FOUNDATION WALL 1/S-8	1'-3"x1'-3"	1'-4"x1'-4"	FOUNDATION WALL 1/S-8	1'-3"x1'-3"	1'-3"x1'-3"	1'-3"x1'-3"	1'-3"x1'-3"	1'-3"x1'-3"	1'-0"x1'-0"	1'-6"x1'-6"	1'-6"x1'-6"	1'-6"x1'-6"	1'-6"x1'-6"
	COLUMNS	A-1 A-14 V-1	A-1A A-13A V-1A	A-3A A-11A V-3A	A-7 A-9 V-7 V-8A V-10	A-7A A-8A	C-8	C-6 C-10 T-6	C-1 C-14 T-1	E-8 R-8	F-1 F-14 Q-1	G-3 G-12 P-3	G-8 P-8	H-6 H-10 N-6	J-5 J-11 M-5	K-6 L-6 K-10 L-10	M-10	M-11	P-10 R-10	T-8	U-8A U-10	K-2 L-2 K-15 L-15	K-4 L-4 K-5 L-5	K-11 L-11	Z-8A Z-10



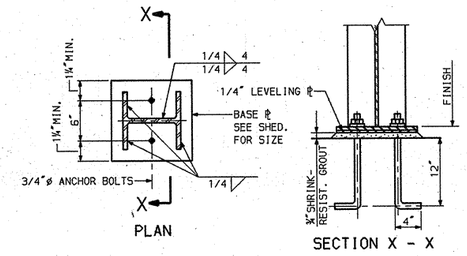
FOUNDATION WALL/COLUMN DETAIL 1 / S-8



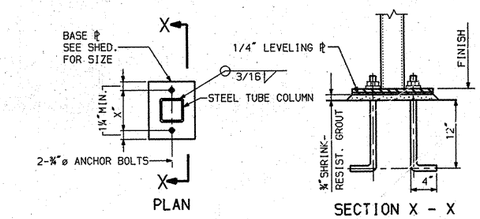
BASE PLATE DETAIL 2 / S-8
SCALE: 1½" = 1'-0"



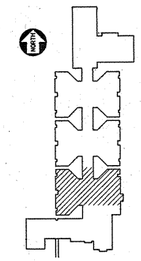
TYPICAL SQUARE BASE PL DETAIL 3 / S-8



TYPICAL BASE PL DETAILS 4 / S-8



TYPICAL 9x6 BASE PL DETAILS 5 / S-8



KEY PLAN

WARNING
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STATE OF NEW YORK JAMES BRZEZINSKI No. 058256 PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (182) & Health Clinic Wing

PIER & COLUMN SCHEDULE AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

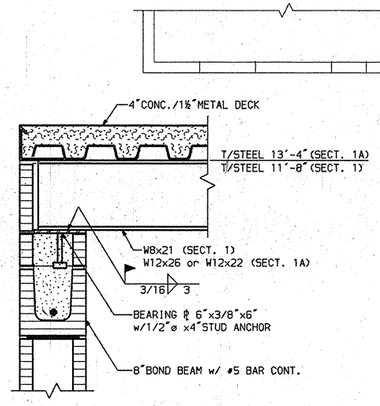
DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

APPROVED BY: DIVISION FOR YOUTH
DATED: NOV. 27, 1991 LETTER NO.: 026344

PROJECT NO. 38317-C
DRAWING NO. S-8
PLAN FILE NO. 91/185

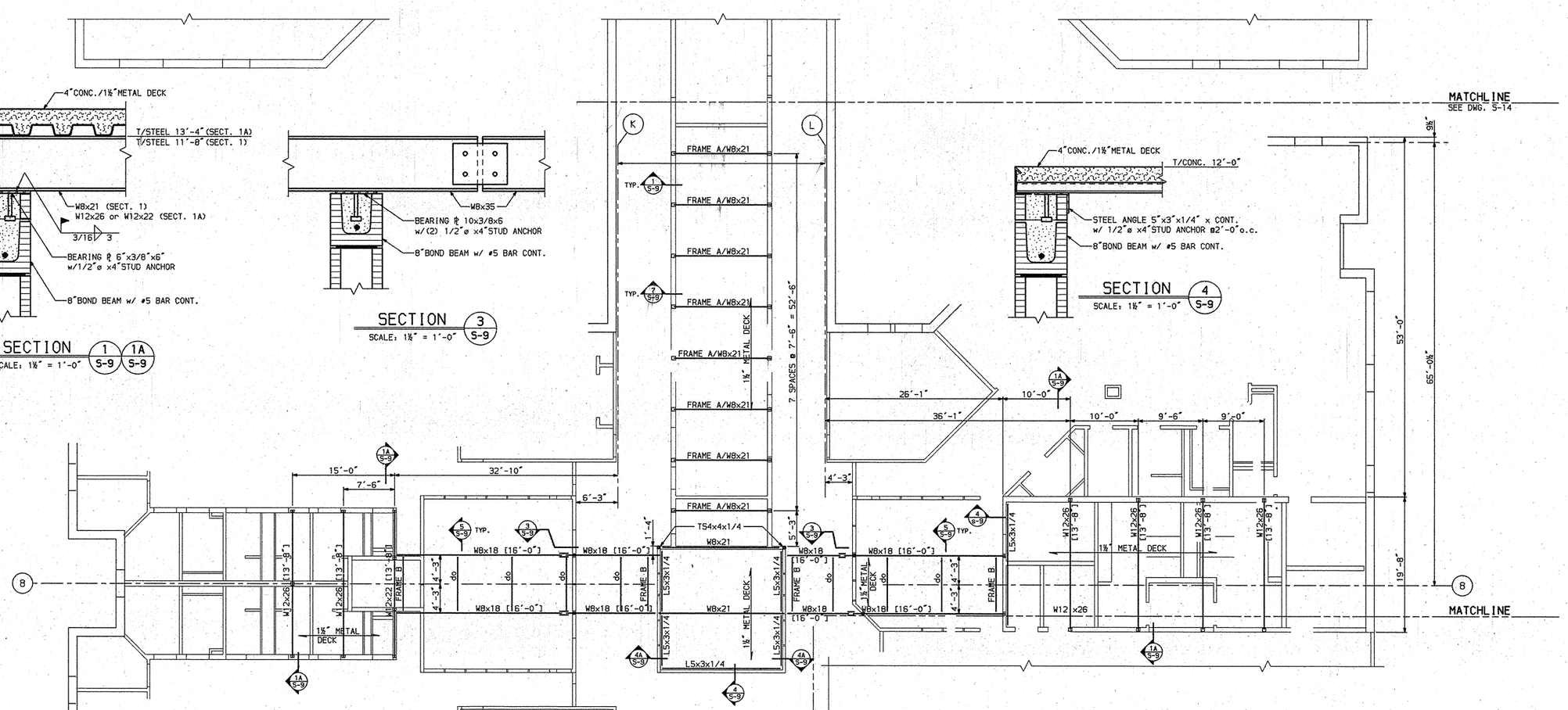
JOHN.NOCAISE 26 NOV 1991 15:34:11 <DGER2A>STRA>SSS1A1.38317

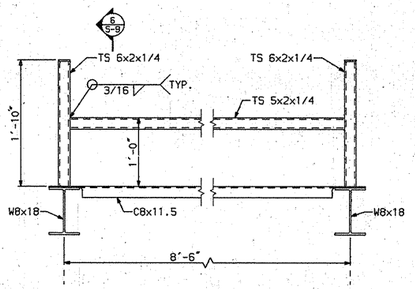


SECTION 1 1A
SCALE: 1½" = 1'-0" S-9 S-9

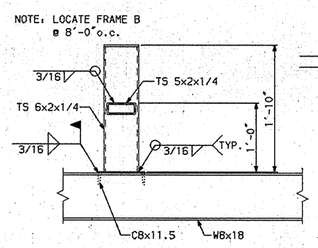
SECTION 3
SCALE: 1½" = 1'-0" S-9

SECTION 4
SCALE: 1½" = 1'-0" S-9

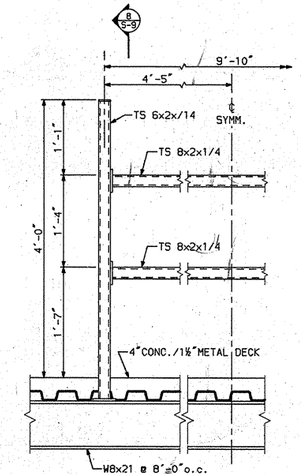




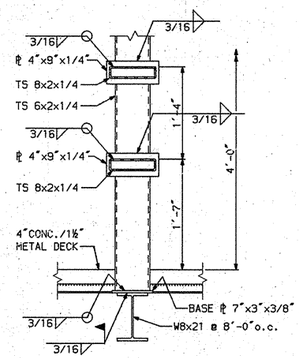
MECHANICAL SUPPORT FRAME B 5
SCALE: 1" = 1'-0" S-9



SECTION 6
SCALE: 1" = 1'-0" S-9



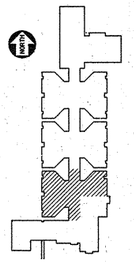
MECHANICAL SUPPORT FRAME A 7
SCALE: 1" = 1'-0" S-9



SECTION 8
SCALE: 1" = 1'-0" S-18

NOTES:

1. TOP OF STEEL 11'-8" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE [ ].



KEY PLAN

STATE OF NEW YORK
JAMES BRZEZINSKI
No. 058256
LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (182) & Health Clinic Wing

MECHANICAL LEVEL FRAMING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER
JOHN F. McGACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	AS NOTED	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

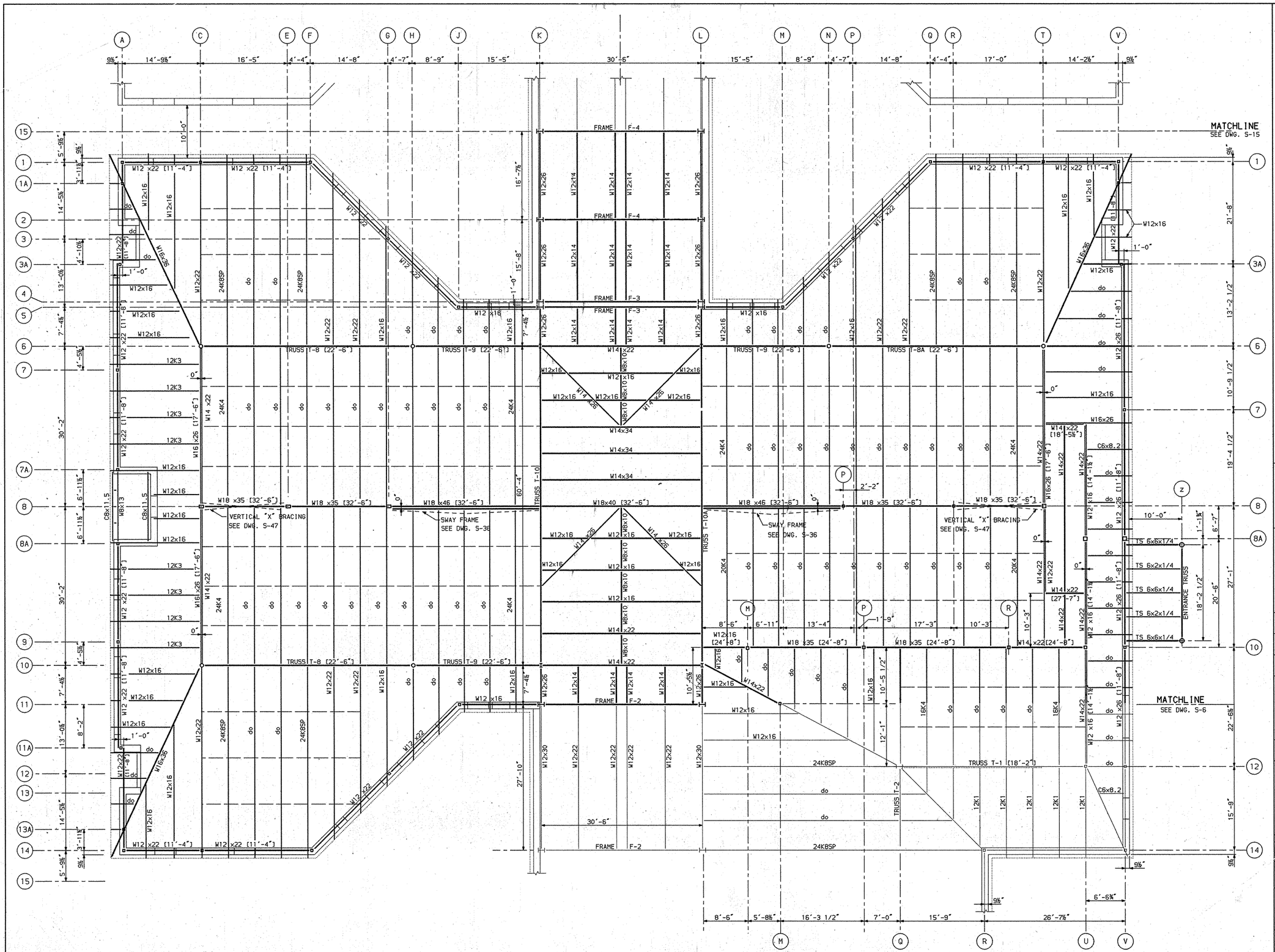
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. S-9

PLAN FILE NO. 91/186

26 NOV 1991 11:49:25 JOHN.MCGACS <USER24>STRU-S9.01+0.DGN



NOTES:

1. SEE DRAWING S-30 FOR TYPICAL STRUCTURAL NOTES, SECTIONS AND DETAILS.

KEY PLAN

WARNING
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STATE OF NEW YORK JAMES BRZEZINSKI No. 058256 LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (182) & Health Clinic Wing

ROOF FRAMING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND V. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

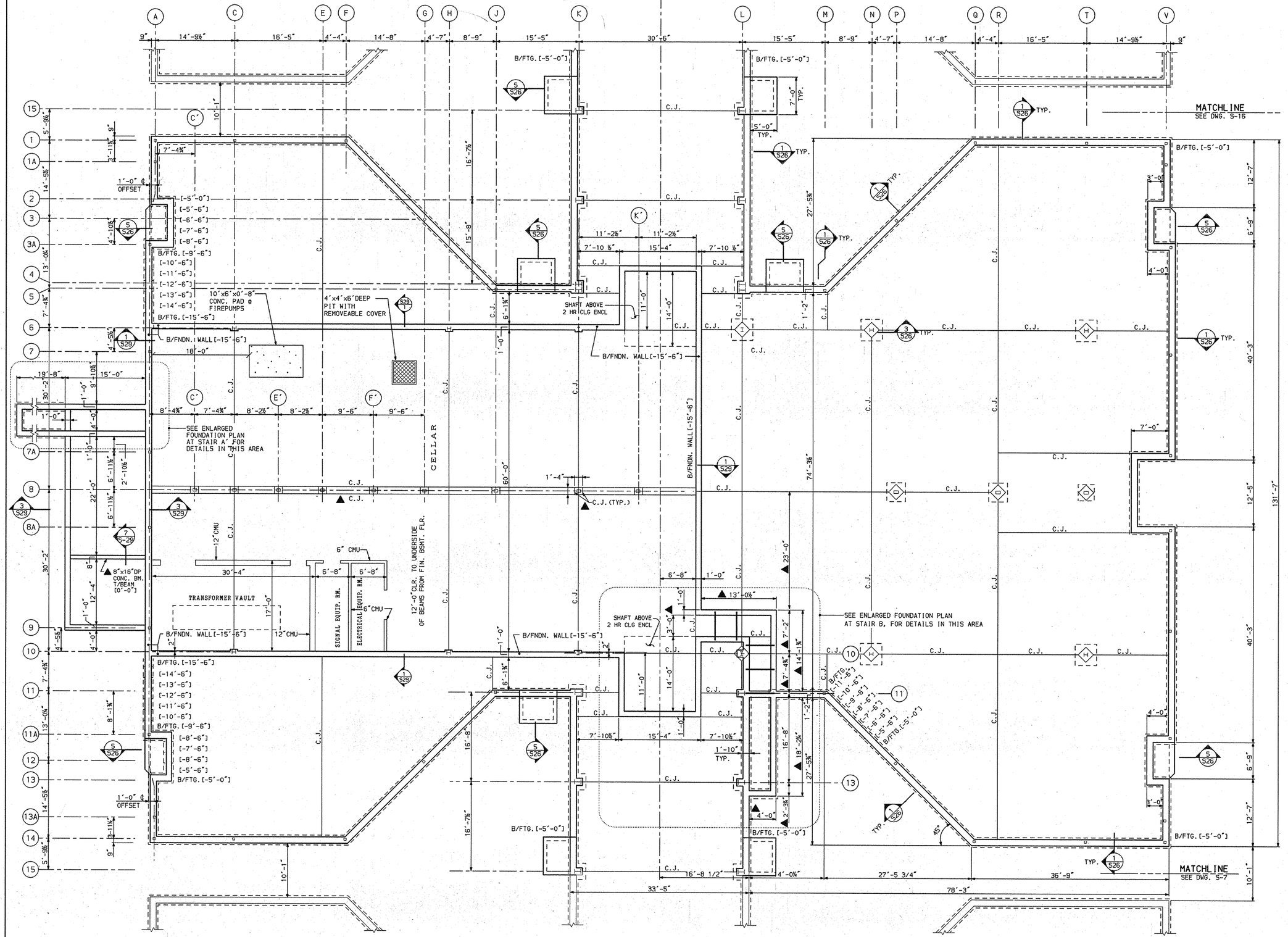
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. S-10

PLAN FILE NO. 91/187

JOHN.MCCAUSE 27 NOV 1991 08:07:35 <USER24>STRUCS\S10.38317



NOTES

1. SEE DRAWING S-26 FOR TYPICAL FOUNDATION NOTES, SECTIONS AND DETAILS
2. CONCRETE FLOOR SLAB THICKNESS = 6", UNLESS NOTED OTHERWISE.
3. DO NOT COMMENCE BACKFILL OF CELLAR FOUNDATION WALLS (AT FNDN. WALLS KEYED INTO ROCK) UNTILL CONCRETE HAS CURED 7 DAYS AND FIRST FLOOR FRAMING IS IN PLACE AND FIRST FLOOR COMPOSITE SLAB HAS CURED FOR 7 DAYS.
4. DO NOT COMMENCE BACKFILL OF AREAWAY FOUNDATION WALL UNTILL CONCRETE HAS CURED 7 DAYS AND 8"x16" CONCRETE BEAM (SEE DETAIL 7/S-29) HAS CURED 7 DAYS AND ALL REQUIREMENTS OF NOTE 3 ARE MET.
5. ALLOWABLE ROCK BEARING PRESSURE: 5 TONS PER SQUARE FOOT.
6. SEE DRAWING NO.S-B.3 FOR CELLAR EXCAVATION AND DRAINAGE PLAN.
7. ▲ - INDICATES CHANGES FROM ORIGINAL DRAWING ISSUED 11/27/91.

KEY PLAN

ADDENDUM DWG. - 12/30/91
REPLACES DWG. No. S-11

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

STATE OF NEW YORK JAMES BRZEZINSKI No. 058256 REGISTERED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (3,4,5,& 6) Wing

FOUNDATION PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	DEC. 30, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

APPROVED BY DIVISION FOR YOUTH

DATED NOV. 27, 1991 LETTER NO. 026344

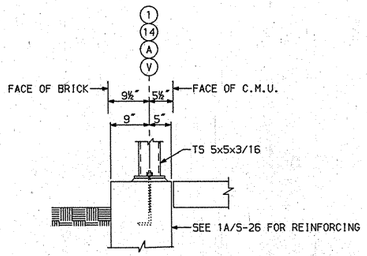
PROJECT NO.	DRAWING NO.
38317-C	S-11
	PLAN FILE NO. 91/188

BOB.MCKINTY 30 DEC 1991 14:15:08 <USER2>S-STRUCTURAL\38317.DGN

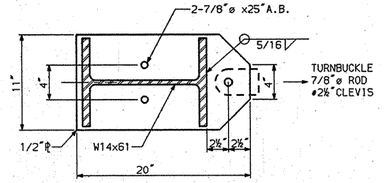
PIER AND COLUMN SCHEDULE

COLUMNS	A-1 A-14 V-1 V-14	A-1A A-13A V-1A V-13A	A-3A A-11A V-3A V-11A	A-7 A-9 V-7 V-9	A-7A A-8A V-7A V-8A	C-8	C-6 C-10 T-6 T-10	C'-8 E'-8 F'-8	C-1 C-14 T-1 T-14	E-8	F-1 F-14 Q-1 Q-14	G-3 G-12 P-3 P-12	G-8	H-6 H-10 N-6 N-10	J-5 J-11 M-5 M-11	J-8 K-8 K'-8	K-6 K-11 L-6 L-11	P-8	R-8	T-8	K-2 L-2 K-13 L-13 K-15 L-15	K-4 L-4 K-5 L-5 K-11 L-11
MAIN ROOF																						
32'-6"	TS 5x5x1/4	TS 5x5x1/4	TS 5x5x1/4	TS 5x5x1/4	TS 5x5x1/4	TS 10x6x1/2	10"DIA. EXTRA STRONG PIPE		TS 5x5x1/4	TS 10x6x1/2	TS 5x5x1/4	TS 5x5x1/4	TS 8x8x3/8	10"DIA. EXTRA STRONG PIPE	TS 5x5x1/4	W10x54	TS 8x8x3/8	TS 10x6x1/2	TS 10x6x1/2	SEE FRAME F-4 ON DWG. S-32	SEE FRAME F-3 ON DWG. S-32
22'-6"																					
16'-0"																					
13'-6"																					
11'-6"																					
10'-2"																					
MAIN FLOOR 0'-0"																					
-(0'-8")								TS 8x6x1/4								TS 8x6x1/4					
-(13'-9")																					

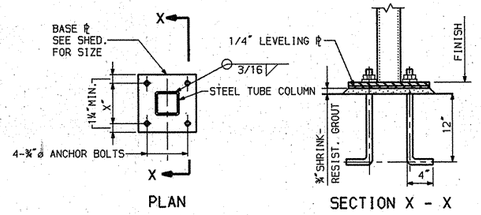
PIER — REINFORCING	FOOTING — SIZE	FOOTING — REINFORCING	BASE PLATE (LAST DIMENSION PERPENDICULAR TO FLANGE)
VERTICALS: FOUNDATION WALL REINFORCING ON 1A/S-26	CONTINUOUS WALL FTG.	SECTION 1A/S-26	9"x6"x1/2"
VERTICALS: FOUNDATION WALL REINFORCING ON 1A/S-26	CONTINUOUS WALL FTG.	SECTION 1A/S-26	9"x6"x1/2"
VERTICALS: FOUNDATION WALL REINFORCING ON 1A/S-26	CONTINUOUS WALL FTG.	SECTION 1A/S-26	9"x6"x1/2"
VERTICALS: FOUNDATION WALL REINFORCING ON 1A/S-26	CONTINUOUS WALL FTG.	SECTION 1A/S-26	9"x6"x1/2"
VERTICALS: FOUNDATION WALL REINFORCING ON 1A/S-26	CONTINUOUS WALL FTG.	SECTION 1A/S-26	9"x6"x1/2"
VERTICALS: 4-#6	NO FOOTING	——	12"x12"x1"
VERTICALS: 4-#6	3'-6"x3'-6"x1'-0"	4-#4 E.W.	14"x14"x1¼"
VERTICALS: 4-#6	NO FOOTING	——	12"x12"x1"
VERTICALS: FOUNDATION WALL REINFORCING			
VERTICALS: 4-#6	NO FOOTING	——	12"x12"x1"
VERTICALS: FOUNDATION WALL REINFORCING ON 1A/S-26	CONTINUOUS WALL FTG.	SECTION 1A/S-26	9"x6"x1/2"
VERTICALS: FOUNDATION WALL REINFORCING ON 1A/S-26	CONTINUOUS WALL FTG.	SECTION 1A/S-26	9"x6"x1/2"
VERTICALS: 4-#6	NO FOOTING	——	12"x12"x1"
VERTICALS: 4-#6	4'-0"x4'-0"x1'-0"	4-#4 E.W.	14"x14"x1¼"
VERTICALS: FOUNDATION WALL REINFORCING ON 1A/S-26	CONTINUOUS WALL FTG.	SECTION 1A/S-26	9"x6"x1/2"
VERTICALS: 4-#6	NO FOOTING	——	12"x12"x1"
STIRRUPS: #3@12" o.c.	SIZE A x B: FOUNDATION WALL 1/S-12		12"x12"x1"
STIRRUPS: #3@12" o.c.	SIZE A x B: FOUNDATION WALL 1/S-12		12"x12"x3/4"
STIRRUPS: #3@12" o.c.	SIZE A x B: FOUNDATION WALL 1/S-12		12"x12"x3/4"
STIRRUPS: #3@12" o.c.	SIZE A x B: FOUNDATION WALL 1/S-12		12"x12"x3/4"
STIRRUPS: #3@12" o.c.	SIZE A x B: FOUNDATION WALL 1/S-12		11"x20"x1/2"
STIRRUPS: #3@12" o.c.	SIZE A x B: FOUNDATION WALL 1/S-12		11"x20"x1/2"



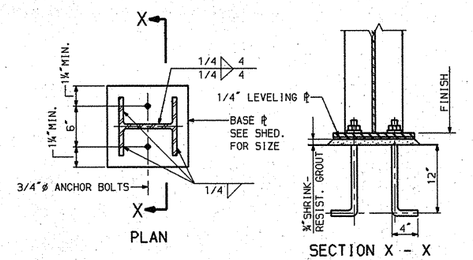
FOUNDATION WALL/COLUMN DETAIL 1 / S-12



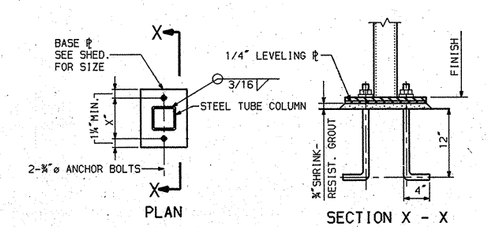
BASE PLATE DETAIL 2 / S-12
SCALE: 1½" = 1'-0"



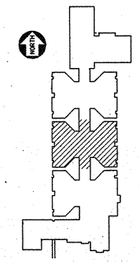
TYPICAL SQUARE BASE ℄ DETAIL 3 / S-12



TYPICAL BASE ℄ DETAILS 4 / S-12



TYPICAL 9"x6" BASE ℄ DETAILS 5 / S-12



KEY PLAN

WARNING
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STATE OF NEW YORK JAMES BRZEZINSKI LICENSED PROFESSIONAL ENGINEER No. 058858

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (3,4,5,& 6) Wing

PIER & COLUMN SCHEDULE AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	XXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

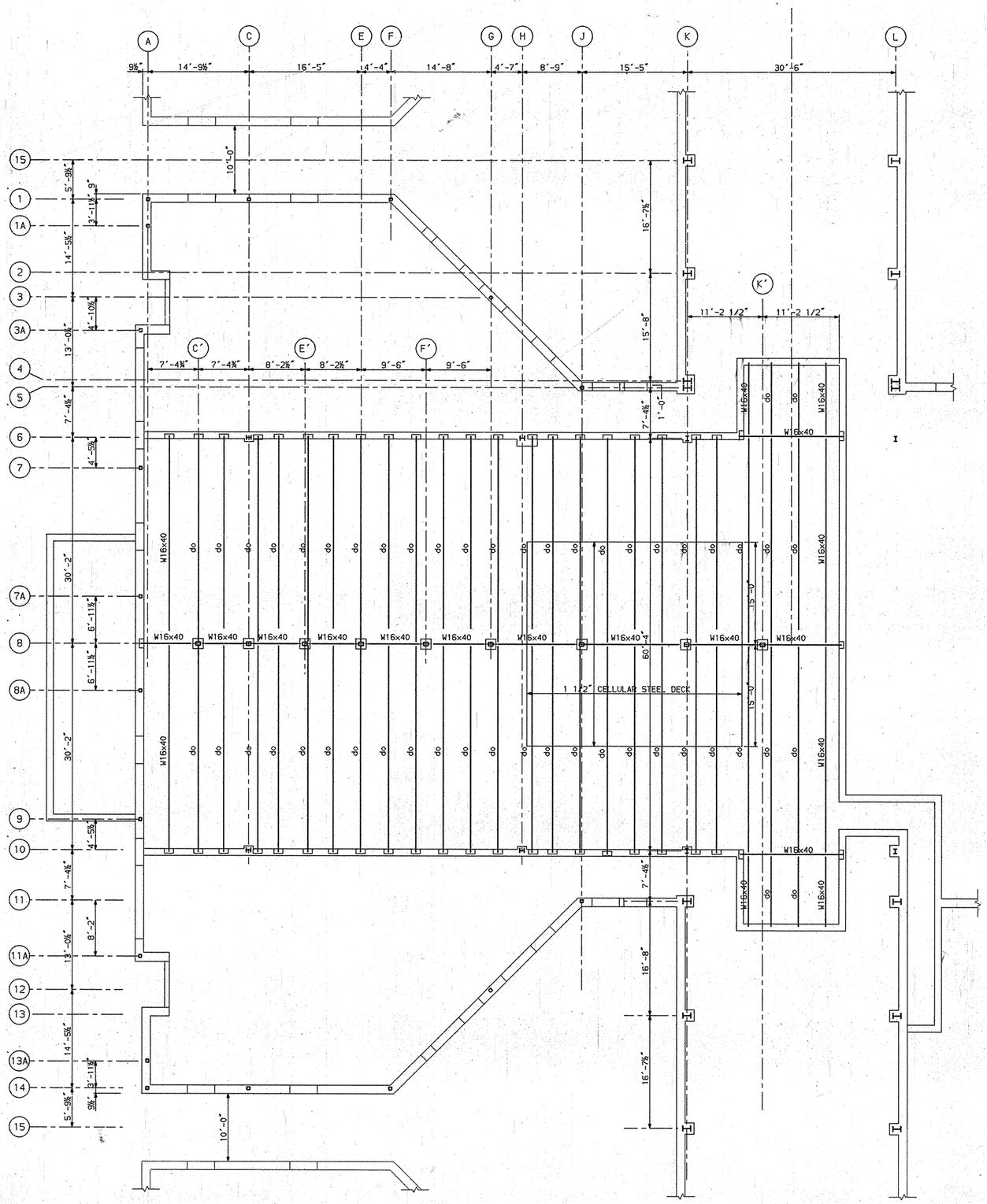
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. S-12

PLAN FILE NO. 91/189

26 NOV 1991 11:47:29 JOHN.RICOSSE



NOTES

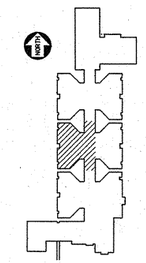
1. CELLULAR STEEL DECK PROPERTIES

UNIT DEPTH	= 1 1/2"
GAUGE TOP/GAUGE/BOTTOM	= 20/20
FLUTE SPACING	= 6"
SECT. POS. - TOP	= 0.301 IN.³
SECT. POS. - BOTT.	= 0.712 IN.³
SECT. NEG. - TOP	= 3.940 IN.³
SECT. NEG. BOTT.	= 0.403 IN.³
MOMENT OF INERTIA	= 0.357 IN.⁴

2. COMPOSITE METAL FLOOR DECK PROPERTITES

UNIT DEPTH	= 1 1/2"
GAUGE	= 20
FLUTE SPACING	= 6"
SECT. POS.	= 0.252 IN.³
SECT. NEG.	= 0.265 IN ³
MOMENT OF INERTIA	= 0.213 IN.⁴

3. COORDINATE FLOOR SLAB OPENING SIZES AND LOCATIONS WITH MECHANICAL CONTRACTOR



KEY PLAN

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STATE OF NEW YORK JAMES BRZEZINSKI No. 026356 LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (3,4,5,& 6) Wing

FIRST FLOOR FRAMING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. MUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY: DIVISION FOR YOUTH

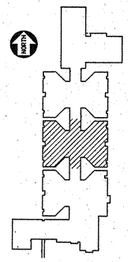
DATED: NOV. 27, 1991 LETTER NO.: 026344

PROJECT NO.	DRAWING NO.
38317-C	S-13
	PLAN FILE NO. 91/190

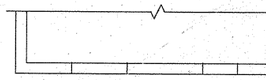
BOB.MCKINTY 27 NOV 1991 10:11:35 =USER2A=STRU=S5S1=U_38317

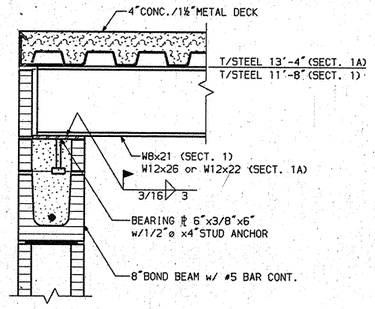
NOTES:

1. TOP OF STEEL 11'-8" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE [ ].

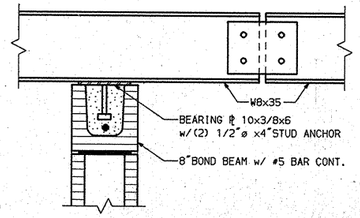


KEY PLAN

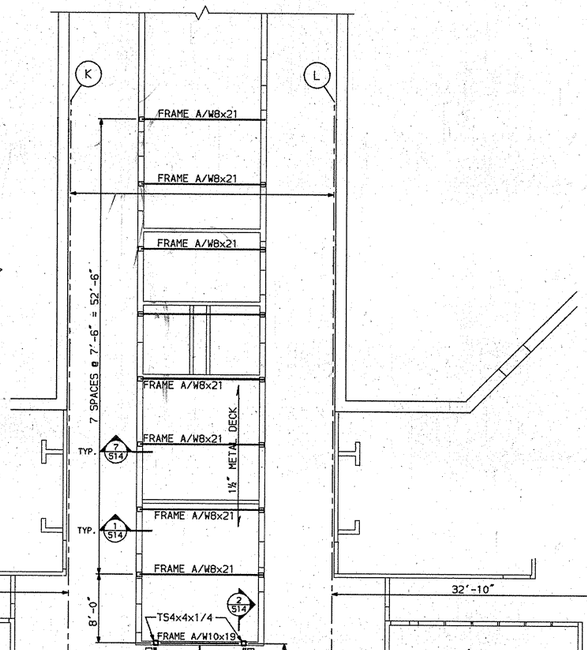


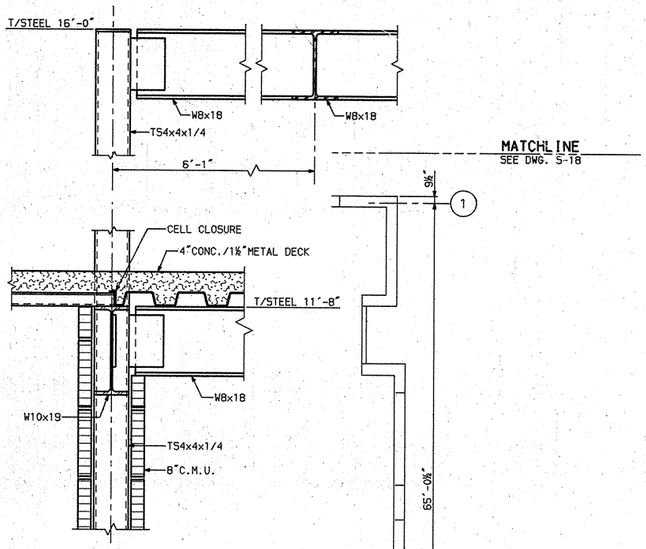


SECTION 1 1A
SCALE: 1½" = 1'-0" S-14 S-14

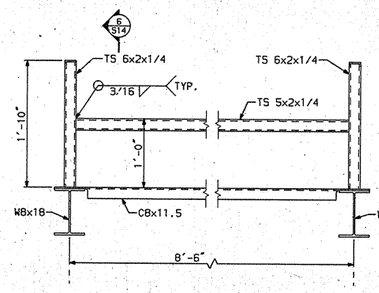


SECTION 3
SCALE: 1½" = 1'-0" S-14

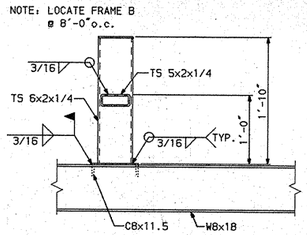




SECTION 2
SCALE: 1½" = 1'-0" S-14

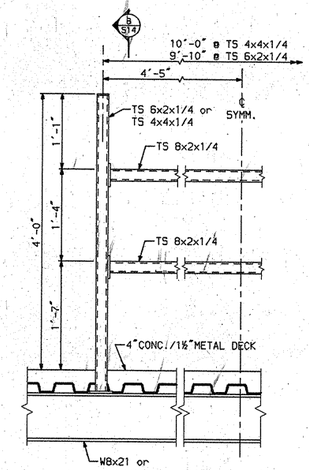


MECHANICAL SUPPORT FRAME B 5 S-14
SCALE: 1" = 1'-0"

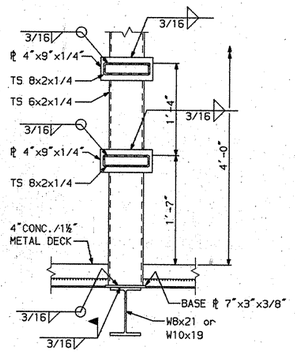


SECTION 6
SCALE: 1" = 1'-0" S-14

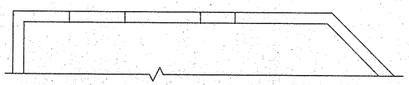
MATCHLINE
SEE DWG. S-9



MECHANICAL SUPPORT FRAME A 7 S-14
SCALE: 1" = 1'-0"



SECTION 8
SCALE: 1" = 1'-0" S-14



STATE OF NEW YORK
JAMES BRZEZINSKI
No. 058256
LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (3,4,5,& 6) Wing

MECHANICAL LEVEL FRAMING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	AS NOTED	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

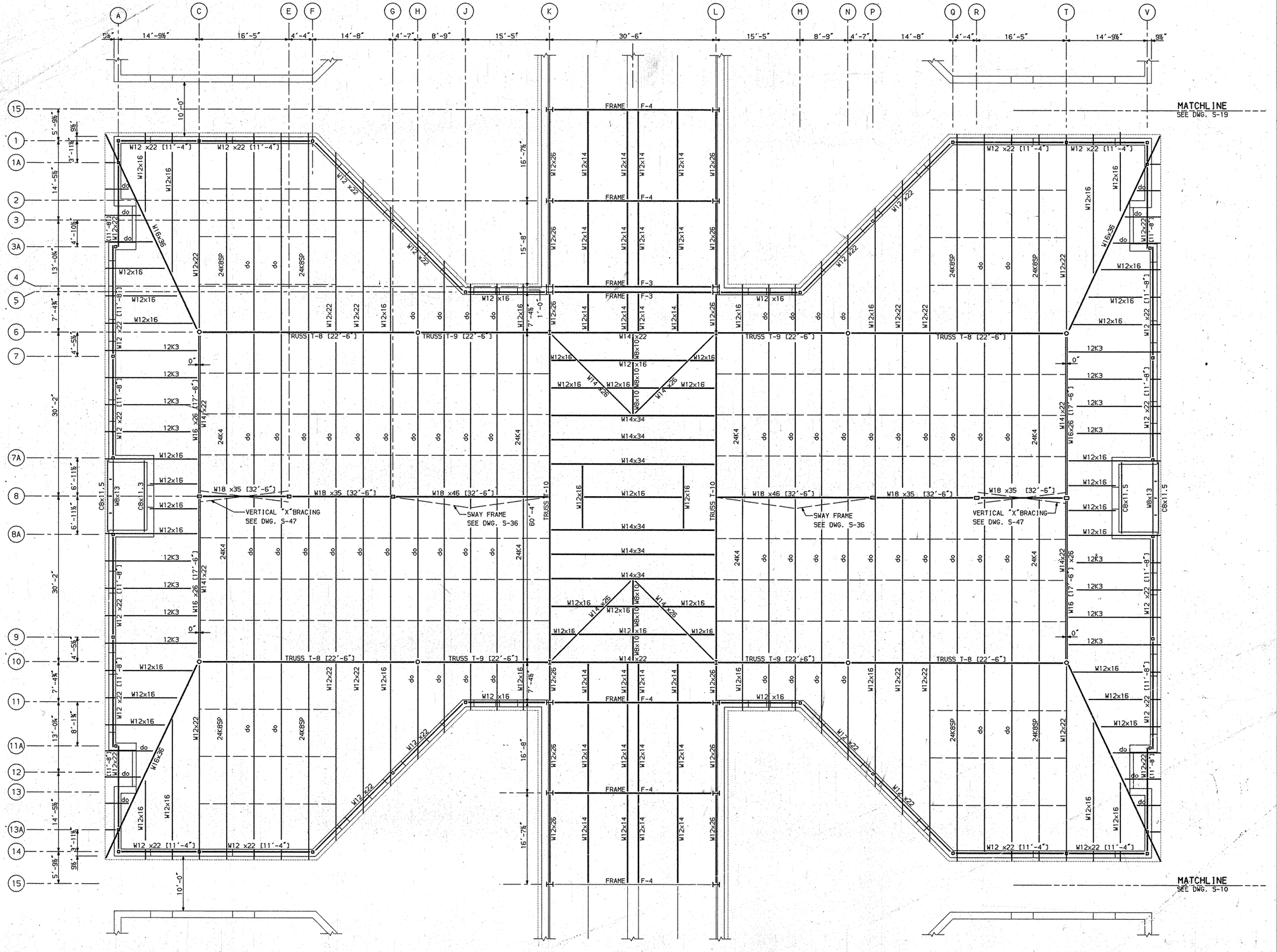
APPROVED BY DIVISION FOR YOUTH

DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

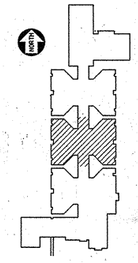
DRAWING NO. S-14

PLAN FILE NO. 91/191



NOTES:

1. SEE DRAWING S-30 FOR TYPICAL STRUCTURAL NOTES, SECTIONS AND DETAILS.



KEY PLAN

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STATE OF NEW YORK
JAMES BRZEZINSKI
No. 058766
LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (3,4,5,& 6) Wing

ROOF FRAMING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

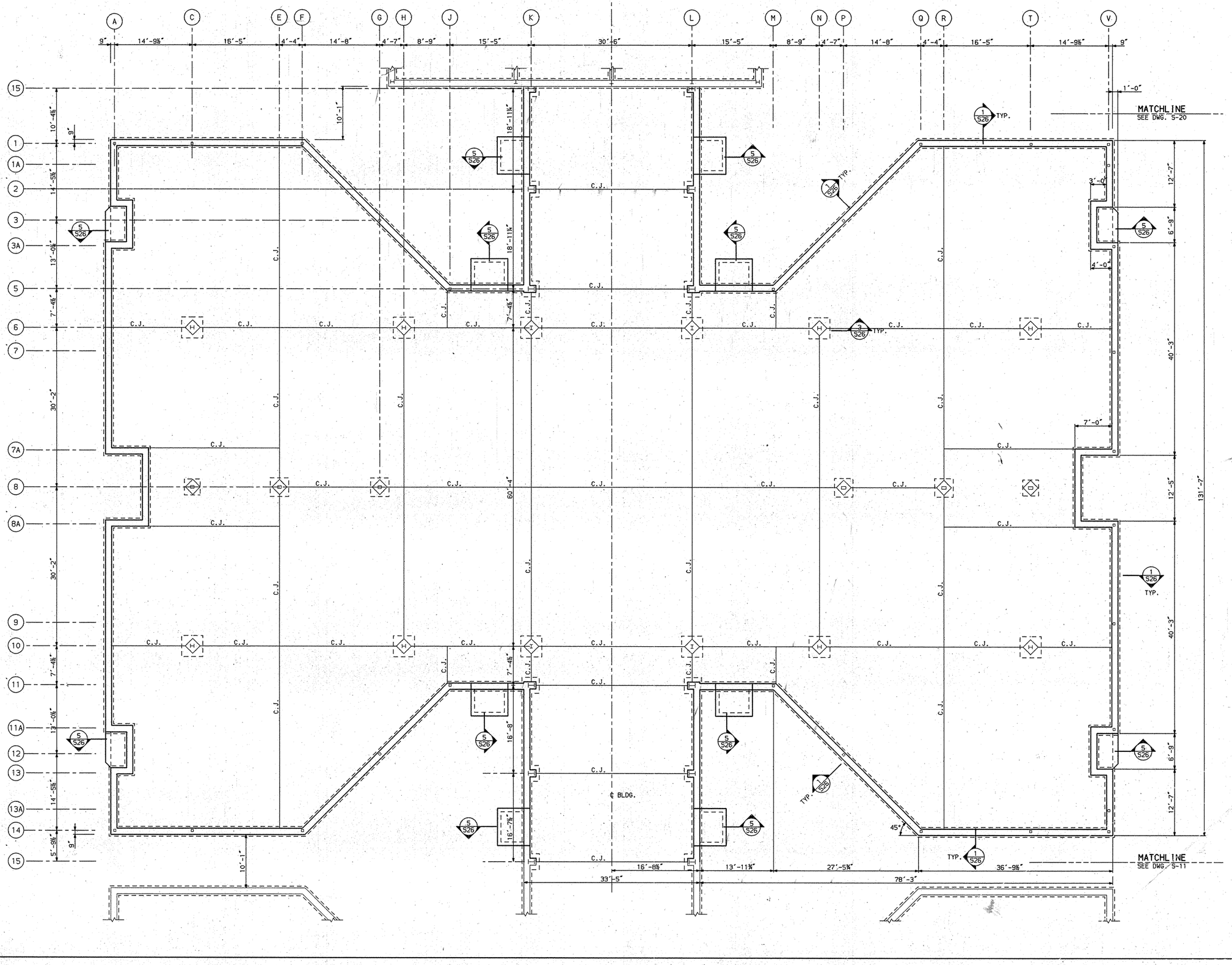
APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. S-15

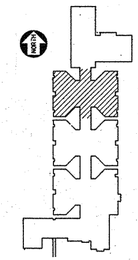
PLAN FILE NO. 91/192

JOHN_HUGHES 27 NOV 1991 08:16:12 <DESIGN/STRUCTURAL/38317



NOTES:

1. SEE DRAWING S-26 FOR TYPICAL FOUNDATION NOTES, SECTIONS AND DETAILS.
2. CONCRETE FLOOR SLAB THICKNESS = 6", UNLESS NOTED OTHERWISE.



KEY PLAN

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STATE OF NEW YORK JAMES BRZEZINSKI No. 056258 LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (7,8,9,& 10) Wing

FOUNDATION PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

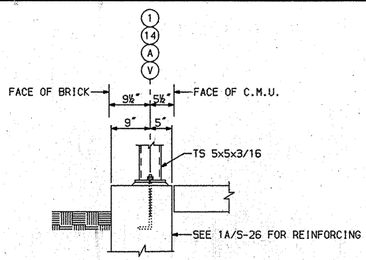
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	S-16
	PLAN FILE NO. 91/193

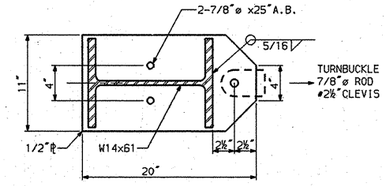
26 NOV 1991 13:37:19 JOHN.MCCAUSE

PIER AND COLUMN SCHEDULE

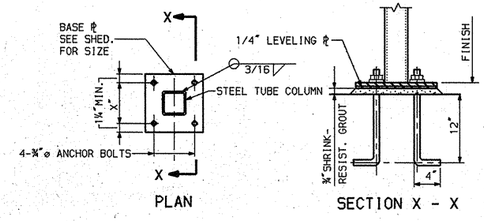
COLUMNS	A-1 A-14 V-1 V-14	A-1A A-13A V-1A V-13A	A-7 A-9 V-7 V-9	A-7A A-8A V-7A V-8A	C-1 C-14 T-1 T-14	C-6 C-10 T-6 T-10	C-8 T-8	E-8 R-8	F-1 F-14 Q-1 Q-14	G-3 G-12 P-3 P-12	G-8 P-8	H-6 H-10 N-6 N-10	J-5 J-11 M-5 M-11	K-6 K-10 L-6 L-10	K-15 L-15 K-2 L-2	K-5 L-5	K-11 L-11 K-13 L-13
MAIN ROOF																	
32'-6"																	
22'-6"																	
16'-0"																	
13'-6"																	
11'-6"																	
10'-2"																	
MAIN FLOOR 0'-0"	TS 5x5x1/4	TS 5x5x1/4	TS 5x5x1/4	TS 5x5x1/4	TS 5x5x1/4	10"DIA. EXTRA STRONG PIPE	TS 10x6x1/2	TS 10x6x1/2	TS 5x5x1/4	TS 5x5x1/4	TS 8x8x3/8	10"DIA. EXTRA STRONG PIPE	TS 5x5x1/4	W10x54	SEE FRAME F-4 ON DWG. S-32	SEE FRAME F-4 ON DWG. S-32	SEE FRAME F-4 ON DWG. S-32
-(0'-8")																	
BASE PLATE (LAST DIMENSION PERPENDICULAR TO FLANGE)	9"x6"x1/2"	9"x6"x1/2"	9"x6"x1/2"	9"x6"x1/2"	9"x6"x1/2"	14"x14"x1¼"	12"x12"x3/4"	12"x12"x3/4"	9"x6"x1/2"	9"x6"x1/2"	12"x12"x3/4"	14"x14"x1¼"	9"x6"x1/2"	12"x12"x1"	11"x20"x1/2"	11"x20"x1/2"	11"x20"x1/2"
PIER — REINFORCING — VERTICALS	FOUNDATION WALL REINFORCING ON 1A/S-26	FOUNDATION WALL REINFORCING ON 1A/S-26	FOUNDATION WALL REINFORCING ON 1A/S-26	FOUNDATION WALL REINFORCING ON 1A/S-26	FOUNDATION WALL REINFORCING ON 1A/S-26	4-#6	4-#6	4-#6	FOUNDATION WALL REINFORCING ON 1A/S-26	FOUNDATION WALL REINFORCING ON 1A/S-26	4-#6	4-#6	FOUNDATION WALL REINFORCING ON 1A/S-26	4-#6	4-#6	4-#6	4-#6
PIER — REINFORCING — STIRRUPS	FOUNDATION WALL REINFORCING ON 1A/S-26	FOUNDATION WALL REINFORCING ON 1A/S-26	FOUNDATION WALL REINFORCING ON 1A/S-26	FOUNDATION WALL REINFORCING ON 1A/S-26	FOUNDATION WALL REINFORCING ON 1A/S-26	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	FOUNDATION WALL REINFORCING ON 1A/S-26	FOUNDATION WALL REINFORCING ON 1A/S-26	#3@12"o.c.	#3@12"o.c.	FOUNDATION WALL REINFORCING ON 1A/S-26	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.
FOOTING — SIZE	CONTINUOUS WALL FTG.	CONTINUOUS WALL FTG.	CONTINUOUS WALL FTG.	CONTINUOUS WALL FTG.	CONTINUOUS WALL FTG.	3'-6"x3'-6"x1'-0"	3'-0"x3'-0"x1'-0"	3'-6"x3'-6"x1'-0"	CONTINUOUS WALL FTG.	CONTINUOUS WALL FTG.	3'-6"x3'-6"x1'-0"	4'-0"x4'-0"x1'-0"	CONTINUOUS WALL FTG.	5'-0"x5'-0"x1'-0"	3'-0"x3'-0"x1'-0"	3'-0"x3'-0"x1'-0"	3'-0"x3'-0"x1'-0"
FOOTING — REINFORCING	SECTION 1A/S-26	SECTION 1A/S-26	SECTION 1A/S-26	SECTION 1A/S-26	SECTION 1A/S-26	4-#4 E.W.	3-#4 E.W.	4-#4 E.W.	SECTION 1A/S-26	SECTION 1A/S-26	4-#4 E.W.	4-#4 E.W.	SECTION 1A/S-26	5-#4 E.W.	3-#4 E.W.	3-#4 E.W.	3-#4 E.W.



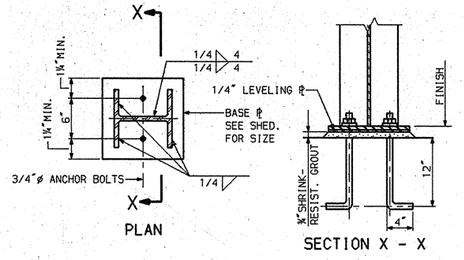
FOUNDATION WALL/COLUMN DETAIL 1 / S-17



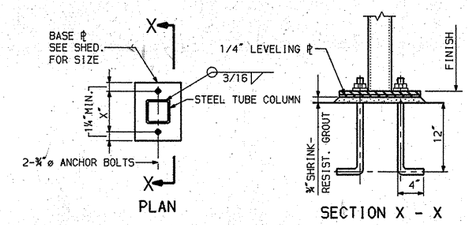
BASE PLATE DETAIL 2 / S-17
SCALE: 1½" = 1'-0"



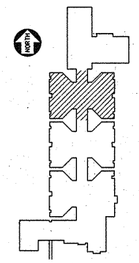
TYPICAL SQUARE BASE PL DETAIL 3 / S-17



TYPICAL BASE PL DETAILS 4 / S-17



TYPICAL 9x6 BASE PL DETAILS 5 / S-17



KEY PLAN

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STATE OF NEW YORK JAMES BRZEZINSKI No. 058938 LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing units (7,8,9,& 10) Wing

PIER & COLUMN SCHEDULE AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	XXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

APPROVED BY DIVISION FOR YOUTH

DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

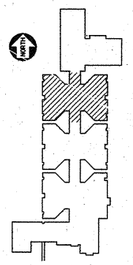
DRAWING NO. S-17

PLAN FILE NO. 91/194

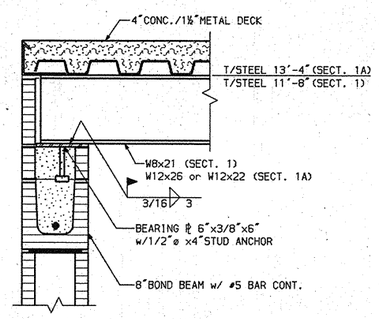
25 NOV 1991 11:47:34 JOHN.MCCABE \\SDC2\A\STRA-350\ltr\S_26317

NOTES:

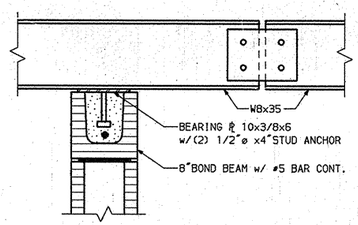
1. TOP OF STEEL 11'-8" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE [ ].



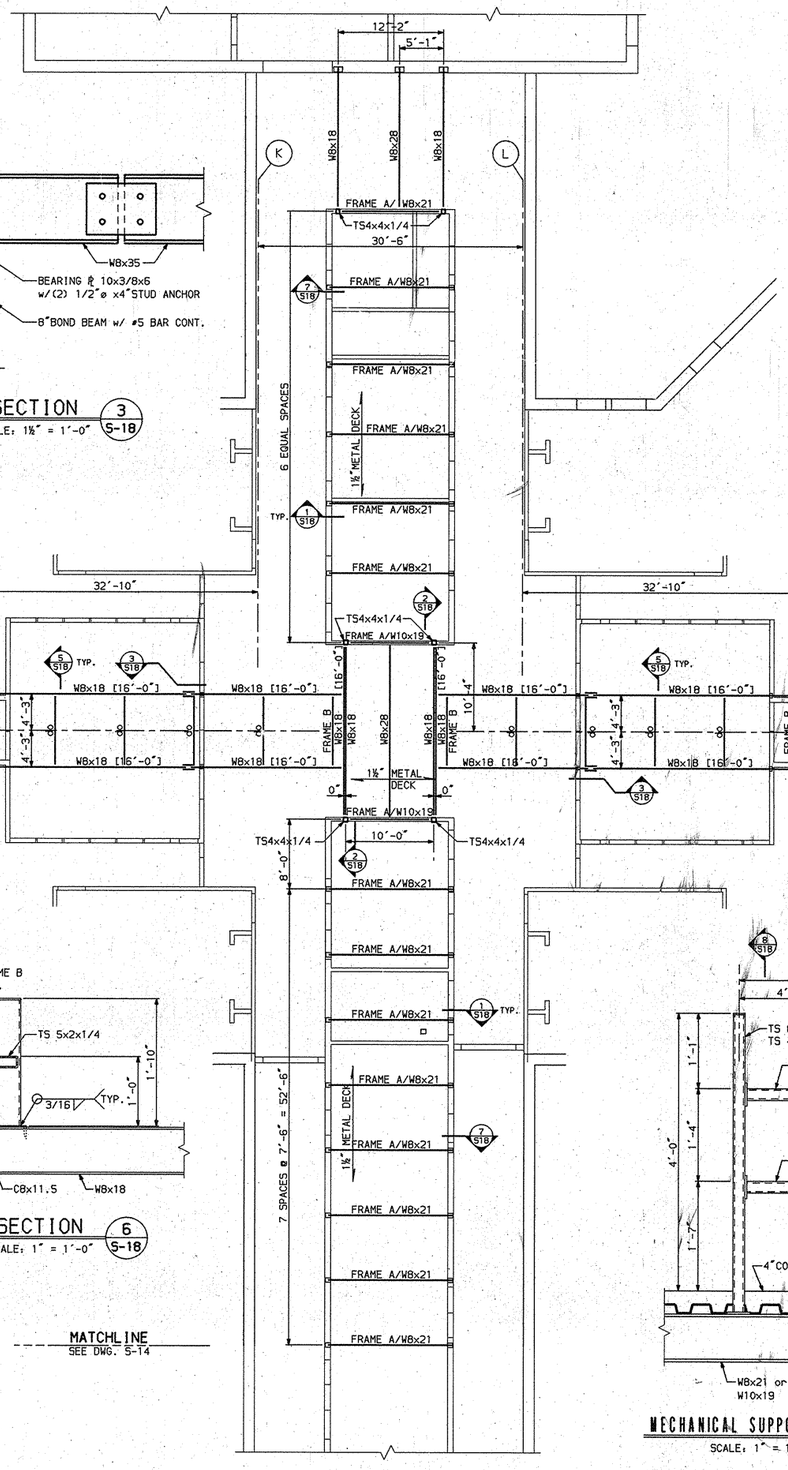
KEY PLAN

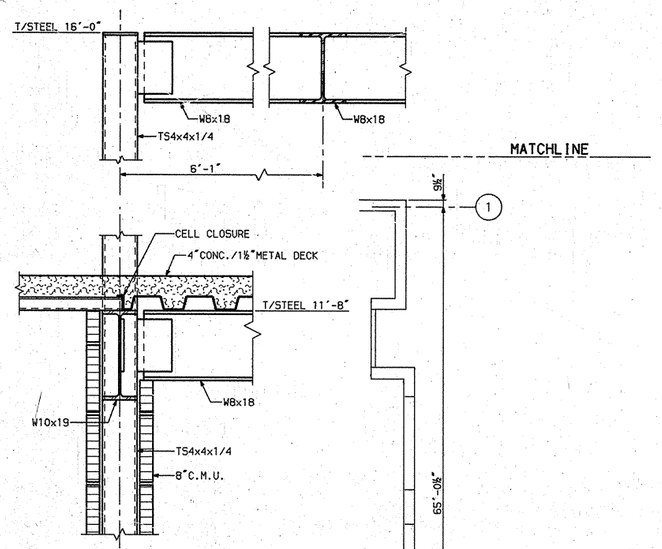


SECTION 1 S-18 / 1A S-18
SCALE: 1½" = 1'-0"

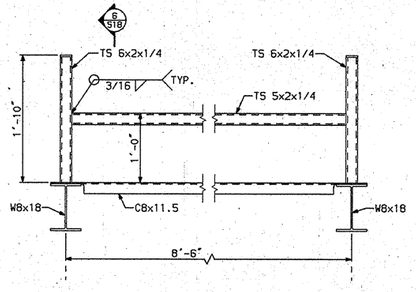


SECTION 3 S-18
SCALE: 1½" = 1'-0"

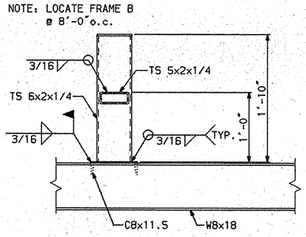




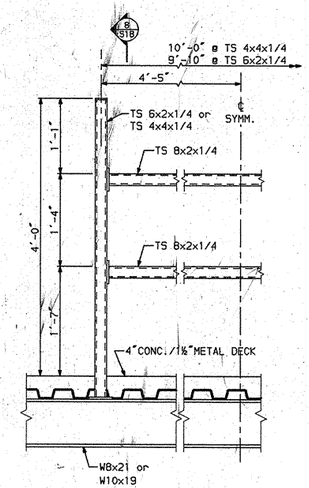
SECTION 2 S-18
SCALE: 1½" = 1'-0"



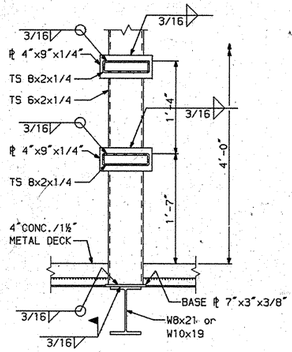
MECHANICAL SUPPORT FRAME B 5 S-18
SCALE: 1" = 1'-0"



SECTION 6 S-18
SCALE: 1" = 1'-0"



MECHANICAL SUPPORT FRAME A 7 S-18
SCALE: 1" = 1'-0"



SECTION 8 S-18
SCALE: 1" = 1'-0"

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (7,8,9 & 10) Wing

MECHANICAL LEVEL FRAMING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	AS NOTED	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

DATED NOV. 27, 1991 LETTER NO. 026344

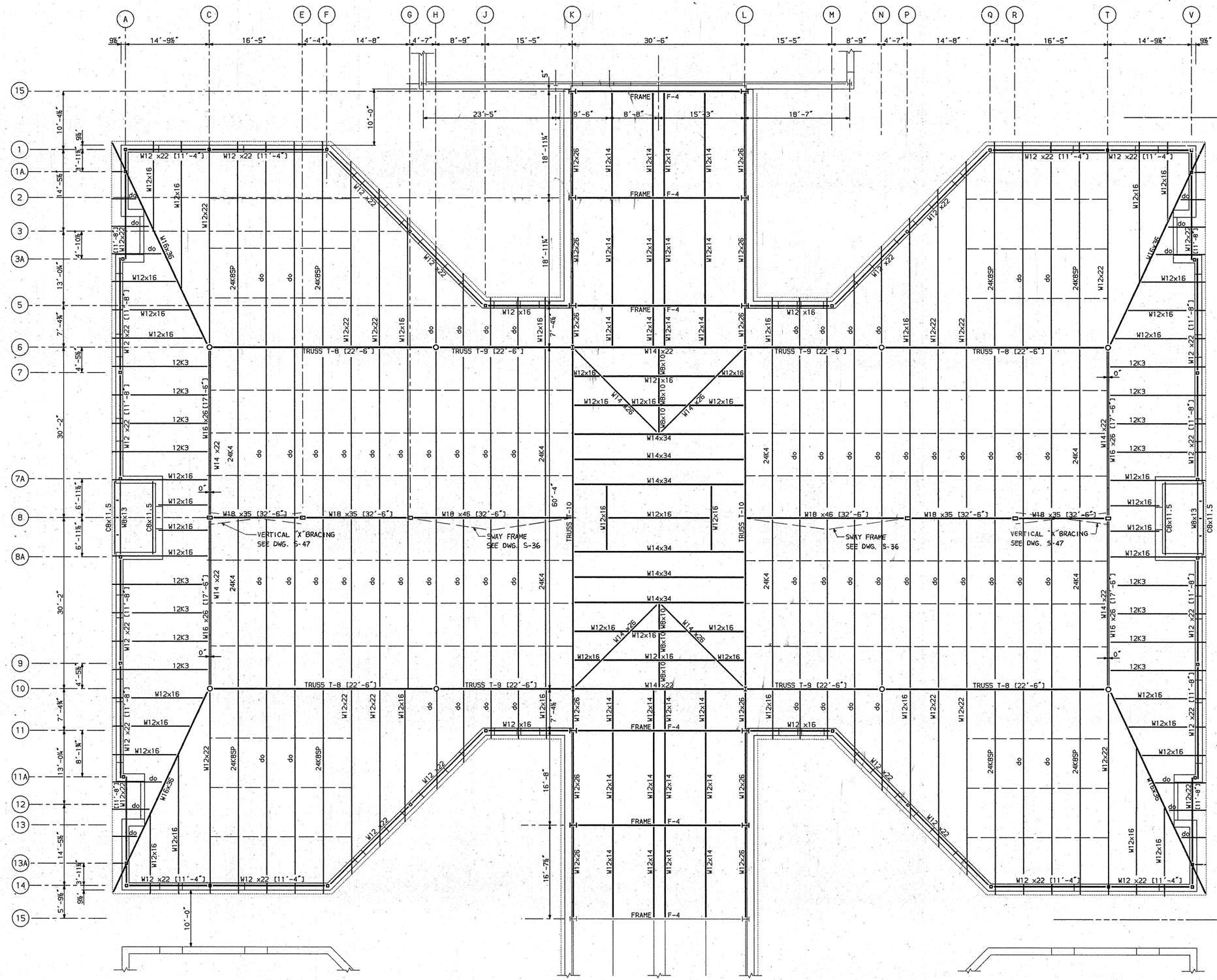
PROJECT NO. 38317-C

DRAWING NO. S-18

PLAN FILE NO. 91/195

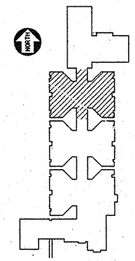
STATE OF NEW YORK JAMES BRZEZINSKI No. 059256 LICENSED PROFESSIONAL ENGINEER

25 NOV 1991 11:40:48 JOHN.NICOLISE <USSCAD>STRA>SS91>S_18317



NOTES:

1. SEE DRAWING S-30 FOR TYPICAL STRUCTURAL NOTES, SECTIONS AND DETAILS.



KEY PLAN

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STATE OF NEW YORK JAMES BRZEZINSKI No. 059228 LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (7,8,9,& 10) Wing

ROOF FRAMING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

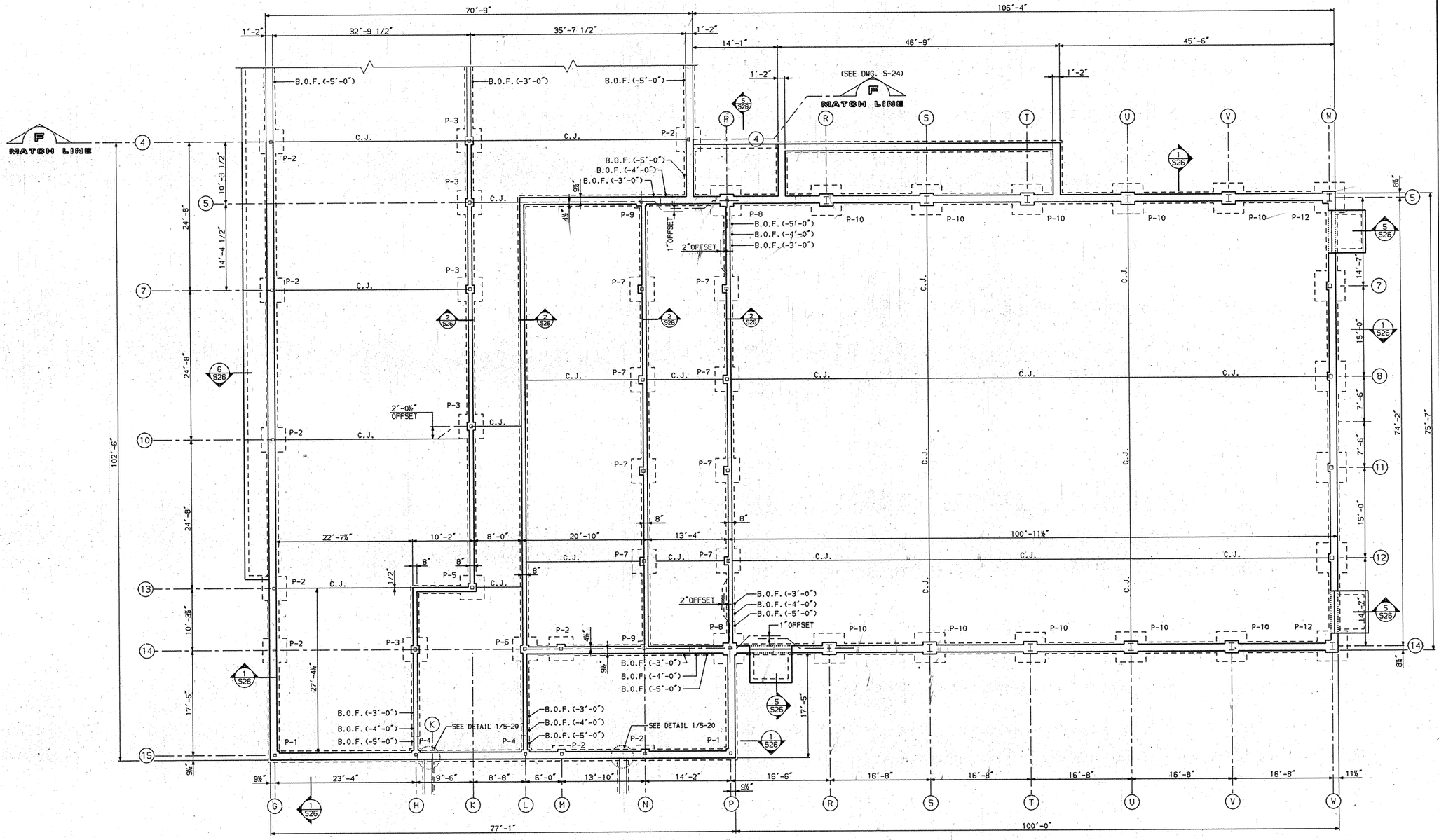
COMMISSIONER JOHN F. HUDACS
DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY
DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

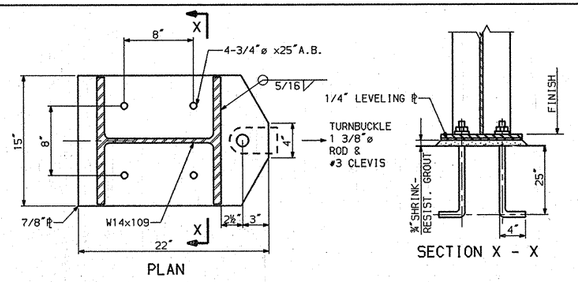
PROJECT NO. 38317-C
DRAWING NO. S-19
PLAN FILE NO. 91/196

JOHN.NICAISE 26 NOV 1991 13:41:51 c:\DESIGN\STRUCTURAL\38317

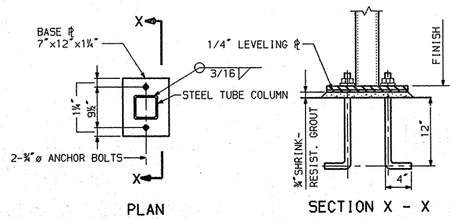

70'-9"
106'-4"
1'-2"
32'-9 1/2"
35'-7 1/2"
1'-2"
14'-1"
46'-9"
45'-6"
1'-2"
1'-2"
(SEE DWG. S-24)
MATCH LINE
MATCH LINE
B.O.F. (-5'-0")
B.O.F. (-3'-0")
B.O.F. (-5'-0")
B.O.F. (-4'-0")
B.O.F. (-3'-0")
B.O.F. (-5'-0")
B.O.F. (-4'-0")
B.O.F. (-3'-0")
4½"
9½"
1"OFFSET
2"OFFSET
2'-0½" OFFSET
2"OFFSET
1"OFFSET
B.O.F. (-3'-0")
B.O.F. (-4'-0")
B.O.F. (-5'-0")
B.O.F. (-3'-0")
B.O.F. (-4'-0")
B.O.F. (-5'-0")
B.O.F. (-3'-0")
B.O.F. (-4'-0")
B.O.F. (-5'-0")
SEE DETAIL 1/S-20
SEE DETAIL 1/S-20
C.J.
P-1
P-2
P-3
P-4
P-5
P-6
P-7
P-8
P-9
P-10
P-12
8"
1/2"
8½"
9½"
102'-6"
24'-8"
10'-3 1/2"
14'-4 1/2"
24'-8"
24'-8"
10'-3½"
27'-4½"
17'-5"
9½"
75'-7"
74'-2"
14'-7"
15'-10"
7'-6"
7'-6"
15'-0"
14'-7"
17'-5"
22'-7½"
10'-2"
8'-0"
20'-10"
13'-4"
100'-11½"
23'-4"
9'-6"
8'-8"
6'-0"
13'-10"
14'-2"
16'-6"
16'-8"
16'-8"
16'-8"
16'-8"
16'-8"
11½"
77'-1"
100'-0"
1 S26
2 S26
4 S26
5 S26
6 S26
1 S26
5 S26
5 S26
1 S26
5 S26
1 S26
1 S26
1

PIER AND COLUMN SCHEDULE

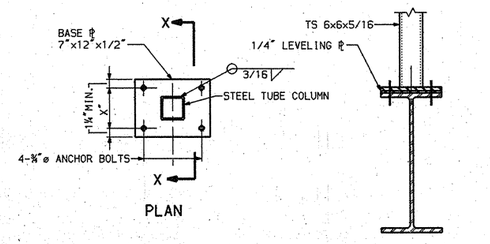
	COLUMNS	G-7 G-10	G-13 G-14	G-15	H-14	H-15	K-5	K-7	K-10	K-13	K-14	L-14	L-15	M-14 M-15	N-5 N-14	N-7 N-12	N-8 N-11	N-15	P-5 P-14	P-7 P-12	P-8 P-11	P-15	R-5 R-14 S-5 S-14 T-5 T-14	U-5 U-14 V-5 V-14	W-5 W-14	W-7 W-12	W-8 W-11
	MAIN ROOF																										
	T.O.S. ELEV.+X'-XX"	T.O.S. 14'-4⅛"	T.O.S. 14'-4⅛"	T.O.S. 14'-4⅛"	T.O.S. 22'-2"	T.O.S. 22'-2"	T.O.S. 25'-10⅛"	T.O.S. 30'-8⅛"	T.O.S. 38'-0"	T.O.S. 29'-4"	T.O.S. 25'-10⅛"	T.O.S. 28'-3"	T.O.S. 28'-3"	T.O.S. 26'-3"	T.O.S. 25'-8⅛"	T.O.S. 30'-6"	T.O.S. 34'-5"	T.O.S. 13'-11"	T.O.S. 25'-8⅛"	T.O.S. 30'-6"	T.O.S. 34'-5"	T.O.S. 11'-8"			T.O.S. 22'-4⅛"	T.O.S. 33'-4⅛"	
	MAIN FLOOR	TS 6x6x1/2	TS 6x6x5/16	TS 6x6x1/2	TS 6x6x5/16	TS 6x6x5/16	TS 6x6x5/16	TS 6x6x5/16	TS 6x6x5/16	TS 6x6x1/2	B.O.S. 20'-0" TS 6x6x5/16	TS 6x6x5/16	TS 6x6x5/16	TS 6x6x5/16 M-14 DOWN 8"	TS 6x6x5/16	TS 6x6x5/16	TS 6x6x1/2	TS 6x6x5/16	TS 6x6x5/16	TS 6x6x5/16	TS 6x6x1/2	TS 6x6x1/2	W14x109 SEE FRAME F-1 ON DRAWING S-33	W14x109 SEE FRAME F-1 ON DRAWING S-33	W14x109 SEE FRAME F-1 ON DRAWING S-33	TS 7x7x1/2	TS 7x7x1/2
	ELEV. 0'-0"				8"													1'-6"									
	BASE PLATE	7"x12"x1⅛"	7"x12"x1⅛"	12"x12"x1"	12"x12"x1"	12"x12"x1"	12"x12"x1"	12"x12"x1"	12"x12"x1"	12"x12"x1"	7"x12"x1/2"	12"x12"x1"	12"x12"x1"	7"x12"x1⅛"	12"x12"x1"	12"x12"x1"	12"x12"x1"	7"x12"x1⅛"	12"x12"x1"	12"x12"x1"	12"x12"x1"	12"x12"x1"	15"x22"x7/8"	15"x22"x7/8"	15"x22"x7/8"	13"x13"x7/8"	13"x13"x7/8"
PIER	PIER TYPE SEE DRAWING S-24 FOR DETAILING	P-2	P-2	P-1	P-3	P-4	P-3	P-3	P-3	P-5	-----	P-6	P-4	P-2	P-9	P-7	P-7	P-2	P-8	P-7	P-7	P-1	P-10	P-10	P-12	P-11	P-11
	REINFORCING VERTICALS	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	-----	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	10-#6	10-#6
	REINFORCING STIRRUPS	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	-----	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.
FOOTING	SIZE	4'-0"x4'-0"x1'-0"	4'-0"x4'-0"x1'-0"	4'-6"x4'-6"x1'-0"	5'-6"x5'-6"x1'-3"	3'-0"x3'-0"x1'-0"	5'-6"x5'-6"x1'-3"	5'-6"x5'-6"x1'-3"	5'-6"x5'-6"x1'-3"	5'-6"x5'-6"x1'-3"	-----	5'-6"x5'-6"x1'-3"	3'-0"x3'-0"x1'-0"	4'-0"x4'-0"x1'-0"	2'-6"x2'-6"x1'-0"	2'-6"x2'-6"x1'-0"	2'-6"x2'-6"x1'-0"	4'-0"x4'-0"x1'-0"	4'-0"x4'-0"x1'-0"	2'-6"x2'-6"x1'-0"	2'-6"x2'-6"x1'-0"	4'-6"x4'-6"x1'-0"	4'-0"x4'-0"x1'-0"	4'-0"x4'-0"x1'-0"	4'-0"x4'-0"x1'-0"	5'-0"x5'-0"x1'-2"	5'-0"x5'-0"x1'-2"
	REINFORCING	3-#5 E.W.	3-#5 E.W.	4-#5 E.W.	7-#5 E.W.	2-#5 E.W.	7-#5 E.W.	7-#5 E.W.	7-#5 E.W.	7-#5 E.W.	-----	7-#5 E.W.	2-#5 E.W.	3-#5 E.W.	2-#5 E.W.	2-#5 E.W.	2-#5 E.W.	3-#5 E.W.	3-#5 E.W.	2-#5 E.W.	2-#5 E.W.	4-#5 E.W.	3-#5 E.W.	3-#5 E.W.	3-#5 E.W.	4-#5 E.W.	4-#5 E.W.
	COLUMNS	G-7 G-10	G-13 G-14	G-15	H-14	H-15	K-5	K-7	K-10	K-13	K-14	L-14	L-15	M-14 M-15	N-5 N-14	N-7 N-12	N-8 N-11	N-15	P-5 P-14	P-7 P-12	P-8 P-11	P-15	R-5 R-14 S-5 S-14 T-5 T-14	U-5 U-14 V-5 V-14	W-5 W-14	W-7 W-12	W-8 W-11



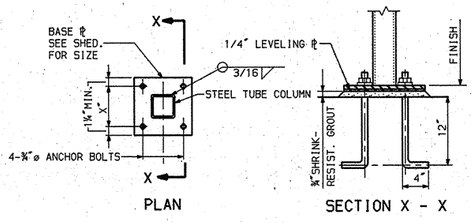
RIGID FRAME F-1 BASE PL DETAIL 1/S-21



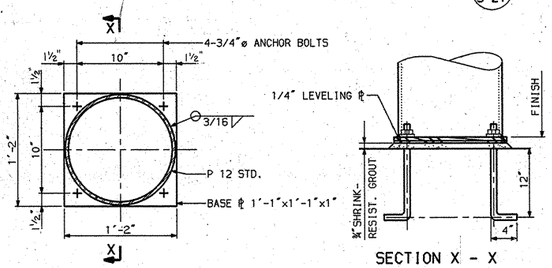
TYPICAL 7"x12" BASE PL DETAIL 2/S-21



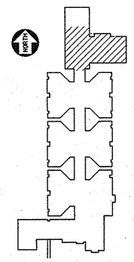
BASE PL DETAIL 3/S-21



TYPICAL SQUARE BASE PL DETAIL 4/S-21



TYPICAL BASE PLATE DETAIL 5/S-21



KEY PLAN

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STATE OF NEW YORK JAMES BRZEZINSKI No. 058256 LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Gymnasium & Vocational Wing

PIER & COLUMN SCHEDULE AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	XXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

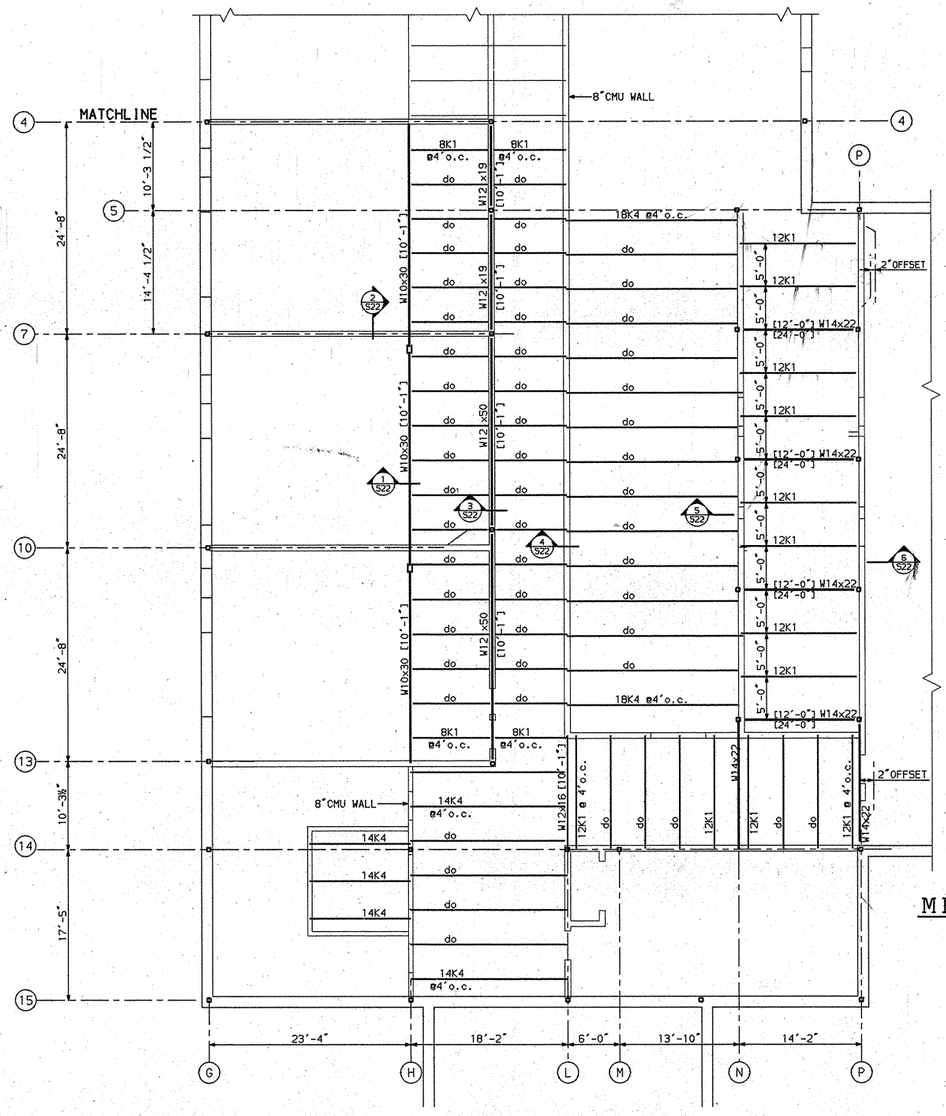
DATED NOV. 27, 1991 LETTER NO. 026344

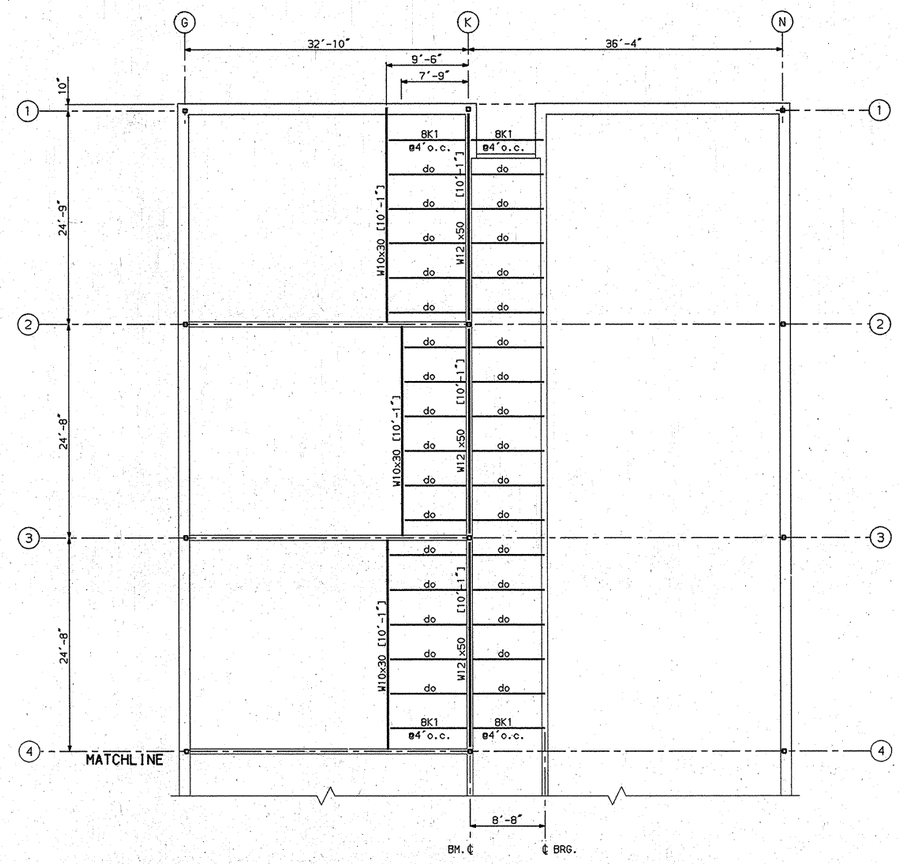
PROJECT NO. 38317-C

DRAWING NO. S-21

PLAN FILE NO. 91/198

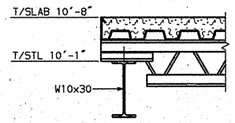
26 NOV 1991 10:00:30 JOHN.MCCABE



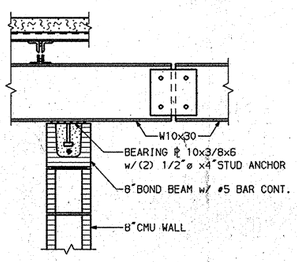


MECHANICAL LEVEL FRAMING PLAN

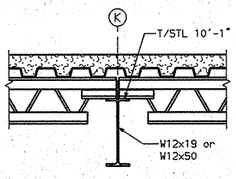
SCALE: 1/8" = 1'-0"



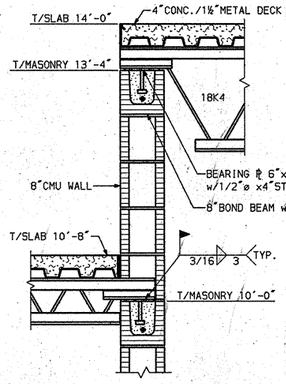
SECTION 1 S-22
SCALE: 1" = 1'-0"



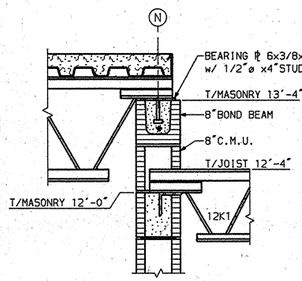
SECTION 2 S-22
SCALE: 1" = 1'-0"



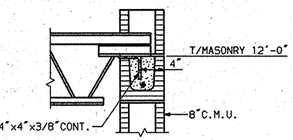
SECTION 3 S-22
SCALE: 1" = 1'-0"



SECTION 4 S-22
SCALE: 1" = 1'-0"



SECTION 5 S-22
SCALE: 1" = 1'-0"



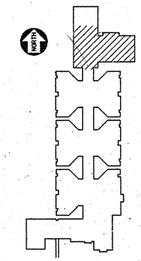
SECTION 6 S-22
SCALE: 1" = 1'-0"

NOTES:

1. BAR JOISTS FOR MEZZANINE FRAMING SHALL BE 4'-0"o.c. MAX. AND NO MORE THAN 2'-0" FROM COLUMN LINES.
2. MECHANICAL LEVEL FLOOR LOADING:

4"CONC. SLAB ON 1½"MTL. DECK	38 psf
CEILING LOAD	12 psf
LIVE LOAD	80 psf

3. SEE DRAWING S-30 FOR TYPICAL STRUCTURAL NOTES, SECTIONS AND DETAILS.



KEY PLAN

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CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Gymnasium & Vocational Wing

MECHANICAL LEVEL FRAMING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

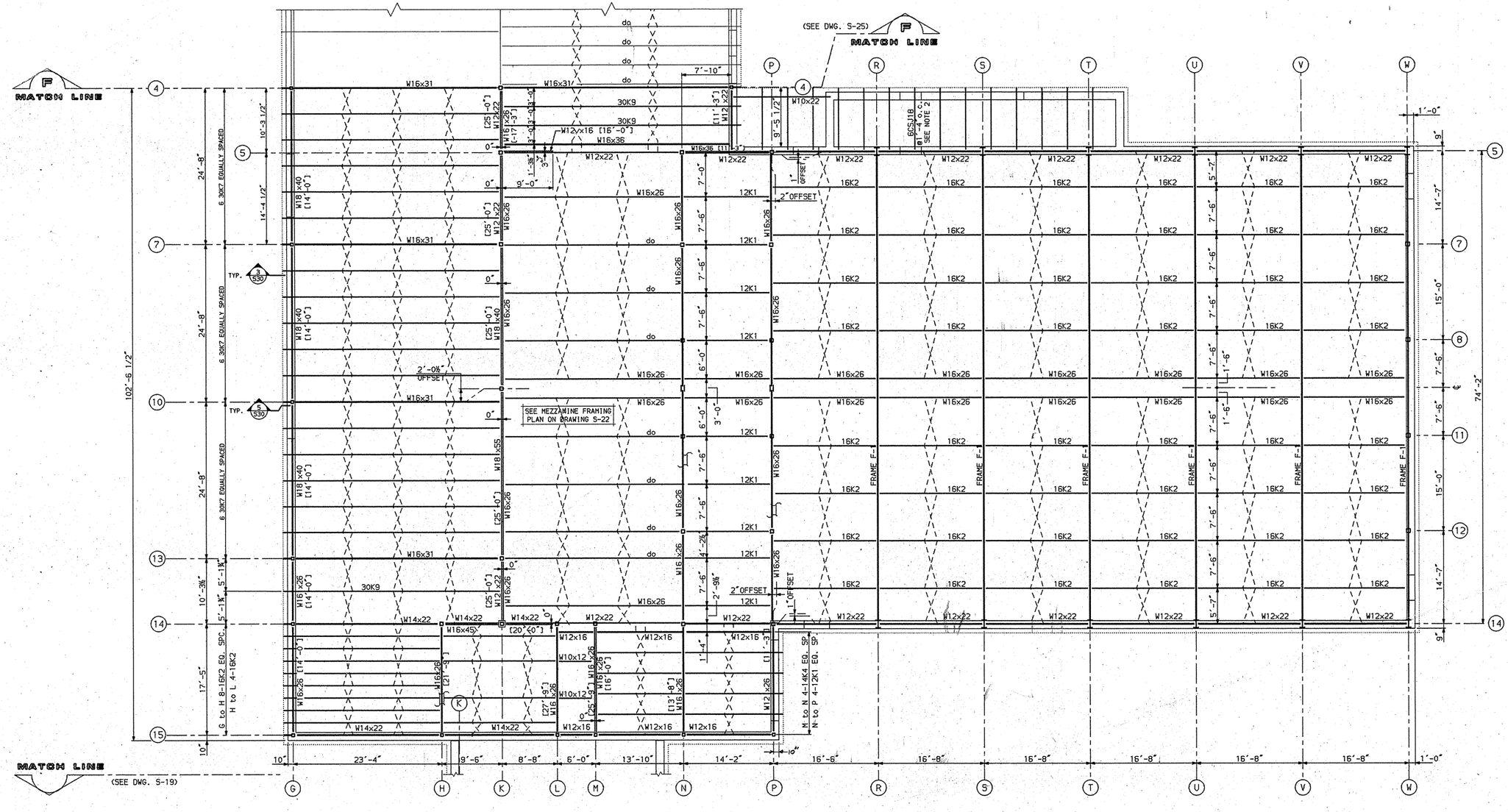
DESIGNED BY	DATE	SCALE	APPROVED
W. HELD	NOV. 27, 1991	AS NOTED	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	S-22
	PLAN FILE NO. 91/199

26 NOV 1991 10:00:38, JOHN.NICAISE



NOTES:

- INDICATES A COLUMN WHICH BEARS ON A BEAM BELOW IT.

1. SEE DRAWING S-30 FOR TYPICAL STRUCTURAL NOTES, SECTIONS AND DETAILS.
2. COLD FORMED METAL FRAMING PROPERTIES:

DEPTH	= 6"
FLANGE	= 1.724"
GAUGE	= 18
X-X SECTION MODULUS	= 0.785 in³
X-X MOMENT OF INERTIA	= 2.365 in⁴

STATE OF NEW YORK JAMES BRZEZINSKI No. 026265 LICENSED PROFESSIONAL ENGINEER

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CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Gymnasium & Vocational Wing

ROOF FRAMING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

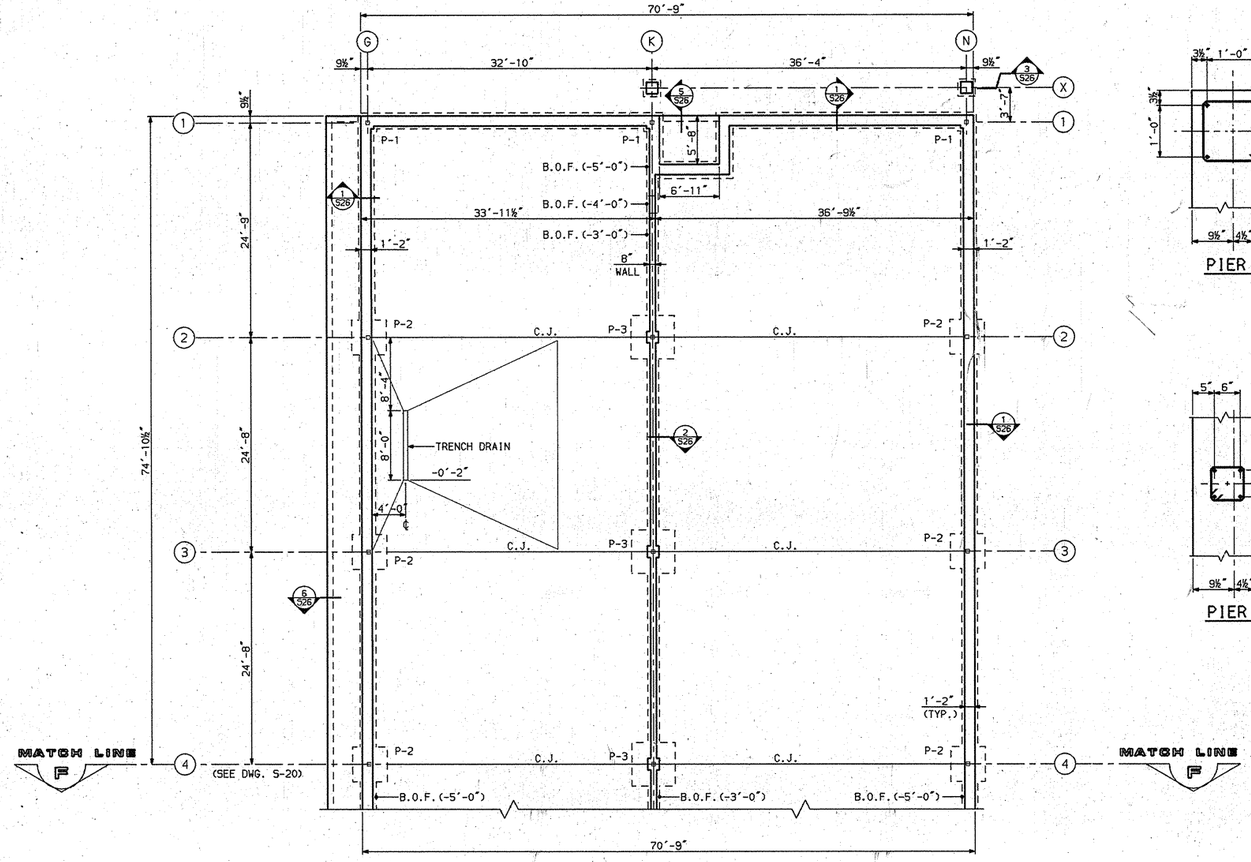
COMMISSIONER JOHN F. HUDACS
DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY
DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

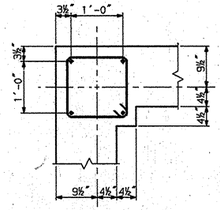
DESIGNED BY	DATE	SCALE	APPROVED
W. HELD	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

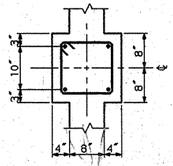
PROJECT NO. 38317-C
DRAWING NO. S-23
PLAN FILE NO. 91/200

25 NOV 1991 10:00:42 JOHN.MCCABE

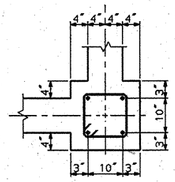




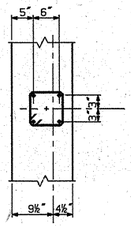
PIER 1



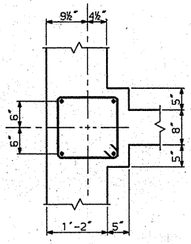
PIER 3



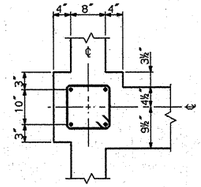
PIER 5



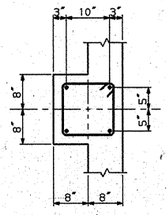
PIER 2



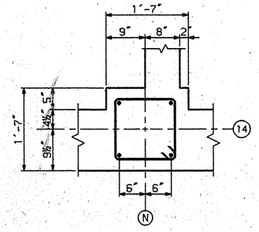
PIER 4



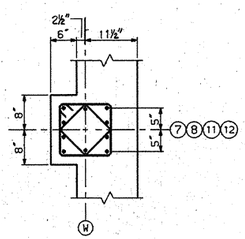
PIER 6



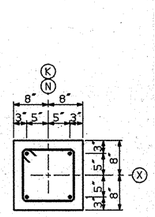
PIER 7



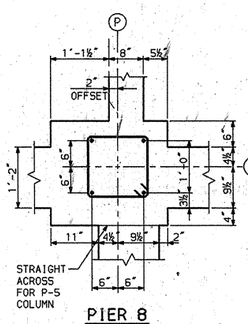
PIER 9
FOR COL. N-5 OPP. HAND



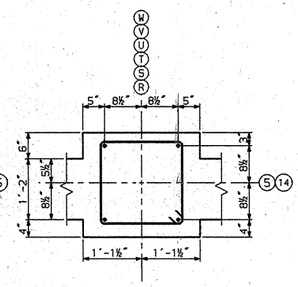
PIER 11



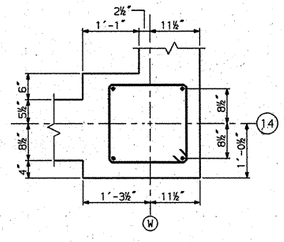
PIER P-14



PIER 8
FOR COLUMN P-5 OPP. HAND



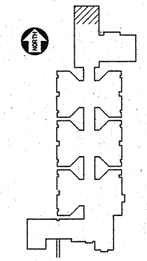
PIER 10



PIER 12
FOR. COL. W-5 OPP. HAND

NOTES:

1. SEE DRAWING S-26 FOR TYPICAL FOUNDATION NOTES, SECTIONS AND DETAILS.
2. SEE ARCH. DRAWINGS FOR FLOOR SLAB PITCH AND DEPRESSED SLAB LOCATIONS.
3. C.J. DENOTES TYP. SLAB CONTROL JOINT, SEE DETAIL 8/S-26.



STATE OF NEW YORK
JAMES BRZEZINSKI
No. 058256
LICENSED PROFESSIONAL ENGINEER

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CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

Vocational Wing

FOUNDATION PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. MUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
W. HELD	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

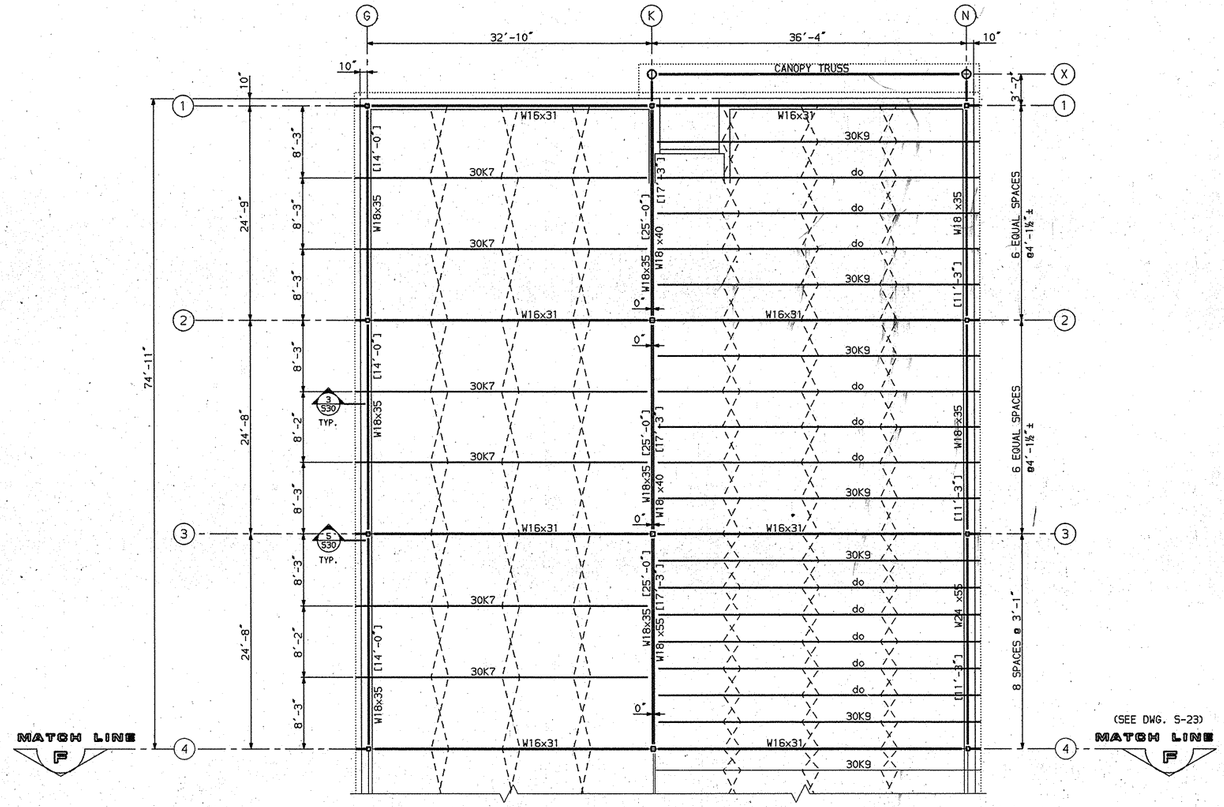
APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

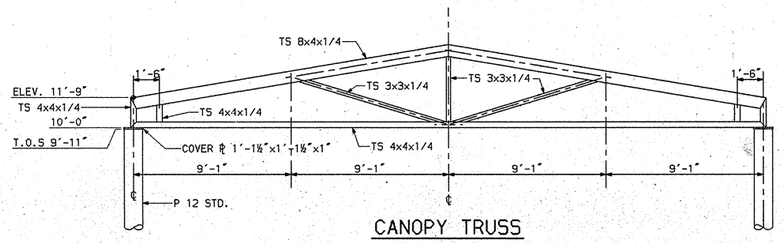
PROJECT NO. 38317-C

DRAWING NO. S-24

PLAN FILE NO. 91/201

25 NOV 1991 10:00:46 JOHN.MCCABE





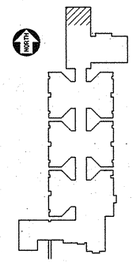
CANOPY TRUSS

PIER AND COLUMN SCHEDULE

	COLUMNS	G-1	G-2	G-3	G-4	K-X	K-1	K-2	K-3	K-4	N-X	N-1	N-2	N-3	N-4
	MAIN ROOF T.O.S. ELEV.+X'-XX"														
	T.O.S. 25'-4"														
	T.O.S. 14'-4½"	TS 6x6x1/2	TS 6x6x5/16	TS 6x6x5/16	TS 6x6x5/16	P12 STD	TS 6x6x1/2	TS 6x6x5/16	TS 6x6x1/2	TS 6x6x1/2	P12 STD	TS 6x6x1/2	TS 6x6x5/16	TS 6x6x5/16	TS 6x6x5/16
	T.O.S. 11'-8"														
	T.O.S. 9'-11"														
	MAIN FLOOR ELEV. 0'-0"														
	BASE PLATE	12"x12"x1" (4 REQ)	7"x12"x1¼" (4 REQ)	7"x12"x1¼" (2 REQ)	7"x12"x1¼" (4 REQ)	1'-2"x1'-2"x1" (5 REQ)	12"x12"x1" (4 REQ)	12"x12"x1" (4 REQ)	12"x12"x1" (4 REQ)	12"x12"x1" (4 REQ)	1'-1"x1'-1"x1" (5 REQ)	12"x12"x1" (4 REQ)	7"x12"x1¼" (2 REQ)	7"x12"x1¼" (2 REQ)	7"x12"x1¼" (2 REQ)
PIER	TYPE SEE DRAWING S-24 FOR DETAILING	P1	P2	P2	P2	P-14	P1	P3	P3	P3	P-14	P1	P2	P2	P2
PIER REINFORCING	VERTICALS	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6	4-#6
PIER REINFORCING	STIRRUPS	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.	#3@12"o.c.
FOOTING	SIZE	4'-6"x4'-6"x1'-0"	4'-0"x4'-0"x1'-0"	4'-0"x4'-0"x1'-0"	4'-0"x4'-0"x1'-0"	2'-0"x2'-0"x1'-0"	4'-6"x4'-6"x1'-0"	5'-6"x5'-6"x1'-3"	5'-6"x5'-6"x1'-3"	5'-6"x5'-6"x1'-3"	2'-0"x2'-0"x1'-0"	4'-6"x4'-6"x1'-0"	4'-0"x4'-0"x1'-0"	4'-0"x4'-0"x1'-0"	4'-0"x4'-0"x1'-0"
FOOTING	REINFORCING	4-#5 E.W.	3-#5 E.W.	3-#5 E.W.	3-#5 E.W.	2-#5 E.W.	4-#5 E.W.	7-#5 E.W.	7-#5 E.W.	7-#5 E.W.	2-#5 E.W.	4-#5 E.W.	3-#5 E.W.	3-#5 E.W.	3-#5 E.W.
	COLUMNS	G-1	G-2	G-3	G-4	K-X	K-1	K-2	K-3	K-4	N-X	N-1	N-2	N-3	N-4

NOTES:

1. SEE DRAWING S-30 FOR TYPICAL STRUCTURAL NOTES, SECTIONS AND DETAILS.



KEY PLAN

STATE OF NEW YORK JAMES BRZEZINSKI No. 058256 LICENSED PROFESSIONAL ENGINEER

WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Vocational Wing

ROOF FRAMING PLAN, COLUMN & PIER SCHEDULE & DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

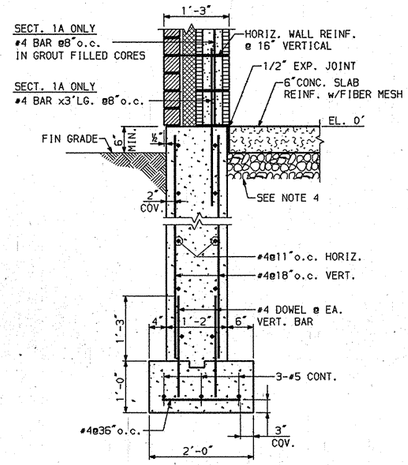
DESIGNED BY	DATE	SCALE	APPROVED
W. HELD	NOV. 27, 1991	XXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

APPROVED BY: DIVISION FOR YOUTH

DATED: NOV. 27, 1991 LETTER NO.: 026344

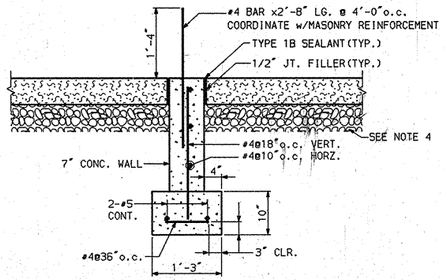
PROJECT NO.	DRAWING NO.
38317-C	S-25
	PLAN FILE NO. 91/202

26 NOV 1991 10:00:31 JOHN.NYCASE <GENS24>STRU-S501+U.38317



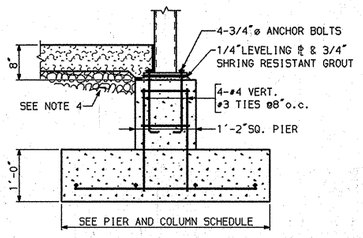
TYP. FNDN. SECTION 1 / 1A — S-26 / S-26

SCALE: 3/4" = 1'-0"



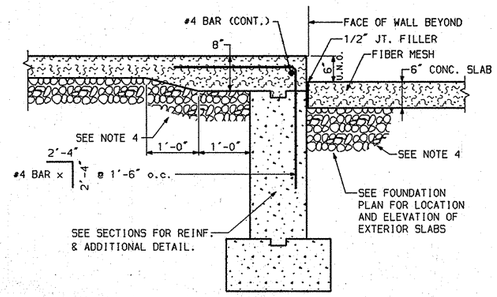
SECTION 2 — S-26

SCALE: 3/4" = 1'-0"



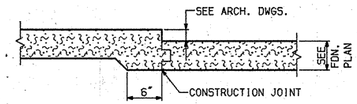
TYP. ISOLATED FOOTING SECTION 3 — S-26

SCALE: 3/4" = 1'-0"



TYPICAL SLAB OVERPOUR 4 — S-26

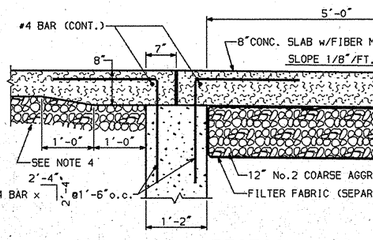
AT EXTERIOR SWING-TYPE DOORS TYP.



DEPRESSED SLAB DETAIL 8A — S-26

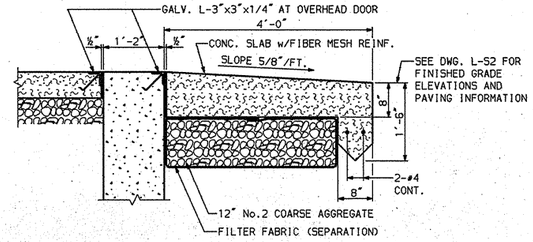
NOTES:

1. ALLOWABLE SOIL BEARING CAPACITY = 4000 p.s.f.
2. BOTTOM OF EXTERIOR FOOTING IS 4'-6" MINIMUM BELOW FINISHED GRADE. SEE FOUNDATION PLAN FOR LOCATION OF STEPPED FOOTINGS. BOTTOM OF FOOTING ELEVATIONS (X'-X") ARE GIVEN FROM FINISHED FLOOR DATUM = 0'-0". B.O.F. -5'-0" UNLESS NOTED OTHERWISE.
3. BOTTOM OF INTERIOR FOOTING IS 3'-0" BELOW FINISHED FLOOR.
4. PROVIDE 6" OF SELECT GRANULAR MATERIAL UNDER INTERIOR SLABS ON GRADE. PROVIDE 12" OF SELECT GRANULAR MATERIAL UNDER EXTERIOR SLABS ON GRADE. PROVIDE 12" No.2 COARSE AGGREGATE AT EXTERIOR SLABS ON GRADE AS SHOWN ON SECTIONS 5/S26 AND 6/S26.
5. CONCRETE MASONRY UNITS AND BRICK OVERHANG FOUNDATION WALL BY 1/2" EACH SIDE.
6. EXTERIOR CONCRETE SLABS AT SWING-TYPE EXIT DOORS SHALL BE CENTERED ON MASONRY OPENING x 5'-0", UNLESS NOTED OTHERWISE. SLABS TO BE SLOPED 1/8" PER FT. AWAY FROM DOOR, UNLESS NOTED OTHERWISE. SEE DRAWINGS L-S4 THRU L-S11 FOR SLAB WIDTH DIMENSIONS. SEE SECTION 5/S-26.
7. PROVIDE PIPE SLEEVES IN FOUNDATION WALLS (NOT THROUGH PIERS) WHERE REQUIRED. COORDINATE SLEEVE LOCATIONS, SIZES AND INVERTS AND LOCATIONS OF FOOTING STEPS AT UTILITY LINES WITH RELATED CONTRACTORS.
8. SAWCUT CONTROL JOINTS INDICATED ON FOUNDATION PLANS WITHIN 18 HOURS OF PLACEMENT.



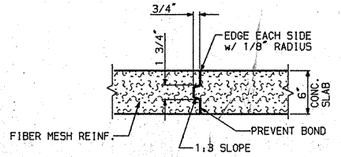
SECTION 5 — S-26

SCALE: 3/4" = 1'-0"

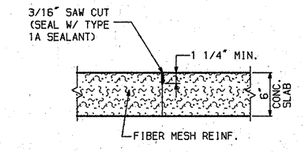


SECTION 6 — S-26

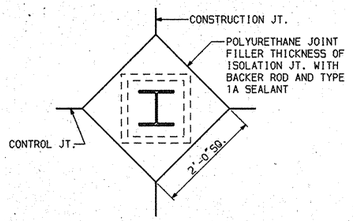
SCALE: 3/4" = 1'-0"



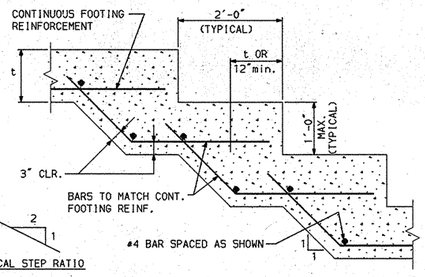
TYP. SLAB CONSTRUCTION JOINT DETAIL 7 — S-26



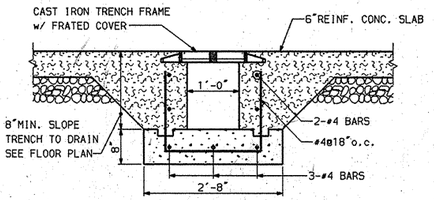
TYP. SLAB CONTROL JOINT DETAIL 8 — S-26



ISOLATION JOINT AT COLUMNS 9 — S-26

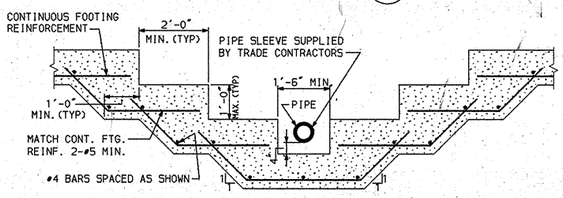


TYPICAL STEPPED FOOTING DETAIL 10 — S-26



TRENCH DRAIN 12 — S-26

SCALE: 3/4" = 1'-0"



TYPICAL STEPPED FOOTING DETAIL @ UTILITIES 11 — S-26

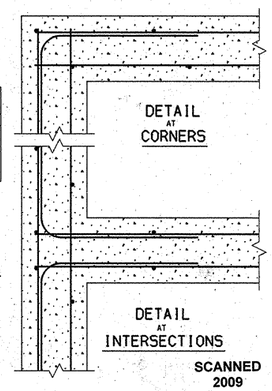
NOTE: STEP ALL FOOTINGS DOWN BELOW ALL UTILITY LINES INTERIOR & EXTERIOR. COORDINATE w/TRADE CONTRACTOR FOR LOCATION & ELEV. OF STEPS.

WALL THICKNESS		REINFORCING 2" FROM EACH FACE EXCEPT FOR 6" WALL-1 ROW IN CENTER	
OVER	THRU	HORIZONTAL	VERTICAL
--	6"	#3@5"O.C.	#4@18"O.C.
6"	8"	#3@10"O.C.	#4@18"O.C.
8 1/2"	10 1/2"	#3@8"O.C.	#4@18"O.C.
10 1/2"	12 1/2"	#4@12"O.C.	#4@18"O.C.
12 1/2"	14 1/2"	#4@11"O.C.	#4@18"O.C.

NOTES:

1. THE ABOVE REINFORCEMENT TO BE USED FOR ALL CONCRETE WALLS, EXCEPT WHERE SPECIFICALLY MARKED OTHERWISE.
2. FIRST HORIZONTAL BAR SHALL BE PLACED 6" ABOVE TOP OF FOOTING AND LAST HORIZONTAL BAR SHALL BE PLACED 2" BELOW TOP OF WALL.
3. CORNERS AND INTERSECTIONS OF WALLS SHALL BE REINFORCED WITH ANGLE BARS, THE SAME SIZE AND SPACING AS LARGEST CALLED FOR IN ADJACENT WALLS. THESE BARS SHALL BE AT LEAST 4'-0" LONG AND SHALL LAP OTHER BARS AT LEAST 18".

SCHEDULE OF TEMP. AND SHRINKAGE REINFORCING



SCANNED
2009

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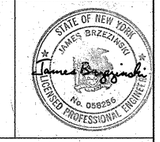


CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

TYPICAL FOUNDATION SECTIONS & DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER
JOHN F. MUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

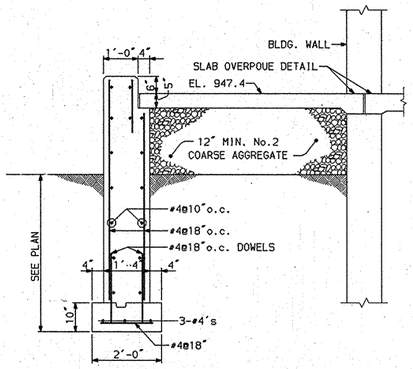
DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
XXXXX	NOV. 27, 1991	AS NOTED	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

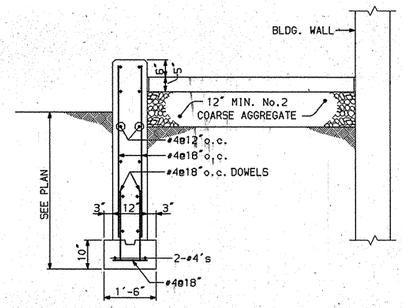
APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C
DRAWING NO. S-26
PLAN FILE NO. 91/203

JOHN.NICAISE 25 NOV 1991 15:52:48 /USER2/H-STRUCTURE/H/38317.39317



SECTION 1 S-27
SCALE: 1/2" = 1'-0"



SECTION 2 S-27
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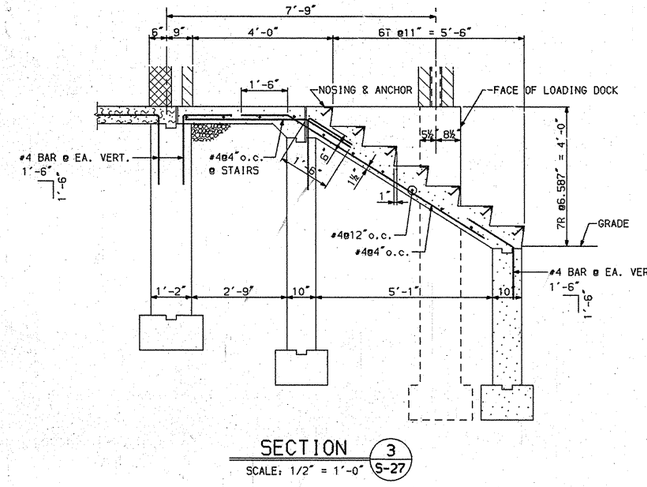

SECTION 3 S-27
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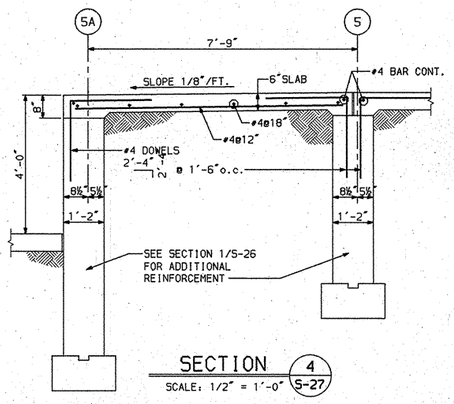

SECTION 4 S-27
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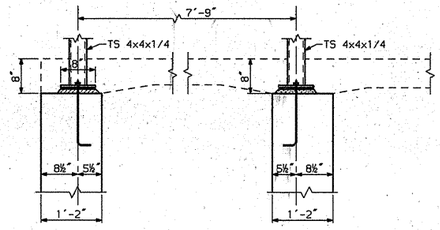

SECTION 5 S-27
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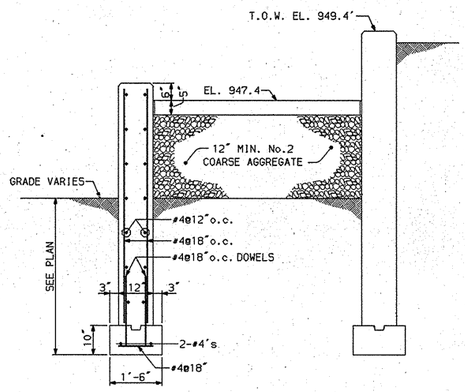
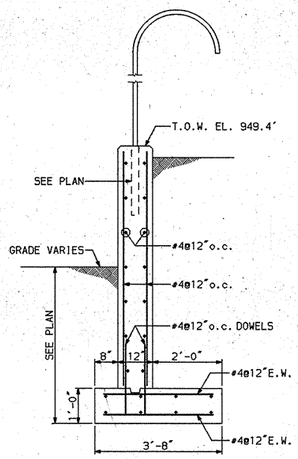
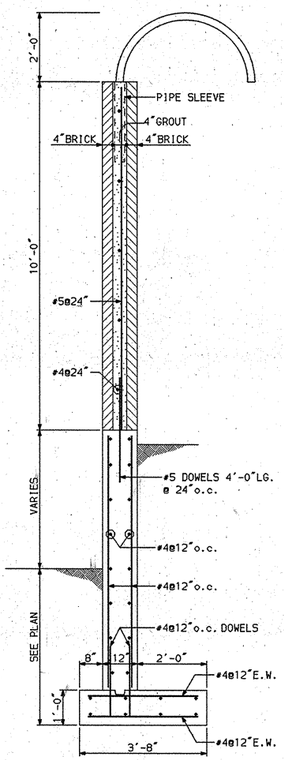


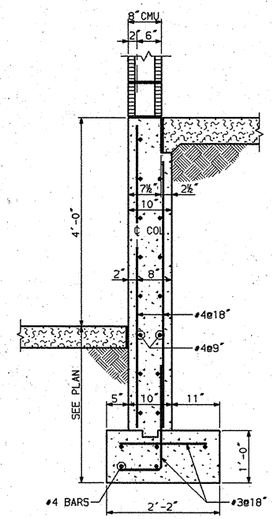
SECTION 6 S-27
SCALE: 1/2" = 1'-0"



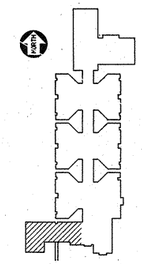
SECTION 7 S-27
SCALE: 1/2" = 1'-0"



SECTION 8 S-27
SCALE: 1/2" = 1'-0"



SECTION 9 S-27
SCALE: 3/4" = 1'-0"



KEY PLAN

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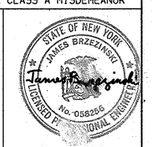


CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

Warehouse & Kitchen Wing

FOUNDATION SECTIONS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

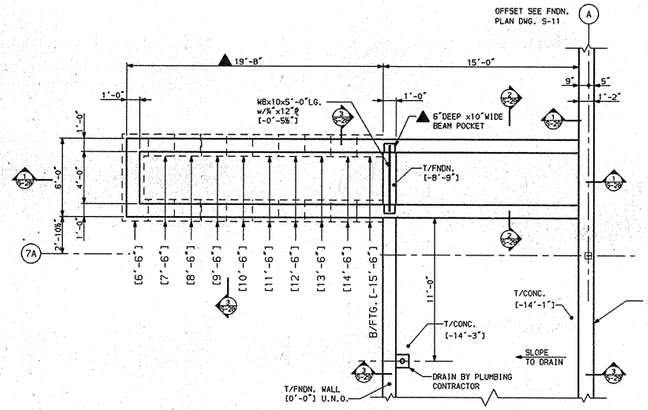
DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
R. DOYLE	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

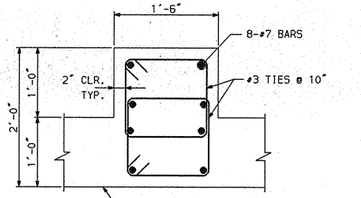
PROJECT NO. 38317-C
DRAWING NO. S-27
PLAN FILE NO. 91/204

JOHNJ.MICAISE 26 NOV 1991 12:51:00 x:\SDS2\hi-STRUCTS\SS2\HI\38317



ENLARGED FOUNDATION PLAN STAIR A

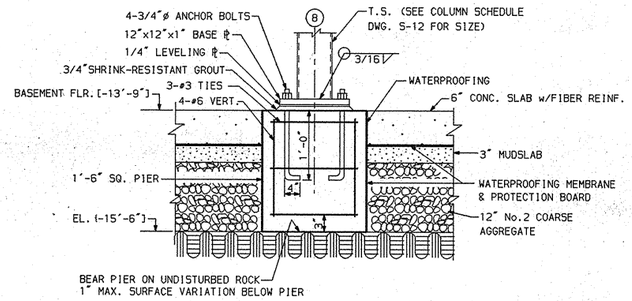
SCALE: 3/16" = 1'-0"



BEAR PIER ON UNDISTURED ROCK

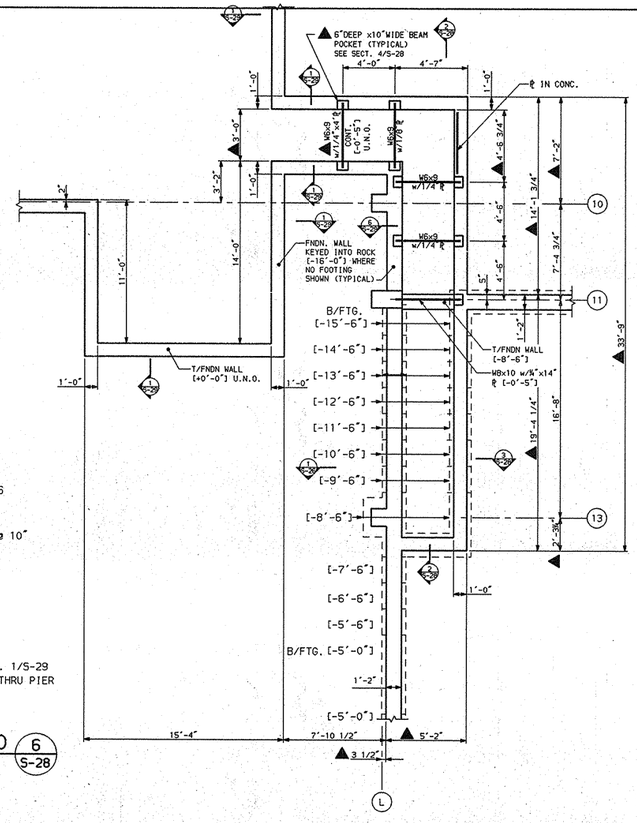
▲ PIER @ COL. K-6 & K-10 (6 / S-28)

SCALE: 1"=1'-0"



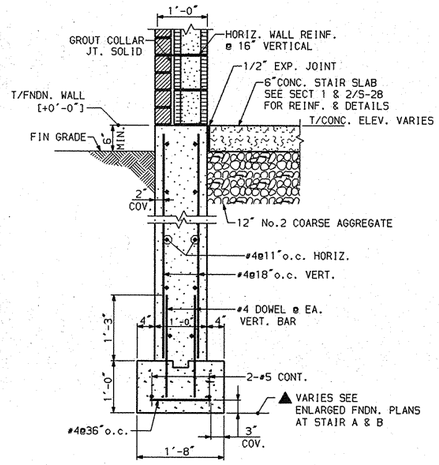
▲ TYPICAL ISOLATED PIER DETAIL AT CELLAR (5 / S-28)

SCALE: 1"=1'-0"



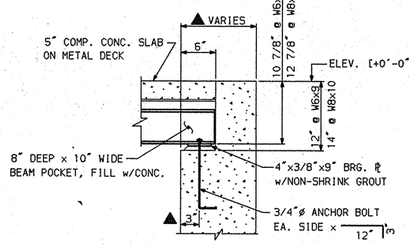
ENLARGED FOUNDATION PLAN STAIR B

SCALE: 3/16" = 1'-0"



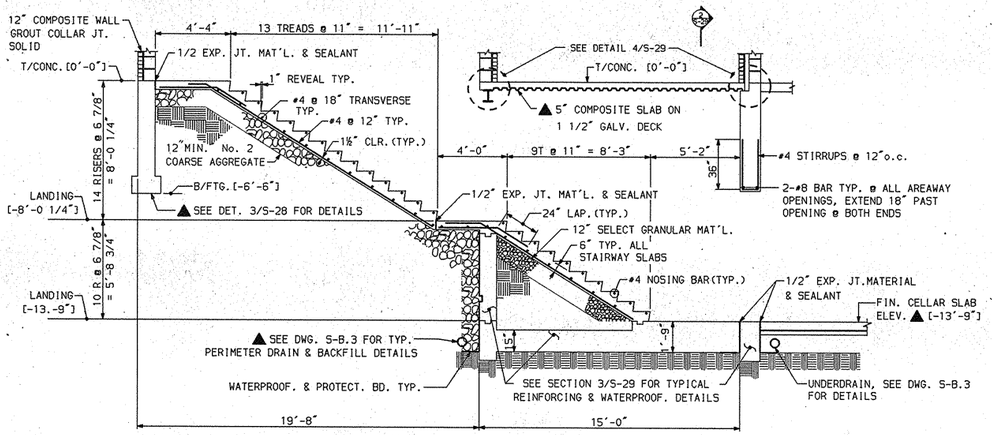
TYP. 12" FNDN. SECTION (3 / S-28)

SCALE: 3/4" = 1'-0"



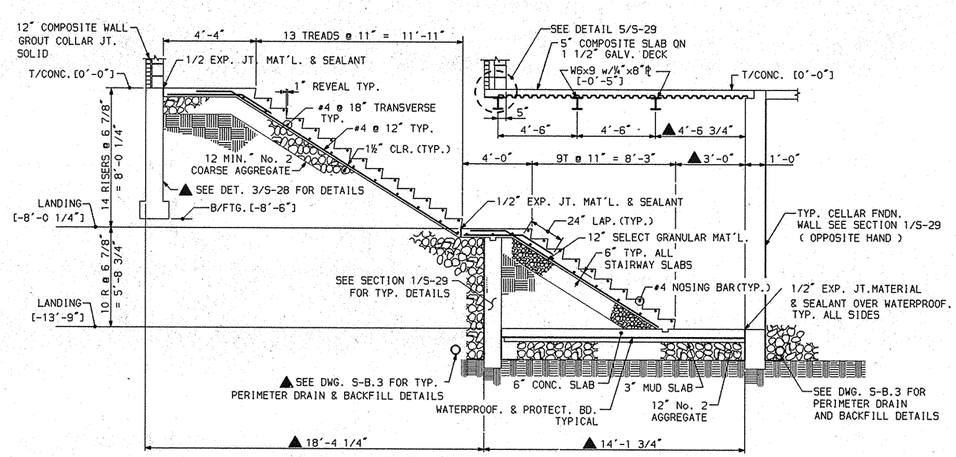
TYP. STAIRWAY BEAM POCKET (4 / S-28)

NOT TO SCALE



STAIR A SECTION (1 / S-28)

NOT TO SCALE

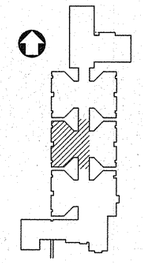


STAIR B SECTION (2 / S-28)

NOT TO SCALE

NOTES

1. SEE NOTE 1 DWG. S-13 FOR GALV. DECK SECTION PROPERTIES.
2. ▲ - ALL KEYWAYS SHOWN CUT IN STONE FOR RETAINING WALLS, ARE TO BE CUT WITH SQUARE, WELL DEFINED CORNERS.
3. ▲ - INDICATES CHANGES FROM ORIGINAL DRAWING ISSUED 11/27/91.



KEY PLAN

ADDENDUM DWG. - 12/30/91
REPLACES DWG. No. S-28

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STATE OF NEW YORK · JAMES BRZEZINSKI · No. 059256 · DULY LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (3,4,5,& 6) Wing

FOUNDATION SECTIONS and DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D.HODGKINS	DEC. 30, 1991	AS NOTED	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
RJM JJN			XXXXX

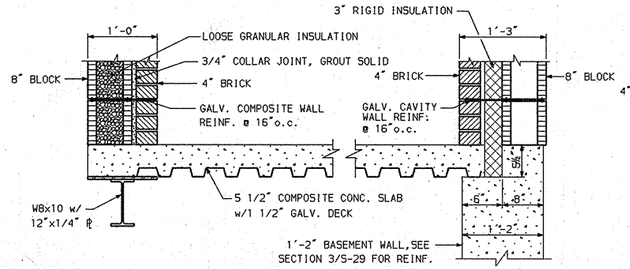
APPROVED BY _____ . DIVISION FOR YOUTH

DATED NOV./27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. S-28

PLAN FILE NO. 91/205



SECTION X / X-XX
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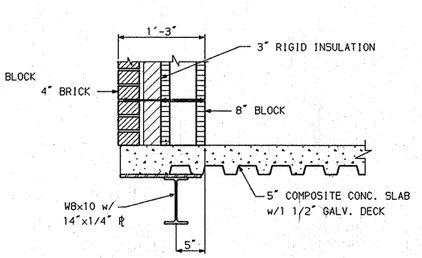

SECTION 5 / S-29
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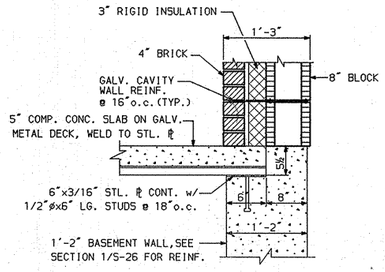

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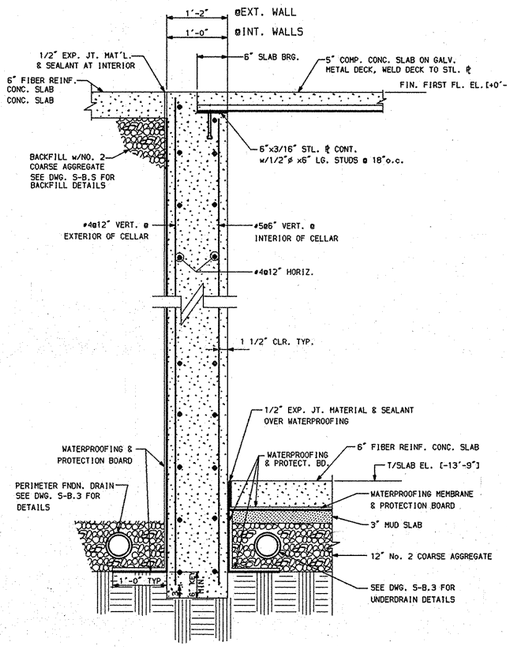
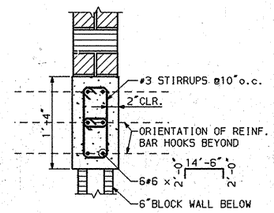


SECTION 1 / X-XX
NOT TO SCALE



SECTION 7 / S-29
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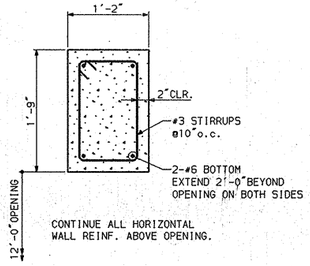
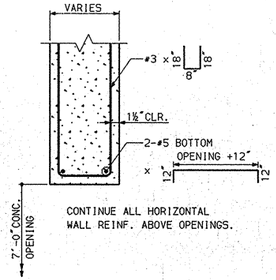
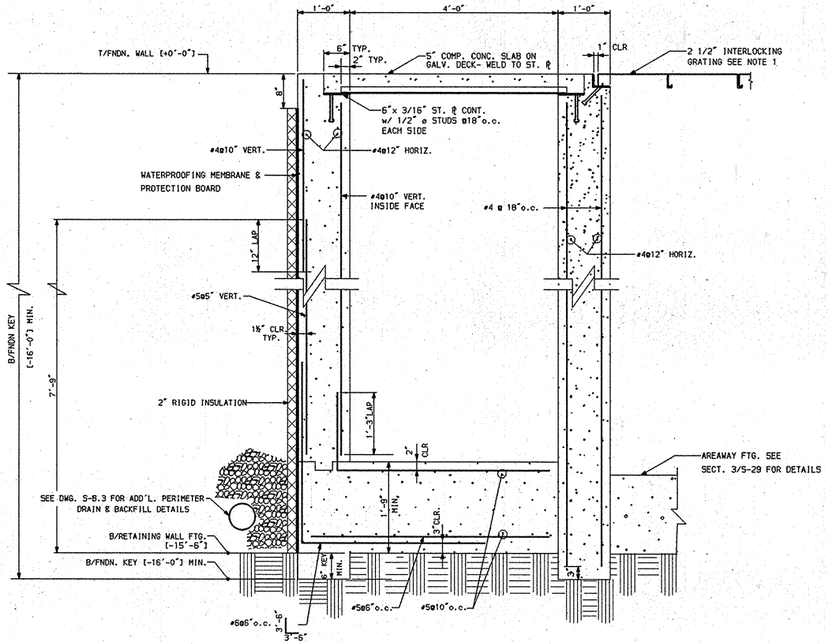


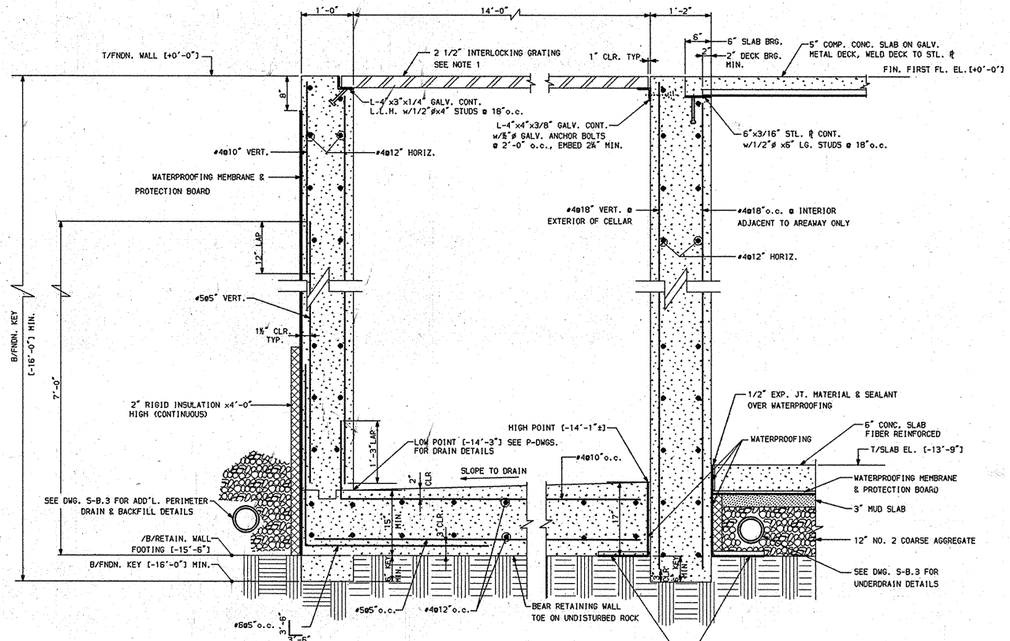
CONC. SECT. @ 12'-0 OPENING IN CELLAR WALL / 8 / S-29
SCALE: 1" = 1'-0"



CONC. SECT. @ 7'-0 HIGH OPENINGS IN CELLAR WALL / 9 / S-29
SCALE: 1" = 1'-0"



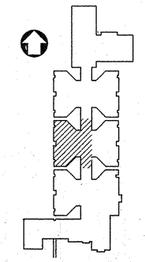
SECTION 2 / S-29
SCALE: 3/4"=1'-0"



SECTION 3 / X-XX
SCALE: 3/4"=1'-0"

NOTES

1. GRATING ABOVE AREAWAY TO BE 2 1/2" INTERLOCKING 14 GA., HOT DIP GALVANIZED WITH NON-SLIP SURFACE. MCNICHOLS CO. 12" MG-122514 OR EQUAL. GRATING MUST SAFELY SUPPORT A UNIFORM LOAD OF 35 LB/FT² ON A 14'-0" SPAN AND CONCENTRATED LOAD OF 220 LB. AT CENTER LINE, WITH LESS THAN 2" DEFLECTION. ATTACH TO SUPPORT ANGLES WITH MANUF. RECOMMENDED TAMPER PROOF FASTENERS. FASTEN PANELS TOGETHER @ MIDPOINT OF SPAN. EACH SECTION TO BE FEMALE ONE SIDE, MALE OPPOSITE SIDE.
2. SEE NOTE 1 DWG. S-13 FOR GALV. DECK SECTION PROPERTIES.
3. ALL KEYS AT BASE OF RETAINING WALL ARE TO BE CUT SQUARE INTO SOUND ROCK.



KEY PLAN

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

STATE OF NEW YORK JAMES BRZEZINSKI No. 059291 LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Housing Units (3,4,5,& 6) Wing

FOUNDATION SECTIONS and DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
D.HODGKINS	NOV. 27, 1991	AS NOTED	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
R.J.Mc.			XXXXX

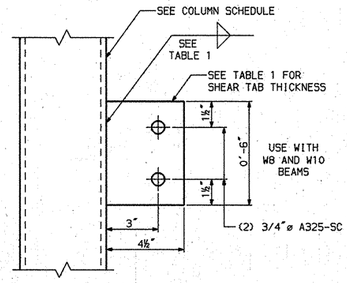
APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

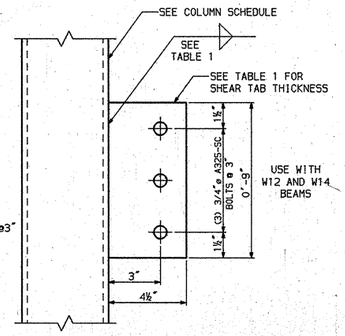
PROJECT NO. 38317-C

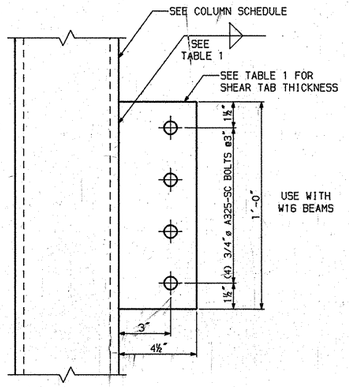
DRAWING NO. S-29

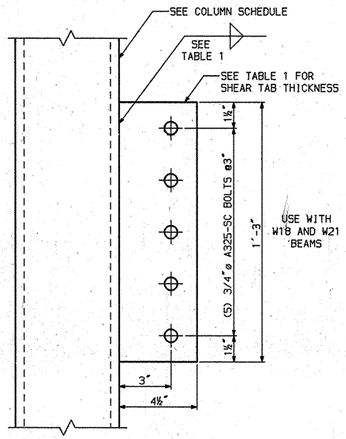
PLAN FILE NO. 91/206

27 NOV 1991 08:40:35 BOB.MCKINTY <USER24>STRUX-DSK1>U_38317









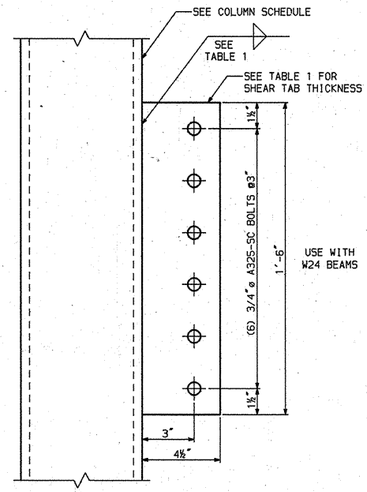
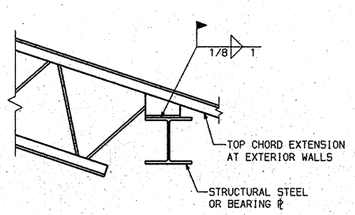


TABLE 1		
THICKNESS TUBE WALL	THICKNESS SHEAR TAB	SIZE FILLET WELD
1/4"	3/8"	5/16"
5/16"	1/2"	3/8"
3/8"	5/8"	1/2"
1/2"	3/4"	5/8"

SINGLE PLATE SHEAR CONNECTIONS WITH TUBULAR COLUMNS

TABLE 2			
NUMBER OF ROWS OF BRIDGING DISTANCES ARE SPAN LENGTHS			
SECTION NUMBER	1 ROW	2 ROW	3 ROW
#1	UP THRU 16'	OVER 16' THRU 24'	OVER 24' THRU 28'
#2	UP THRU 17'	OVER 17' THRU 25'	OVER 25' THRU 32'
#3	UP THRU 18'	OVER 18' THRU 26'	OVER 26' THRU 36'
#4	UP THRU 19'	OVER 19' THRU 28'	OVER 28' THRU 36'
#5	UP THRU 19'	OVER 19' THRU 29'	OVER 29' THRU 39'
#6	UP THRU 19'	OVER 19' THRU 29'	OVER 29' THRU 39'
#7	UP THRU 20'	OVER 20' THRU 33'	OVER 33' THRU 45'
#8	UP THRU 20'	OVER 20' THRU 33'	OVER 33' THRU 45'
#9	UP THRU 20'	OVER 20' THRU 33'	OVER 33' THRU 46'

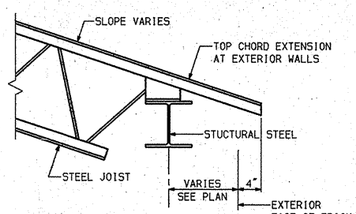
TABLE 3	
SIZES OF BRIDGING	
SIZE	MAXIMUM JOIST SPACING
L 1 x 1 x 7/64	5'-0"
L 1 1/4 x 1 1/4 x 7/64	6'-3"
L 1 1/2 x 1 1/2 x 7/64	7'-6"
L 1 3/4 x 1 3/4 x 1/8	8'-9"
L 2 x 2 x 1/8	10'-0"



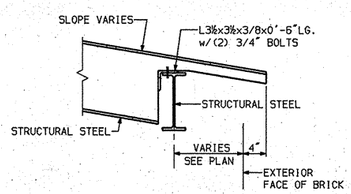
TYP. JOIST CONNECTION DETAIL 1 / S-30
SCALE: 1" = 1'-0"

TYPICAL CONTROL JOINT DETAIL 1 / S-1

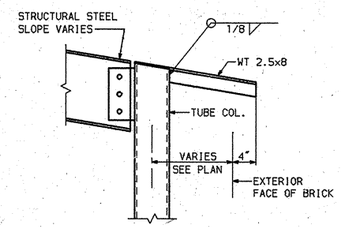
OPEN WEB STEEL JOIST DETAILS



TYP. OVERHANG DETAIL 3 / S-30
SCALE: 1" = 1'-0"



TYP. OVERHANG DETAIL 4 / S-30
SCALE: 1" = 1'-0"



TYP. OVERHANG DETAIL 5 / S-30
SCALE: 1" = 1'-0"

NOTES:

1. ROOF DESIGN LOADS
   - LIVE LOAD = 30 p.s.f.
   - DEAD LOAD = 15 p.s.f.
   - TOTAL LOAD = 45 p.s.f.
   - WIND LOAD = 20 p.s.f.
   - NET WIND UPLIFT = 17 p.s.f.
2. METAL DECK PROPERTIES
   - UNIT DEPTH = 1½"
   - GAUGE = 20
   - FLUTE SPACING = 6"
   - SECTION MODULUS (POS.) = 0.252 in³
   - SECTION MODULUS (NEG.) = 0.265 in³
   - MOMENT OF INERTIA = 0.213 in⁴
3. COORDINATE ROOF OPENING SIZES AND LOCATIONS WITH RESPECTIVE TRADES.
4. ALL ELEVATIONS OF STEEL ARE BASED ON AN ASSUMED 1st FLOOR ELEVATION OF 0'-0".
5. PROVIDE JOIST BRIDGING AS REQUIRED IN TABLES 2 & 3. HORIZONTAL BRIDGING AS INDICATED BY — — — — — — — — . DIAGONAL BRIDGING AS INDICATED BY >-<. PROVIDE A SINGLE LINE OF BOTTOM CHORD BRIDGING NEAR THE FIRST BOTTOM CHORD PANEL POINTS.

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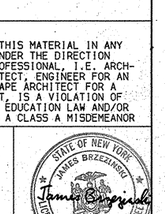


CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ALL BUILDING AREAS

TYPICAL STRUCTURAL SECTIONS AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

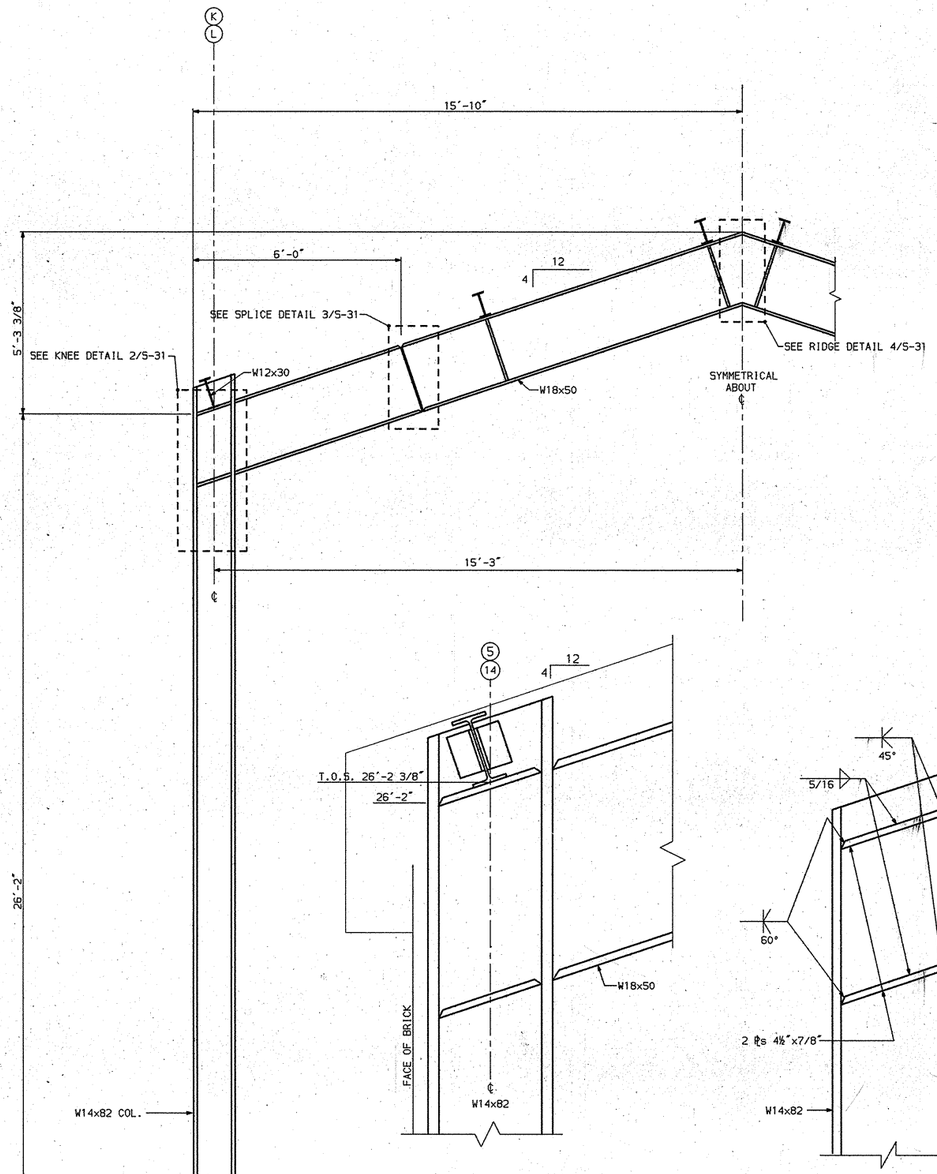
COMMISSIONER JOHN F. HUDACS
DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY
DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

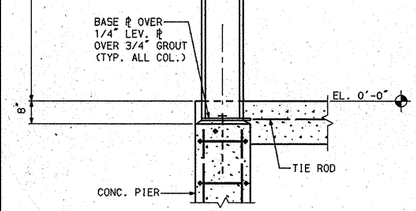
PROJECT NO. 38317-C
DRAWING NO. S-30
PLAN FILE NO. 91/207

JOHN.MCCAITIE 25 NOV 1991 15:52:27 «USERQU»STRUCTURE»38317-C.38317



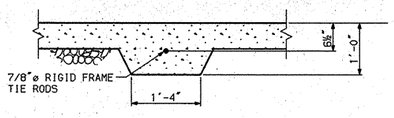
KNEE DETAIL

N.T.S.



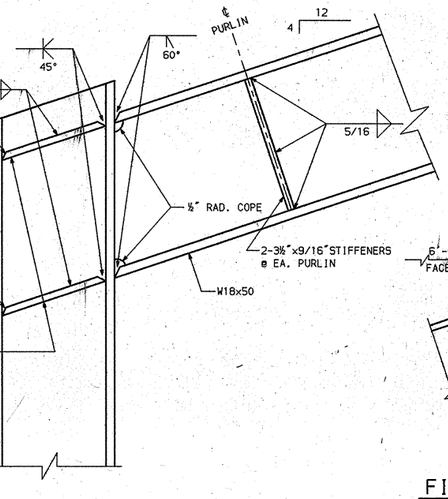
RIGID FRAME F-2 DETAIL 1 / S-31

SCALE: 1/2"= 1'-0"



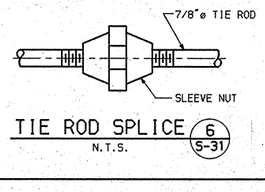
TIE ROD DETAIL 3 / S-31

SCALE: 3/4"= 1'-0"



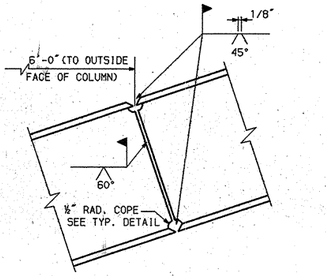
KNEE DETAIL 2 / S-31

SCALE: 1 1/2"=1'-0"



TIE ROD SPLICE 6 / S-31

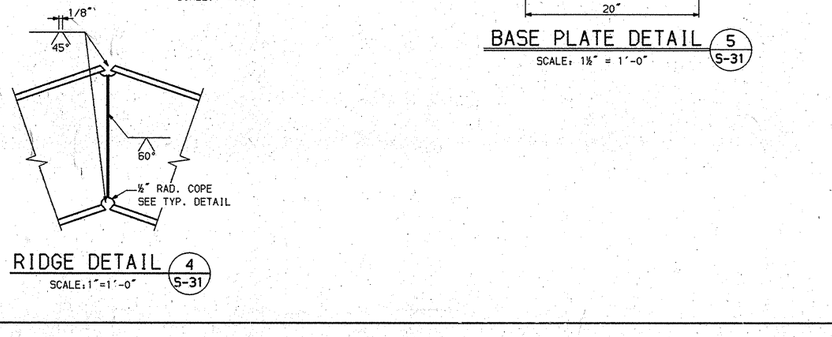
N.T.S.



FIELD SPLICE DETAIL 3 / S-31

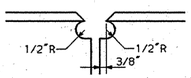
(2 REQ'D. PER FRAME)

SCALE: 1"=1'-0"

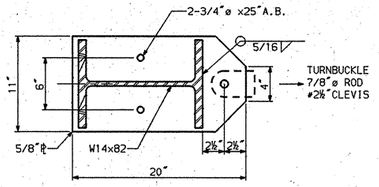


RIDGE DETAIL 4 / S-31

SCALE: 1"=1'-0"



TYPICAL COPE HOLE DETAIL



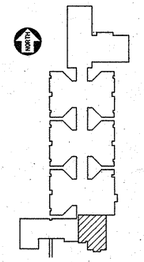
BASE PLATE DETAIL 5 / S-31

SCALE: 1½" = 1'-0"

NOTES:

RIGID FRAME NOTES:

1) SHOP DRAWINGS SHALL INDICATE WELD TYPE AND PROCESS, AWS JOINTS DESIGNATION NUMBER, JOINT PREPARATION AND BACKING BAR DETAILS.
2) ALL FULL PENETRATION WELDS SHALL BE ULTRASONIC TESTED IN THE SHOP FOR THEIR FULL LENGTH BEFORE STIFFENERS ARE INSTALLED.



KEY PLAN

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STATE OF NEW YORK JAMES BRZEZINSKI LICENSED PROFESSIONAL ENGINEER No. 059048

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ADMINISTRATION WING

RIGID FRAME DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
W.HELD	NOV. 27, 1991	XXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXX

APPROVED BY DIVISION FOR YOUTH

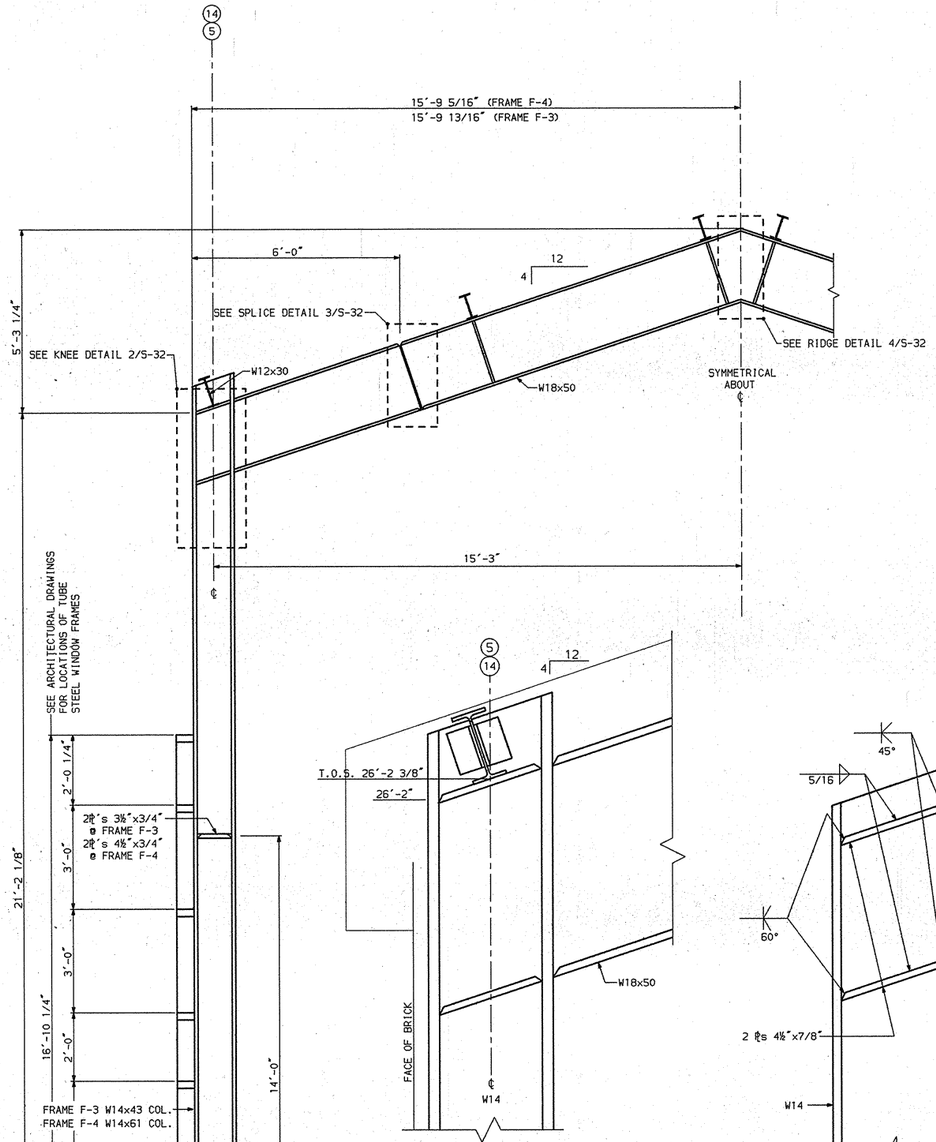
DATED NOV. 27, 1991 LETTER NO. 02634

PROJECT NO. 38317-C

DRAWING NO. S-31

PLAN FILE NO. 91/208

28 NOV 1991 13:59:06 JOHN.RICHISE \\OGSDOM\DFS\PROJECTS\38317

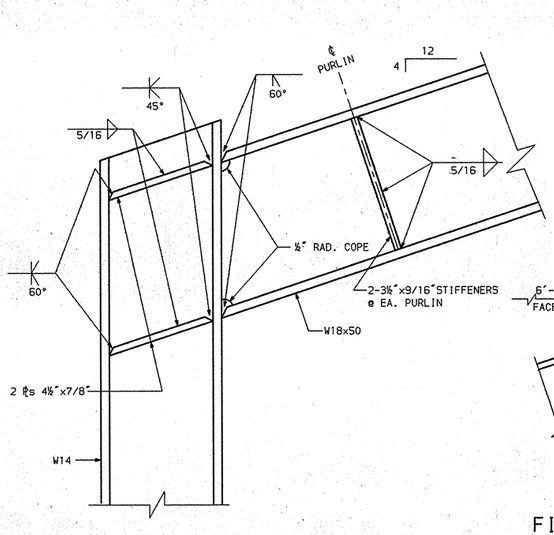


RIGID FRAME F-3 & F-4 DETAIL 1/S-32

SCALE: 1/2"= 1'-0"

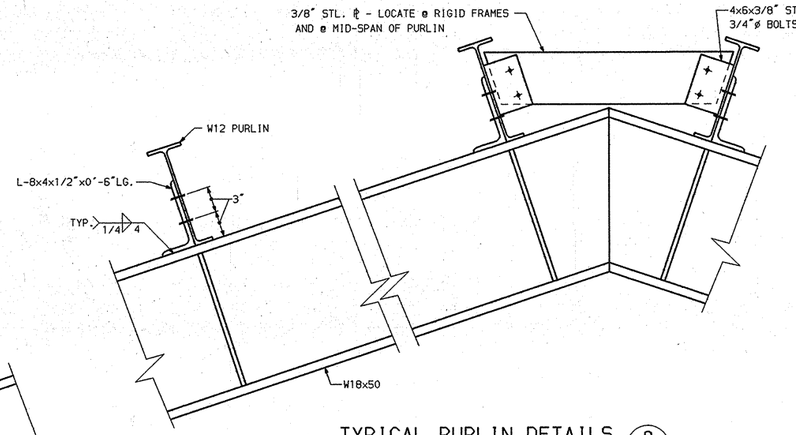
KNEE DETAIL

N.T.S.



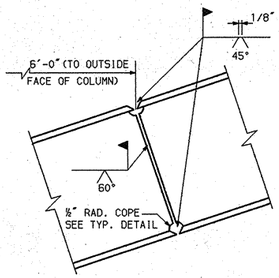
KNEE DETAIL 2/S-32

SCALE:1 1/2"=1'-0"



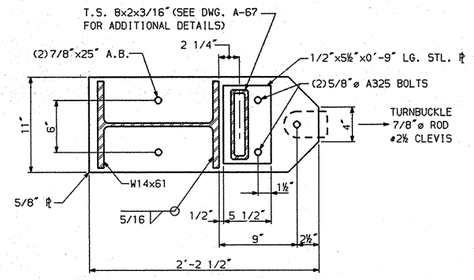
TYPICAL PURLIN DETAILS 9/S-32

SCALE:1 1/2"=1'-0"



FIELD SPLICE DETAIL (2 REQ'D. PER FRAME) 3/S-32

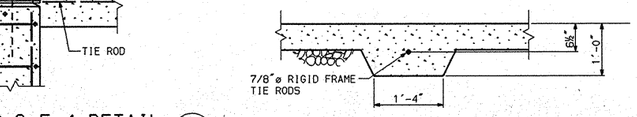
SCALE:1"=1'-0"



BASE PLATE DETAIL 8/S-32

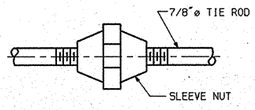
SCALE: 1½" = 1'-0"

FOR FRAME F-4 ON COL.LINE 11 ON DRAWINGS S-15 & S-19



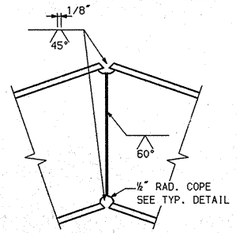
TIE ROD DETAIL 7/S-32

SCALE: 3/4"= 1'-0"



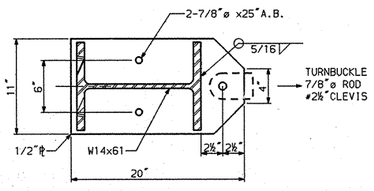
TIE ROD SPLICE 6/S-32

N.T.S.



RIDGE DETAIL 4/S-32

SCALE:1"=1'-0"



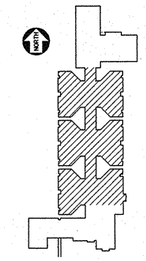
BASE PLATE DETAIL 5/S-32

SCALE: 1½" = 1'-0"

NOTES:

RIGID FRAME NOTES:

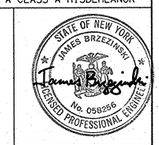
1. SHOP DRAWINGS SHALL INDICATE WELD TYPE AND PROCESS, AWS JOINTS DESIGNATION NUMBER, JOINT PREPARATION AND BACKING BAR DETAILS.
2. ALL FULL PENETRATION WELDS SHALL BE ULTRASONIC TESTED IN THE SHOP FOR THEIR FULL LENGTH BEFORE STIFFENERS ARE INSTALLED.
3. PROVIDE 5/8"ø SAG RODS AT MID SPAN OF ALL W12 PURLINS.



KEY PLAN

ADDENDUM DRAWING 12/30/91
REPLACES DRAWING S-32 DATED NOV. 27,1991

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR



CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ALL HOUSING UNITS

RIGID FRAME DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
W.HELD	DEC. 30, 1991	XXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXX

APPROVED BY DIVISION FOR YOUTH

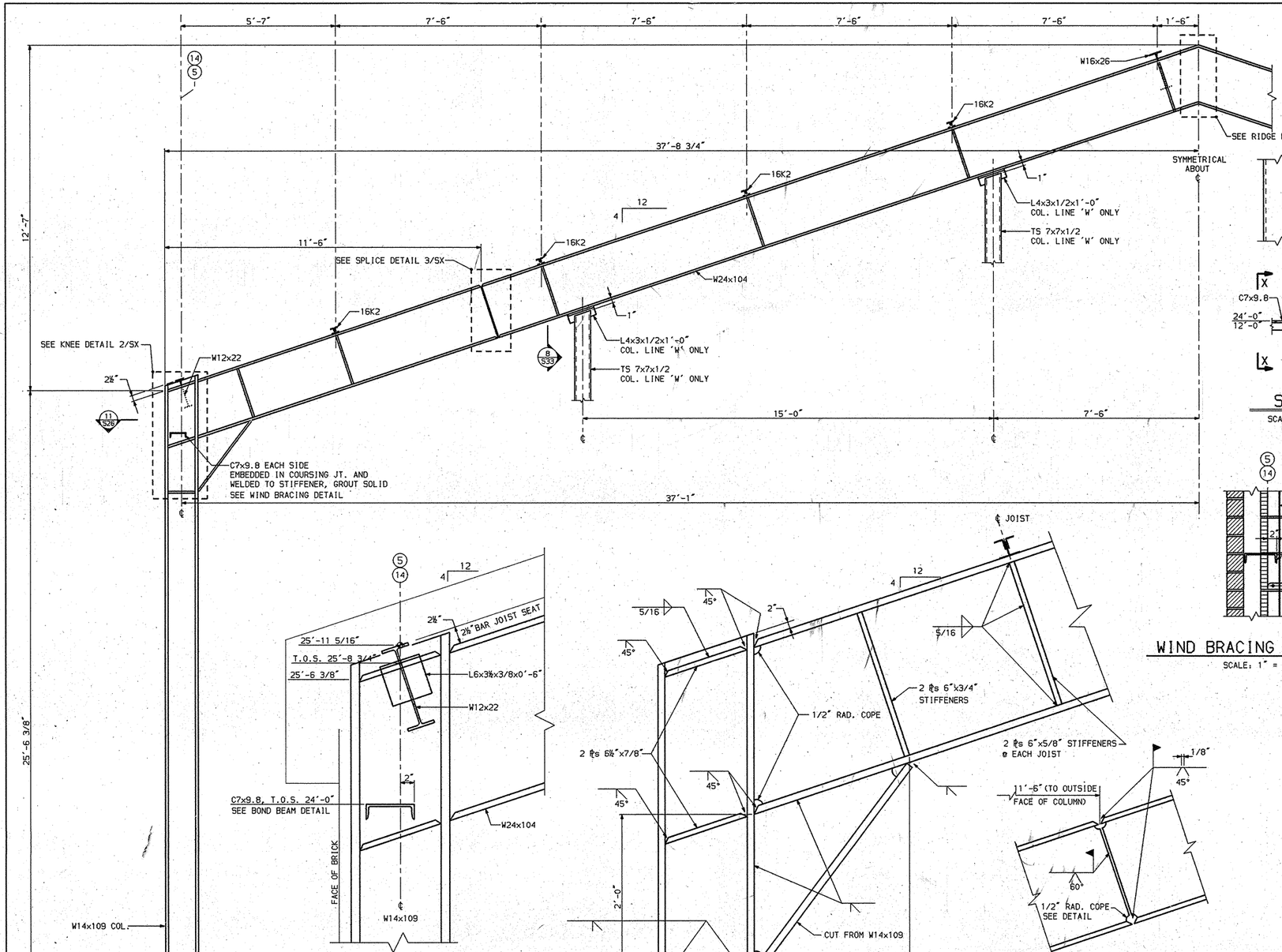
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. S-32

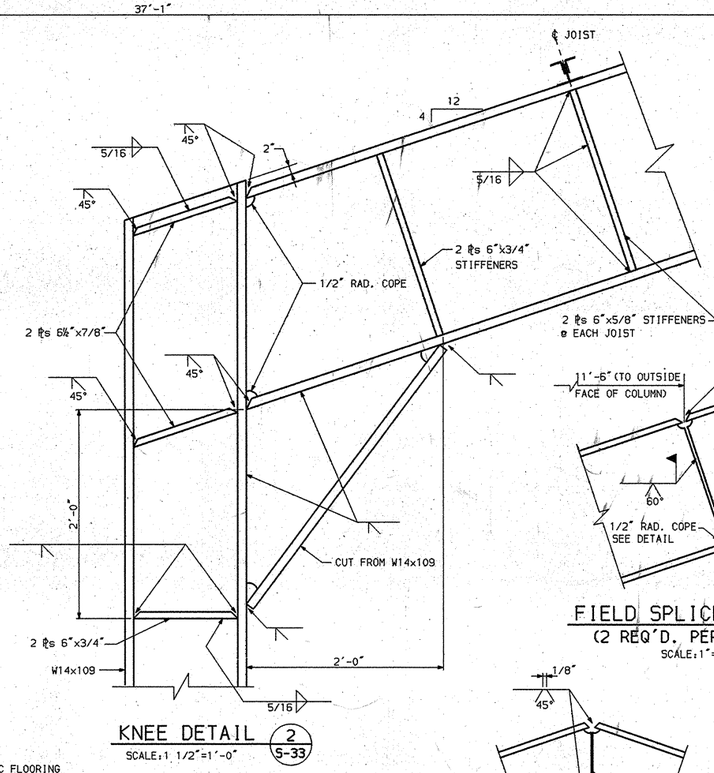
PLAN FILE NO. 91/209

JOHN_MCCAISE 31 DEC 1991 11:50:57 \\USERDATA-STN\USER1\S_38317

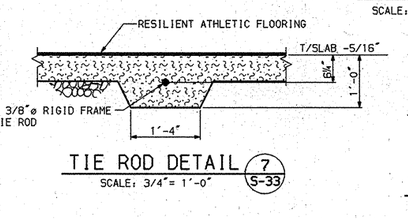


RIGID FRAME F-1 DETAIL 1 S-33
SCALE: 1/2"= 1'-0"

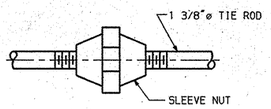
KNEE DETAIL
N.T.S.



KNEE DETAIL 2 S-33
SCALE: 1 1/2"=1'-0"

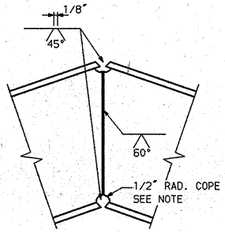


TIE ROD DETAIL 7 S-33
SCALE: 3/4"= 1'-0"

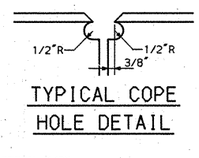


TIE ROD SPLICE 6 S-33
N.T.S.

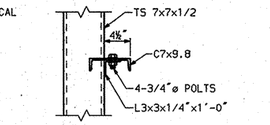
FIELD SPLICE DETAIL 3 S-33
(2 REQ'D. PER FRAME)
SCALE:1"=1'-0"



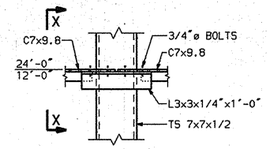
RIDGE DETAIL 4 S-33
SCALE:1"=1'-0"



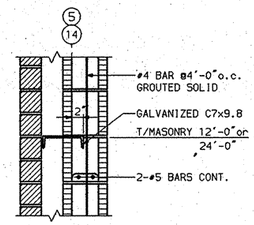
TYPICAL COPE HOLE DETAIL



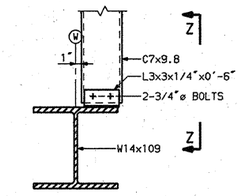
VIEW X-X

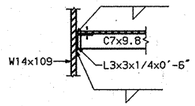


SECTION 10 S-33
SCALE: 1" = 1'-0"



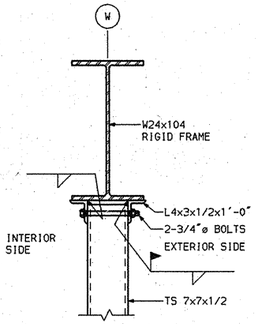
WIND BRACING DETAIL 9 S-33
SCALE: 1" = 1'-0"



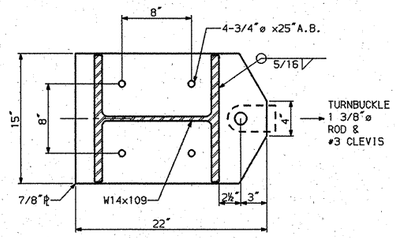


VIEW Z-Z

SECTION 11 S-33
SCALE: 1" = 1'-0"



ENDWALL DETAIL 8 S-33
SCALE: 1" = 1'-0"



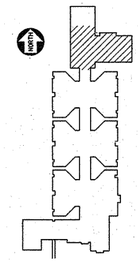
BASE PLATE DETAIL 5 S-33
SCALE: 1½" = 1'-0"

NOTES:

RIGID FRAME NOTES:

1) SHOP DRAWINGS SHALL INDICATE WELD TYPE AND PROCESS, AWS JOINTS DESIGNATION NUMBER, JOINT PREPARATION AND BACKING BAR DETAILS.

2) ALL FULL PENETRATION WELDS SHALL BE ULTRASONIC TESTED IN THE SHOP FOR THEIR FULL LENGTH BEFORE STIFFENERS ARE INSTALLED.



KEY PLAN

WARNING
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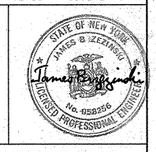


CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Gymnasium & Vocational Wing

RIGID FRAME DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

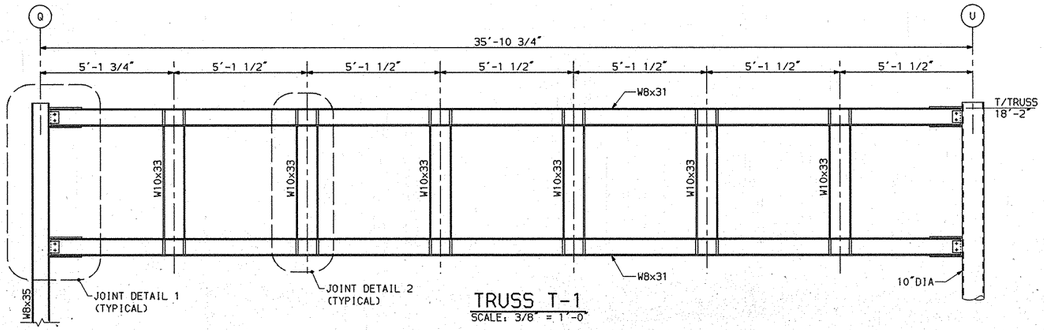
DESIGNED BY	DATE	SCALE	APPROVED
W.HELD	NOV. 27, 1991	XXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXX

APPROVED BY DIVISION FOR YOUTH

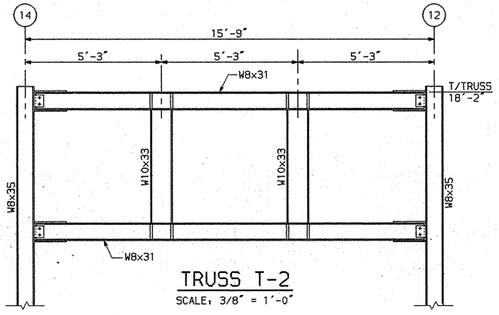
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	S-33
	PLAN FILE NO. 91/210

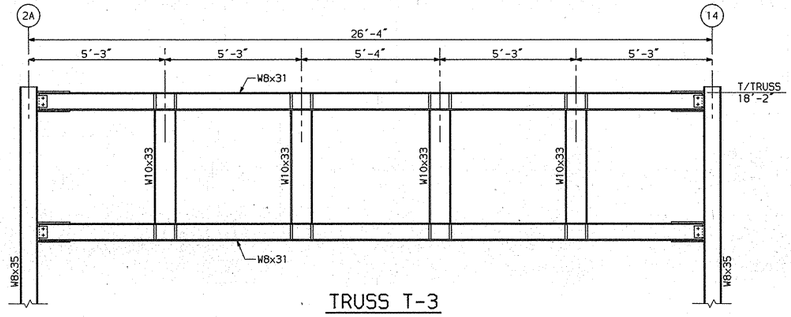
26 NOV 1991 13:09:17 JOHN.WISCAISE -USER=JOHN-STRA=SSR1=0.38317



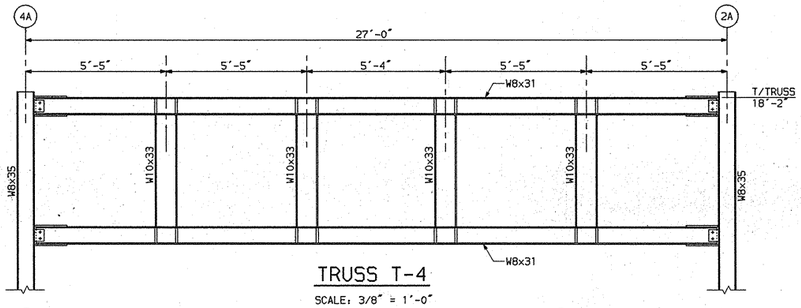
TRUSS T-1
SCALE: 3/8" = 1'-0"



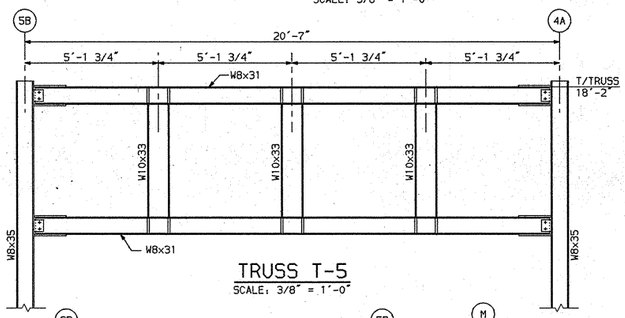
TRUSS T-2
SCALE: 3/8" = 1'-0"



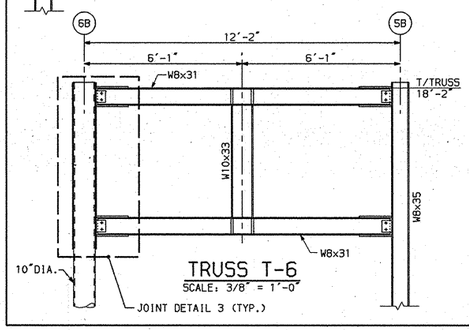
TRUSS T-3
SCALE: 3/8" = 1'-0"



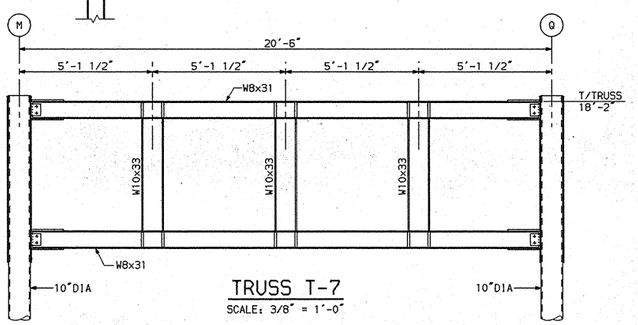
TRUSS T-4
SCALE: 3/8" = 1'-0"



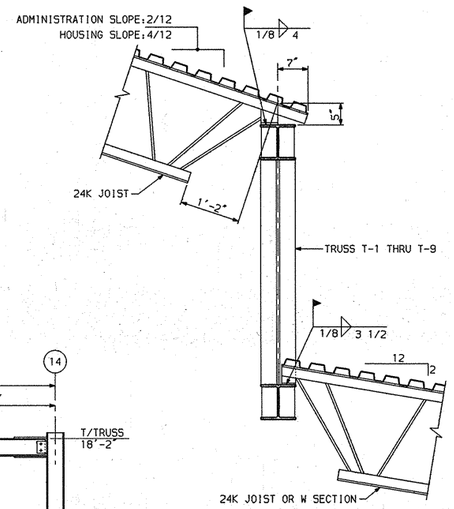
TRUSS T-5
SCALE: 3/8" = 1'-0"



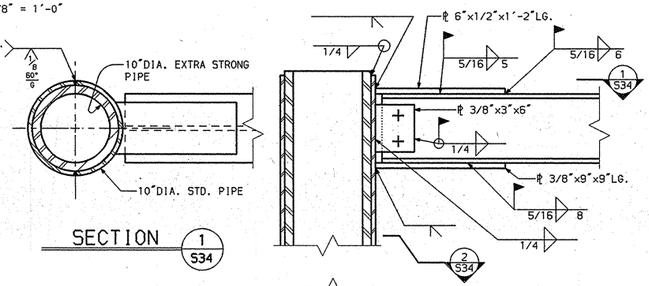
TRUSS T-6
SCALE: 3/8" = 1'-0"



TRUSS T-7
SCALE: 3/8" = 1'-0"

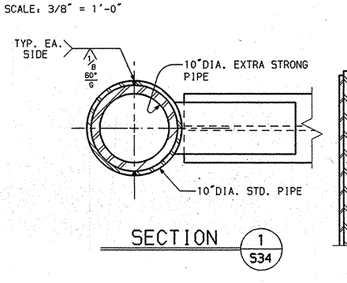


TYP. JOIST/TRUSS DETAIL
SCALE:3/4"=1'-0"
4 / S34

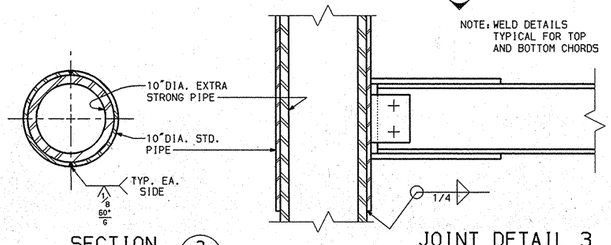


NOTE: WELD DETAILS TYPICAL FOR TOP AND BOTTOM CHORDS.

JOINT DETAIL 1
SCALE: 1½" = 1'-0"



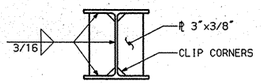
SECTION
1 / S34



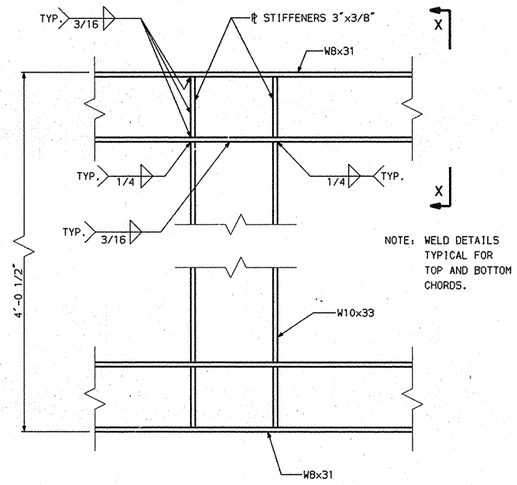
SECTION
2 / S34

NOTE: WELD DETAILS TYPICAL FOR TOP AND BOTTOM CHORDS

JOINT DETAIL 3
SCALE: 1½" = 1'-0"



VIEW X-X

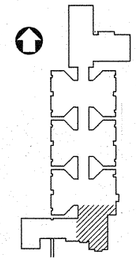


NOTE: WELD DETAILS TYPICAL FOR TOP AND BOTTOM CHORDS.

JOINT DETAIL 2
SCALE: 1½" = 1'-0"

NOTES

1. JOINT DETAIL 3 & JOINT/TRUSS DETAIL 4 ALSO APPLY TO TRUSSES T-8, T-8A AND T-9 ON DRAWING S-35.



KEY PLAN

ADDENDUM DWG. - 12/30/91
REPLACES DWG. No.S-34 DATED 11/27/91

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ADMINISTRATION WING

TRUSS DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

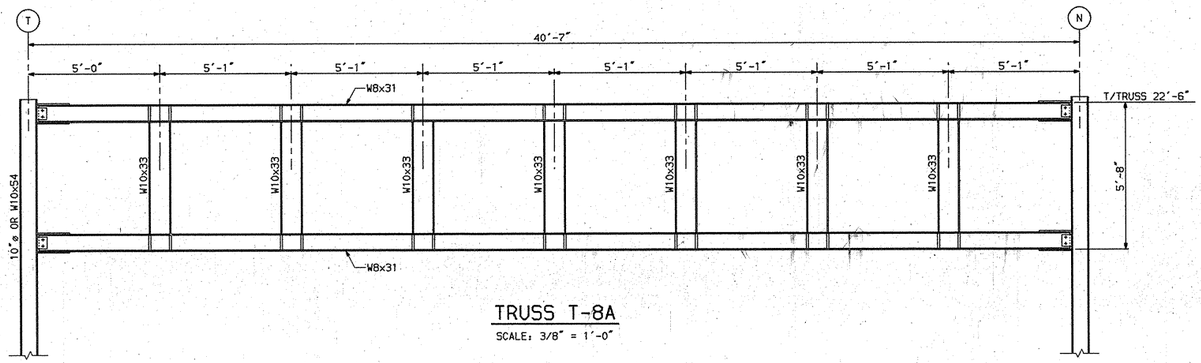
DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	DEC. 30, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

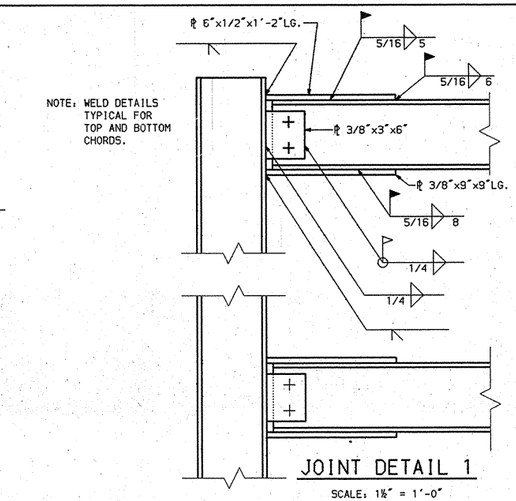
PROJECT NO.	DRAWING NO.
38317-C	S-34
	PLAN FILE NO. 91/211

BOD:MCKINTY 31 DEC 1991 11:45:26 <USER$A-STRA-5561>D:38317



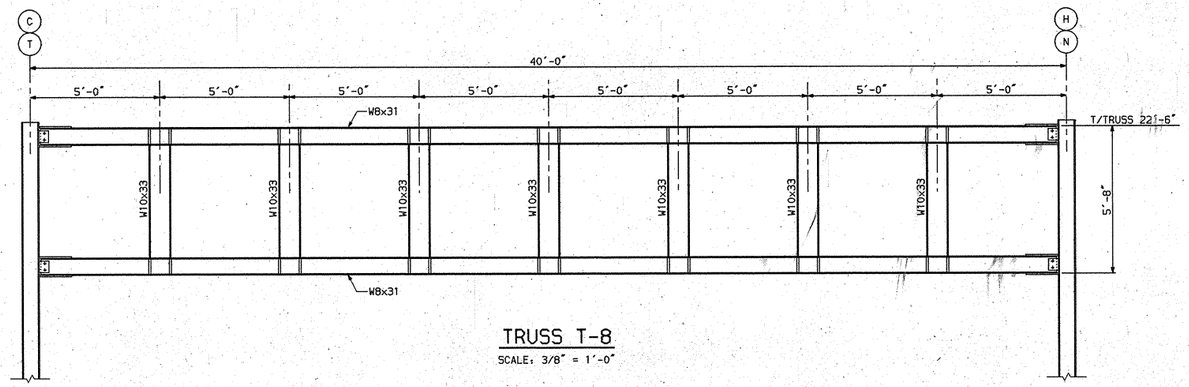
TRUSS T-8A

SCALE: 3/8" = 1'-0"



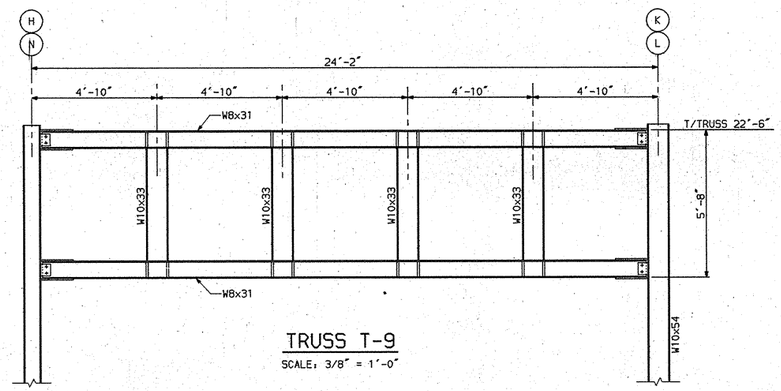
JOINT DETAIL 1

SCALE: 1½" = 1'-0"



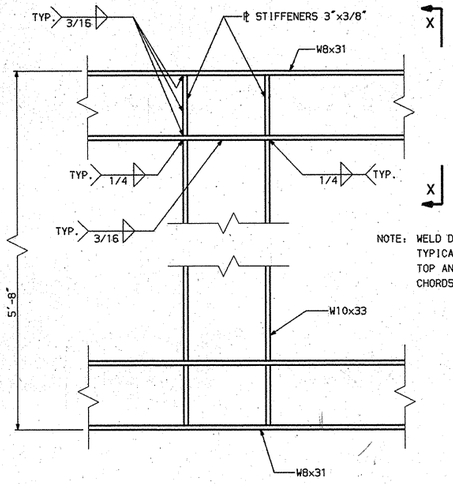
TRUSS T-8

SCALE: 3/8" = 1'-0"



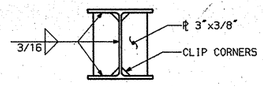
TRUSS T-9

SCALE: 3/8" = 1'-0"

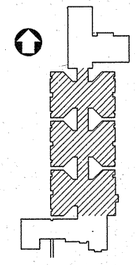


JOINT DETAIL 2

SCALE: 1½" = 1'-0"

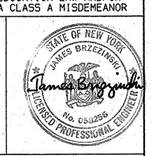


VIEW X-X



KEY PLAN

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, i.e. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR



CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ALL HOUSING UNITS & HEALTH CLINIC

TRUSS DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

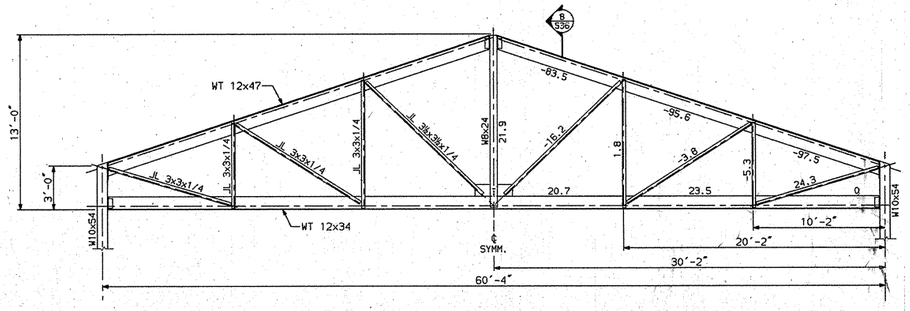
DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH

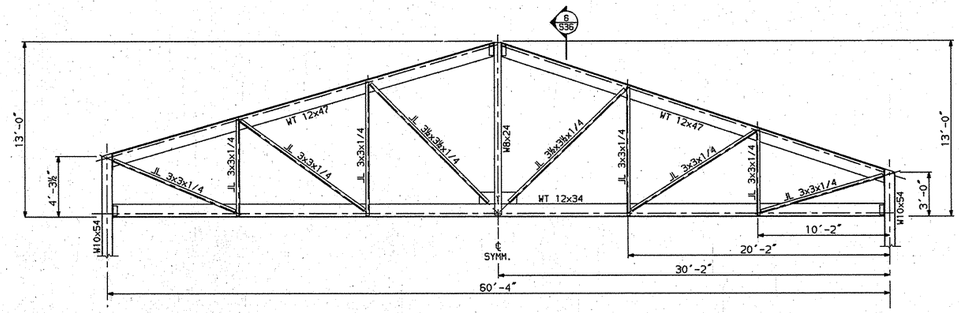
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	S-35
	PLAN FILE NO. 91/2/2

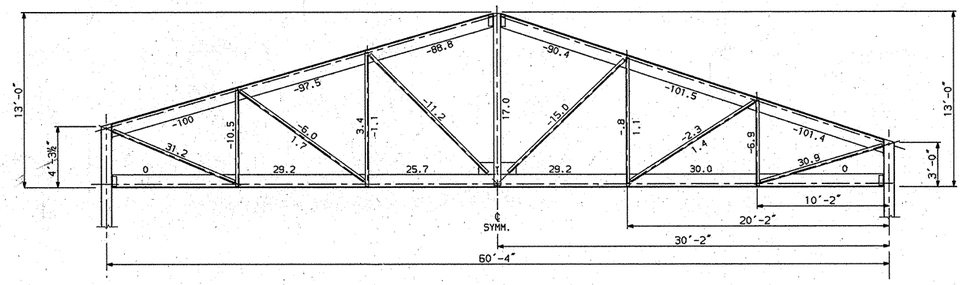
JOHN.MCCAISE 26 NOV 1991 13:41:13 <USER2>S-STRU-S5E1<S-38317



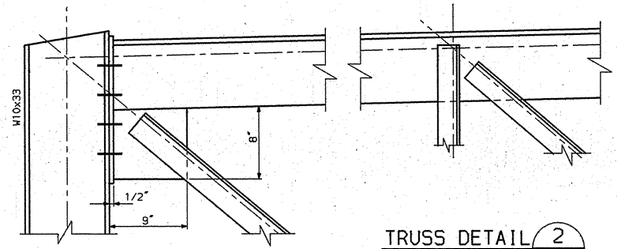
TRUSS T-10



TRUSS T-10A

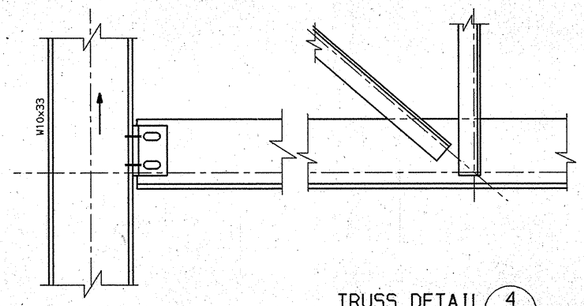


TRUSS T-10A LOADING DIAGRAM

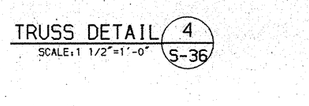


TRUSS DETAIL 1
SCALE: 1 1/2"=1'-0" S-36

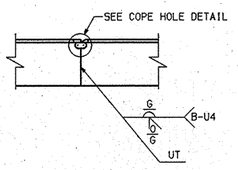
TRUSS DETAIL 2
SCALE: 1 1/2"=1'-0" S-36



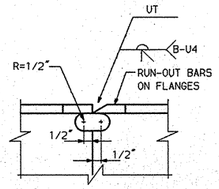
TRUSS DETAIL 3
SCALE: 1 1/2"=1'-0" S-36



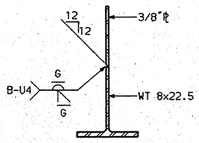
TRUSS DETAIL 4
SCALE: 1 1/2"=1'-0" S-36



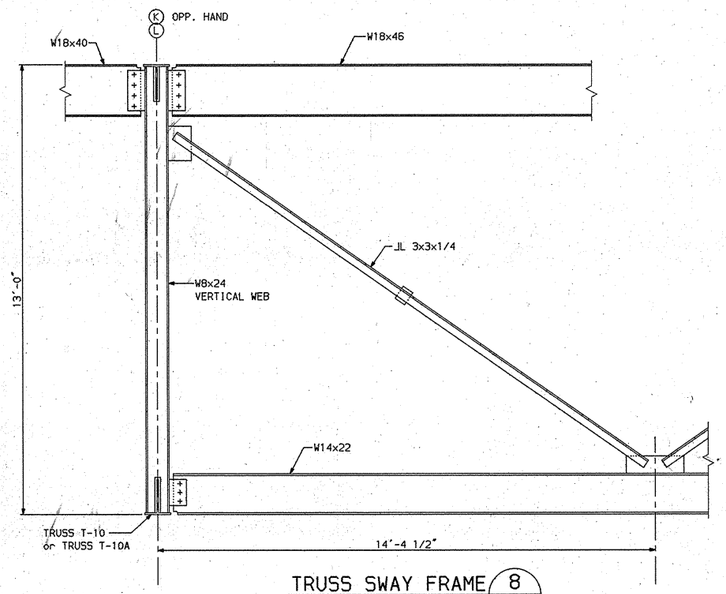
TYP. SPLICE DETAIL 5
SCALE: 1"=1'-0" S-36



COPE HOLE DETAIL 6
SCALE: 3"=1'-0" S-36



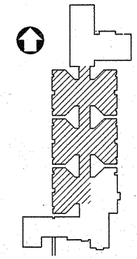
GUSSET ℄ / TEE STEM DETAIL 7
SCALE: 1 1/2"=1'-0" S-36



TRUSS SWAY FRAME 8
S-36

NOTES

1. TRUSS VERTICAL AND DIAGONAL WEB MEMBERS ARE 2 STEEL ANGLES, UNLESS NOTED OTHERWISE.
2. LOADS INDICATED ON TRUSS T-1 ARE IN KIPS
   + = TENSION FORCE
   - = COMPRESSION FORCE
3. UT = ULTRASONIC TEST.
4. PROVIDE STITCH PLATES AT MIDPOINT OF TRUSS WEB MEMBERS.



KEY PLAN

STATE OF NEW YORK
JAMES BRZEZINSKI
LICENSED PROFESSIONAL ENGINEER
No. 059259

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CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

ALL HOUSING UNITS

TRUSS DETAILS and HIGH ROOF BRACING PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

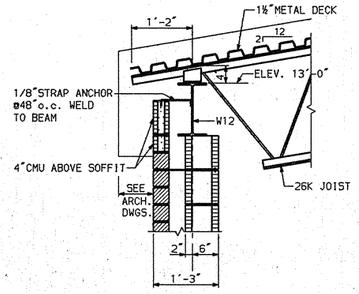
DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	NOV. 27, 1991	XXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

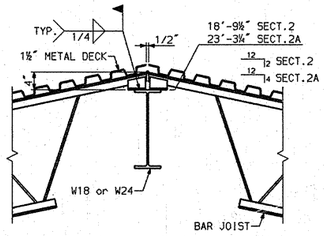
APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C
DRAWING NO. S-36
PLAN FILE NO. 91/2.13

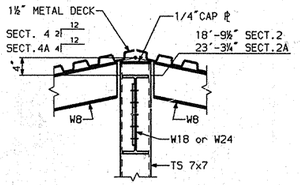
26 NOV 1991 13:27:12 JOHN.MCHASE <DGSPGM>STRM-DGS1V0.38317



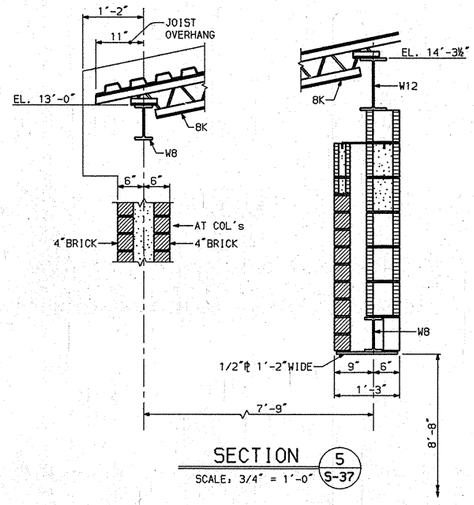
SECTION 1 — S-37
SCALE: 3/4" = 1'-0"



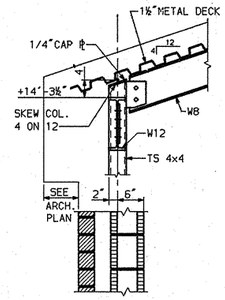
SECTION 2 — 2A — 537
SCALE: 3/4" = 1'-0"



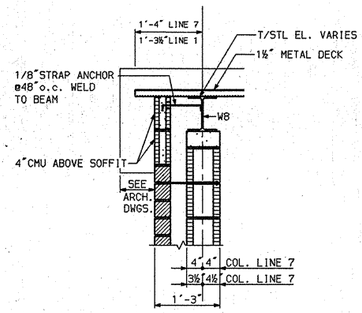
SECTION 4 — 4A — 537
SCALE: 3/4" = 1'-0"



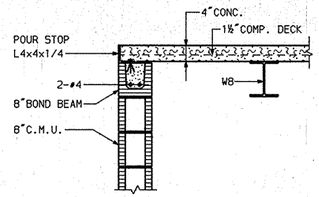
SECTION 5 — S-37
SCALE: 3/4" = 1'-0"



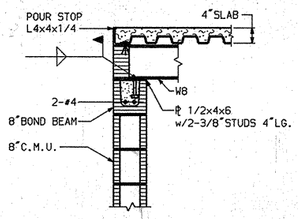
SECTION 6 — S-27
SCALE: 3/4" = 1'-0"



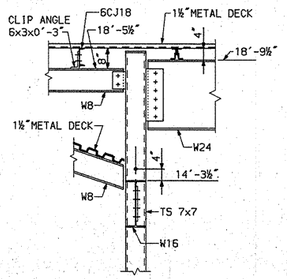
SECTION 8 — S-37
SCALE: 3/4" = 1'-0"



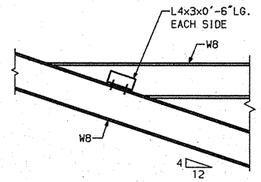
SECTION 11 — S-37
SCALE: 3/4" = 1'-0"



SECTION 12 — S-37
SCALE: 3/4" = 1'-0"



SECTION 9 — S-37
SCALE: 1/2" = 1'-0"



SECTION 10 — S-37
SCALE: 3/4" = 1'-0"

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STATE OF NEW YORK — JAMES BRZEZINSKI — No. 058256 — LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Warehouse & Kitchen Wing

STRUCTURAL SECTIONS.

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

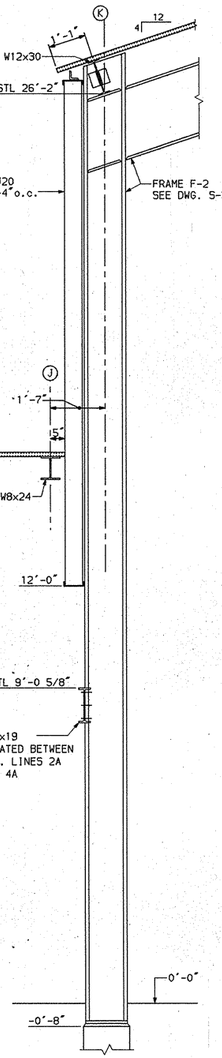
COMMISSIONER JOHN F. HUDACS
DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY
DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
R. DOYLE	NOV. 27, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

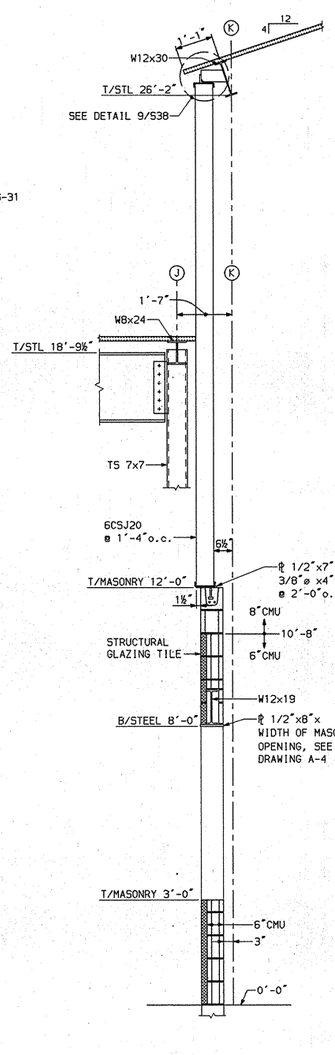
APPROVED BY: DIVISION FOR YOUTH
DATED: NOV. 27, 1991 LETTER NO.: 026344

PROJECT NO. 38317-C
DRAWING NO. S-37
PLAN FILE NO. 91/214

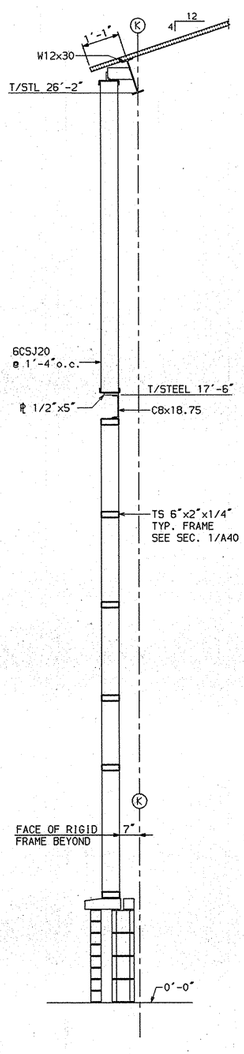
JOHN.MCCAISE 27 NOV 1991 10:35:13 <USER2A>STRUCSOO1#2.38317



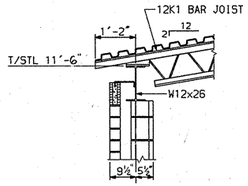
SECTION 1 S-38



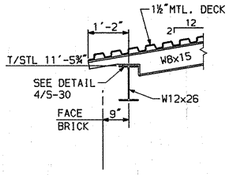
SECTION 2 S-38



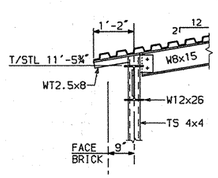
SECTION 3 S-38



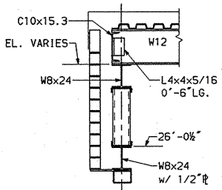
SECTION 4 S-38

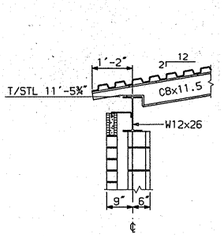


SECTION 5A S-38

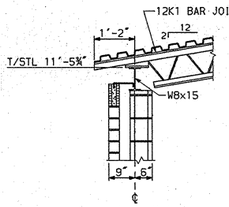


SECTION 5 S-38

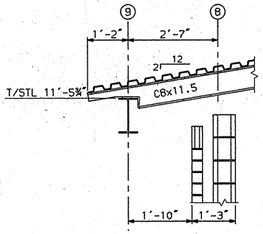




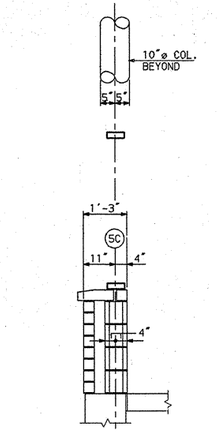
SECTION 6 S-38



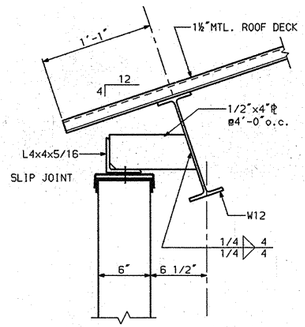
SECTION 7 S-38



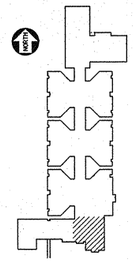
SECTION 8 S-38



SECTION 10 S-38



SECTION 9 S-38



KEY PLAN

ADDENDUM DWG. - 12/30/91
NEW DRAWING

WARNING
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CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

Administration Wing

STRUCTURAL SECTIONS AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

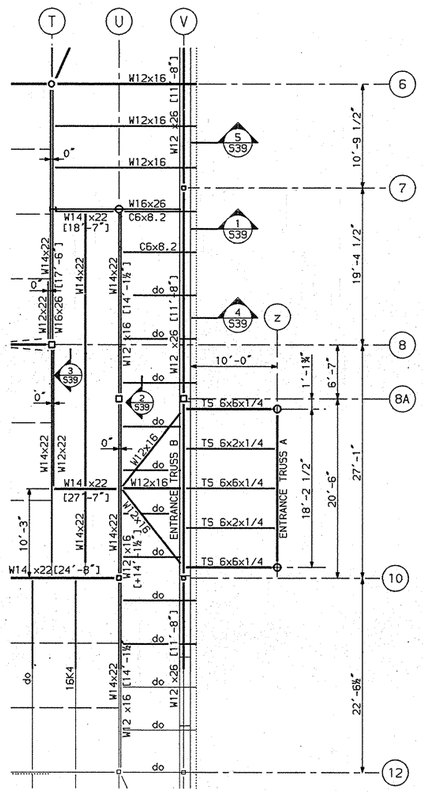
DESIGNED BY	DATE	SCALE	APPROVED
R. DOYLE	NOV. 27, 1991	XXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

APPROVED BY DIVISION FOR YOUTH

DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	S-38
	PLAN FILE NO. 91/215

JOHN.HICAISE 02 JAN 1992 10:22:50 <USER2>STRU-SS01A1.38317


T
U
V
W12x16 [11'-8"]
W12x16
W16x26
W14x22 [18'-7"]
C6x8.2
C6x8.2
W14x22 [17'-6"]
W16x26 [14'-1½"]
W12x26
W14x22 [27'-7"]
W12x16
W14x22 [24'-8"]
W12x16 [14'-1½"]
W12x26
W12x26
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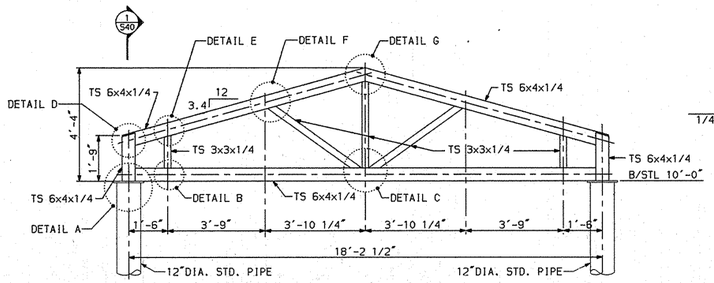
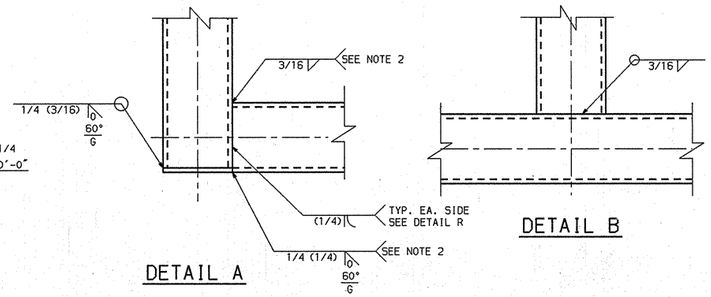


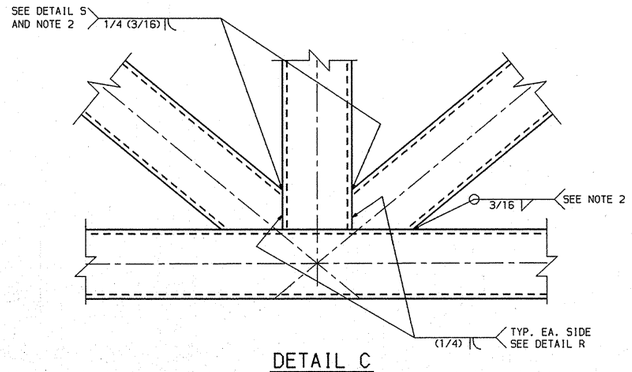
ENTRANCE TRUSS A

SCALE:3/8"=1'-0"

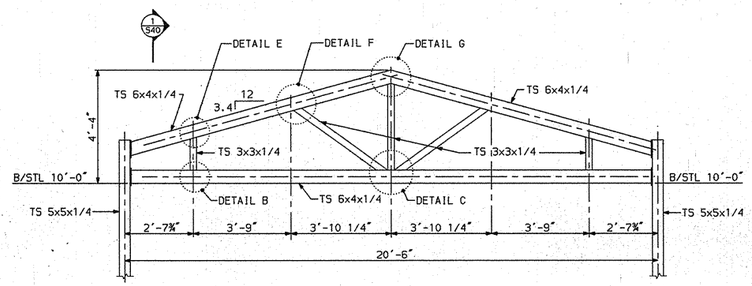


DETAIL A

DETAIL B

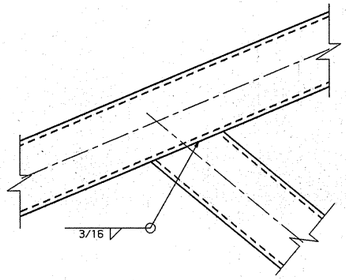


DETAIL C

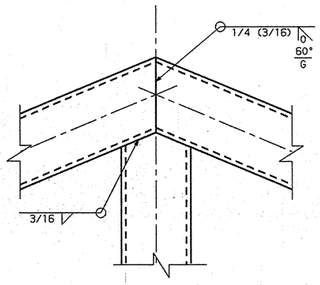


ENTRANCE TRUSS B

SCALE:3/8"=1'-0"



DETAIL F



DETAIL G

NOTES

1. EXCEPT AS OTHERWISE DETAILED ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH SECTION 10, TUBULAR STRUCTURES OF THE "STRUCTURAL WELDING CODE - STEEL" A.W.S. D1.1-90 PUBLISHED BY THE AMERICAN WELDING SOCIETY.
2. JOINT PREPARATION FOR CORNERS SHALL PROVIDE A SMOOTH TRANSITION BETWEEN WELDS, WITH CORNERS FULLY BUILT UP. FOR SHOP WELDS: WELDS AT RIGHT ANGLES TO THE PLANE OF THE FRAME SHALL BE CARRIED CONTINUOUSLY AROUND THE CORNERS, WITH ALL STARTS AND STOPS IN THE FLARE BEVEL WELDS ON THE TRUSS FACES.
   FOR FIELD WELDS: WELDS ON THE TOP AND BOTTOM OF THE BEAMS SHALL BE CARRIED CONTINUOUSLY AROUND THE CORNERS, WITH ALL STARTS AND STOPS IN THE VERTICAL WELDS.
3. WELDING SHALL BE DONE WITH E70XX ELECTRODES. WELDERS SHALL BE QUALIFIED IN THE 6GR POSITION
4. SUBMIT, FOR REVIEW AND APPROVAL, WELDING PROCEDURE SPECIFICATIONS FOR ALL JOINTS.
5. BEFORE START OF PRODUCTION WELDING PREPARE A FULL SIZE MOCK-UP OF THE CONNECTIONS SHOWN IN DETAIL C. THE WELDS ON ONE SIDE OF THE MOCK-UP SHALL BE COMPLETED TO 3/4" BEYOND THE CENTER LINE OF THE MOCK-UP. THE WELDS ON THE OTHER SIDE SHALL BE TACK WELDED ONLY. AFTER COMPLETION OF THE WELDING, SAW CUT THE MOCK-UP ON THE CENTER LINE, AND POLISH AND ETCH THE ENDS OF THE CUT WELDS.

ADDENDUM DRAWING 12/30/91
NEW DRAWING

WARNING
THE ALTERATION OF THIS MATERIAL IN any WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Health Clinic / Gymnasium / Vocational

STRUCTURAL SECTIONS AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

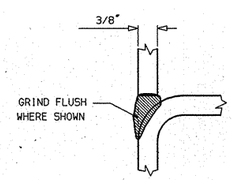
DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	DEC. 30, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
R.J.Mc			XXXXX

APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

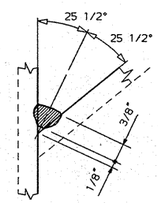
PROJECT NO. 38317-C

DRAWING NO. S-40

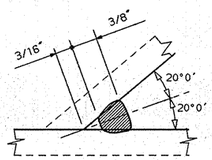
PLAN FILE NO. 91/217



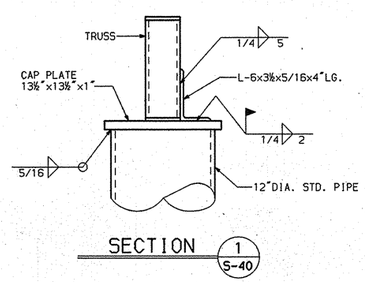
DETAIL R



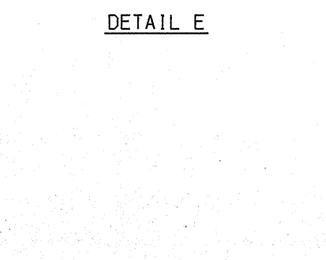
DETAIL S



DETAIL T

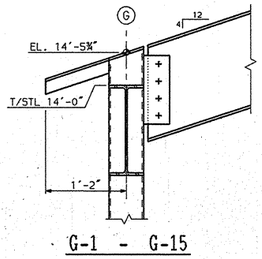


SECTION 1 S-40

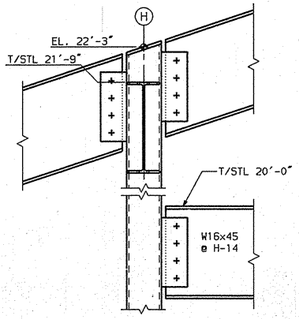


KEY PLAN

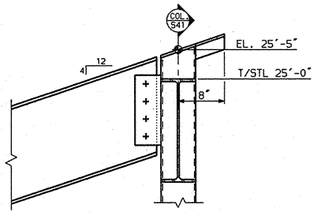
JOHN.NICAISE 31 DEC 1991 11:52:31 <USER24>STR24-S5014<1.38317



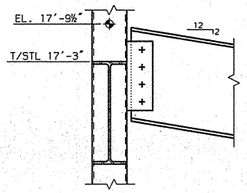
G-1 - G-15



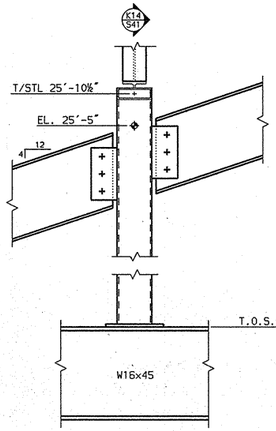
H-14 & H-15



K-1 - K-13



K-1 - K-4



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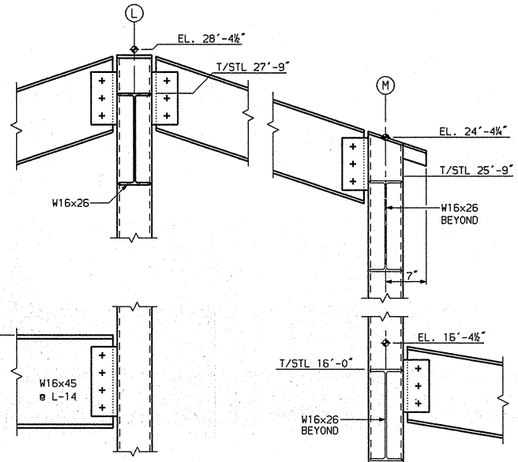
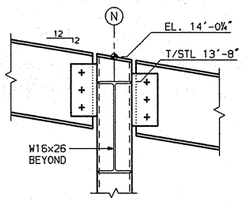


L-14 & L-15

M-15



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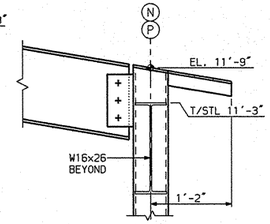
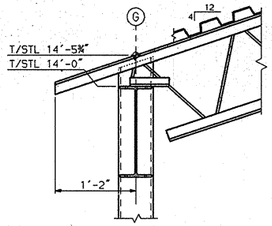


N-1 - N-4 & P-15



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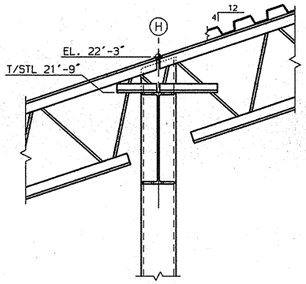

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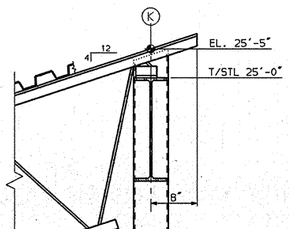
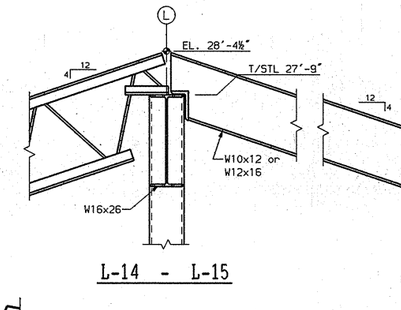


K-1 - K-14

K-1 - K-4



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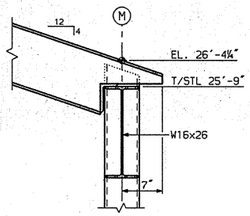

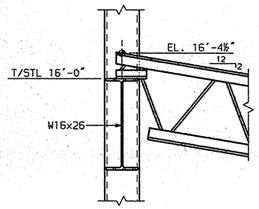

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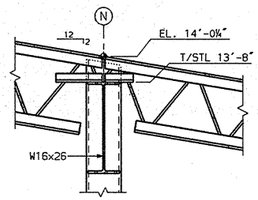

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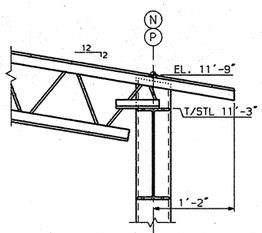
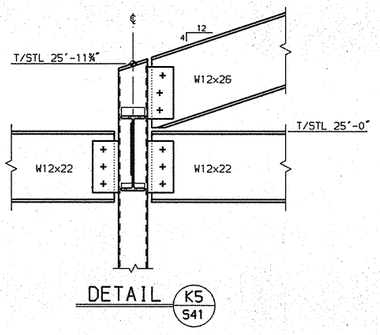
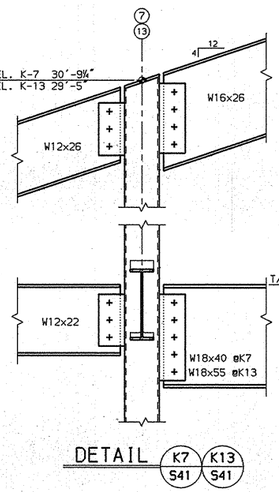


N-1 - N-4
P-14 - P-15

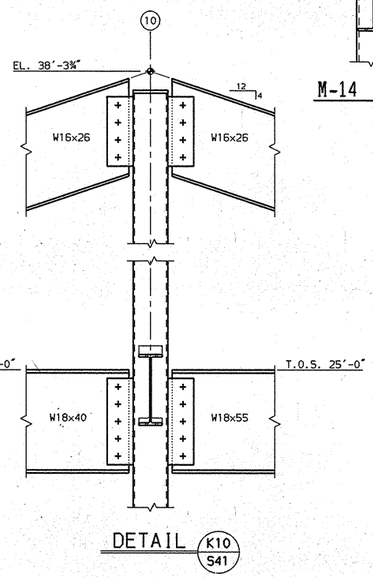


DETAIL K5 / S41



DETAIL K7 / S41 K13 / S41

K-13 OPP. HAND



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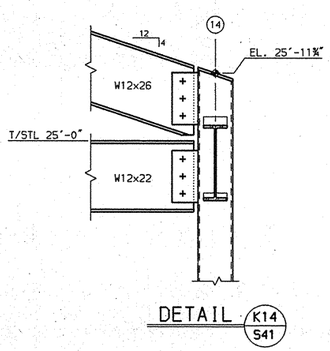
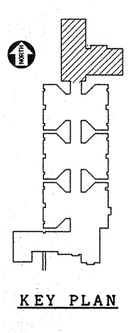


DETAIL K14 / S41



KEY PLAN

NOTES:

1. ◆ - DENOTES ELEVATION ABOVE FINISHED FLOOR AND AT THE COLUMN LINE, + or - 1/8".
2. STEEL BAR JOISTS SHALL BEAR A MINIMUM OF 2½" ON STEEL AND A MINIMUM OF 4" WHEN BEARING ON CONCRETE OR MASONRY.

ADDENDUM DRAWING 12/30/91
NEW DRAWING

STATE OF NEW YORK JAMES BRZEZINSKI No. 058235 LICENSED PROFESSIONAL ENGINEER

WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.

CONSTRUCTION

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RESIDENTIAL FACILITY

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Gymnasium & Vocational Wing

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STATE OF NEW YORK EXECUTIVE DEPARTMENT
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OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

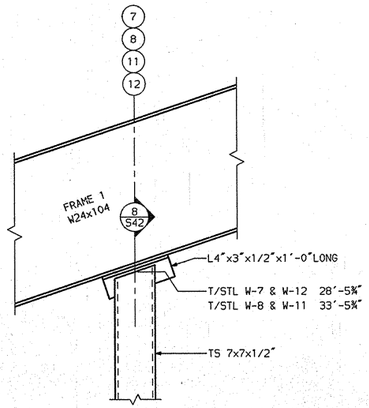
DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
W. HELD	DEC. 30, 1991	1" = 1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

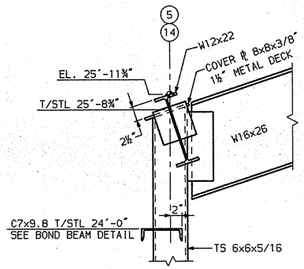
APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	S-41
	PLAN FILE NO. 91/218

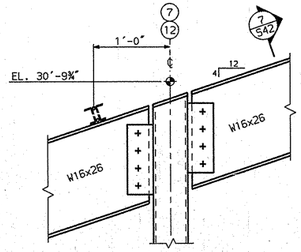
JOHN.NICHIDE 31 DEC 1991 13:18:59 =USER2A=STRUCTS=S41=XL.38317



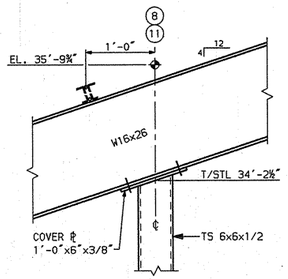
W-7 & W-12
W-8 & W-11



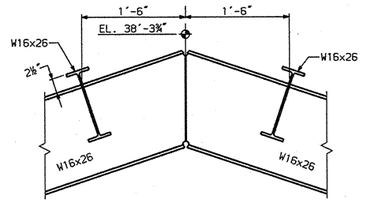
N5 & P5
N14 & P14 OPP. HAND



N7 & P7
N12 & P12 OPP. HAND

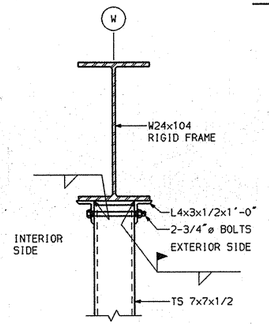


N7 & P7
N12 & P12 OPP. HAND

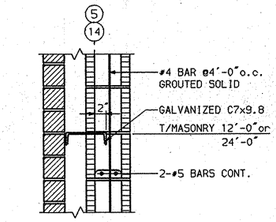


SPLICE DETAIL

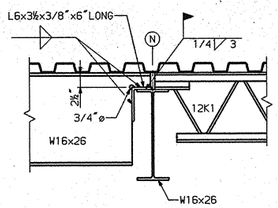
SEE DETAIL 4/S-32 FOR
WELDED SPLICE DETAIL



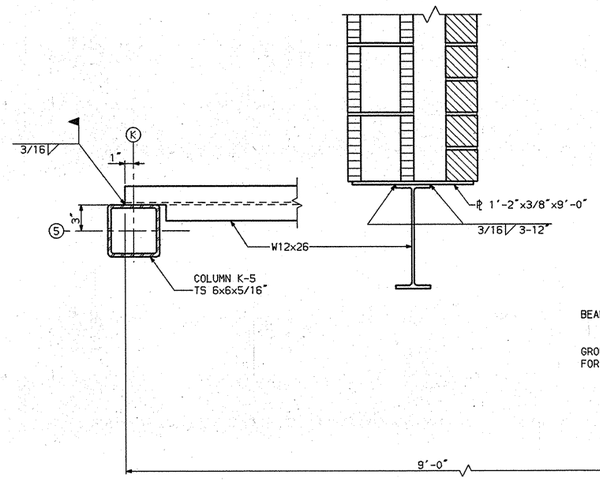
ENDWALL DETAIL 8
SCALE: 1" = 1'-0" 5-42



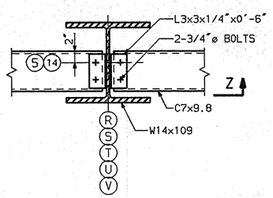
BOND BEAM DETAIL 9
SCALE: 1" = 1'-0" 5-42

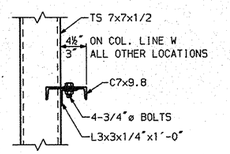


SECTION 7
SCALE: 1" = 1'-0" 5-42

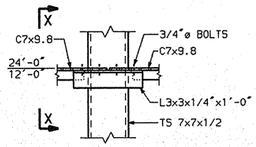


SECTION K5
SCALE: 1½" = 1'-0" S42





VIEW X-X



SECTION 10
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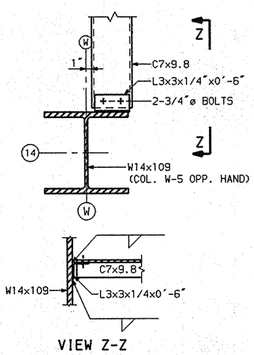

VIEW Z-Z

SECTION 11
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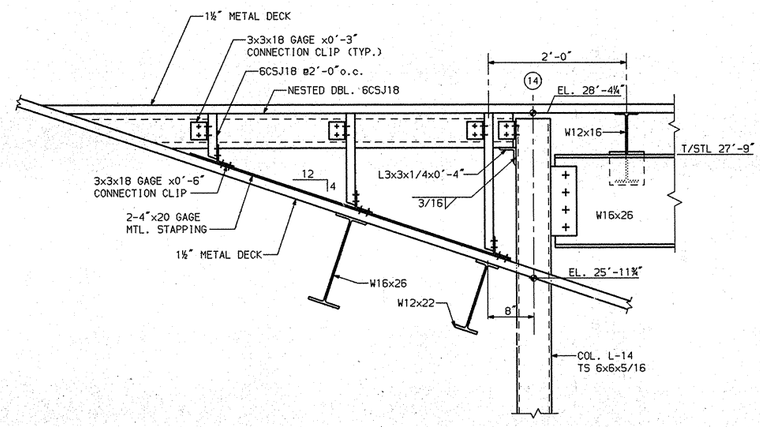
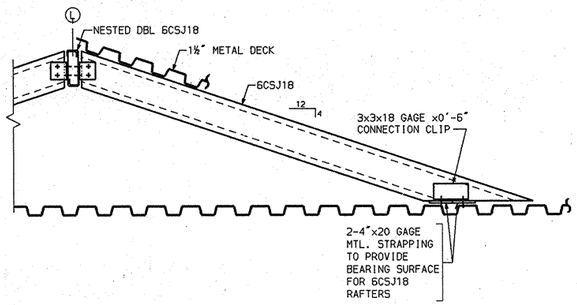
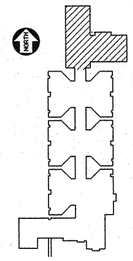


L-14 CRICKET FRAMING ELEVATIONS



NOTES:

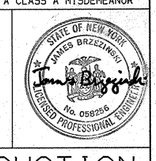
1. PROVIDE CLOSURE PLATES AT THE TOPS OF ALL TUBE AND PIPE COLUMNS AS PER SECTION 05120. UNLESS OTHERWISE NOTED.
2. ◆ - DENOTES ELEVATION ABOVE FINISHED FLOOR AND AT THE COLUMN LINE, + or - 1/8".
3. DETAILS 8/S42 & 9/S42, AND SECTIONS 10/S42 & 11/S42 SUPERCEDE DETAILS 8/S33 & 9/S33 AND SECTIONS 10/S33 & 11/S33 ON DRAWING S-33.



KEY PLAN

ADDENDUM DRAWING 12/30/91
NEW DRAWING

WARNING
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR



CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING, NEW YORK

Gymnasium & Vocational Wing

STRUCTURAL SECTIONS
AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

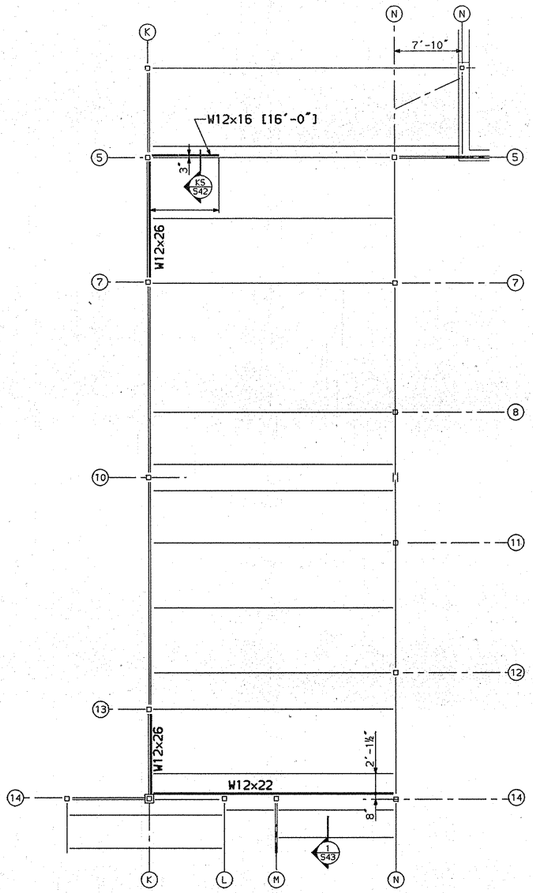
DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
W. HELD	DEC. 30, 1991	1" = 1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

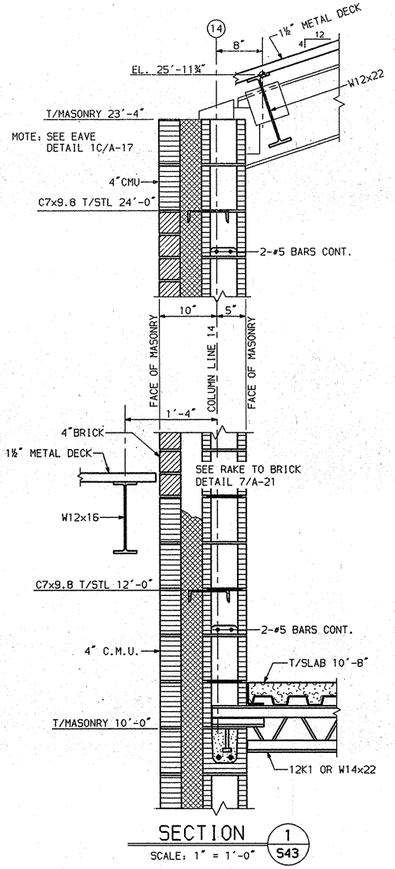
PROJECT NO.	DRAWING NO.
38317-C	S-42
	PLAN FILE NO. 91/219

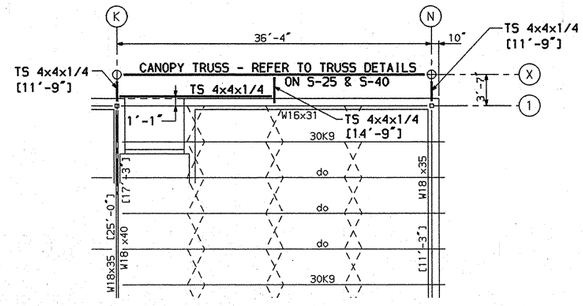
JOHN.NIGAITSE 31 DEC 1991 13:20:50 <USER2>\STRUCTS\S42.DGN



PARTIAL REVISED ROOF FRAMING PLAN

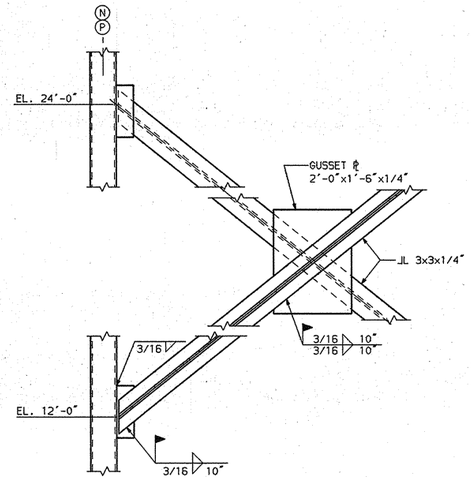
* NOTE CHANGES IN BOLD PRINT AND TYPE, WHICH SHALL SUPERCEDE THAT WHICH IS SHOWN ON DRAWING S-23.





PARTIAL REVISED ROOF FRAMING PLAN

NOTE: CHANGES IN BOLD PRINT AND TYPE, WHICH SHALL SUPERCEDE THAT WHICH IS SHOWN ON DRAWING S-25.



CROSS BRACING DETAILS

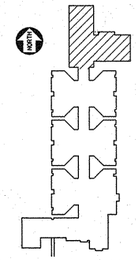
SEE COLUMN ELEVATIONS ON DRAWING S-48 FOR CROSS BRACING LOCATIONS

LINTEL NOTES:

1. GROUT SOLID THE TOP TWO COURSES OF BLOCK DIRECTLY UNDER LINTEL BEARING SURFACES.
2. BEAR ALL LINTELS A MINIMUM OF 8" EACH END, UNLESS NOTED OTHERWISE.
3. PROVIDE LINTEL TYPE L3 OVER ALL OPENINGS IN EXTERIOR WALLS AT LOUVERS. SEE ARCH. DWG. FOR LOUVER LOCATIONS.
4. GALVANIZE ALL STRUCTURAL STEEL LINTELS IN EXTERIOR WALLS.
5. LINTEL TYPE L5 SHALL CONSIST OF THE FOLLOWING STEEL ANGLES:
   FOR ALL OPENINGS IN 8" & 12" BLOCK WALLS, MINIMUM LINTELS TO BE FOR EACH 4" OF MASONRY WIDTH.
   ONE 4"x3 1/2"x5/16" FOR SPANS UP TO 6'-0".
   ONE 5"x3 1/2"x5/16" FOR SPANS UP TO 8'-0".
   FOR ALL OPENINGS IN 6" BLOCK WALLS USE:
   ONE WT7x11 FOR SPANS UP TO 6'-0".
   ONE WT7x13 FOR SPANS UP TO 8'-0".
6. FOR ALL OPENINGS NOT OTHERWISE SHOWN, DETAILED OR SCHEDULED INCLUDING MECHANICAL OPENINGS, USE LINTEL L5.

LINTEL SCHEDULE

LINTEL NO.	LINTEL SIZE	TYPE	MATERIAL	REMARKS
L1	5/16" GALV. ℄ x THICKNESS OF WALL LESS 1"		GALV. STEEL	FOR OPENINGS 2'-0" WIDE OR LESS
L2	4"x8"		PRECAST CONCRETE w/ 1-#6, TOP & BOT.	FOR USE IN 4" THICK MASONRY WALLS. MAX. SPAN =
L3	W8x13 w/1/4" ℄ x THICKNESS OF WALL LESS 1"		STRUCTURAL STEEL	SEE NOTES 3 & 4
L4	W8x18 w/ 1/4" ℄ x THICKNESS OF WALL LESS 1"		STRUCTURAL STEEL	
L5	SEE NOTE 5 w/1/4"℄ x THICKNESS OF WALL LESS 1"		STRUCTURAL STEEL	SEE NOTES 5 & 6
L6	8"x8" BOND BEAM		8"C.M.U. BOND BEAM w/1-#6	
L7	8"x16" BOND BEAM		16"CMU BOND BEAM w/ 2-#6	
L8				
L9				



KEY PLAN

ADDENDUM DRAWING 12/30/91
NEW DRAWING

STATE OF NEW YORK JAMES BRZEZANSKI LICENSED PROFESSIONAL ENGINEER NO. 058236

WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS A MISDEMEANOR.

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Gymnasium & Vocational Wing

STRUCTURAL SECTIONS AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
W. HELD	DEC. 30, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

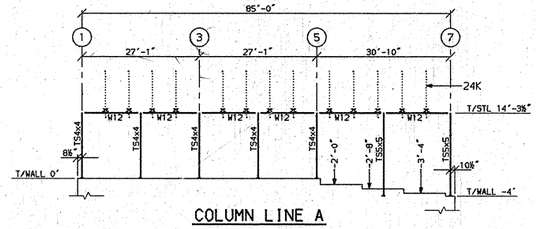
APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. S-43

PLAN FILE NO. 91/220

31 DEC 1991 13:32:45 JOHN.MCCAUSE \\USERDATA\STRAT$\JM\38317



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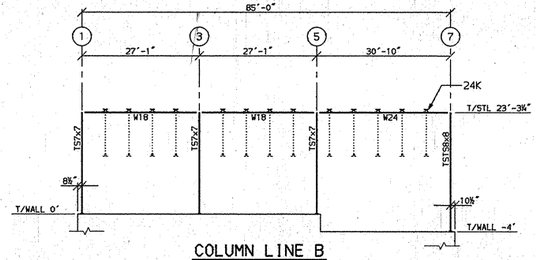

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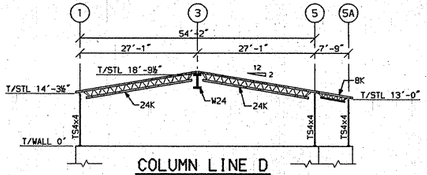

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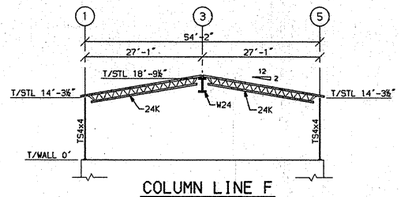

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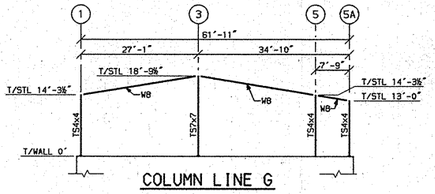

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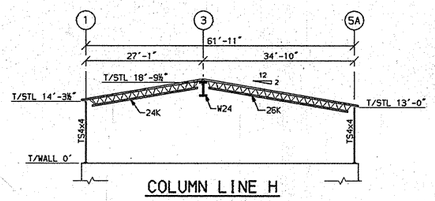

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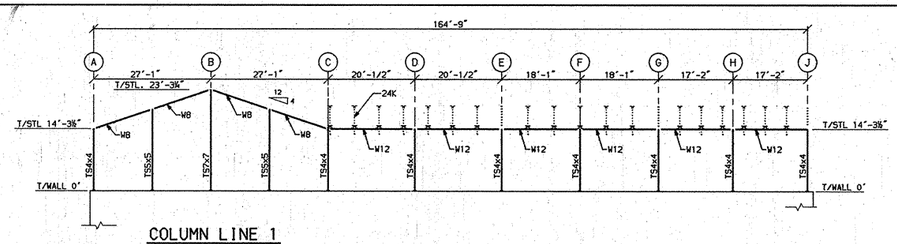

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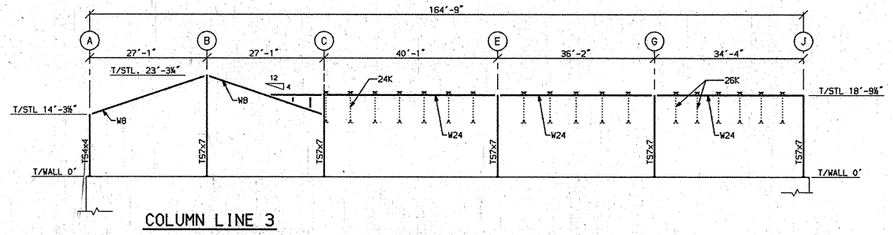

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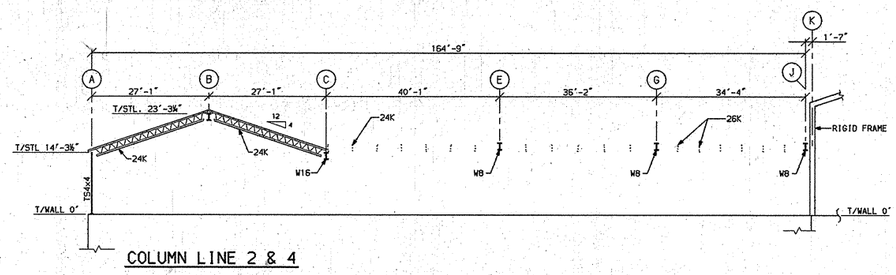

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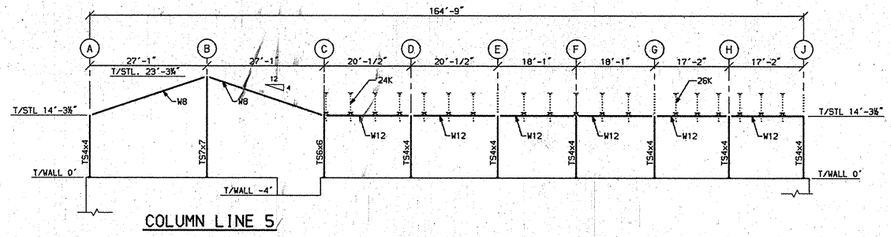

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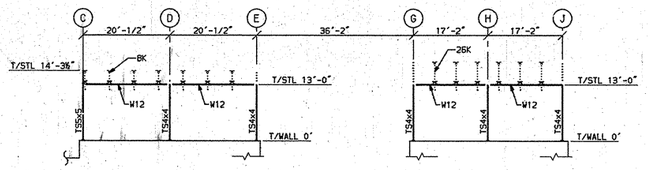

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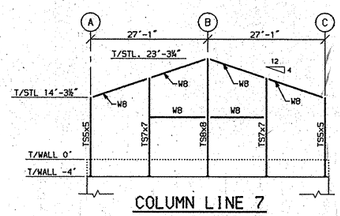

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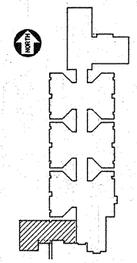

KEY PLAN

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STATE OF NEW YORK JAMES BRINKERHOFF REGISTERED PROFESSIONAL ARCHITECT No. 035256

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING RESIDENTIAL CENTER
LANSING, NEW YORK

COLUMN ELEVATIONS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

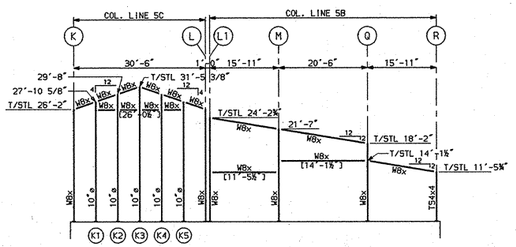
DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
R. DOYLE	NOV. 27, 1991	XXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJN			XXXXX

APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C
DRAWING NO. S-44
PLAN FILE NO. 91/22/

25 NOV 1991 09:19:06 JOHN.MCCABE \\OSD2\DV\STRUCTURE\38317\S-44.38317



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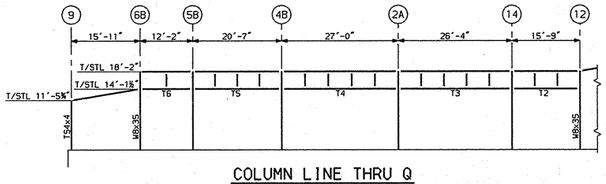

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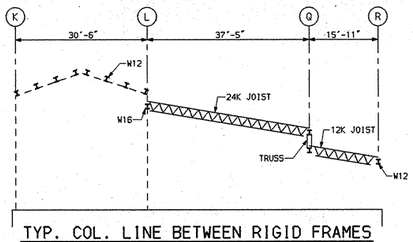
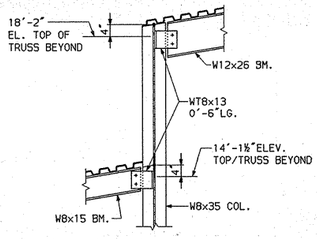
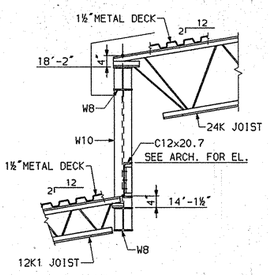


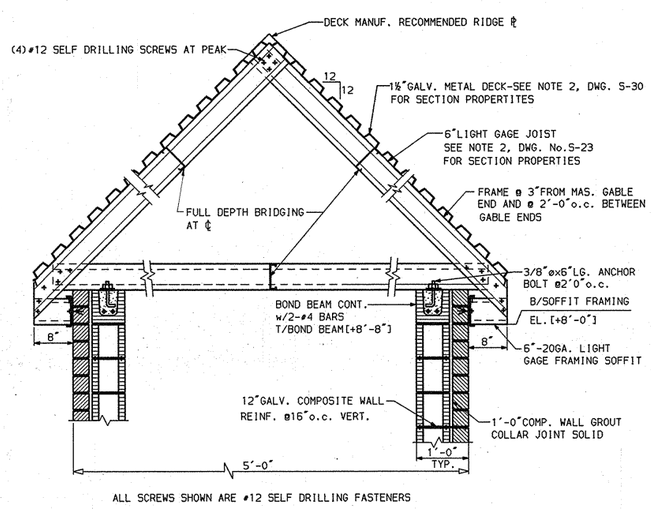
TYP. COL. LINE BETWEEN RIGID FRAMES



SECTION 1 S-45



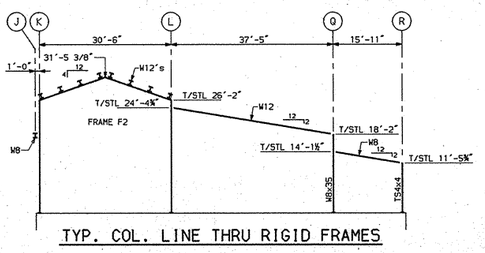
SECTION 2 S-45



ALL SCREWS SHOWN ARE #12 SELF DRILLING FASTENERS

STAIR A ENCLOSURE ROOF DETAIL

NOT TO SCALE



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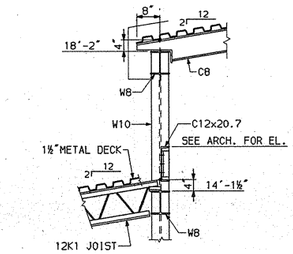
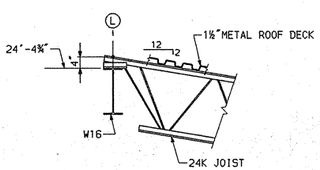
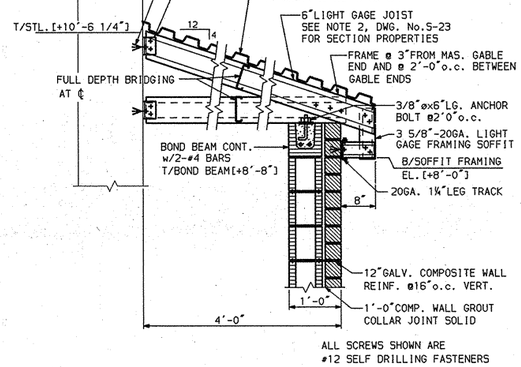


SECTION 3 S-45



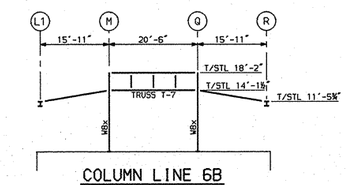
SECTION 4 S-45



ALL SCREWS SHOWN ARE #12 SELF DRILLING FASTENERS

STAIR B ENCLOSURE ROOF DETAIL

NOT TO SCALE



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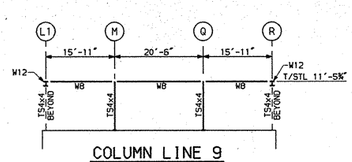

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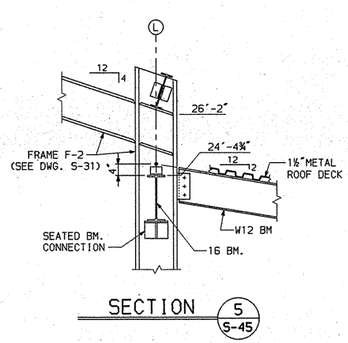
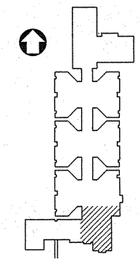


SECTION 5 S-45



KEY PLAN

ADDENDUM DWG. - 12/30/91
NEW DRAWING

WARNING
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STATE OF NEW YORK JAMES BRZEZINSKI Thomas Brzezinski No. 058256 REGISTERED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING RESIDENTIAL CENTER
LANSING, NEW YORK

ADMINISTATION

COLUMN ELEVATIONS & MISC. DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

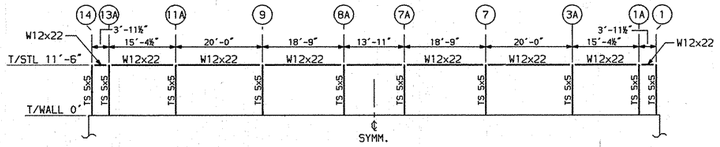
DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
R. DOYLE	DEC. 30, 1991	XX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

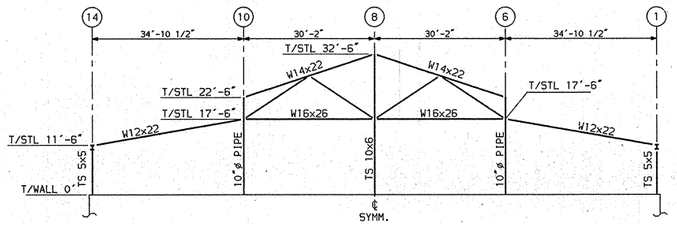
APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO.	DRAWING NO.
38317-C	S-45
	PLAN FILE NO. 91/222

JOHN.MISSISSI 02 JAN 1992 10:43:34 <DISK2$:[STRUCTURES.S-30.DWG]



COLUMN LINE A



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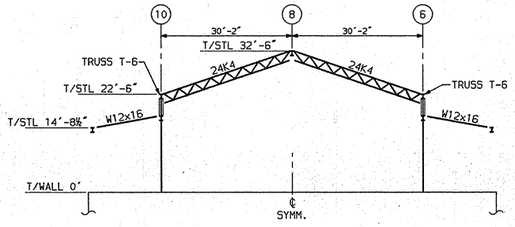

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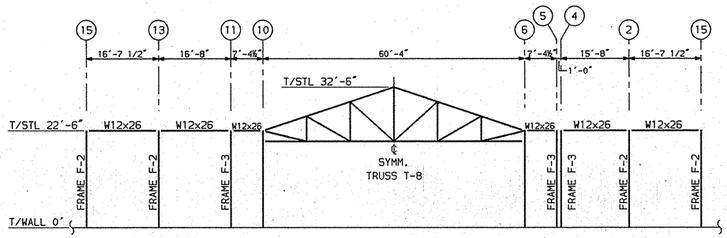

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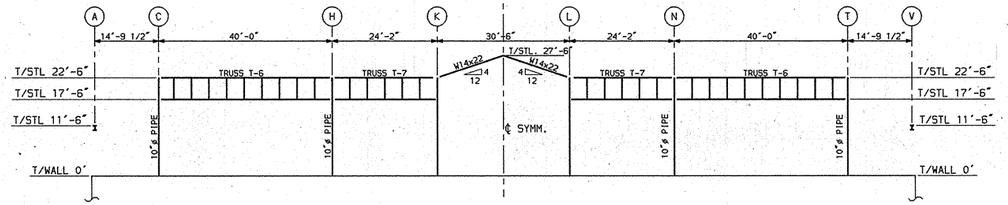

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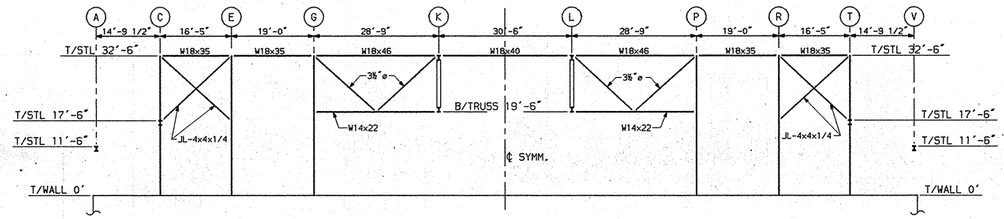

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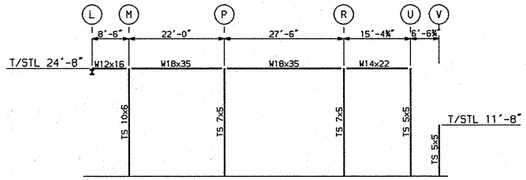

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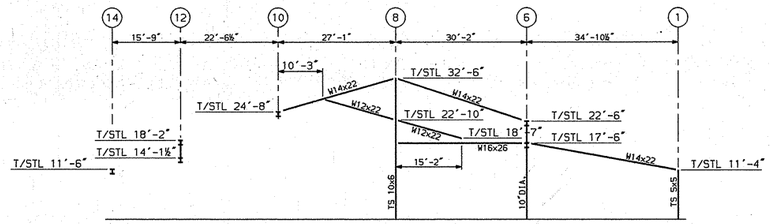

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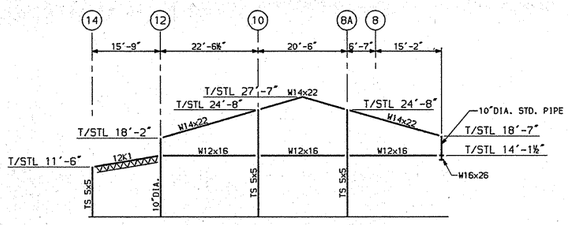

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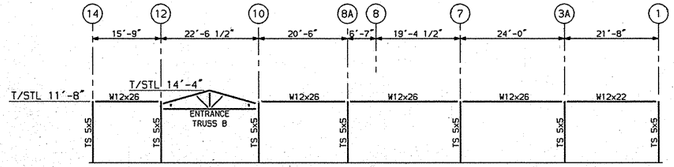

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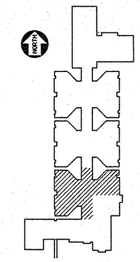

KEY PLAN

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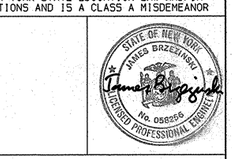

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RAYMOND M. CASEY

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J. BRZEZINSKI	DEC. 30, 1991	1/16"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJM			XXXXX

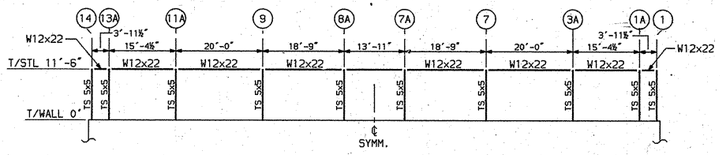
APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. S-46

PLAN FILE NO. 91/223

JOHN.NICAISE 31 DEC 1991 13:12:48



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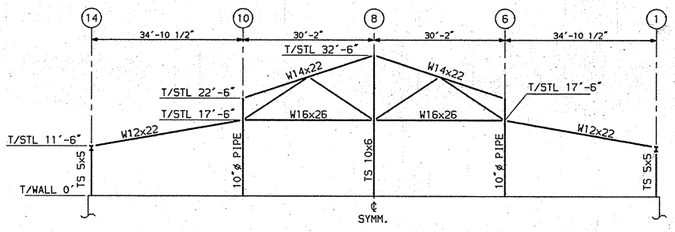

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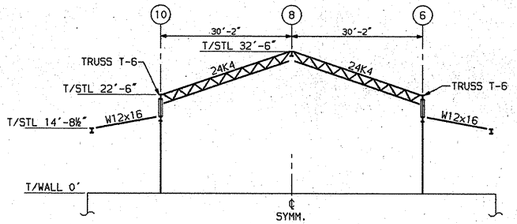

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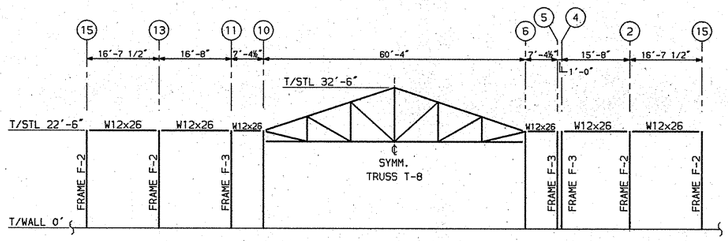

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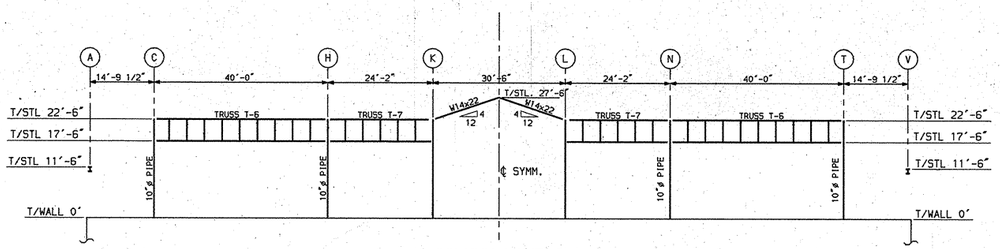

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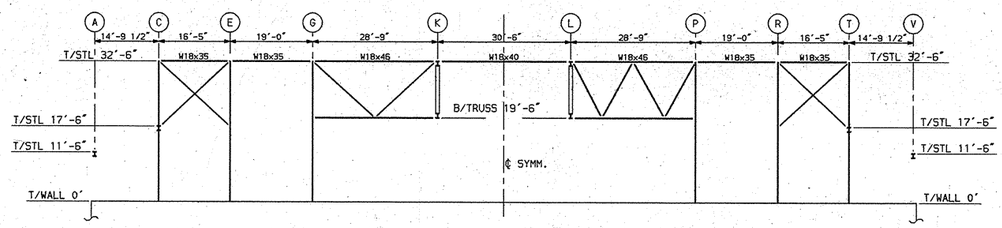

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LANSING, NEW YORK

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RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
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JJN RJM			XXXXX

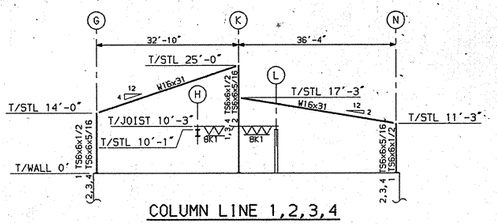
APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. S-47

PLAN FILE NO. 91/224

26 NOV 1991 11:25:49 JOHN.MCCAUSE \\SDS24\STRUSOS1\v3.38317



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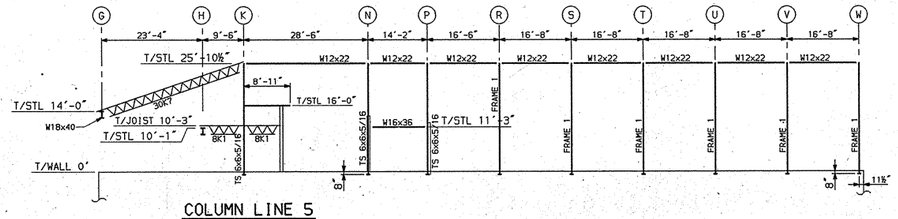

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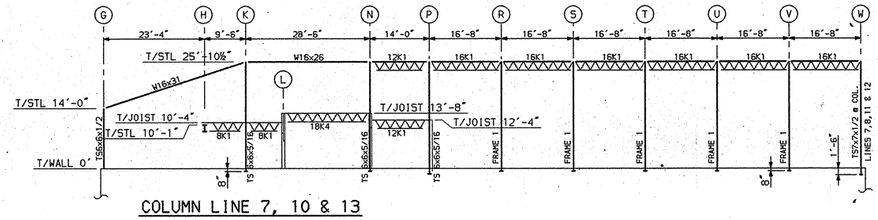

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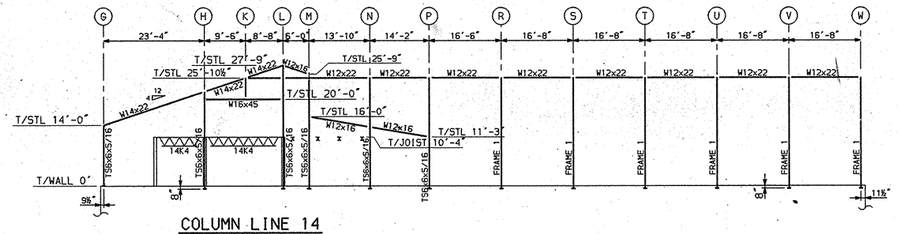

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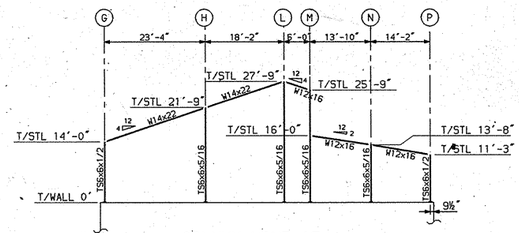

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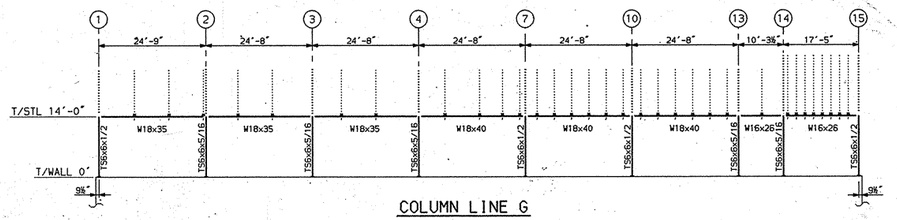

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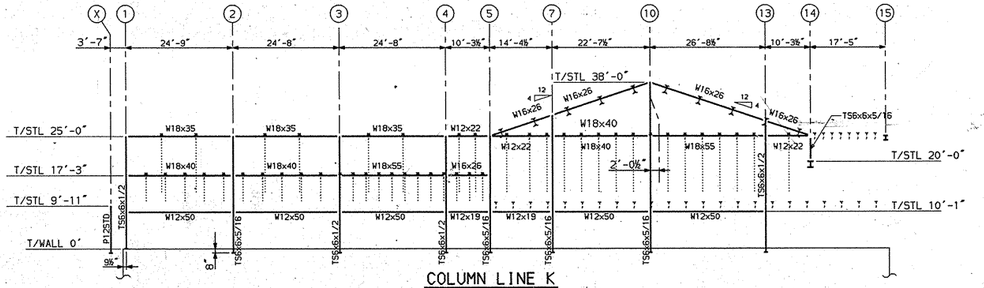

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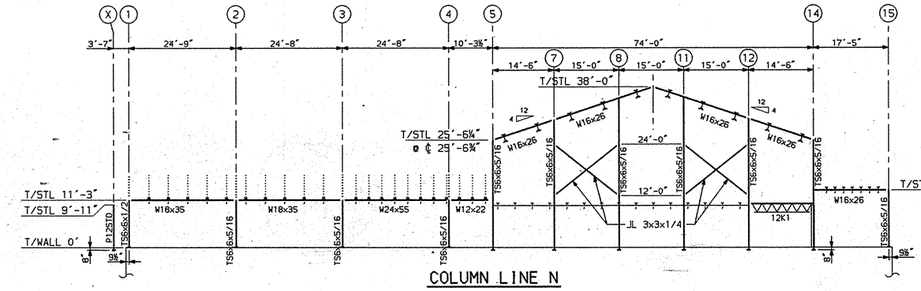

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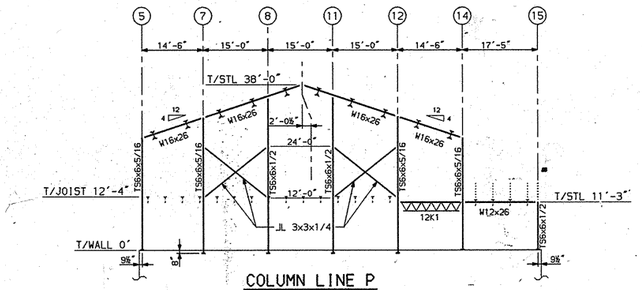

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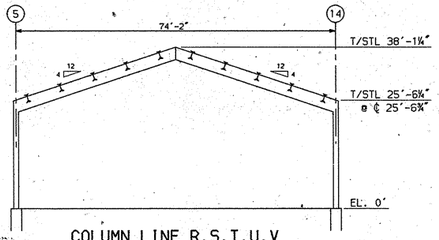

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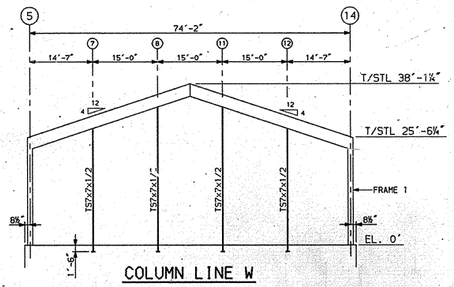

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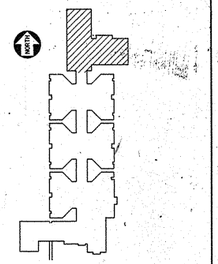

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STATE OF NEW YORK
JAMES BRZEZINSKI
No. 058255
LICENSED PROFESSIONAL ENGINEER

CONSTRUCTION

LIMITED SECURE
RESIDENTIAL FACILITY

LANSING RESIDENTIAL CENTER
LANSING, NEW YORK

GYMNASIUM & VOCATIONAL

STEEL ELEVATIONS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION
EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN
DIRECTOR
WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
W. HELD	DEC.30, 1991	XX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN RJH			XXXXX

APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026044

PROJECT NO. 38317-C
DRAWING NO. S-48
PLAN FILE NO. 91/225

31 DEC 1991 13:32:52 JOHN.MCCAISE

SUBSURFACE AND EARTHWORK INFORMATION (CONTINUED)

7) A. PROVIDE AND MAINTAIN TEMPORARY ROADS FOR THE USE OF ALL PERSONS LAWFULLY FREQUENTING THE SITE.

B. FROM THE START OF CONSTRUCTION, PROVIDE AND MAINTAIN ADEQUATE TEMPORARY ROADS WHICH ACCESS ALL AREAS OF THE SITE REQUIRING WORK UNDER THIS AND ALL RELATED CONTRACTS. PROVIDE A TEMPORARY ROAD SECTION SUFFICIENT TO CARRY THE HEAVIEST CONSTRUCTION TRAFFIC WHEEL LOADS RESULTING FROM THIS AND ALL RELATED CONTRACTS. ALSO PROVIDE AN ACCESS SPUR FROM THE NEAREST TEMPORARY ROAD TO THE STATE FIELD OFFICE PARKING LOT.

C. CROWN OR SLOPE THE SURFACE OF TEMPORARY ROADS FOR ADEQUATE DRAINAGE. PROVIDE TEMPORARY DRAINAGE, INCLUDING SWALES, DITCHES, CULVERTS AND PUMPS AS REQUIRED, TO MAINTAIN THE TEMPORARY ROADS AND PREVENT PONDING WATER ON THE ROADS OR ON THE SITE.

D. PERMANENT ROADS ARE NOT DESIGNED NOR INTENDED FOR CONSTRUCTION EQUIPMENT USE. CONTINUALLY MAINTAIN TEMPORARY ROADS FOR CONSTRUCTION TRAFFIC USE UNTIL NO LONGER NEEDED. MAINTANANCE SHALL INCLUDE, BUT NOT BE LIMITED TO, GRADING AND COMPACTING TO REMOVE RUTS AND DEPRESSIONS, REMOVAL OF SNOW AND ICE, AND MEASURES TO CONTROL DUST.

E. PRIOR TO PLACING THE PERMANENT ASPHALT CONCRETE AND/OR PORTLAND CEMENT CONCRETE PAVING REQUIRED BY THIS CONTRACT, PROVIDE UNCONTAMINATED SPECIFIED MATERIALS NECESSARY TO MEET FULL SECTIONS AND GRADES.

8) PROVIDE THE PERMANENT SITE STORM DRAINAGE SYSTEM AS SOON AS POSSIBLE. UNTIL THEN, PROVIDE TEMPORARY SITE DRAINAGE INCLUDING SWALES, DITCHES, AND PUMPS AS REQUIRED TO MAINTAIN THE SITE IN A TRAFFICABLE CONDITION. DO NOT DISCHARGE WATER INTO AREAS TO BE DEVELOPED UNDER THIS CONTRACT.

9) REMOVE EXISTING TOPSOIL FROM AREAS WITHIN THE GRADING LIMIT LINE WHERE EXCAVATION OR FILL IS REQUIRED. THIS TOPSOIL IS COMPLETELY REUSABLE AND SHALL BE PROPERLY STOCKPILED PRIOR TO REUSE.

10) ALL SOILS FREE OF CINDERS, INDUSTRIAL WASTE, SLUDGE, BUILDING RUBBLE, LAND FILL, MUCK, PEAT, ORGANICS, TOPSOIL, BOULDERS, AND LARGE COBBLES, EXCAVATED DURING CUT AND TRENCHING ACTIVITIES, IS CLASSIFIED AS SUITABLE MATERIAL AND MAY BE USED WHERE SPECIFIED. LARGE COBBLES ARE DEFINED AS PARTICLES GREATER THAN 8 INCHES IN DIAMETER.

11) MATERIAL CONSISTING OF BLASTED OR BROKEN ROCK, AND SIMILAR MATERIALS OF NATURAL ORGIN, MAY BE USED AS SUITABLE MATERIAL.

12) ANY EXCESS TOPSOIL MAY BE USED AS SUITABLE MATERIAL, IN LANDSCAPED AREAS, PROVIDED IT IS PLACED IN THE TOP LAYER OF THE SUBGRADE SURFACE.

13) TEST PIT NOS. 1A, 3A, 4A, 8A, 12A, AND 15A WERE EXCAVATED ON 8/16/91 AT THE APPROXIMATE LOCATION OF BORING NOS. 1, 3, 4, 8, 12 AND 15 IN ORDER TO DETERMINE THE DEPTH AND REMOVABILITY OF OVERBURDEN SOILS BY EXCAVATING EQUIPMENT. THESE TEST PITS WHERE EXCAVATED AS NARROW TRENCHES BY A JOHN DEERE MODEL 490D HYDRAULIC EXCAVATOR, WITH A 0.60 CUBIC YARD BUCKET, UNDER THE DIRECTION OF N.Y.S.O.G.S. PERSONNEL AND WERE LOGGED IN THE FIELD. SEE TABLE NO.1 FOR RESULTS OF TEST PIT EXCAVATIONS.

14) ANTICIPATE DIFFICULTY IN PERFORMING CUT, EXCAVATING, AND AUGERING ACTIVITIES THROUGH THE OVERBURDEN SOILS AT THE SITE DUE TO THE PRESENCE OF STIFF TO HARD SILITY CLAY WITH SHALE FRAGMENTS AND INTERBEDDED SILTY CLAY WITH SHALE. INSTALLATION OF TEMPORARY SHEETPILING MAY NOT BE FEASIBLE DUE TO THE NATURE OF THE OVERBURDEN SOILS AND DEPTH TO LEDGERROCK.

15) PERFORM BULK EARTHWORK IN THE BUILDING AREA, IN COMPLIANCE WITH PROJECT MANUAL SECTION 02200 "ADDITIONAL REQUIREMENTS FOR PLACING FILL TO SUPPORT STRUCTURES", TO ESTABLISH THE OVERALL SITE SUBGRADE ELEVATION PRIOR TO FOUNDATION AND CELLAR EXCAVATION AND CONSTRUCTION. PLACE SELECTED FILL MATERIAL BENEATH THE BUILDING, WHERE REQUIRED.

16) THE OVERBURDEN SOILS TO BE ENCOUNTERED DURING EXCAVATION CONSIST OF TYPE "C" SOIL. MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A SAFE CONDITION UNTIL COMPLETION OF BACKFILLING. COMPLY WITH CODE OF FEDERAL REGULATIONS TITLE 29 - LABOR, PART 1926 (OSHA). REFER TO PROJECT MANUAL SECTION 02200 FOR FURTHER EXCAVATION REQUIREMENTS.

17) DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS AND TRENCHES. REMOVE WATER FROM ALL EXCAVATIONS IMMEDIATELY TO PREVENT SOFTENING OF FOUNDATION BOTTOMS AND SOIL CHANGES DETRIMENTAL TO THE STABILITY OF SUBGRADES AND FOUNDATIONS.

18) STANDARD AUGERING OF POLE FOUNDATIONS THROUGH THE OVERBURDEN SOILS DUE TO THE PRESENCE OF BOULDERS AND SHALE FRAGMENTS MAY NOT BE FEASIBLE AT ALL AREAS OF THE SITE. PERFORM THE FOLLOWING PROCEDURE FOR CONSTRUCTION OF THE POLE FOUNDATIONS WHICH ENCOUNTER CONDITIONS WHICH PRECLUDE STANDARD AUGERING:

A. OVEREXCAVATE POLE FOUNDATIONS BY A MINIMUM 2 FOOT HORIZONTAL DISTANCE FROM THE OUTSIDE OF THE POLE FOUNDATION TO THE SPECIFIED EMBEDMENT DEPTH.

B. BACKFILL WITH SUITABLE MATERIAL IN MAXIMUM 6 INCH LIFTS COMPACTED TO 90% OF MAXIMUM DENSITY.

C. REAUGER POLE FOUNDATIONS AND PROCEED WITH CONTRACT REQUIREMENTS.

D. INCLUDE IN THE CONTRACT SUM THE QUANTITY 500 CUBIC YARDS OF COMPACTED SUITABLE MATERIAL, MEASURED IN PLACE, FOR MATERIAL REPLACEMENT FOR OVEREXCAVATION OF POLE FOUNDATIONS.

19) INCLUDE IN THE CONTRACT SUM THE QUANTITY 2,000 CUBIC YARDS OF COMPACTED SUBBASE COURSE TYPE 2, MEASURED IN PLACE, FOR MATERIAL REPLACEMENT WHERE ORDERED BY THE DIRECTOR'S REPESENTATIVE. REFER TO PROJECT MANUAL SECTION 02200 FOR UNIT PRICES FOR ADJUSTMENT TO THIS QUANTITY.

20) INCLUDE IN THE CONTRACT SUM THE QUANTITY 1,000 CUBIC YARDS OF TAMPED NO.2 COARSE AGGREGATE, MEASURED IN PLACE, FOR MATERIAL REPLACEMENT WHERE ORDERED BY THE DIRECTOR'S REPRESENTATIVE. REFER TO PROJECT MANUAL SECTION 02200 FOR UNIT PRICES FOR ADJUSTMENT TO THIS QUANTITY.

21) INCLUDE IN THE CONTRACT SUM THE QUANTITY 5,000 SQUARE YARDS OF FILTER FABRIC (STABILIZATION) WHERE ORDERED BY THE DIRECTOR'S REPRESENTATIVE. REFER TO PROJECT MANUAL SECTION 02200 FOR UNIT PRICES FOR ADJUSTMENT TO THIS QUANTITY.

22) INCLUDE IN THE CONTRACT SUM THE QUANTITY 3,400 CUBIC YARDS (GENERAL) ROCK REMOVAL AND 1,500 CUBIC YARDS (TRENCH) ROCK REMOVAL FOR ROCK ENCOUNTERED DURING EXCAVATING ACTIVITIES. REFER TO PROJECT MANUAL SECTION 02225 FOR UNIT PRICES FOR ADJUSTMENT TO THIS QUANTITY, ROCK REMOVAL REQUIREMENTS, AND ROCK DEFINITIONS.

23) PROVIDE END DUMPED MEDIUM STONE RIP RAP, WHERE SHOWN ON ENVIRONMENTAL ENGINEERING DRAWINGS, IN COMPLIANCE WITH PROJECT MANUAL SECTION 02274.

TABLE NO.1 - RESULTS OF TEST PIT EXCAVATIONS

TEST PIT NO.	SURFACE ELEVATION	ELEVATION OF WEATHERED SHALE	ELEVATION OF SHALE LEDGEROCK
TP - 1A	939.1'	928.1'	*
TP - 3A	952.0'	940.5'	939.0'
TP - 4A	955.5'	941.5'	*
TP - 8A	949.2'	939.7'	938.7'
TP - 12A	952.5'	943.0'	942.0'
TP - 15A	949.6'	941.6'	940.6'

* PENETRATION INTO GRAY WEATHERED SHALE NOT ATTEMPTED.

MODERATE DIFFICULTY WAS ENCOUNTERED BY THE HYDRAULIC EXCAVATOR IN REMOVING THE OVERBURDEN SOILS BELOW THE SURFACE ELEVATION TO THE ELEVATION OF WEATHERED SHALE.

DIFFICULTY WAS ENCOUNTERED BY THE HYDRAULIC EXCAVATOR IN REMOVING THE WEATHERED SHALE.

BASED ON THE RESULTS OF THE SUBSURFACE INVESTIGATION THE ELEVATION OF SHALE LEDGEROCK IS 941.5' IN THE CELLAR AREA. EXCAVATION ABOVE THIS ELEVATION, IN THE CELLAR AREA, IS CLASSIFIED AS EARTH EXCAVATION. MATERIAL TO BE REMOVED BELOW THIS ELEVATION, IN THE CELLAR AREA, IS CLASSIFIED AS ROCK.

SEE DRAWING NO. S-B.3 FOR CELLAR EXCAVATION AND DRAINAGE PLAN.

TOPSOIL ANALYSIS SUMMARY TABLE

SAMPLE NO.	p.H.	ORGANIC CONTENT, %	SIEVE ANALYSIS (PERCENT PASSING) 1"	1/4"	# 200 *
TP - 3A	6.9	2.5	100.0	88.6	65.4
TP - 8A	7.0	4.6	100.0	89.1	78.9
B - 5	5.2	3.1	100.0	74.0	43.6

* AS OF THE 1/4" SIEVE

SAMPLE DEPTHS WERE AT 6 INCHES

TESTS PERFORMED ON SAMPLE NOS. TP-3A AND TP-8A WERE BY N.Y.S.O.G.S. PERSONNEL.

TESTS PERFORMED ON SAMPLE NO. B-5 WERE BY BUFFALO DRILLING.

RESULTS OF GROUNDWATER MONITORING

BORING NO.	SURFACE ELEVATION	GROUNDWATER ELEVATION 4/2/91	8/5/91	8/16/91
B - 4	955.5'	954.0'	*	948.5'
B - 8	949.2'	*	942.1'	941.9'
B - 9	946.3'	*	937.6'	937.5'

* WELL READING NOT MADE

GROUNDWATER WAS MONITORED BY A 2.0" DIAMETER P.V.C. GROUNDWATER OBSERVATION WELL WITH 0.010" SLOT SCREEN INSTALLED IN THE DESIGNATED BORINGS. SEE DOCUMENT 00220 FOR WELL CONSTRUCTION DETAILS.

MAINTAIN OBSERVATION WELLS FOR THE DURATION OF CONTRACT EARTHWORK ACTIVITIES, WHERE PRACTICAL.

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CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING RESIDENTIAL CENTER
LANSING, NEW YORK

SUBSURFACE AND EARTHWORK INFORMATION

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

COMMISSIONER JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR WILLIAM F. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
S. GARVEY	XXXX	XXXXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN	SCG		XXXXX

APPROVED BY XXXX
DATED XXXX LETTER NO. XXXX

PROJECT NO. 38317-C
DRAWING NO. S-B.2
PLAN FILE NO. 91/176

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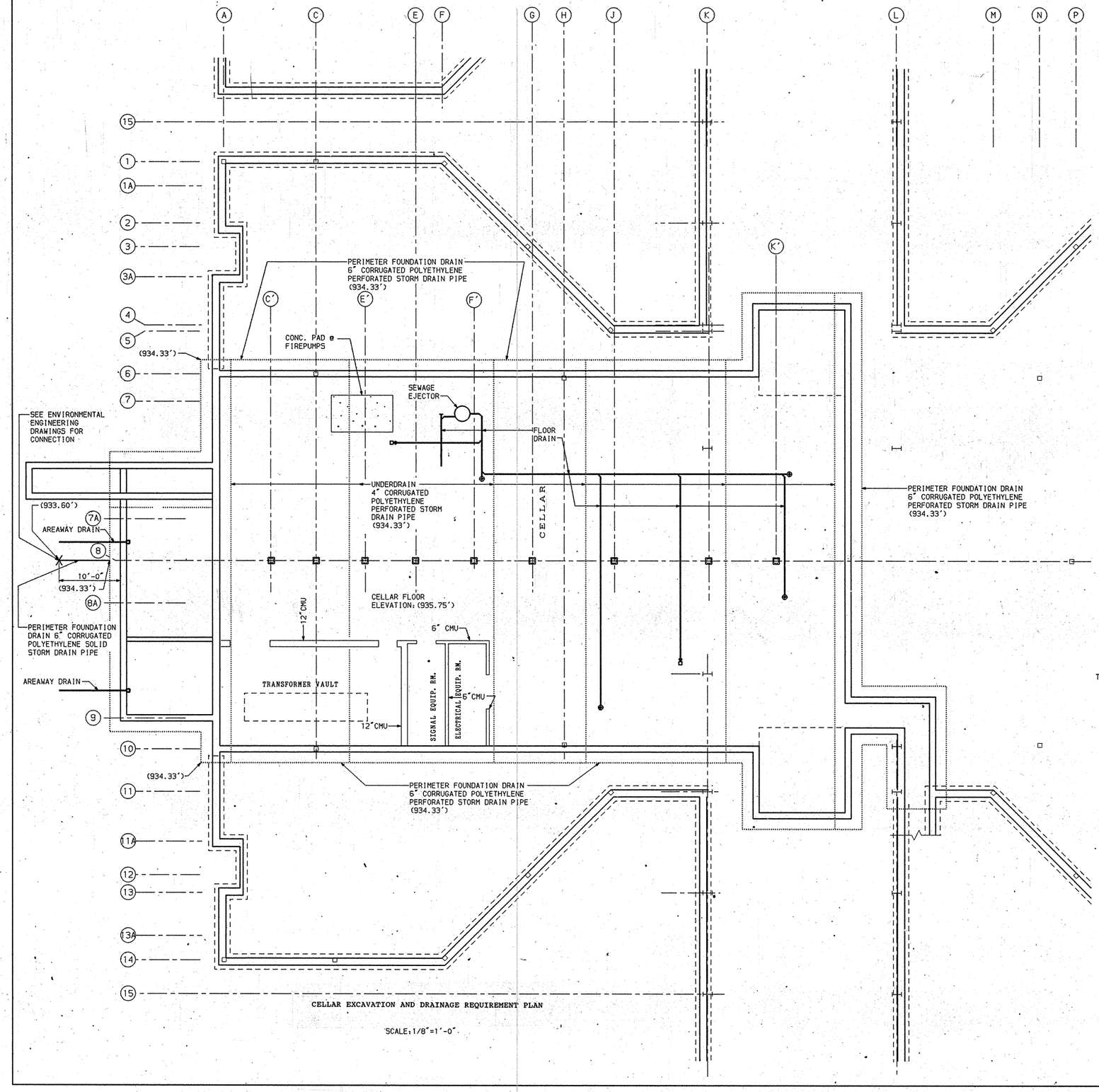


CELLAR EXCAVATION AND DRAINAGE REQUIREMENT PLAN

SCALE: 1/8"=1'-0"

CELLAR EXCAVATION AND DRAINAGE NOTES (CONTINUED)

6) PLACE CONCRETE FOR CELLAR PIERS ON SOUND LEDGEROCK SURFACE CLEANED OF LOOSE SOIL AND LOOSE ROCK.

7) PLACE CONCRETE FOR CELLAR WALL FOUNDATIONS A MINIMUM OF 6 INCHES BELOW SOUND LEDGEROCK SURFACE ON LEDGEROCK CLEANED OF LOOSE SOIL AND LOOSE ROCK.

8) INSPECTION OF THE LEDGEROCK SURFACE IN THE CELLAR SHALL BE MADE BY THE DIRECTORS REPRESENTATIVE PRIOR TO CONCRETE PLACEMENT.

9) PROVIDE CONCRETE BENEATH CELLAR PIERS AND CELLAR WALL FOUNDATIONS, AS REQUIRED, TO COMPENSATE FOR ROCK REMOVED BELOW VERTICAL LIMITS. THE CONCRETE SHALL BE AT THE CONTRACTORS EXPENSE.

10) PROVIDE No. 2 COARSE AGGREGATE BENEATH CELLAR UNDERDRAIN SYSTEM AND PLUMBING WORK, AS REQUIRED, TO COMPENSATE FOR ROCK REMOVAL BELOW VERTICAL LIMITS. THE No. 2 COARSE AGGREGATE SHALL BE TAMPED AND BE PROVIDED AT THE CONTRACTOR'S EXPENSE.

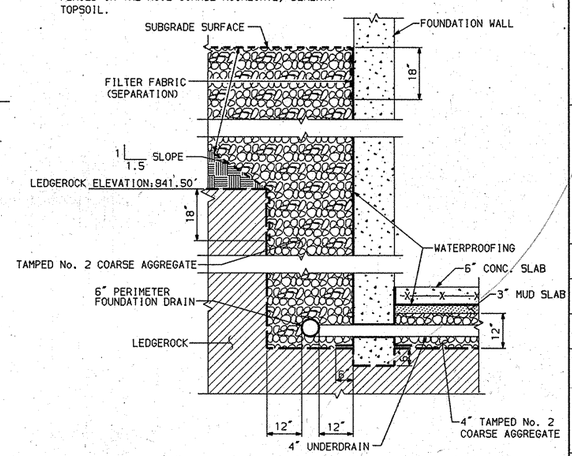
11) PROVIDE No. 2 COARSE AGGREGATE AS FOUNDATION WALL BACKFILL, AS REQUIRED, TO COMPENSATE FOR ROCK REMOVAL BEYOND HORIZONTAL LIMITS. THE No. 2 COARSE AGGREGATE SHALL BE TAMPED AND BE PROVIDED AT THE CONTRACTOR'S EXPENSE.

12) PROVIDE PIPE SLEEVES THROUGH THE FOUNDATION WALL FOR THE CELLAR UNDERDRAINS AND FOR UTILITY LINES OF OTHER TRADES. COORDINATE LOCATION AND SIZE OF SLEEVES WITH TRADE CONTRACTORS. CONNECT CELLAR UNDERDRAINS TO PERIMETER FOUNDATION DRAIN.

13) REFER TO ENVIRONMENTAL ENGINEERING DRAWINGS FOR CONNECTION OF PERIMETER FOUNDATION DRAIN AND AREAWAY DRAINS TO DAYLIGHTED STORM LINE.

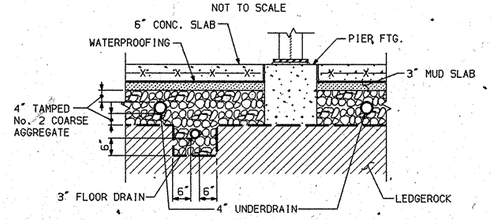
14) APPLY WATERPROOFING ON FOUNDATION WALL AND BETWEEN MUDSLAB AND CELLAR FLOOR WHERE SHOWN. REFER TO PROJECT MANUAL SECTION 07100 FOR WATERPROOFING REQUIREMENTS.

TWO FEET BEYOND THE BUILDING PERIMETER, IN LANDSCAPED AREAS ONLY, PROVIDE 12" OF SUITABLE MATERIAL ON SUBGRADE SURFACE, PLACED ON THE NO.2 COARSE AGGREGATE, BENEATH TOPSOIL.



PERIMETER FOUNDATION DRAIN DETAIL - NO.1

NOT TO SCALE



NOTE: FOR SPACING & LOCATIONS OF DRAINS SEE PLAN. FOR FLOOR DRAIN INVERTS SEE DWG. No. P-2.

LIMITS FOR PAYMENT OF ROCK REMOVAL

FLOOR DRAIN & UNDERDRAIN DETAIL - NO.2

NOT TO SCALE

INVERT ELEVATIONS SHOWN THUS: (XXXX)

CELLAR EXCAVATION AND DRAINAGE NOTES

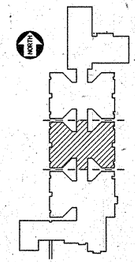
1) THIS DRAWING IS FOR REPRESENTATION OF CELLAR EXCAVATION AND DRAINAGE REQUIREMENTS ONLY. SEE DRAWING No. S-11 FOR CELLAR FOUNDATION PLAN.

2) THE ELEVATION OF SHALE LEDGEROCK IS 941.5' IN THE CELLAR AREA. SEE DRAWING Nos. S-B.1 AND S-B.2 FOR SUBSURFACE AND EARTHWORK INFORMATION.

3) ROCK REMOVAL FOR CELLAR FLOOR DRAINS, AREAWAY DRAIN(S), SEWAGE EJECTORS AND RELATED PLUMBING ACTIVITIES SHALL BE PERFORMED BY THE CONSTRUCTION CONTRACTOR. SEE DRAWING No. P-2 FOR PIPE INVERTS AND FURTHER DETAILS OF PLUMBING WORK.

4) BLASTING IS PERMITTED AS A METHOD OF ROCK REMOVAL. REFER TO PROJECT MANUAL SECTION 02225 FOR ROCK REMOVAL REQUIREMENTS.

5) THE VERTICAL AND HORIZONTAL LIMITS FOR PAYMENT OF ROCK REMOVAL IN THE CELLAR AREA IS SHOWN ON DETAIL Nos. 1 AND 2 ON THIS DRAWING. THE VERTICAL LIMITS FOR PAYMENT OF ROCK REMOVAL FOR THE PLUMBING WORK IS AS INDICATED BY INVERT ELEVATIONS ON DRAWING No. P-2. ANY ROCK REMOVED BELOW OR BEYOND THESE LIMITS SHALL BE AT THE CONTRACTOR'S EXPENSE.



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LICENSED PROFESSIONAL ENGINEER ROBERT L. BERQUIST 57265 STATE OF NEW YORK

CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING RESIDENTIAL CENTER
LANSING, NEW YORK

CELLAR EXCAVATION AND DRAINAGE PLAN

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR
WILLIAM P. O'CONNOR, R.A.

DESIGNED BY	DATE	SCALE	APPROVED
S.C. GARVEY	XXXX	XXXXX	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
JJN	SCG		XXXXX

APPROVED BY XXXX

DATED XXXX LETTER NO. XXXX

PROJECT NO.	DRAWING NO.
38317-C	S-B.3
	PLAN FILE NO. 91/177

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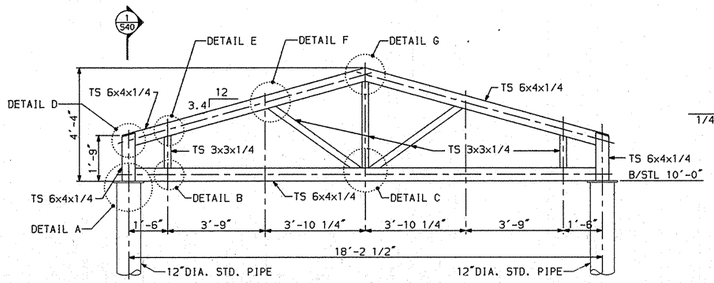

ENTRANCE TRUSS A

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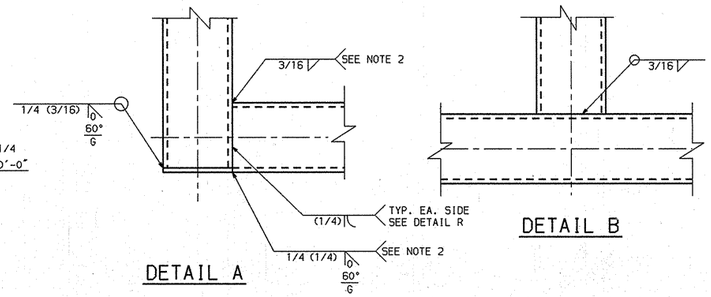
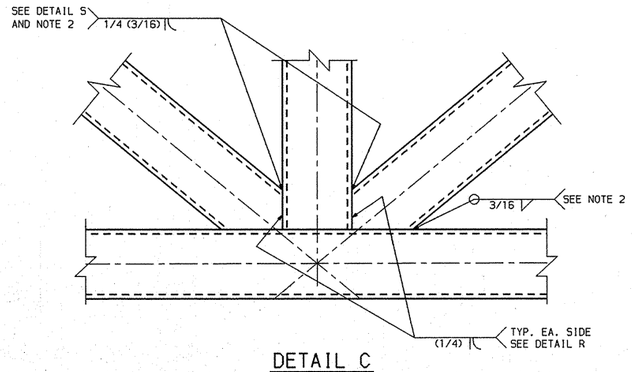


DETAIL A

DETAIL B



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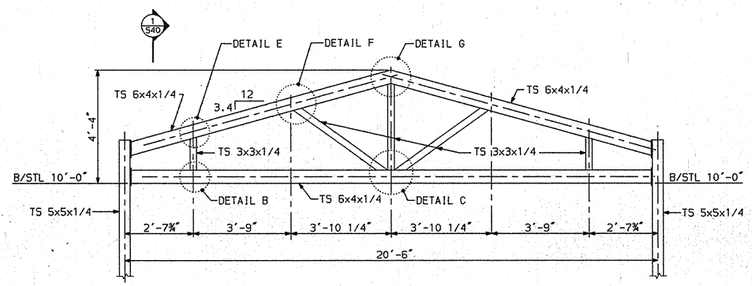

ENTRANCE TRUSS B

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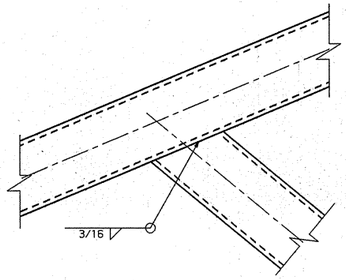
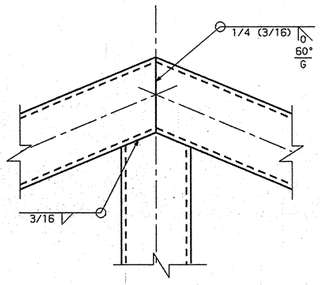


DETAIL F



DETAIL G

NOTES

1. EXCEPT AS OTHERWISE DETAILED ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH SECTION 10, TUBULAR STRUCTURES OF THE "STRUCTURAL WELDING CODE - STEEL" A.W.S. D1.1-90 PUBLISHED BY THE AMERICAN WELDING SOCIETY.
2. JOINT PREPARATION FOR CORNERS SHALL PROVIDE A SMOOTH TRANSITION BETWEEN WELDS, WITH CORNERS FULLY BUILT UP. FOR SHOP WELDS: WELDS AT RIGHT ANGLES TO THE PLANE OF THE FRAME SHALL BE CARRIED CONTINUOUSLY AROUND THE CORNERS, WITH ALL STARTS AND STOPS IN THE FLARE BEVEL WELDS ON THE TRUSS FACES.
   FOR FIELD WELDS: WELDS ON THE TOP AND BOTTOM OF THE BEAMS SHALL BE CARRIED CONTINUOUSLY AROUND THE CORNERS, WITH ALL STARTS AND STOPS IN THE VERTICAL WELDS.
3. WELDING SHALL BE DONE WITH E70XX ELECTRODES. WELDERS SHALL BE QUALIFIED IN THE 6GR POSITION
4. SUBMIT, FOR REVIEW AND APPROVAL, WELDING PROCEDURE SPECIFICATIONS FOR ALL JOINTS.
5. BEFORE START OF PRODUCTION WELDING PREPARE A FULL SIZE MOCK-UP OF THE CONNECTIONS SHOWN IN DETAIL C. THE WELDS ON ONE SIDE OF THE MOCK-UP SHALL BE COMPLETED TO 3/4" BEYOND THE CENTER LINE OF THE MOCK-UP. THE WELDS ON THE OTHER SIDE SHALL BE TACK WELDED ONLY. AFTER COMPLETION OF THE WELDING, SAW CUT THE MOCK-UP ON THE CENTER LINE, AND POLISH AND ETCH THE ENDS OF THE CUT WELDS.

ADDENDUM DRAWING 12/30/91
NEW DRAWING

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CONSTRUCTION

LIMITED SECURE RESIDENTIAL FACILITY

LANSING, NEW YORK

Health Clinic / Gymnasium / Vocational

STRUCTURAL SECTIONS AND DETAILS

STATE OF NEW YORK EXECUTIVE DEPARTMENT
OFFICE OF GENERAL SERVICES

OGS

COMMISSIONER
JOHN F. HUDACS

DESIGN AND CONSTRUCTION EXECUTIVE DIRECTOR
RAYMOND W. CASEY

DIVISION OF DESIGN DIRECTOR
WILLIAM F. O'CONNOR, R.A.

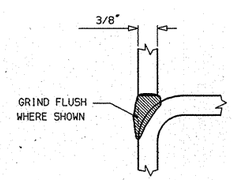
DESIGNED BY	DATE	SCALE	APPROVED
J. BRZEZINSKI	DEC. 30, 1991	1/8"=1'-0"	
DRAWN BY	CHECKED BY	STRUCTURAL CHECK	FIELD CHECK
R.J.Mc			XXXXX

APPROVED BY DIVISION FOR YOUTH
DATED NOV. 27, 1991 LETTER NO. 026344

PROJECT NO. 38317-C

DRAWING NO. S-40

PLAN FILE NO. 91/217



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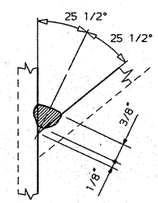

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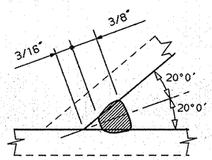
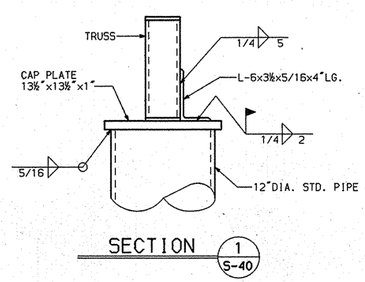
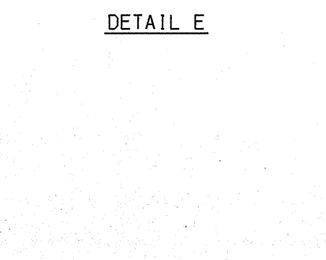


DETAIL T



SECTION 1 S-40



KEY PLAN

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PRE-RENOVATION HAZARDOUS MATERIALS SURVEY REPORT

Finger Lakes Wall Hardening of 70 Bedroom Units
Finger Lakes Residential Center
Lansing, New York

Project Site # Q1894
CHA Project Number: 085008

December 2024

Prepared for:
NYS Office of General Services
Empire State Plaza
Albany, New York 12203

Prepared by:
CHA Consulting, Inc.
3 Winners Circle
Albany, New York 12205
: (518) 453-3915

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QUALIFICATIONS AND CERTIFICATION STATEMENT

This Hazardous Materials Survey Report was compiled by a qualified environmental scientist who is also an EPA-trained and a NYSDOL certified asbestos building inspector employed by CHA.

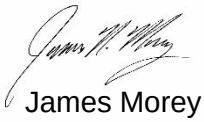
This report has been prepared expressly for the use of The New York State Office of General Services. No other parties are entitled to rely upon this report unless our express written consent is first obtained. All conclusions drawn were based on CHA's review of available historical data, field inspection and analytical results from sampling performed during the course of this project. Recommendations are submitted based on CHA's knowledge, experience, and professional judgment.

This inspection report shall not solely serve as an asbestos abatement design document for obtaining bids from abatement contractors. It is recommended that specific abatement design documents be prepared in order to specify procedures and protocols that must be observed in order to ensure that abatement activities are completed in a manner consistent with local, state and federal regulations and requirements prior to any planned bedroom renovations at the Finger Lakes Residential Center.

Inspection and Report Completed By:

Robert G. Burbank
Scientist II

Report Reviewed By:



James Morey
Senior Scientist V

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- 3.2 ACM Survey 2
  - 3.2.1 Unit 1-8 &10 3
  - 3.2.2 Unit 9 3
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Appendix A-2 Room by Room Table

Appendix B Lead-Based Paint Sample Summary Table

Appendix C PCB Sample Summary Table

Appendix D Asbestos Bulk Sample Analytical Report

Appendix E PCB Analytical Report

Appendix F LBP Analytical Report

Appendix G Personnel and Laboratory Certifications

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1.0 INTRODUCTION

CHA was retained by the New York State Office of General Services to complete a pre-renovation hazardous material survey of limited areas Finger Lakes Residential Center in Lansing, New York. The scope areas at the facility are shown on Figure 1 attached to this report. This survey was performed to support the overall existing conditions assessment of select areas of the facility and ensure that hazardous materials are properly identified prior to any work that will impact them.

This survey report consists of five sections, including this Introduction. Section 2.0 presents the Scope of Work, which outlines the parameters by which this project was performed and the limitations that were encountered. Section 3.0 – Hazardous Materials Survey, details the findings of the inspection and suspect materials identified. Section 4.0 presents a brief overview of the inspection results while Section 5.0 presents CHA's conclusions and recommendations regarding the hazardous building materials identified as part of this survey and any additional investigations that are recommended.

2.0 SCOPE OF WORK

CHA's survey of the Finger Lakes Residential Center was completed per Chapter 9.8 – "Hazardous Materials Guide of the NYSOGS Design Procedures Manual". This includes the visual identification and sampling of suspect asbestos-containing materials, lead-based paints, PCB-containing caulks/sealants, and a visual inspection for Mercury-containing items, PCB-containing items (transformers/ballasts), Chlorofluorocarbons (CFCs), Bird Droppings and Mold.

During the asbestos inspection, bulk samples of identified suspect asbestos-containing materials were collected based on the protocols referenced in 40 CFR Part 763.86 Subpart E (AHERA). All bulk samples collected by CHA as part of this current inspection effort were transmitted under chain of custody protocol to Atlas Environmental Lab, Corp. (Atlas), a laboratory accredited by the NYSDOH Environmental Laboratory Approval Program (ELAP-11999) for asbestos analysis.

An investigation was conducted for lead-based paint (LBP) associated with the project scope areas. Paint chip samples were also transmitted to Atlas for laboratory analysis via Flame Atomic Absorption.

CHA also performed an inspection of the project scope areas for the presence of caulks and sealants suspected to contain polychlorinated biphenyls (PCBs). CHA Collected grab samples of the identified suspect caulks and sealants and those samples were analyzed for PCB content via EPA Method 8082 by CHEMTECH (now Alliance) (NELAP – 11376).

2.1 Limitations

This Hazardous Materials Survey is limited to perimeter rooms of units 1-10 at the Finger Lakes Residential Center as listed Table A-2, the Room-by-Room Inventory attached in Appendix A and as shown in Figure 1. Areas not shown on the attached figures or listed in Table A-2, the Room-by-Room Inventory, are considered out of scope and were not inspected as part of this survey.

Roof levels and exterior elevations were excluded from the scope of work and not inspected as a part of this survey.

Two materials within unit 9, black floor tile mastic to 12”x12” Pink Mottled VCT and Glue to Vinyl Tread Tile had insufficient material to have a second sample analyzed for asbestos percentage and will require additional sampling prior to renovation work impacting those materials.

Lighting fixtures within each perimeter units are secured and were unable to opened during the duration of this survey and according to the facility are LED. Prior to renovation activities that will impact lights, ballasts should be inspected for PCB content.

Regarding the lead-based paint inspection portion of this hazardous materials survey; The purpose of the lead-based paint inspection and sample collection was for worker exposure during any repair/replacement/renovation work and is not a surface-by-surface inspection or a risk assessment for building occupants.

3.0 HAZARDOUS MATERIALS SURVEY

CHA performed the initial survey site visit on March 11, 2024 and a second site visit on November 26, 2024. CHA’s background research and field observations during the site inspection with regard to suspect hazardous materials are discussed below.

3.1 Record Review

CHA was not provided any applicable historical records (reports, abatement records, etc.) prior to the survey fieldwork or during the preparation of this report.

3.2 ACM Survey

The survey was completed by Robert Burbank (#23-61GTF-SHAB) and Kenny Cummings (#24-6A8EC-SHAB), NYS Department of Labor certified asbestos inspectors. Copies of Mr. Burbank’s and Mr. Cummings’ licenses and the laboratory certifications can be found in Appendix G. The objective of this survey is to identify and sample all suspect asbestos-containing materials (SACMs) prior to any impacts of building materials within perimeter rooms of units 1-10.

3.2.1 Unit 1-8 &10

Units 1-8 and 10 are more recently renovated and are comprised of a concrete floor base with grey linoleum floor adhered to the concrete with glue. Walls within the subject rooms are constructed with concrete masonry unit blocks and associated mortar along with sheetrock and joint compound at interior walls. The perimeter of the rooms have a 4" grey cove base adhered with mastic. Furniture is adhered to walls and floors with white caulking, windows utilize a black window glazing sealant, window perimeters and heating units are sealed with a beige caulking, and corner units have an additional beige sealant around the perimeter of the room where the wall meets the ceiling.

3.2.2 Unit 9

Unit 9 contains building components from the original construction and is comprised of a concrete floor base with carpeting adhered with glue. There is a laundry room within Unit 9 that has 12"x12" Pink Mottled VCT adhered to the concrete floor base with black mastic. Walls within the subject rooms are constructed with concrete masonry unit blocks and associated mortar along with a sheetrock and joint compound at interior walls considered from the facility engineering staff to be from the original construction. The perimeter of the rooms has a 4" maroon cove base adhered with mastic. Furniture matches that from units 1-8, and 10 and is identically adhered to walls and floors with white caulking. Additionally, identical to units 1-8 and 10, windows utilize a black window glazing sealant, window perimeters and heating units are sealed with a beige caulking, and corner units have an additional beige sealant around the perimeter of the room where the wall meets the ceiling.

All suspect materials not previously sampled, were quantified, sampled, and transmitted under proper chain of custody protocol for asbestos laboratory analysis and analytical results can be found in Appendix D.

All of the bulk samples that were collected from the project scope areas and their sections are summarized in Table A-1 located in Appendix A. Table A-1 lists each bulk sample, the location from which it was collected, and also provides the analytical result for each sample. Table A-1 is not intended to outline all locations throughout the scope areas where ACMs exist. Table A-2, the Room-by-Room Inventory, summarizes all suspect, assumed, and confirmed asbestos materials that were observed. For each suspect material in each location, the asbestos content is provided. If the asbestos content is greater than 1.0% asbestos by weight the material is considered an asbestos-containing material. An estimated quantity is provided in Table A-2 for each confirmed or assumed asbestos-containing material in project scope areas.

3.3 Lead-Based Paint Survey

The project scope areas were inspected for the presence of painted surfaces. Multiple painted surfaces were observed that could be impacted as a result of any repairs/replacements/renovations. 4 paint chip samples were collected by CHA on walls and from mechanical equipment and analyzed by Atlas for % lead by weight. See Appendix F for analytical results as well as Table B-1 appended to this report for a sample summary.

3.4 PCB Caulk / Sealant Inventory

CHA performed an inspection of the project scope areas for the presence of caulks and sealants suspected to contain PCBs. CHA collected 4 samples of 4 different caulks and/or sealants observed around furniture, on windows, and at perimeter walls. All caulks/sealants were analyzed for PCBs under EPA Method 8082. See Appendix E for analytical results as well as Table C-1 appended to this report for a sample summary.

3.5 Additional Hazardous Materials Inventory

CHA also inspected the subject area for the presence lighting fixtures, PCB-containing ballasts, mercury-containing thermostat switches and controls. According to the facility lights are LED in the perimeter rooms, however as stated above were secured and were unable to opened during the duration of this survey. Prior to renovation activities that will impact lights, ballasts should be inspected for PCB content.

There was no CFC-containing equipment observed, nor any mold growth or bird droppings/guano observed either.

4.0 RESULTS

CHA identified 22 suspect asbestos-containing materials during the asbestos survey. A total of 44 individual bulk samples were collected no asbestos-containing materials were confirmed through laboratory analysis.

CHA identified 4 suspect PCB caulks/sealants during the survey. A total of 4 individual grab samples were collected and transmitted to CHEMTECH under proper chain of custody protocol and analyzed for PCBs under EPA Method 8082. Upon analysis, black window glazing, beige caulk around corner room perimeters, beige caulking around windows and heating units, and white caulk around furniture perimeters were found to have levels well below the Toxic Substances Control Act (TSCA) regulatory threshold of 50 PPM.

CHA collected 4 paint chip samples from subject areas. Upon analysis, the black wall paint and blue wall paint was found to have detectable levels of lead below the 0.5% EPA threshold. The grey radiator paint and pink wall pain on walls were found to have no detectable levels of lead above the laboratory detection limit (Less than 0.03% by weight). All of the paint chip samples collected throughout the project scope areas are summarized in Appendix B, including the collection location, paint description, and the analytical result for each sample. The lead paint chip analytical report is provided as Appendix F.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based upon the scope of work outlined in Section 2.0 of this report and CHA's review of the analytical results and observations made during the inspection, the following conclusions and recommendations have been developed.

5.1 Conclusions

- No ACMs were confirmed to be present within the project scop rooms through laboratory analysis.

- No lead-based paints were found through analysis. 2 paints, a blue wall paint and a black wall paint were found to have detectable levels of lead below the 0.5% EPA threshold and are considered a lead-containing paint.

- Four suspect caulks/sealants were found within the project scope areas. None were found to be PCB-containing with levels that exceed the TSCA threshold of 50 PPM.

- Fluorescent light tubes/bulbs are located in the project scope areas. Additionally, there was no mold or bird guano present within any of the project scope areas. Ballasts were unable to be inspected for PCB content.

5.2 Recommendations

Based on the site inspection and analysis of samples, CHA has developed the following recommendations:

- Ballasts were unable to be inspected for PCB content. Prior to disposal, CHA recommends ballasts be inspected for PCB content to allow for compliance with proper disposal procedures.

- EPA and HUD consider paint greater than 0.5% lead by weight to be a lead-based paint. In addition, any measurable amount of lead in paint requires compliance with the OSHA

Lead in Construction Standard. As a result, any work that impacts painted surfaces containing lead, the OSHA Lead in Construction Standard must be followed by the contractor and all waste should be characterized to determine lead content for disposal.

- If additional suspect materials are discovered within the project scope areas that have not been identified within this hazardous materials survey report, those materials should be assumed to be asbestos-containing and treated as such until they have been sampled by a NYS-certified asbestos building inspector and analyzed for asbestos.

- Per New York State Code Rule 56-5.1(g) Transmittal of Building/Structure Asbestos Survey Information, information from the building survey shall be immediately transmitted by the government or the Contracting Officer to the entity charged with issuing a permit for such demolition, renovation, remodeling, or repair work under applicable State or local laws. New York State considers any removal of load bearing structural supports as a demolition activity. If load bearing structural supports are impacted by future projects within the project scope areas, it is also the building owner's responsibility to transmit this report to the local asbestos control bureau district office.

Asbestos Control Bureau District Office
New York State Department of Labor
Division of Safety and Health
450 S. Salina Street Room 204,
Syracuse, NY 13202

FIGURE

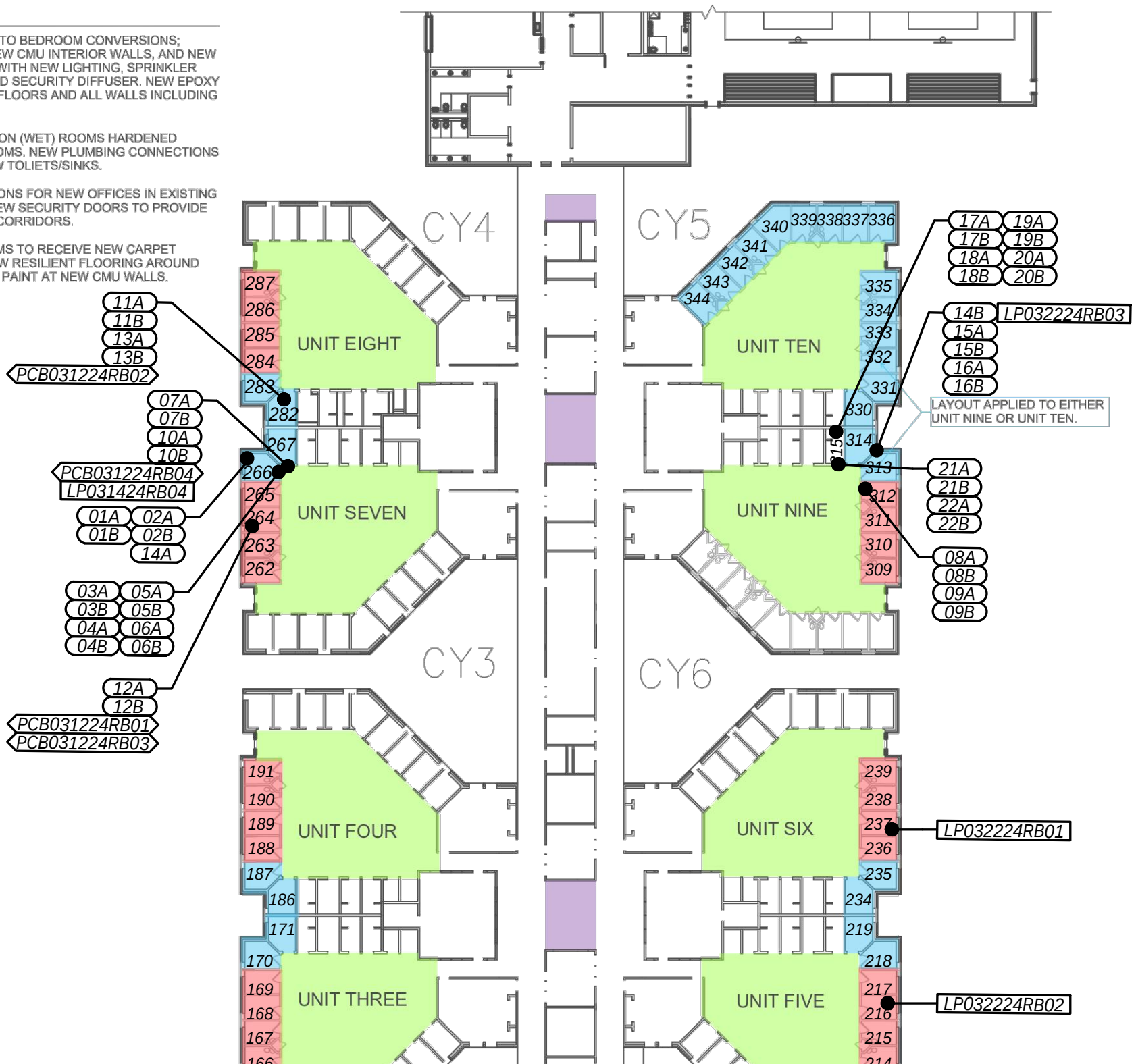
LEGEND

PROPOSED OFFICE TO BEDROOM CONVERSIONS; HARDENED WITH NEW CMU INTERIOR WALLS, AND NEW SECURITY CEILING WITH NEW LIGHTING, SPRINKLER HEAD FIXTURES, AND SECURITY DIFFUSER. NEW EPOXY FINISH APPLIED TO FLOORS AND ALL WALLS INCLUDING EXTERIOR WALL.

PROPOSED ISOLATION (WET) ROOMS HARDENED SIMILAR TO BEDROOMS. NEW PLUMBING CONNECTIONS REQUIRED FOR NEW TOLIETS/SINKS.

4 POSSIBLE LOCATIONS FOR NEW OFFICES IN EXISTING GALLERY SPACE. NEW SECURITY DOORS TO PROVIDE ACCESS BETWEEN CORRIDORS.

EXISTING DAY ROOMS TO RECEIVE NEW CARPET FLOORING WITH NEW RESILIENT FLOORING AROUND PERIMETER. EPOXY PAINT AT NEW CMU WALLS.



LEGEND

ASBESTOS BULK SAMPLE — 01A

PCB BULK SAMPLE — PCB031224RB01

LEAD BASED PAINT SAMPLE — LP031224RB01

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CHA
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SAMPLE LOCATION PLAN
INTERIOR OF BUILDING
FINGER LAKES RESIDENTIAL CENTER
250 AUBURN ROAD
LANSING, NEW YORK

NOT TO SCALE

PROJECT NO. 085008

DATE: 04/2024

FIGURE 1

File: V:\PROJECTS\ANY\K6\085008.000\09_DESIGN\DRAWINGS\ENV\085008_SAMPLE LOCATION.DWG Saved: 4/9/2024 3:02:22 PM Plotted: 4/9/2024 3:02:56 PM Current User: Gray, Timmolyn LastSavedBy: 3511

APPENDIX A-1

Asbestos Bulk Sample Summary Table

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

SAMPLE NUMBER	SUSPECT MATERIAL DESCRIPTION	SAMPLE LOCATION	ASBESTOS CONTENT (%)
01A	Glue to Linoleum Floor Tile	Unit 7 RM 266	NAD
01B	Glue to Linoleum Floor Tile	Unit 7 RM 266	NAD
02A	Grey Linoleum Floor Tile	Unit 7 RM 266	NAD
02B	Grey Linoleum Floor Tile	Unit 7 RM 266	NAD
03A	Sheetrock	Unit 7 RM 266	NAD
03B	Sheetrock	Unit 7 RM 266	NAD
04A	Joint Compound	Unit 7 RM 266	NAD
04B	Joint Compound	Unit 7 RM 266	NAD
05A	Mastic to 4" Grey Cove Base	Unit 7 RM 266	NAD
05B	Mastic to 4" Grey Cove Base	Unit 7 RM 266	NAD
06A	4" Grey Cove Base	Unit 7 RM 266	NAD
06B	4" Grey Cove Base	Unit 7 RM 266	NAD
07A	CMU Mortar	Unit 7 RM 267	NAD
07B	CMU Mortar	Unit 7 RM 267	NAD
08A	Sheetrock (Original Construction)	Unit 9 RM 312	NAD
08B	Sheetrock (Original Construction)	Unit 9 RM 312	NAD
09A	Joint Compound (Original Construction)	Unit 9 RM 312	NAD
09B	Joint Compound (Original Construction)	Unit 9 RM 312	NAD
10A	White Caulk around Furniture Perimeter	Unit 7 RM 267	NAD
10B	White Caulk around Furniture Perimeter	Unit 7 RM 267	NAD
11A	Beige Caulk Corner Room Where Wall Meets Ceiling	Unit 8 RM 282	NAD
11B	Beige Caulk Corner Room Where Wall Meets Ceiling	Unit 8 RM 282	NAD
12A	Beige Window and Heating Unit Caulk	Unit 7 RM 264	NAD
12B	Beige Window and Heating Unit Caulk	Unit 7 RM 264	NAD
13A	Black Window Glazing	Unit 7 Rm 267	NAD
13B	Black Window Glazing	Unit 7 Rm 267	NAD
14A	Concrete Flooring	Unit 7 RM 266	NAD
14B	Concrete Flooring	Unit 9 RM 314	NAD
15A	Concrete Wall	Unit 9 RM 314	NAD
15B	Concrete Wall	Unit 9 RM 314	NAD
16A	Carpet Mastic	Unit 9 RM 314	NAD
16B	Carpet Mastic	Unit 9 RM 314	NAD
17A	Mastic to 4" Maroon Cove Base	Unit 9 RM 315	NAD
17B	Mastic to 4" Maroon Cove Base	Unit 9 RM 315	NAD
18A	4" Maroon Cove Base	Unit 9 RM 315	NAD
18B	4" Maroon Cove Base	Unit 9 RM 315	NAD
19A	Black Mastic to 20A & B	Unit 9 Laundry Rm (315)	NAD
19B	Black Mastic to 20A & B	Unit 9 Laundry Rm (315)	NAD
20A	12"x12" Pink Mottled VCT	Unit 9 Laundry Rm (315)	NAD
20B	12"x12" Pink Mottled VCT	Unit 9 Laundry Rm (315)	NAD
21A	Glue to Vinyl Tread Tile	Unit 9 Outside Laundry Rm	NAD
21B	Glue to Vinyl Tread Tile	Unit 9 Outside Laundry Rm	NAD
22A	Vinyl Tread Tile	Unit 9 Outside Laundry Rm	NAD
22B	Vinyl Tread Tile	Unit 9 Outside Laundry Rm	NAD

lf- linear feet
NA/PS- Not analyzed positive stop
NAD- No Asbestos Detected
sf- square feet

APPENDIX A-2

Room By Room Table

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
Unit 1								
	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
118	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
119	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
120	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
121	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
122	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
123	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Where Wall Meets Ceiling (only in corner rooms)	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
Unit 2								
138	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Where Wall Meets Ceiling (only in corner rooms)	NAD						
139	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
140	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
141	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
142	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
143	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
Unit 3								
166	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
167	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
168	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
169	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
170	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
171	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Where Wall Meets Ceiling (only in corner rooms)	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
Unit 4								
186	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Where Wall Meets Ceiling (only in corner rooms)	NAD						
187	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
188	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
189	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
190	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
191	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
Unit 5								
214	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
215	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
216	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
217	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
218	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
219	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Where Wall Meets Ceiling (only in corner rooms)	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
Unit 6								
234	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Where Wall Meets Ceiling (only in corner rooms)	NAD						
235	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
236	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
237	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
238	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
239	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
Unit 7								
262	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
263	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
264	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
265	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
266	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
267	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Where Wall Meets Ceiling (only in corner rooms)	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
Unit 8								
282	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Where Wall Meets Ceiling (only in corner rooms)	NAD						
283	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
284	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
285	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
	White Caulk Around Furniture Perimeter	NAD						
286	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
287	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
Unit 9								
	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	Black Mastic to 12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	Mastic to 4" Maroon Cove Base	NAD						
	4"Maroon Cove Base	NAD						
310	Glue to Vinyl Tread Tile	NAD						
	Vinyl Tread Tile	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Wherer Wall Meets Ceiling	NAD						
	Sheetrock (Original Construction)	NAD						
	Joint Compound (Original Construction)	NAD						
	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	Black Mastic to 12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	Mastic to 4" Maroon Cove Base	NAD						
	4"Maroon Cove Base	NAD						
311	Glue to Vinyl Tread Tile	NAD						
	Vinyl Tread Tile	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Wherer Wall Meets Ceiling	NAD						
	Sheetrock (Original Construction)	NAD						
	Joint Compound (Original Construction)	NAD						
	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	Black Mastic to 12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	Mastic to 4" Maroon Cove Base	NAD						
	4"Maroon Cove Base	NAD						
312	Glue to Vinyl Tread Tile	NAD						
	Vinyl Tread Tile	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Wherer Wall Meets Ceiling	NAD						
	Sheetrock (Original Construction)	NAD						
	Joint Compound (Original Construction)	NAD						
	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
313	Black Mastic to 12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	Mastic to 4" Maroon Cove Base	NAD						
	4"Maroon Cove Base	NAD						
	Glue to Vinyl Tread Tile	NAD						
	Vinyl Tread Tile	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Wherer Wall Meets Ceiling	NAD						
	Sheetrock (Original Construction)	NAD						
	Joint Compound (Original Construction)	NAD						
314	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	Black Mastic to 12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	Mastic to 4" Maroon Cove Base	NAD						
	4"Maroon Cove Base	NAD						
	Glue to Vinyl Tread Tile	NAD						
	Vinyl Tread Tile	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Wherer Wall Meets Ceiling	NAD						
	Sheetrock (Original Construction)	NAD						
	Joint Compound (Original Construction)	NAD						
	Beige Caulk Corner Room Where Wall Meets Ceiling (only in corner rooms)	NAD						
315	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	Black Mastic to 12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	12"x12" Pink Mottled VCT – (laundry rm only)	NAD						
	Mastic to 4" Maroon Cove Base	NAD						
	4"Maroon Cove Base	NAD						
	Glue to Vinyl Tread Tile	NAD						
	Vinyl Tread Tile	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Wherer Wall Meets Ceiling	NAD						
	Sheetrock (Original Construction)	NAD						
	Joint Compound (Original Construction)	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
Unit 10								
330	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
	Beige Caulk Corner Room Where Wall Meets Ceiling (only in corner rooms)	NAD						
331	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
332	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
333	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						

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ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
	White Caulk Around Furniture Perimeter	NAD						
334	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
335	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
336	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						

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ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
337	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
338	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
339	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
340	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						

TABLE A-1
ASBESTOS BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

ROOM NAME	SUSPECT MATERIALS	ASBESTOS CONTENT (%)	WALLS (SF)	CEILINGS (SF)	PIPE FITTING INSULATION (EA)	PIPE INSULATION (LF)	OTHER THERMAL SYSTEM INSULATION (SF)	MISCELLANEOUS MATERIALS (LF/SF)
341	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
342	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
343	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						
344	Concrete Flooring	NAD						
	Concrete Wall	NAD						
	CMU Mortar	NAD						
	4" Grey Cove Base	NAD						
	4" Grey Cove Base Mastic	NAD						
	Glue to Linoleum Floor Tile	NAD						
	Grey Linoleum Floor Tile	NAD						
	Sheetrock	NAD						
	Joint Compound	NAD						
	Black Window Glazing	NAD						
	Beige Window and Heating Unit Caulk	NAD						
	White Caulk Around Furniture Perimeter	NAD						

APPENDIX B

Lead-Based Paint Sample Summary Table

TABLE B-1
LEAD PAINT SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

SAMPLE ID	SUSPECT MATERIAL DESCRIPTION	SAMPLE LOCATION	LEAD CONTENT (% by wieght)
1	Black Paint (Wall)	Unit 6 254	0.09
2	Blue Paint (Wall)	Unit 5 216	0.06
3	Grey Radiator Paint	Unit 9 314	<0.03
4	Pink Paint (Wall)	Unit 7 Rm 266	<0.03

Notes:
ND = Not Detected

APPENDIX C

PCB Sample Summary Table

TABLE C-1
PCB BULK SAMPLE SUMMARY
Finger Lakes Residential Center
250 Auburn Rd, Lansing, New York 14882

SAMPLE NUMBER	PCB CAULK DESCRIPTION	SAMPLE LOCATION	PCB CONTENT (mg/Kg) (ppm)
PCB031224RB01	White Cualk around Furniture Perimeter	Unit 7 Rm 267	ND
PCB031224RB02	Beige Caulk Where Wall Meets Ceiling	Unit 8 Rm 282	ND
PCB031224RB03	Beige Window and Heating Unit Caulk	Unit 7 Rm 264	ND
PCB031224RB04	Black Window Glazing	Unit 7 Rm 267	ND

Notes:
ND - Not Detected

APPENDIX D

Asbestos Bulk Sample Analytical report

Atlas Environmental Lab, Corp.
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New York, NY 10018
Phone:(212) 563-0400 Fax:(212) 563-0401
www.atlasenvironmentallab.com

Bulk Asbestos Report by PLM-TEM

Client: CHA Soultions, Inc.
Collected by: Client
Project Name/No.: Finger Lakes Residential Center 085008 / PO# 085008-01
Project Address: Lansing, NY
Work Area:

Lab ID: BK0324234
Date Received: 3/14/2024
PLM Date Analyzed: 3/15/2024
TEM Date Analyzed: 3/19/2024
Report Date: 3/19/2024

Client ID#	Lab ID#	Description/ Location	Analyst Description	ORG %	All%	ASI%	PLM			TEM	Method By ELAP		
							Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type	PLM 198.1	PLM NOB 198.6	TEM 198.4
01A	BK0324234-1	Unit 7 RM 266 / Glue to Linoleum Floor Tile	Tan, Homogeneous, Non-Fibrous	70.6	11.7	17.7	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
01B	BK0324234-2	Unit 7 RM 266 / Glue to Linoleum Floor Tile	Tan, Homogeneous, Non-Fibrous	67.9	13.1	19.0	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
02A	BK0324234-3	Unit 7 RM 266 / Grey Linoleum Floor Tile	Grey, Homogeneous, Non-Fibrous	46.3	4.1	49.7	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
02B	BK0324234-4	Unit 7 RM 266 / Grey Linoleum Floor Tile	Grey, Homogeneous, Non-Fibrous	46.5	5.2	48.3	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
03A	BK0324234-5	Unit 7 RM 266 / Sheetrock	White/Brown, Homogeneous, Friable	Not Applicable			5%CELL 5%FBGL	90%	**NAD**		**X**		
03B	BK0324234-6	Unit 7 RM 266 / Sheetrock	White/Brown, Homogeneous, Friable	Not Applicable			5%CELL 5%FBGL	90%	**NAD**		**X**		
04A	BK0324234-7	Unit 7 RM 266 / Joint Compound	White/Brown, Homogeneous, Friable	Not Applicable			10%CELL	90%	**NAD**		**X**		
04B	BK0324234-8	Unit 7 RM 266 / Joint Compound	White/Brown, Homogeneous, Friable	Not Applicable			10%CELL	90%	**NAD**		**X**		
05A	BK0324234-9	Unit 7 RM 266 / Mastic to 4" Grey Cove Base	Beige, Homogeneous, Non-Fibrous	43.3	50.5	6.3	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
05B	BK0324234-10	Unit 7 RM 266 / Mastic to 4" Grey Cove Base	Beige, Homogeneous, Non-Fibrous	45.4	52.7	1.9	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**

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Bulk Asbestos Report by PLM-TEM

Client: CHA Soultions, Inc.
Collected by: Client
Project Name/No.: Finger Lakes Residential Center 085008 / PO# 085008-01
Project Address: Lansing, NY
Work Area:

Lab ID: BK0324234
Date Received: 3/14/2024
PLM Date Analyzed: 3/15/2024
TEM Date Analyzed: 3/19/2024
Report Date: 3/19/2024

Client ID#	Lab ID#	Description/ Location	Analyst Description	ORG %	All%	ASI%	PLM			TEM	Method By ELAP		
							Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type	PLM 198.1	PLM NOB 198.6	TEM 198.4
06A	BK0324234-11	Unit 7 RM 266 / 4" Grey Cove Base	Grey, Homogeneous, Non-Fibrous	57.9	5.7	36.4	0%	100%	**NAD** Inconclusive	**NAD**		X	X
06B	BK0324234-12	Unit 7 RM 266 / 4" Grey Cove Base	Grey, Homogeneous, Non-Fibrous	57.5	4.3	38.2	0%	100%	**NAD** Inconclusive	**NAD**		X	X
07A	BK0324234-13	Unit 7 RM 267 / CMU Mortar	Grey/Pink, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**		X		
07B	BK0324234-14	Unit 7 RM 267 / CMU Mortar	Grey/Pink, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**		X		
08A	BK0324234-15	Unit 9 RM 312 / Sheetrock (Original Construction)	White/Brown, Homogeneous, Friable	Not Applicable			5%CELL 5%FBGL	90%	**NAD**		X		
08B	BK0324234-16	Unit 9 RM 312 / Sheetrock (Original Construction)	White/Brown, Homogeneous, Friable	Not Applicable			5%CELL 5%FBGL	90%	**NAD**		X		
09A	BK0324234-17	Unit 9 RM 312 / Joint Compound (Original Construction)	White, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**		X		
09B	BK0324234-18	Unit 9 RM 312 / Joint Compound (Original Construction)	White, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**		X		
10A	BK0324234-19	Unit 7 RM 267 / White Caulk around Furniture Perimeter	White, Homogeneous, Non-Fibrous	56.9	1.7	41.4	0%	100%	**NAD** Inconclusive	**NAD**		X	X
10B	BK0324234-20	Unit 7 RM 267 / White Caulk around Furniture Perimeter	White, Homogeneous, Non-Fibrous	56.2	3.2	40.6	0%	100%	**NAD** Inconclusive	**NAD**		X	X

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Client: CHA Soultions, Inc.
Collected by: Client
Project Name/No.: Finger Lakes Residential Center 085008 / PO# 085008-01
Project Address: Lansing, NY
Work Area:

Lab ID: BK0324234
Date Received: 3/14/2024
PLM Date Analyzed: 3/15/2024
TEM Date Analyzed: 3/19/2024
Report Date: 3/19/2024

Client ID#	Lab ID#	Description/ Location	Analyst Description	ORG %	All%	ASI%	PLM			TEM	Method By ELAP		
							Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type	PLM 198.1	PLM NOB 198.6	TEM 198.4
11A	BK0324234-21	Unit 8 RM 282 / Beige Caulk Corner Room Where Wall Meets Ceiling	Beige, Homogeneous, Non-Fibrous	67.0	6.6	26.4	0%	100%	**NAD** Inconclusive	**NAD**		X	X
11B	BK0324234-22	Unit 8 RM 282 / Beige Caulk Corner Room Where Wall Meets Ceiling	Beige, Homogeneous, Non-Fibrous	67.5	5.9	26.5	0%	100%	**NAD** Inconclusive	**NAD**		X	X
12A	BK0324234-23	Unit 7 RM 264 / Beige Window and Heating Unit Caulk	White, Homogeneous, Non-Fibrous	38.9	5.1	56.0	0%	100%	**NAD** Inconclusive	**NAD**		X	X
12B	BK0324234-24	Unit 7 RM 264 / Beige Window and Heating Unit Caulk	White, Homogeneous, Non-Fibrous	37.5	1.1	61.4	0%	100%	**NAD** Inconclusive	**NAD**		X	X
13A	BK0324234-25	Unit 7 Rm 267 / Black Window Glazing	Black, Homogeneous, Non-Fibrous	46.9	14.1	39.0	0%	100%	**NAD** Inconclusive	**NAD**		X	X
13B	BK0324234-26	Unit 7 Rm 267 / Black Window Glazing	Black, Homogeneous, Non-Fibrous	55.5	5.2	39.3	0%	100%	**NAD** Inconclusive	**NAD**		X	X
14A	BK0324234-27	Unit 7 RM 204 / Concrete Flooring	Grey, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**		X		
14B	BK0324234-28	Unit 9 RM 314 / Concrete Flooring	Grey, Homogeneous, Friable	Not Applicable			0%	100%	**NAD**		X		
15A	BK0324234-29	Unit 9 RM 314 / Concrete Wall	Grey, Homogeneous, Friable	Not Applicable			5%WOOD	95%	**NAD**		X		
15B	BK0324234-30	Unit 9 RM 314 / Concrete Wall	Grey, Homogeneous, Friable	Not Applicable			5%WOOD	95%	**NAD**		X		

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Bulk Asbestos Report by PLM-TEM

Client: CHA Soultions, Inc.
Collected by: Client
Project Name/No.: Finger Lakes Residential Center 085008 / PO# 085008-01
Project Address: Lansing, NY
Work Area:

Lab ID: BK0324234
Date Received: 3/14/2024
PLM Date Analyzed: 3/15/2024
TEM Date Analyzed: 3/19/2024
Report Date: 3/19/2024

Client ID#	Lab ID#	Description/ Location	Analyst Description	ORG %	All%	ASI%	PLM			TEM	Method By ELAP		
							Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type	PLM 198.1	PLM NOB 198.6	TEM 198.4
16A	BK0324234-31	Unit 9 RM 314 / Carpet Mastic	Yellow, Homogeneous, Non-Fibrous	61.5	35.6	2.9	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
16B	BK0324234-32	Unit 9 RM 314 / Carpet Mastic	Yellow, Homogeneous, Non-Fibrous	55.7	41.6	2.7	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
17A	BK0324234-33	Unit 9 RM 315 / Mastic to 4" Maroon Cove Base	Beige, Homogeneous, Non-Fibrous	49.0	48.3	2.7	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
17B	BK0324234-34	Unit 9 RM 315 / Mastic to 4" Maroon Cove Base	Beige, Homogeneous, Non-Fibrous	47.9	9.5	42.6	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
18A	BK0324234-35	Unit 9 RM 315 / 4" Maroon Cove Base	Maroon, Homogeneous, Non-Fibrous	61.2	2.8	36.0	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
18B	BK0324234-36	Unit 9 RM 315 / 4" Maroon Cove Base	Maroon, Homogeneous, Non-Fibrous	57.2	4.4	38.4	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
19A	BK0324234-37	Unit 9 Laundry Rm / Black Mastic to 20A & B	Black, Homogeneous, Non-Fibrous	70.3	6.4	23.3	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
19B	BK0324234-38	Unit 9 Laundry Rm / Black Mastic to 20A & B	Insufficient Material										
20A	BK0324234-39	Unit 9 Laundry Rm / 12"x12" Pink Mottled VCT	Pink, Homogeneous, Non-Fibrous	18.3	6.9	74.8	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
20B	BK0324234-40	Unit 9 Laundry Rm / 12"x12" Pink Mottled VCT	Pink, Homogeneous, Non-Fibrous	18.5	6.0	75.5	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**

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Bulk Asbestos Report by PLM-TEM

Client: CHA Soultions, Inc.
Collected by: Client
Project Name/No.: Finger Lakes Residential Center 085008 / PO# 085008-01
Project Address: Lansing, NY
Work Area:

Lab ID: BK0324234
Date Received: 3/14/2024
PLM Date Analyzed: 3/15/2024
TEM Date Analyzed: 3/19/2024
Report Date: 3/19/2024

Client ID#	Lab ID#	Description/ Location	Analyst Description	ORG %	AII%	ASI%	PLM			TEM	Method By ELAP		
							Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type	PLM 198.1	PLM NOB 198.6	TEM 198.4
21A	BK0324234-41	Unit 9 Outside Laundry Rm / Glue to Vinyl Tread Tile	Grey, Homogeneous, Non-Fibrous	63.5	18.3	18.2	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
21B	BK0324234-42	Unit 9 Outside Laundry Rm / Glue to Vinyl Tread Tile	Insufficient Material										
22A	BK0324234-43	Unit 9 Outside Laundry Rm / Vinyl Tread Tile	Grey, Homogeneous, Non-Fibrous	42.1	46.2	11.6	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**
22B	BK0324234-44	Unit 9 Outside Laundry Rm / Vinyl Tread Tile	Grey, Homogeneous, Non-Fibrous	40.1	49.8	10.1	0%	100%	**NAD** Inconclusive	**NAD**		**X**	**X**

AH

Quantitative Analysis (Semi/Full):Bulk Asbestos Analysis-PLM by EPA 600/M4-82-020 per 40 CFR or ELAP198.1 (friable) and 198.6 (NOB) samples for New York.

NAD=no asbestos detected, NA/PS=Not Analyzed/Positive Stop, Trace=<1%,FBGL=Fiberglass, CELL=Cellulose,CHRY=Chrysotile,Amo=Amosite,CRO=Crocidolite,ANTH=Anthophylite, TRE=Tremolite, ACT=Actinolite, NA=not applicable.

PLM is not consistently reliable in detecting Asbestos in floor coverings and similar non friable organically bound materials. NAD or Trace results by PLM are inconclusive.

TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos containing in NY State.

All samples were prepared and analyzed in accordance with the EPA "TEM Method for Identifying and Quantifying Asbestos in Non-Fibrous Organically Bound Bulk Samples" ELAP 198.4".

ORG%=Ashed Organic%, AII= Acid Insoluble Inorganic%, ASI= Acid Soluble Inorganic%

This "Summary of Analytical Results "shall not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, ELAP or any agency of the U.S Government. The results relate only to the items tested. This report may not be reproduced, except in full, without the written approval of AEL .Atlas Environmental lab did not collect the analyzed samples and thus accepts no liability with regard to their collection and/or maintenance . AEL relies on client's data. The liability of Atlas Environmental Lab corp with respect to the services charged, shall in no event exceed the amount of the invoice.

NYS-ELAP#11999, NVLAP Lab Code: 500092-0, NJ ID: NY034 "ELCP on NJ won't apply to TEM", CT Reg. ID: PH-0154

PLM Analyst: MN TEM Analyst: VR Approved by:

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PO# 085008-01

BK0324234

Atlas Environmental Lab, Corp
255 West 36th Street, Suite# 1503
New York, NY 10018
Phone:(212) 563-0400 Fax:(212) 563-0401

BULK Material for Asbestos, Chain of Custody

Finger Lakes Residential Center 085008

Client CHA Consulting INC
Address III Winners Circle
Albany, NY 12205

Contact Name Jim Morey
Phone Number
Email JMorey@CHASolutions.com
RBurbank@CHASolutions.com

Project Name & No.
Project Location Lansing, NY
Work Area

Analysis Requested: X PLM, X PLM-NOB, X TEM-NOB, X Stop on 1st positive per homogeneous material, ____ SOF/SM-V (198.8) ____

Turn Around Time: ☐ Same Day ☐ 24 Hrs. ☐ 48 Hrs. ☑ 5 Day

If Vermiculite present, proceed to Method 198.8: _____ TAT: _____

Field ID	AEL Lab ID	Location/Description	Friable/ Non Friable	Homogenous Area	Accept Sample Yes/No
01A	1	Unit 7 RM 266 / Glue to Linoleum Floor Tile	F	Stop 1st	
01B	2	Unit 7 RM 266 / Glue to Linoleum Floor Tile	F	↓	
02A	3	Unit 7 RM 266 / Grey Linoleum Floor Tile	NF	↓	
02B	4	Unit 7 RM 266 / Grey Linoleum Floor Tile	NF	↓	
03A	5	Unit 7 RM 266 / Sheetrock	F	Stop 1st	
03B	6	Unit 7 RM 266 / Sheetrock	F	↓	
04A	7	Unit 7 RM 266 / Joint Compound	F	Stop 1st	
04B	8	Unit 7 RM 266/ Joint Compound	F	↓	
05A	9	Unit 7 RM 266 / Mastic to 4" Grey Cove Base	NF	Stop 1st	
05B	10	Unit 7 RM 266 / Mastic to 4" Grey Cove Base	NF	↓	
06A	11	Unit 7 RM 266 / 4" Grey Cove Base	NF	↓	
06B	12	Unit 7 RM 266 / 4" Grey Cove Base	NF	↓	
07A	13	Unit 7 RM 267 / CMU Mortar	F	Stop 1st	
07B	14	Unit 7 RM 267 / CMU Mortar	F	↓	

Sampled By: Robert Burbank	Signature: RBurbank	Date: 3/12/24	Time: 1300
Relinquished By: Robert Burbank	Signature: RBurbank	Date: 3/12/24	Time: 1500
Received By: Tiffany C.	Signature:	Date: 3/14/24	Time: 11:45 AM
Analyst: MN	Signature:	Date: 03/15/2024	Time: 09:05

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RBM 03/19/24

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PO# 085008-01

BK0324234

Atlas Environmental Lab, Corp
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New York, NY 10018
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BULK Material for Asbestos, Chain of Custody

Finger Lakes Residential Center 085008

Client CHA Consulting INC
Address III Winners Circle
Albany, NY 12205

Contact Name Jim Morey
Phone Number
Email JMorey@CHASolutions.com
RBurbank@CHASolutions.com

Project Name & No.
Project Location Lansing, NY
Work Area

Analysis Requested: X PLM, X PLM-NOB, X TEM-NOB, X Stop on 1st positive per homogeneous material, ____ SOF/SM-V (198.8) ____

Turn Around Time: ☐ Same Day ☐ 24 Hrs. ☐ 48 Hrs. ☑ 5 Day

If Vermiculite present, proceed to Method 198.8: _____ **TAT:** _____

Field ID	AEL Lab ID	Location/Description	Friable/ Non Friable	Homogenous Area	Accept Sample Yes/No
08A	15	Unit 9 RM 312/ Sheetrock (original construction)	F	Stop 1st	
08B	16	Unit 9 RM 312/ Sheetrock (original construction)	F	↓	
09A	17	Unit 9 RM 312/ Joint Compound (original construction)	F	Stop 1st	
09B	18	Unit 9 RM 312/ Joint Compound (original construction)	F	↓	
10A	19	Unit 7 RM 267/ White Caulk around furniture perimeter	NF	Stop 1st	
10B	20	Unit 7 RM 267/ White Caulk around furniture perimeter	NF	↓	
11A	21	Unit 8 282 / Beige Caulk Corner rooms where wall meets ceiling	F	Stop 1st	
11B	22	Unit 8 282 / Beige Caulk Corner rooms where wall meets ceiling	F	↓	
12A	23	Unit 7 RM 264/ Beige Window and Heating Unit Caulk	NF	Stop 1st	
12B	24	Unit 7 RM 264/ Beige Window and Heating Unit Caulk	NF	↓	
13A	25	Unit 7 Rm 267 / Black Window ~~Caulk~~ Glazing	NF	Stop 1st	
13B	26	Unit 7 Rm 267 / Black Window ~~Caulk~~ Glazing	NF	↓	
14A	27	Unit 7 RM 204 / Concrete Flooring	F	Stop 1st	
14B	28	Unit 9 RM 314 / Concrete Flooring	F	↓	

Sampled By: Robert Burbank	Signature: RBurbank	Date: 3/12/24	Time: 1300
Relinquished By: Robert Burbank	Signature: RBurbank	Date: 3/12/24	Time: 1500
Received By: Tiffany C.	Signature:	Date: 3/14/24	Time: 11:45AM
Analyst: MN	Signature:	Date: 03/15/2024	Time: 09:05

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PO# 085008-01

BK6324234

Atlas Environmental Lab, Corp
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New York, NY 10018
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BULK Material for Asbestos, Chain of Custody

Finger Lakes Residential Center 085008

Client CHA Consulting INC
Address III Winners Circle
Albany, NY 12205

Contact Name Jim Morey
Phone Number
Email JMorey@CHASolutions.com
RBurbank@CHASolutions.com

Project Name & No.
Project Location Lansing, NY
Work Area

Analysis Requested: X PLM, X PLM-NOB, X TEM-NOB, X Stop on 1st positive per homogeneous material, _____ SOF/SM-V (198.8) _____

Turn Around Time: ☐ Same Day ☐ 24 Hrs. ☐ 48 Hrs. ☑ 5 Day

If Vermiculite present, proceed to Method 198.8: _____ **TAT:** _____

Field ID	AEL Lab ID	Location/Description	Friable/ Non Friable	Homogenous Area	Accept Sample Yes/No
15A	29	Unit 9 RM 314 / Concrete Wall	F	Stop 1st	
15B	30	Unit 9 RM 314 / Concrete Wall	F	↓	
16A	31	Unit 9 RM 314 / Carpet Mastic	F	Stop 1st	
16B	32	Unit 9 RM 314 / Carpet Mastic	F	↓	
17A	33	Unit 9 RM 315 / Mastic to 4" Maroon Cove Base	NF	Stop 1st	
17B	34	Unit 9 RM 315 / Mastic to 4" Maroon Cove Base	NF	↓	
18A	35	Unit 9 RM 315 / 4" Maroon Cove Base	NF	↓	
18B	36	Unit 9 RM 315 / 4" Maroon Cove Base	NF	↓	
19A	37	Unit 9 Laundry Rm / Black Mastic to ~~18A~~ 20A&B	F	Stop 1st	
19B	38	Unit 9 Laundry Rm / Black Mastic to ~~18A~~ 20A&B	F	↓	
20A	39	Unit 9 Laundry Rm / 12" x 12" Pink Mottled VCT	NF	↓	
20B	40	Unit 9 Laundry Rm / 12" x 12" Pink Mottled VCT	NF	↓	

Sampled By: Robert Burbank	Signature: RBurbank	Date: 3/12/24	Time: 1300
Relinquished By: Robert Burbank	Signature: RBurbank	Date: 3/12/24	Time: 1500
Received By: Tiffany C	Signature:	Date: 3/14/24	Time: 11:45AM
Analyst: MN	Signature:	Date: 03/15/2024	Time: 09:05

PM1 Rev 1 Jan 2018

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085008-01

PO# ~~08416601-01~~

BK0324234

Atlas Environmental Lab, Corp
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New York, NY 10018
Phone:(212) 563-0400 Fax:(212) 563-0401

BULK Material for Asbestos, Chain of Custody

Finger Lakes Residential Center 085008

Client CHA Consulting INC
Address III Winners Circle
Albany, NY 12205

Contact Name Jim Morey
Phone Number
Email JMorey@CHASolutions.com
RBurbank@CHASolutions.com

Project Name & No.
Project Location Lansing, NY
Work Area

Analysis Requested: X PLM, X PLM-NOB, X TEM-NOB, X Stop on 1st positive per homogeneous material, ____ SOF/SM-V (198.8) ____

Turn Around Time: ☐ Same Day ☐ 24 Hrs. ☐ 48 Hrs. ☑ 5 Day

If Vermiculite present, proceed to Method 198.8: ____ **TAT:** ____

Field ID	AEL Lab ID	Location/Description	Friable/ Non Friable	Homogenous Area	Accept Sample Yes/No
21A	41	Unit 9 Outside Laundry Rm/ Glue to Vinyl Tread Tile	F	Stop 1st	
21B	42	Unit 9 Outside Laundry Rm/ Glue to Vinyl Tread Tile	F		
22A	43	Unit 9 Outside Laundry Rm/ Vinyl Tread Tile	NF		
22B	44	Unit 9 Outside Laundry Rm/ Vinyl Tread Tile	NF		

Sampled By: Robert Burbank	Signature: RBurbank	Date: 3/12/24	Time: 1300
Relinquished By: Robert Burbank	Signature: RBurbank	Date: 3/12/24	Time: 1500
Received By: Tiffany C	Signature:	Date: 3/14/24	Time: 11:45 am
Analyst: MN	Signature:	Date: 03/15/2024	Time: 09:05

Atlas Environmental Lab, Corp.
255 West 36th Street, Suite# 1503
New York, NY 10018
Phone:(212) 563-0400 Fax:(212) 563-0401
www.atlasenvironmentallab.com

Bulk Asbestos Report by PLM-TEM

Client: CHA Solutions, Inc.
Collected by: Client
Project Name/No.: 85008 / Finger Lakes RC
Project Address: Ithaca, NY
Work Area: Unit 9, Laundry Room

Lab ID: BK1224002
Date Received: 12/2/2024
PLM Date Analyzed: 12/2/2024
TEM Date Analyzed: 12/3/2024
Report Date: 12/5/2024

Client ID#	Lab ID#	Description/ Location	Analyst Description	ORG %	AII %	ASI %	PLM			TEM	Method By ELAP		
							Fibrous%	Non Fibrous%	Asbestos% &Type	Asbestos% &Type	PLM 198.1	PLM NOB 198.6	TEM 198.4
19B	BK1224002-1	Black Mastic to 12" x 12" Pink Mottled VCT / Unit 9 Laundry Roomm	Black, Homogeneous, Non-Fibrous	43.7	9.3	47.0	0%	100%	**NAD** Inconclusive	**NAD**		X	X
21B	BK1224002-2	Glue to Vinyl Tread Tile / Unit 9 Outside Laundry Room	Grey, Homogeneous, Non-Fibrous	56.9	16.3	26.8	0%	100%	**NAD** Inconclusive	**NAD**		X	X

AH

Quantitative Analysis (Semi/Full):Bulk Asbestos Analysis-PLM by EPA 600/M4-82-020 per 40 CFR or ELAP198.1 (friable) and 198.6 (NOB) samples for New York.

NAD=no asbestos detected, NA/PS=Not Analyzed/Positive Stop, Trace=<1%,FBGL=Fiberglass, CELL=Cellulose,CHRY=Chrysotile,Amo=Amosite,CRO=Crocidolite,ANTH=Anthophylite, TRE=Tremolite, ACT=Actinolite, NA=not applicable.

PLM is not consistently reliable in detecting Asbestos in floor coverings and similar non friable organically bound materials. NAD or Trace results by PLM are inconclusive.

TEM is currently the only method that can be used to determine if this material can be considered or treated as non asbestos containing in NY State.

All samples were prepared and analyzed in accordance with the EPA "TEM Method for Identifying and Quantifying Asbestos in Non-Fibrous Organically Bound Bulk Samples" ELAP 198.4".

ORG%=Ashed Organic%, AII= Acid Insoluble Inorganic%, ASI= Acid Soluble Inorganic%

This "Summary of Analytical Results "shall not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, ELAP or any agency of the U.S Government. The results relate only to the items tested. This report may not be reproduced, except in full, without the written approval of AEL .Atlas Environmental lab did not collect the analyzed samples and thus accepts no liability with regard to their collection and/or maintenance . AEL relies on client's data. The liability of Atlas Environmental Lab corp with respect to the services charged, shall in no event exceed the amount of the invoice.

NYS-ELAP#11999, NVLAP Lab Code: 500092-0, CT ID:PH-0154

PLM Analyst: SO TEM Analyst: VR Approved by:

BK1224002

Atlas Environmental Lab, Corp
255 West 36th Street, Suite# 1503
New York, NY 10018
Phone:(212) 563-0400 Fax:(212) 563-0401

BULK Material for Asbestos, Chain of Custody

Client CHA Consulting, Inc
Address 3 winners Circle
Albany, NY 12205

Contact Name Jim Morey
Phone Number
Email JMorey@chasolutions.com
KCummings "

Project Name & No. 85008
Project Location Finger Lakes RC
Ithaca, NY
Work Area Unit 9 Laundry Rm

Analysis Requested: __PLM, ✓PLM-NOB, ✓TEM-NOB, _Stop on 1st positive per homogeneous material, _____ SOF/SM-V (198.8) _____

Turn Around Time: ☐ Same Day ☐ 24 Hrs. ☐ 48 Hrs. ☑ 72 Hrs.

If Vermiculite present, proceed to Method 198.8: _____ **TAT:** _____

Field ID	AEL Lab ID	Location/Description	Friable/ Non Friable	Homogenous Area	Accept Sample Yes/No
19B	1	Black Mastic to 12"x12" Pink Mottled VCT / Unit 9 Laundry Rm	F	1	
21B	2	Glue to Vinyl Trend Tile / Unit 9 Outside Laundry Rm	"	2	

Sampled By: Kenny Cummings	Signature:	Date: 11/27/24	Time: 12:00
Relinquished By:	Signature:	Date:	Time:
Received By: Melanie Fong	Signature:	Date: 12/2/24	Time: 9am
Analyst: Sara P. Orozco	Signature:	Date: 12/2/24	Time: 4:15pm

PM1 Rev 1 Jan 2018

TEM results

BK1224002

Service Purchase Order 08500808

DATE 11/27/24

TO	SHIP TO	BILL TO
ATLAS ENVIRONMENTAL LAB, Corp 029122 255 W. 36th St., Ste. 1503 New York, NY 10018 PHONE (212) 563-0400	**PO# and SEQ# must be on your Invoice to CHA** or it will be returned to you, starting 5/1/2023	**Colonie, NY** 3 Winners Circle PO Box 5269 Albany, NY 12205 PHONE (518) 453-4500 FAX (518) 458-1735 E-MAIL invoices@chasolutions.com

P.O. NUMBER	ORDER DATE	BUYER	PAY TERMS	EXCESS RECV	EXCESS %	EXCESS AMOUNT
08500808	11/27/24	Klassen, Jeremy	PWP	N		

DESCRIPTION

AGREEMENT TERMS

EFFECTIVE START DATE | EFFECTIVE END DATE | NOT TO EXCEED

100.00

Seq	Description	Item Number	Quantity		Unit Price	Net Amount	Due Date
1	NTP3 - Phase 0001002 - 11.27.2024		1.00	Each	100.00	100.00	

Total
100.00

Authorized By: _____ **Date:** _____

APPENDIX E

PCB Sample Analytical Report

CHEMTECH

DATA PACKAGE

GC SEMI-VOLATILES

PROJECT NAME : FINGER LAKES RESIDENTIAL CENTER

CHA COMPANIES, INC.

III Winners Circle

P.O. Box 5269

Albany, NY - 12205-0269

Phone No: 518-453-4500

ORDER ID : P1758

ATTENTION : James Morey

NELAP ACCREDITED TNI LABORATORY

ANAB ACCREDITED ISO/IEC 17025 DOD ELAP

Laboratory Certification ID # 20012

Table Of Contents for P1758

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2.1) PCB- Case Narrative 4

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4) QA Checklist 7

5) PCB Data 8

6) Shipping Document 15

6.1) CHAIN OF CUSTODY 16

6.2) Lab Certificate 17

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Cover Page

Order ID : P1758

Project ID : Finger Lakes Residential Center

Client : CHA Companies, Inc.

Lab Sample Number	Client Sample Number
P1758-01	PCB031224RB01
P1758-02	PCB031224RB02
P1758-03	PCB031224RB03
P1758-04	PCB031224RB04

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 11:26 am, Mar 26, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
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CASE NARRATIVE

CHA Companies, Inc.
Project Name: Finger Lakes Residential Center
Project # N/A
Chemtech Project # P1758
Test Name: PCB

A. Number of Samples and Date of Receipt:
4 Solid samples were received on 03/14/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: PCB. This data package contains results for PCB.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCBs was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID PO102519.D met the requirements except for Aroclor-1260(Peak-05),Decachlorobiphenyl is failing in 2nd column,
The Continuous Calibration File ID PO102531.D met the requirements except for Aroclor-1260(Peak-05),Decachlorobiphenyl is failing in 2nd column,
Below CCAL failing in 2nd column but it is passing for 1st column therefore no corrective action taken.

E. Additional Comments:
The temperature of the samples at the time of receipt was 15.1°C.
All samples received as Caulk matrix, therefore less volume was taken at the time of extraction.
No MSMSD performed as samples are caulk matrix.

F. Manual Integration Comments:

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Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 11:27 am, Mar 26, 2024

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P1758**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: SOHIL JODHANI **Date:** 03/20/2024

2nd Level QA Review Signature: N. N. Pandya

APPROVED
By Nimisha Pandya QA/QC Supervisor at 11:27 am, Mar 26, 2024

Date:

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: P1758 **Order ID:** P1758

Client: CHA Companies, Inc. **Project ID:** Finger Lakes Residential Center

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								

Total Concentration: 0.000

SAMPLE DATA

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	03/11/24
Project:	Finger Lakes Residential Center	Date Received:	03/14/24
Client Sample ID:	PCB031224RB01	SDG No.:	P1758
Lab Sample ID:	P1758-01	Matrix:	CAULK
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	1.26 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102523.D	1	03/14/24 12:05	03/14/24 22:35	PB159599

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	80.7	U	80.7	405	ug/kg
11104-28-2	Aroclor-1221	153	U	153	405	ug/kg
11141-16-5	Aroclor-1232	81.0	U	81.0	405	ug/kg
53469-21-9	Aroclor-1242	80.7	U	80.7	405	ug/kg
12672-29-6	Aroclor-1248	188	U	188	405	ug/kg
11097-69-1	Aroclor-1254	65.0	U	65.0	405	ug/kg
37324-23-5	Aroclor-1262	109	U	109	405	ug/kg
11100-14-4	Aroclor-1268	81.7	U	81.7	405	ug/kg
11096-82-5	Aroclor-1260	69.3	U	69.3	405	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.4		40 - 162	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	27.2		32 - 175	136%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	03/11/24
Project:	Finger Lakes Residential Center	Date Received:	03/14/24
Client Sample ID:	PCB031224RB02	SDG No.:	P1758
Lab Sample ID:	P1758-02	Matrix:	CAULK
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	0.22 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102524.D	1	03/14/24 12:05	03/14/24 22:52	PB159599

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	462	U	462	2300	ug/kg
11104-28-2	Aroclor-1221	874	U	874	2300	ug/kg
11141-16-5	Aroclor-1232	464	U	464	2300	ug/kg
53469-21-9	Aroclor-1242	462	U	462	2300	ug/kg
12672-29-6	Aroclor-1248	1100	U	1100	2300	ug/kg
11097-69-1	Aroclor-1254	372	U	372	2300	ug/kg
37324-23-5	Aroclor-1262	623	U	623	2300	ug/kg
11100-14-4	Aroclor-1268	468	U	468	2300	ug/kg
11096-82-5	Aroclor-1260	397	U	397	2300	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.3		40 - 162	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	28.4		32 - 175	142%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	03/11/24
Project:	Finger Lakes Residential Center	Date Received:	03/14/24
Client Sample ID:	PCB031224RB03	SDG No.:	P1758
Lab Sample ID:	P1758-03	Matrix:	CAULK
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	1.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102525.D	1	03/14/24 12:05	03/14/24 23:09	PB159599

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	101	U	101	505	ug/kg
11104-28-2	Aroclor-1221	190	U	190	505	ug/kg
11141-16-5	Aroclor-1232	101	U	101	505	ug/kg
53469-21-9	Aroclor-1242	101	U	101	505	ug/kg
12672-29-6	Aroclor-1248	234	U	234	505	ug/kg
11097-69-1	Aroclor-1254	81.1	U	81.1	505	ug/kg
37324-23-5	Aroclor-1262	136	U	136	505	ug/kg
11100-14-4	Aroclor-1268	102	U	102	505	ug/kg
11096-82-5	Aroclor-1260	86.4	U	86.4	505	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.2		40 - 162	101%	SPK: 20
2051-24-3	Decachlorobiphenyl	27.5		32 - 175	138%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	CHA Companies, Inc.	Date Collected:	03/11/24
Project:	Finger Lakes Residential Center	Date Received:	03/14/24
Client Sample ID:	PCB031224RB04	SDG No.:	P1758
Lab Sample ID:	P1758-04	Matrix:	CAULK
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	0.67 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102526.D	1	03/14/24 12:05	03/14/24 23:26	PB159599

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	152	U	152	761	ug/kg
11104-28-2	Aroclor-1221	287	U	287	761	ug/kg
11141-16-5	Aroclor-1232	152	U	152	761	ug/kg
53469-21-9	Aroclor-1242	152	U	152	761	ug/kg
12672-29-6	Aroclor-1248	353	U	353	761	ug/kg
11097-69-1	Aroclor-1254	122	U	122	761	ug/kg
37324-23-5	Aroclor-1262	205	U	205	761	ug/kg
11100-14-4	Aroclor-1268	154	U	154	761	ug/kg
11096-82-5	Aroclor-1260	130	U	130	761	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.8		40 - 162	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	28.3		32 - 175	142%	SPK: 20

Comments:

U = Not Detected
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	P1758	**OrderDate:**	3/14/2024 10:39:33 AM
Client:	CHA Companies, Inc.	**Project:**	Finger Lakes Residential Center
Contact:	James Morey	**Location:**	I21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1758-01	**PCB031224RB01**	**CAULK**			**03/11/24**			**03/14/24**
			PCB	8082A		03/14/24	03/14/24	
P1758-02	**PCB031224RB02**	**CAULK**			**03/11/24**			**03/14/24**
			PCB	8082A		03/14/24	03/14/24	
P1758-03	**PCB031224RB03**	**CAULK**			**03/11/24**			**03/14/24**
			PCB	8082A		03/14/24	03/14/24	
P1758-04	**PCB031224RB04**	**CAULK**			**03/11/24**			**03/14/24**
			PCB	8082A		03/14/24	03/14/24	

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: P1758

COC Number:

CLIENT INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
COMPANY: CHA Consulting INC	PROJECT NAME: Finger Lakes Residential Center	BILL TO: Invoices@chasolutions.com PO#
ADDRESS: III Winners Circle	PROJECT #: 085008 LOCATION: Lansing, NY	ADDRESS:
CITY Albany STATE:NY ZIP:12205	PROJECT MANAGER:Jim Morey	CITY: STATE: ZIP:
ATTENTION:	E-MAIL: Jmorey@CHAsolutions.com/ Rburbank@"	ATTENTION: PHONE:
PHONE: FAX:	PHONE: FAX:	

DATA TURNAROUND INFORMATION

FAX: 10 DAYS*
HARD COPY: 10 DAYS*
EDD 10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☑ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other
- ☐ EDD Format

ANALYSIS

	1	2	3	4	5	6	7	8	9
EPA Method 8082A									

PRESERVATIVES

	1	2	3	4	5	6	7	8	9
	none								

COMMENTS <-- Specify Preservatives: A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# of Bottles	1	COMMENTS
1. PCB031224RB01	White Caulk around Furniture perimeter	Caulk/Sealant		X	3/11/24	1500	1	X	Unit 7 Rm 267
2. PCB031224RB02	Beige Caulk where wall meets ceiling	Caulk/Sealant		X	3/11/24	1500	1	X	Unit 8 Rm 282
3. PCB031224RB03	Beige Window and baseboard Caulk	Caulk/Sealant		X	3/11/24	1500	1	X	Unit 7 Rm 26[illegible]
4. PCB031224RB04	Black window glaze	Caulk/Sealant		X	3/11/24	1500	1	X	Unit 7 Rm 26[illegible]7
5.									
6.									
7.									
8.									
9.									
10.									

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. Robert Burbank	3/13/24	1.
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.	920 3/14/24	2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 15.1 °C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: NO
Comments:

Page ____ of ____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPYFOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-23-16

APPENDIX F

LBP Sample Analytical Report

Atlas Environmental Lab, Corp
255 W 36th Street Suite 1503
New York, NY 10018
Phone:(212) 563-0400 Fax:(718) 563-0401
www.atlasenvironmentallab.com

REPORT OF ANALYSIS FOR LEAD PAINT

Client: CHA Consulting, Inc.
Collected by: Client
Project Name/No.: Finger Lakes Residential Center / 085008-01
Project Address: Lansing, NY
Work Area:

Lab ID: LP0324926
Date Sampled: 3/11/2024
Date Received: 3/14/2024
Date Analyzed: 3/15/2024
Report Date: 3/19/2024

Client ID #	Lab ID #	Location/Description	Result (% Pb W/W)
LP031224RB01	LP0324926-1	Unit 6 254 / Black Paint (Wall)	0.09
LP031224RB02	LP0324926-2	Unit 5 216 / Blue Paint (Wall)	0.06
LP031224RB03	LP0324926-3	Unit 9 314 / Grey Radiator Paint	<0.03
LP031224RB04	LP0324926-4	Unit 7 Rm 266 / Pink Paint (Wall)	<0.03

AL

Analysis Method: EPA 7000B
Prep Method: EPA 3050B
RL (Reporting limit): 0.03% by weights (based upon 100 mg sampled)
HUD Guideline define lead based paint, when lead levels are equal or greater than 0.5% by weight.
NYS - ELAP#11999, AIHA-LAP, LLC ID: 208306, CT Reg. # PH-0154

Analyst: LB

Approved by: VRudenko

Collection procedure, protocols and sample locations are based on information provided by the client submitting the samples; and as such, Atlas Environmental Labs disclaims any knowledge of and liability for the accuracy and completeness of this information. The results apply to the sample as received. Lead results are not corrected for blank.

PO #085008-01

LP0324926

Atlas Environmental Lab, Corp
255 West 36th Street, Suite# 1503
New York, NY 10018
Phone:(212) 563-0400 Fax:(212) 563-0401

CHAIN OF CUSTODY
LEAD ANALYSIS

Client: CHA Consulting Inc
Address: 11 Winners Circle, Albany, NY 12205
Contact Name: Jim Morey
Phone Number:
Email: JMorey@CHAsolutions.com; Rbowbank@
Project Name & No.: Finger Lakes Residential Center
Project Location: 085008 Lansing, NY
Work Area:

Matrix: ☐ Wipes ☒ Paint by weight ☐ Paint by area ☐ Soil

Turn Around Time: ☐ 24 Hrs. ☐ 48 Hrs. ☐ 72 Hrs. ✓5day

Field ID	AEL Lab ID	Location/Description	Area (ft²) (If require)	
LP0324926	RB01	Unit 6 254 / Black Paint (wall)		0.09
	RB02	Unit 5 216 / Blue Paint (wall)		0.06
	RB03	Unit 9 314 / Grey Radiator Paint		<0.03
LP0324926	RB04	Unit 7 Rm 266 / Pink Paint (wall)		<0.03

Sampled By: Rob Burbank	Signature: Rob Burbank	Date: 03/11/24	Time: ~~03/11/24~~ 1500	
Received By: Sarah Anwar	Signature: Sarah Anwar	Date: 03/13/24	Time: 1500	
Relinquished By:	Signature:	Date:	Time:	
Received By: Sarah Anwar	Signature: Sarah Anwar	Date: 3/14/2024	Time: 1140	
Analyst: Leonardo Baly	Signature:	Date: 3/15/24	Time:	

APPENDIX G

Personnel and Laboratory Certifications

WE ARE YOUR DOL

NEW YORK STATE | Department of Labor

DIVISION OF SAFETY & HEALTH LICENSE AND CERTIFICATE UNIT, STATE OFFICE CAMPUS, BLDG. 12, ALBANY, NY 12226

ASBESTOS HANDLING LICENSE

CHA Consulting, Inc.
III Winners Circle, Albany, NY, 12205

License Number: 60318
License Class: RESTRICTED
Date of Issue: 12/05/2023
Expiration Date: 12/31/2024
Duly Authorized Representative: Seth Fowler

This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Amy Phillips, Director
For the Commissioner of Labor

STATE OF NEW YORK - DEPARTMENT OF LABOR

ASBESTOS CERTIFICATE

N.Y.S

ROBERT G BURBANK

CLASS(EXPIRES)

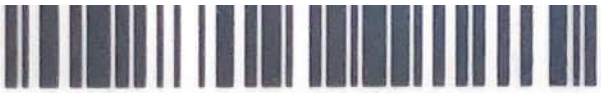
C ATEC (08/24) D INSP (08/24)

H PM (08/24)

CERT# 23-61GTF-SHAB

DMV# 900917558

MUST BE CARRIED ON ASBESTOS PROJECTS



01213 006918329 17

IF FOUND, RETURN TO:

NYSDOL - L&C UNIT

ROOM 161A BUILDING 12

STATE OFFICE CAMPUS

ALBANY NY 12226

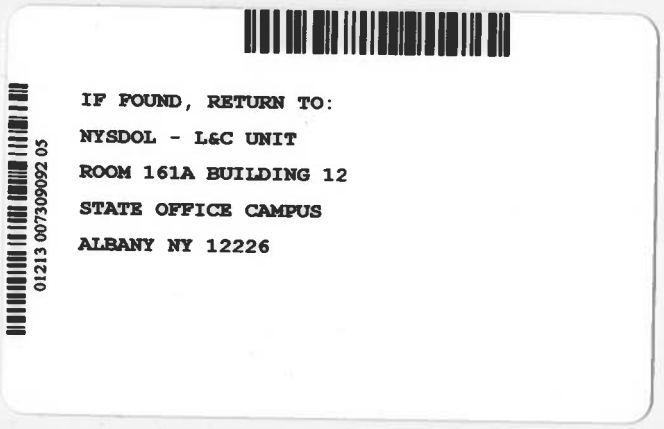
STATE OF NEW YORK - DEPARTMENT OF LABOR
ASBESTOS CERTIFICATE

N.Y.S

KENNY CUMMINGS
CLASS(EXPIRES)
D INSP (03/26) C ATEC (03/25)
H PM (03/25)

CERT# 24-6A8EC-SHAB
DMV# 327911201

MUST BE CARRIED ON ASBESTOS PROJECTS


IF FOUND, RETURN TO:
NYSDOL - L&C UNIT
ROOM 161A BUILDING 12
STATE OFFICE CAMPUS
ALBANY NY 12226
01213 007309092 05

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2022
Revised March 30, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MS. JACKIE DARVISH
ATLAS ENVIRONMENTAL LABS CORP
255 W 36TH STREET SUITE 1503
NEW YORK, NY 10018

NY Lab Id No: 11999

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	Item 198.1 of Manual
	EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual
Asbestos-Vermiculite-Containing Mate	Item 198.8 of Manual
Lead in Dust Wipes	EPA 7000B
Lead in Paint	EPA 7000B

Sample Preparation Methods

	EPA 3050B

Serial No.: 66642

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online.

NEW YORK STATE OF OPPORTUNITY. Department of Health

KATHY HOCHUL
Governor

JAMES V. McDONALD, M.D., M.P.H.
Acting Commissioner

MEGAN E. BALDWIN
Acting Executive Deputy Commissioner

LAB ID: 11376

April 01, 2023

MR. EMANUEL HEDVAT
CHEMTECH
284 SHEFFIELD STREET
MOUNTAINSIDE, NJ 07092

Certificate Expiration Date:
April 01, 2024

Dear Mr. Hedvat,

Enclosed are certificate(s) of approval issued to your environmental laboratory for the current permit year. The certificate(s) supersede(s) any previously issued one(s) and is(are) in effect through the expiration date listed. Please carefully examine the certificate(s) to insure that the categories, subcategories, analytes, and methods for which your laboratory is approved are correct. In addition, verify that your laboratory's name, address, lead technical director, and identification number are accurate.

Pursuant to NYCRR Subpart 55-2.2, original certificates must be posted conspicuously in the laboratory and copies shall be made available to any client of the laboratory upon request.

Pursuant to NYCRR Subpart 55-2.6, any misrepresentation of the fields of accreditation (category - method - analyte) for which your laboratory is approved may result in denial, suspension, or revocation of your certification. Any use of the Environmental Laboratory Approval Program (ELAP) or National Environmental Laboratory Accreditation Program (NELAP) name, reference to the laboratory's approval status, and/or using the NELAP logo in any catalogs, advertising, business solicitations, proposals, quotations, laboratory analytical reports, or other materials must include the laboratory's ELAP identification number and distinguish between testing for which the laboratory is approved and testing for which the laboratory is not approved.

If you have any questions, please contact us at the Environmental Laboratory Approval Program, Wadsworth Center, New York State Department of Health, Empire State Plaza, Albany NY, 12237; by phone at (518) 485-5570; by facsimile at (518) 485-5568; and by email at elap@health.ny.gov.

Sincerely,

Amy J. Steuerwald

Amy J. Steuerwald, Ph.D.
Director, Environmental Laboratory Approval Program

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. EMANUEL HEDVAT
CHEMTECH
284 SHEFFIELD STREET
MOUNTAINSIDE, NJ 07092

NY Lab Id No: 11376

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Phthalate Esters

Benzyl butyl phthalate	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 625.1
	EPA 8270E
Diethyl phthalate	EPA 625.1
	EPA 8270E
Dimethyl phthalate	EPA 625.1
	EPA 8270E
Di-n-butyl phthalate	EPA 625.1
	EPA 8270E
Di-n-octyl phthalate	EPA 625.1
	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
	EPA 608.3
Aroclor 1221 (PCB-1221)	EPA 8082A
	EPA 608.3
Aroclor 1232 (PCB-1232)	EPA 8082A
	EPA 608.3
Aroclor 1242 (PCB-1242)	EPA 8082A
	EPA 608.3
Aroclor 1248 (PCB-1248)	EPA 8082A
	EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A
	EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A
	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A

Serial No.: 67730

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/, by phone (518) 485-5570 or by email to elap@health.ny.gov.

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

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MR. EMANUEL HEDVAT
CHEMTECH
284 SHEFFIELD STREET
MOUNTAINSIDE, NJ 07092

NY Lab Id No: 11376

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Polychlorinated Biphenyls	
Aroclor 1268 (PCB-1268)	EPA 8082A
Polynuclear Aromatics	
Acenaphthene	EPA 625.1
	EPA 8270E
Acenaphthylene	EPA 625.1
	EPA 8270E
Anthracene	EPA 625.1
	EPA 8270E
Benzo(a)anthracene	EPA 625.1
	EPA 8270E
Benzo(a)pyrene	EPA 625.1
	EPA 8270E
Benzo(b)fluoranthene	EPA 625.1
	EPA 8270E
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270E
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270E
Chrysene	EPA 625.1
	EPA 8270E
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270E
Fluoranthene	EPA 625.1
	EPA 8270E
Fluorene	EPA 625.1
	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 625.1

Serial No.: 67730

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. EMANUEL HEDVAT
CHEMTECH
284 SHEFFIELD STREET
MOUNTAINSIDE, NJ 07092

NY Lab Id No: 11376

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Phthalate Esters

Diethyl phthalate	EPA 8270E
Dimethyl phthalate	EPA 8270E
Di-n-butyl phthalate	EPA 8270E
Di-n-octyl phthalate	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A

Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270E
Acenaphthylene	EPA 8270E
Anthracene	EPA 8270E
Benzo(a)anthracene	EPA 8270E

Serial No.: 67731

Property of the New York State Department of Health. Certificates are valid only at the address shown and must be conspicuously posted by the laboratory. Continued accreditation depends on the laboratory's successful ongoing participation in the Program. Consumers may verify a laboratory's accreditation status online at https://apps.health.ny.gov/pubdoh/applinks/wc/elappublicweb/, by phone (518) 485-5570 or by email to elap@health.ny.gov.

www.chasolutions.com

Kathy Hochul, Governor

Roberta Reardon, Commissioner

Design & Construction

Contract Awards
Contract Management 35th Fl.
Corning Tower
Empire State Plaza
Albany NY 12242

Schedule Year	2025 through 2026
Date Requested	09/02/2025
PRC#	2025010997

Location	Finger Lakes Residential Cente
Project ID#	Q1894
Project Type	Renovate 70 Bedroom Units, Harden Walls

PREVAILING WAGE SCHEDULE FOR ARTICLE 8 PUBLIC WORK PROJECT

Attached is the current schedule(s) of the prevailing wage rates and prevailing hourly supplements for the project referenced above. A unique Prevailing Rate Case Number (PRC#) has been assigned to the schedule(s) for your project.

The schedule is effective from July 2025 through June 2026. All updates, corrections, posted on the 1st business day of each month, and future copies of the annual determination are available on the Department's website www.labor.ny.gov. Updated PDF copies of your schedule can be accessed by entering your assigned PRC# at the proper location on the website.

It is the responsibility of the contracting agency or its agent to annex and make part, the attached schedule, to the specifications for this project, when it is advertised for bids and /or to forward said schedules to the successful bidder(s), immediately upon receipt, in order to insure the proper payment of wages.

Please refer to the "General Provisions of Laws Covering Workers on Public Work Contracts" provided with this schedule, for the specific details relating to other responsibilities of the Department of Jurisdiction.

Upon completion or cancellation of this project, enter the required information and mail **OR** fax this form to the office shown at the bottom of this notice, **OR** fill out the electronic version via the NYSDOL website.

NOTICE OF COMPLETION / CANCELLATION OF PROJECT

Date Completed: _____ Date Cancelled: _____

Name & Title of Representative: _____

Phone: (518) 457-5589 Fax: (518) 485-1870
W. Averell Harriman State Office Campus, Bldg. 12, Room 130, Albany, NY 12240

General Provisions of Laws Covering Workers on Article 8 Public Work Contracts

Introduction

The Labor Law requires public work contractors and subcontractors to pay laborers, workers, or mechanics employed in the performance of a public work contract not less than the prevailing rate of wage and supplements (fringe benefits) in the locality where the work is performed.

Contractor Registry

Effective December 30, 2024 all contractors and subcontractors submitting bids or performing construction work on public work projects, or private projects covered by Article 8 of the Labor Law, are required to register with the New York State Department of Labor (NYSDOL) under Labor Law Section 220-i. To register, contractors and subcontractors must submit an application through NYSDOL's Contractor Registry portal which is available through the agency's Management System for Protecting Worker Rights (MPWR) https://mpwr-public.labor.ny.gov/en/login.

For additional information, please visit online.

Responsibilities of the Department of Jurisdiction

A Department of Jurisdiction (Contracting Agency) includes a state department, agency, board or commission: a county, city, town or village; a school district, board of education or board of cooperative educational services; a sewer, water, fire, improvement and other district corporation; a public benefit corporation; and a public authority awarding a public work contract.

The Department of Jurisdiction (Contracting Agency) awarding a public work contract MUST obtain a Prevailing Rate Schedule listing the hourly rates of wages and supplements due the workers to be employed on a public work project. This schedule may be obtained by completing and forwarding a "Request for wage and Supplement Information" form (PW 39) to the Bureau of Public Work. The Prevailing Rate Schedule MUST be included in the specifications for the contract to be awarded and is deemed part of the public work contract.

Upon the awarding of the contract, the law requires that the Department of Jurisdiction (Contracting Agency) furnish the following information to the Bureau: the name and address of the contractor, the date the contract was let and the approximate dollar value of the contract. To facilitate compliance with this provision of the Labor Law, a copy of the Department's "Notice of Contract Award" form (PW 16) is provided with the original Prevailing Rate Schedule.

The Department of Jurisdiction (Contracting Agency) is required to notify the Bureau of the completion or cancellation of any public work project. The Department's PW 200 form is provided for that purpose.

Both the PW 16 and PW 200 forms are available for completion online.

Hours

No laborer, worker, or mechanic in the employ of a contractor or subcontractor engaged in the performance of any public work project shall be permitted to work more than eight hours in any day or more than five days in any week, except in cases of extraordinary emergency. The contractor and the Department of Jurisdiction (Contracting Agency) may apply to the Bureau of Public Work for a dispensation permitting workers to work additional hours or days per week on a particular public work project.

Wages and Supplements

The wages and supplements to be paid and/or provided to laborers, workers, and mechanics employed on a public work project shall be not less than those listed in the current Prevailing Rate Schedule for the locality where the work is performed. If a prime contractor on a public work project has not been provided with a Prevailing Rate Schedule, the contractor must notify the Department of Jurisdiction (Contracting Agency) who in turn must request an original Prevailing Rate Schedule form the Bureau of Public Work. Requests may be submitted by: mail to NYSDOL, Bureau of Public Work, State Office Bldg. Campus, Bldg. 12, Rm. 130, Albany, NY 12226; Fax to Bureau of Public Work (518) 485-1870; or electronically at the NYSDOL website www.labor.ny.gov.

Upon receiving the original schedule, the Department of Jurisdiction (Contracting Agency) is REQUIRED to provide complete copies to all prime contractors who in turn MUST, by law, provide copies of all applicable county schedules to each subcontractor and obtain from each subcontractor, an affidavit certifying such schedules were received. If the original schedule expired, the contractor may obtain a copy of the new annual determination from the NYSDOL website www.labor.ny.gov.

The Commissioner of Labor makes an annual determination of the prevailing rates. This determination is in effect from July 1st through June 30th of the following year. The annual determination is available on the NYSDOL website

www.labor.ny.gov.

Payrolls and Payroll Records

Every contractor and subcontractor MUST keep original payrolls or transcripts subscribed and affirmed as true under penalty of perjury. As per Article 6 of the Labor law, contractors and subcontractors are required to establish, maintain, and preserve for not less than six (6) years, contemperaneous, true, and accurate payroll records. At a minimum, payrolls must show the following information for each person employed on a public work project: Name, Address, Last 4 Digits of Social Security Number, Classification(s) in which the worker was employed, Hourly wage rate(s) paid, Supplements paid or provided, and Daily and weekly number of hours worked in each classification.

The filing of payrolls to the Department of Jurisdiction is a condition of payment.Every contractor and subcontractor shall submit to the Department of Jurisdiction (Contracting Agency), within thirty (30) days after issuance of its first payroll and every thirty (30) days thereafter, a transcript of the original payrolls, subscribed and affirmed as true under penalty of perjury. The Department of Jurisdiction (Contracting Agency) shall collect, review for facial validity, and maintain such payrolls.

In addition, the Commissioner of Labor may require contractors to furnish, with ten (10) days of a request, payroll records sworn to as their validity and accuracy for public work and private work. Payroll records include, but are not limited to time cards, work description sheets, proof that supplements were provided, cancelled payroll checks and payrolls. Failure to provide the requested information within the allotted ten (10) days will result in the withholding of up to 25% of the contract, not to exceed $100,000.00. If the contractor or subcontractor does not maintain a place of business in New York State and the amount of the contract exceeds $25,000.00, payroll records and certifications must be kept on the project worksite.

The prime contractor is responsible for any underpayments of prevailing wages or supplements by any subcontractor.

All contractors or their subcontractors shall provide to their subcontractors a copy of the Prevailing Rate Schedule specified in the public work contract as well as any subsequently issued schedules. A failure to provide these schedules by a contractor or subcontractor is a violation of Article 8, Section 220-a of the Labor Law.

All subcontractors engaged by a public work project contractor or its subcontractor, upon receipt of the original schedule and any subsequently issued schedules, shall provide to such contractor a verified statement attesting that the subcontractor has received the Prevailing Rate Schedule and will pay or provide the applicable rates of wages and supplements specified therein. (See NYS Labor Laws, Article 8 . Section 220-a).

Determination of Prevailing Wage and Supplement Rate Updates Applicable to All Counties

The wages and supplements contained in the annual determination become effective July 1st whether or not the new determination has been received by a given contractor. Care should be taken to review the rates for obvious errors. Any corrections should be brought to the Department's attention immediately. It is the responsibility of the public work contractor to use the proper rates. If there is a question on the proper classification to be used, please call the district office located nearest the project. Any errors in the annual determination will be corrected and posted to the NYSDOL website on the first business day of each month. Contractors are responsible for paying these updated rates as well, retroactive to July 1st.

When you review the schedule for a particular occupation, your attention should be directed to the dates above the column of rates. These are the dates for which a given set of rates is effective. To the extent possible, the Department posts rates in its possession that cover periods of time beyond the July 1st to June 30th time frame covered by a particular annual determination. Rates that extend beyond that instant time period are informational ONLY and may be updated in future annual determinations that actually cover the then appropriate July 1st to June 30th time period.

Withholding of Payments

When a complaint is filed with the Commissioner of Labor alleging the failure of a contractor or subcontractor to pay or provide the prevailing wages or supplements, or when the Commissioner of Labor believes that unpaid wages or supplements may be due, payments on the public work contract shall be withheld from the prime contractor in a sufficient amount to satisfy the alleged unpaid wages and supplements, including interest and civil penalty, pending a final determination.

When the Bureau of Public Work finds that a contractor or subcontractor on a public work project failed to pay or provide the requisite prevailing wages or supplements, the Bureau is authorized by Sections 220-b and 235.2 of the Labor Law to so notify the financial officer of the Department of Jurisdiction (Contracting Agency) that awarded the public work contract. Such officer MUST then withhold or cause to be withheld from any payment due the prime contractor on account of such contract the amount indicated by the Bureau as sufficient to satisfy the unpaid wages and supplements, including interest and any civil penalty that may be assessed by the Commissioner of Labor. The withholding continues until there is a final determination of the underpayment by the Commissioner of Labor or by the court in the event a legal proceeding is instituted for review of the determination of the Commissioner of Labor.

The Department of Jurisdiction (Contracting Agency) shall comply with this order of the Commissioner of Labor or of the court with respect to the release of the funds so withheld.

Summary of Notice Posting Requirements

The current Prevailing Rate Schedule must be posted in a prominent and accessible place on the site of the public work project. The prevailing wage schedule must be encased in, or constructed of, materials capable of withstanding adverse weather conditions and be titled "PREVAILING RATE OF WAGES" in letters no smaller than two (2) inches by two (2) inches.

The "Public Work Project" notice must be posted at the beginning of the performance of every public work contract, on each job site.

Every employer providing workers. compensation insurance and disability benefits must post notices of such coverage in the format prescribed by the Workers. Compensation Board in a conspicuous place on the jobsite.

Every employer subject to the NYS Human Rights Law must conspicuously post at its offices, places of employment, or employment training centers, notices furnished by the State Division of Human Rights.

Employers liable for contributions under the Unemployment Insurance Law must conspicuously post on the jobsite notices furnished by the NYS Department of Labor.

Apprentices

Employees cannot be paid apprentice rates unless they are individually registered in a program registered with the NYS Commissioner of Labor. The allowable ratio of apprentices to journeyworkers in any craft classification can be no greater than the statewide building trade ratios promulgated by the Department of Labor and included with the Prevailing Rate Schedule. An employee listed on a payroll as an apprentice who is not registered as above or is performing work outside the classification of work for which the apprentice is indentured, must be paid the prevailing journeyworker's wage rate for the classification of work the employee is actually performing.

NYSDOL Labor Law, Article 8, Section 220-3, require that only apprentices individually registered with the NYS Department of Labor may be paid apprenticeship rates on a public work project. No other Federal or State Agency of office registers apprentices in New York State.

Persons wishing to verify the apprentice registration of any person must do so in writing by mail, to the NYSDOL Office of Employability Development / Apprenticeship Training, State Office Bldg. Campus, Bldg. 12, Albany, NY 12226 or by Fax to NYSDOL Apprenticeship Training (518) 457-7154. All requests for verification must include the name and social security number of the person for whom the information is requested.

The only conclusive proof of individual apprentice registration is written verification from the NYSDOL Apprenticeship Training Albany Central office. Neither Federal nor State Apprenticeship Training offices outside of Albany can provide conclusive registration information.

It should be noted that the existence of a registered apprenticeship program is not conclusive proof that any person is registered in that program. Furthermore, the existence or possession of wallet cards, identification cards, or copies of state forms is not conclusive proof of the registration of any person as an apprentice.

Interest and Penalties

In the event that an underpayment of wages and/or supplements is found:

- Interest shall be assessed at the rate then in effect as prescribed by the Superintendent of Banks pursuant to section 14-a of the Banking Law, per annum from the date of underpayment to the date restitution is made.
- A Civil Penalty may also be assessed, not to exceed 25% of the total of wages, supplements, and interest due.

Debarment

Any contractor or subcontractor and/or its successor shall be ineligible to submit a bid on or be awarded any public work contract or subcontract with any state, municipal corporation or public body for a period of five (5) years when:

- Two (2) willful determinations have been rendered against that contractor or subcontractor and/or its successor within any consecutive six (6) year period.
- There is any willful determination that involves the falsification of payroll records or the kickback of wages or supplements.

Criminal Sanctions

Willful violations of the Prevailing Wage Law (Article 8 of the Labor Law) may be a felony punishable by fine or imprisonment of up to 15 years, or both.

Discrimination

No employee or applicant for employment may be discriminated against on account of age, race, creed, color, national origin, sex, disability or marital status.

No contractor, subcontractor nor any person acting on its behalf, shall by reason of race, creed, color, disability, sex or national origin discriminate against any citizen of the State of New York who is qualified and available to perform the work to which the employment relates (NYS Labor Law, Article 8, Section 220-e(a)).

No contractor, subcontractor, nor any person acting on its behalf, shall in any manner, discriminate against or intimidate any employee on account of race, creed, color, disability, sex, or national origin (NYS Labor Law, Article 8, Section 220-e(b)).

The Human Rights Law also prohibits discrimination in employment because of age, marital status, or religion.

There may be deducted from the amount payable to the contractor under the contract a penalty of $50.00 for each calendar day during which such person was discriminated against or intimidated in violation of the provision of the contract (NYS Labor Law, Article 8, Section 220-e(c)).

The contract may be cancelled or terminated by the State or municipality. All monies due or to become due thereunder may be forfeited for a second or any subsequent violation of the terms or conditions of the anti-discrimination sections of the contract (NYS Labor Law, Article 8, Section 220-e(d)).

Every employer subject to the New York State Human Rights Law must conspicuously post at its offices, places of employment, or employment training centers notices furnished by the State Division of Human Rights.

Workers' Compensation

In accordance with Section 142 of the State Finance Law, the contractor shall maintain coverage during the life of the contract for the benefit of such employees as required by the provisions of the New York State Workers' Compensation Law.

A contractor who is awarded a public work contract must provide proof of workers' compensation coverage prior to being allowed to begin work.

The insurance policy must be issued by a company authorized to provide workers' compensation coverage in New York State. Proof of coverage must be on form C-105.2 (Certificate of Workers' Compensation Insurance) and must name this agency as a certificate holder.

If New York State coverage is added to an existing out-of-state policy, it can only be added to a policy from a company authorized to write workers' compensation coverage in this state. The coverage must be listed under item 3A of the information page.

The contractor must maintain proof that subcontractors doing work covered under this contract secured and maintained a workers' compensation policy for all employees working in New York State.

Every employer providing worker's compensation insurance and disability benefits must post notices of such coverage in the format prescribed by the Workers' Compensation Board in a conspicuous place on the jobsite.

Unemployment Insurance

Employers liable for contributions under the Unemployment Insurance Law must conspicuously post on the jobsite notices furnished by the New York State Department of Labor.

Kathy Hochul, Governor

Roberta Reardon, Commissioner

Design & Construction

Contract Awards
Contract Management 35th Fl.
Corning Tower
Empire State Plaza
Albany NY 12242

Schedule Year 2025 through 2026
Date Requested 09/02/2025
PRC# 2025010997

Location Finger Lakes Residential Cente
Project ID# Q1894
Project Type Renovate 70 Bedroom Units, Harden Walls

Notice of Contract Award

New York State Labor Law, Article 8, Section 220.3a requires that certain information regarding the awarding of public work contracts, be furnished to the Commissioner of Labor. One "Notice of Contract Award" (PW 16, which may be photocopied), **MUST** be completed for **EACH** prime contractor on the above referenced project.

Upon notifying the successful bidder(s) of this contract, enter the required information and mail **OR** fax this form to the office shown at the bottom of this notice, **OR** fill out the electronic version via the NYSDOL website.

Contractor Information
All information must be supplied

Federal Employer Identification Number: _____

Name: _____

Address: _____

_____

City: _____ State: _____ Zip: _____

Amount of Contract: $_____

Approximate Starting Date: ____/____/____

Approximate Completion Date: ____/____/____

Contract Type:
[ ] (01) General Construction
[ ] (02) Heating/Ventilation
[ ] (03) Electrical
[ ] (04) Plumbing
[ ] (05) Other : _____

Phone: (518) 457-5589 Fax: (518) 485-1870
W. Averell Harriman State Office Campus, Bldg. 12, Room 130, Albany, NY 12226

Social Security Numbers on Certified Payrolls:

The Department of Labor is cognizant of the concerns of the potential for misuse or inadvertent disclosure of social security numbers. Identity theft is a growing problem and we are sympathetic to contractors' concern regarding inclusion of this information on payrolls if another identifier will suffice.

For these reasons, the substitution of the use of the last four digits of the social security number on certified payrolls submitted to contracting agencies on public work projects is now acceptable to the Department of Labor. This change does not affect the Department's ability to request and receive the entire social security number from employers during its public work/ prevailing wage investigations.

Construction Industry Fair Play Act: Required Posting for Labor Law Article 25-B § 861-d

Construction industry employers must post the "Construction Industry Fair Play Act" notice in a prominent and accessible place on the job site. Failure to post the notice can result in penalties of up to $1,500 for a first offense and up to $5,000 for a second offense. The posting is included as part of this wage schedule. Additional copies may be obtained from the NYS DOL website, https://dol.ny.gov/public-work-and-prevailing-wage
If you have any questions concerning the Fair Play Act, please call the State Labor Department toll-free at 1-866-435-1499 or email us at: dol.misclassified@labor.ny.gov .

Worker Notification: (Labor Law §220, paragraph a of subdivision 3-a)

Effective June 23, 2020

This provision is an addition to the existing wage rate law, Labor Law §220, paragraph a of subdivision 3-a. It requires contractors and subcontractors to provide written notice to all laborers, workers or mechanics of the *prevailing wage and supplement rate* for their particular job classification *on each pay stub**. It also requires contractors and subcontractors to *post a notice* at the beginning of the performance of every public work contract *on each job site* that includes the telephone number and address for the Department of Labor and a statement informing laborers, workers or mechanics of their right to contact the Department of Labor if he/she is not receiving the proper prevailing rate of wages and/or supplements for his/her job classification. The required notification will be provided with each wage schedule, may be downloaded from our website *www.labor.ny.gov* or be made available upon request by contacting the Bureau of Public Work at 518-457-5589. *In the event the required information will not fit on the pay stub, an accompanying sheet or attachment of the information will suffice.

(12.20)

To all State Departments, Agency Heads and Public Benefit Corporations
IMPORTANT NOTICE REGARDING PUBLIC WORK ENFORCEMENT FUND

Budget Policy & Reporting Manual

B-610

Public Work Enforcement Fund

effective date December 7, 2005

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1. Purpose and Scope:

This Item describes the Public Work Enforcement Fund (the Fund, PWEF) and its relevance to State agencies and public benefit corporations engaged in construction or reconstruction contracts, maintenance and repair, and announces the recently-enacted increase to the percentage of the dollar value of such contracts that must be deposited into the Fund. This item also describes the roles of the following entities with respect to the Fund:

- New York State Department of Labor (DOL),
- The Office of the State of Comptroller (OSC), and
- State agencies and public benefit corporations.

2. Background and Statutory References:

DOL uses the Fund to enforce the State's Labor Law as it relates to contracts for construction or reconstruction, maintenance and repair, as defined in subdivision two of Section 220 of the Labor Law. State agencies and public benefit corporations participating in such contracts are required to make payments to the Fund.

Chapter 511 of the Laws of 1995 (as amended by Chapter 513 of the Laws of 1997, Chapter 655 of the Laws of 1999, Chapter 376 of the Laws of 2003 and Chapter 407 of the Laws of 2005) established the Fund.

3. Procedures and Agency Responsibilities:

The Fund is supported by transfers and deposits based on the value of contracts for construction and reconstruction, maintenance and repair, as defined in subdivision two of Section 220 of the Labor Law, into which all State agencies and public benefit corporations enter.

Chapter 407 of the Laws of 2005 increased the amount required to be provided to this fund to .10 of one-percent of the total cost of each such contract, to be calculated at the time agencies or public benefit corporations enter into a new contract or if a contract is amended. The provisions of this bill became effective August 2, 2005.

To all State Departments, Agency Heads and Public Benefit Corporations
IMPORTANT NOTICE REGARDING PUBLIC WORK ENFORCEMENT FUND

OSC will report to DOL on all construction-related ("D") contracts approved during the month, including contract amendments, and then DOL will bill agencies the appropriate assessment monthly. An agency may then make a determination if any of the billed contracts are exempt and so note on the bill submitted back to DOL. For any instance where an agency is unsure if a contract is or is not exempt, they can call the Bureau of Public Work at the number noted below for a determination. Payment by check or journal voucher is due to DOL within thirty days from the date of the billing. DOL will verify the amounts and forward them to OSC for processing.

For those contracts which are not approved or administered by the Comptroller, monthly reports and payments for deposit into the Public Work Enforcement Fund must be provided to the Administrative Finance Bureau at the DOL within 30 days of the end of each month or on a payment schedule mutually agreed upon with DOL.

Reports should contain the following information:

- Name and billing address of State agency or public benefit corporation;
- State agency or public benefit corporation contact and phone number;
- Name and address of contractor receiving the award;
- Contract number and effective dates;
- Contract amount and PWEF assessment charge (if contract amount has been amended, reflect increase or decrease to original contract and the adjustment in the PWEF charge); and
- Brief description of the work to be performed under each contract.

Checks and Journal Vouchers, payable to the "New York State Department of Labor" should be sent to:

Department of Labor
Administrative Finance Bureau-PWEF Unit
Building 12, Room 464
State Office Campus
Albany, NY 12226

Any questions regarding billing should be directed to NYSDOL's Administrative Finance Bureau-PWEF Unit at (518) 457-3624 and any questions regarding Public Work Contracts should be directed to the Bureau of Public Work at (518) 457-5589.

NEW YORK STATE OF OPPORTUNITY. Department of Labor

Required Notice under Article 25-B of the Labor Law

Attention All Employees, Contractors and Subcontractors: You are Covered by the Construction Industry Fair Play Act

The law says that you are an employee unless:

- You are free from direction and control in performing your job, **and**
- You perform work that is not part of the usual work done by the business that hired you, **and**
- You have an independently established business.

Your employer cannot consider you to be an independent contractor unless all three of these facts apply to your work.

It is against the law for an employer to misclassify employees as independent contractors or pay employees off the books.

Employee Rights: If you are an employee, you are entitled to state and federal worker protections. These include:

- Unemployment Insurance benefits, if you are unemployed through no fault of your own, able to work, and otherwise qualified,
- Workers' compensation benefits for on-the-job injuries,
- Payment for wages earned, minimum wage, and overtime (under certain conditions),
- Prevailing wages on public work projects,
- The provisions of the National Labor Relations Act, and
- A safe work environment.

It is a violation of this law for employers to retaliate against anyone who asserts their rights under the law. Retaliation subjects an employer to civil penalties, a private lawsuit or both.

Independent Contractors: If you are an independent contractor**, you must pay all taxes and Unemployment Insurance contributions required by New York State and Federal Law.**

Penalties for paying workers off the books or improperly treating employees as independent contractors:

- **Civil Penalty** — First offense: Up to $2,500 per employee

  Subsequent offense(s): Up to $5,000 per employee

- **Criminal Penalty** — First offense: Misdemeanor - up to 30 days in jail, up to a $25,000 fine and debarment from performing public work for up to one year.

  Subsequent offense(s): Misdemeanor - up to 60 days in jail or up to a $50,000 fine and debarment from performing public work for up to 5 years.

If you have questions about your employment status or believe that your employer may have violated your rights and you want to file a complaint, call the Department of Labor at (866) 435-1499 or send an email to dol.misclassified@labor.ny.gov. All complaints of fraud and violations are taken seriously. You can remain anonymous.

Employer Name:

IA 999 (09/16)

WE ARE YOUR DOL

NEW YORK STATE Department of Labor

New York State Department of Labor
Bureau of Public Work

Attention Employees

THIS IS A:

PUBLIC WORK PROJECT

If you are employed on this project as a **worker, laborer, or mechanic** you are entitled to receive the **prevailing wage and supplements rate** for the classification at which you are working.

Your pay stub and wage notice received upon hire must clearly state your wage rate and supplement rate.

Chapter 629 of the Labor Laws of 2007:

These wages are set by law and must be posted at the work site. They can also be found at: https://dol.ny.gov/bureau-public-work

If you feel that you have not received proper wages or benefits, please call our nearest office.*

Albany	(518) 457-2744	Patchogue	(631) 687-4882
Binghamton	(607) 721-8005	Rochester	(585) 258-4505
Buffalo	(716) 847-7159	Syracuse	(315) 428-4056
Garden City	(516) 228-3915	Utica	(315) 793-2314
New York City	(212) 932-2419	White Plains	(914) 997-9507
Newburgh	(845) 568-5287		

* For New York City government agency construction projects, please contact the Office of the NYC Comptroller at (212) 669-4443, or www.comptroller.nyc.gov – click on Bureau of Labor Law.

Contractor Name: _____

Project Location: _____

Requirements for OSHA 10 Compliance

Article 8 §220-h requires that when the advertised specifications, for every contract for public work, is $250,000.00 or more the contract must contain a provision requiring that every worker employed in the performance of a public work contract shall be certified as having completed an OSHA 10 safety training course. The clear intent of this provision is to require that all employees of public work contractors, required to be paid prevailing rates, receive such training “prior to the performing any work on the project.”

The Bureau will enforce the statute as follows:

All contractors and sub contractors must attach a copy of proof of completion of the OSHA 10 course to the first certified payroll submitted to the contracting agency and on each succeeding payroll where any new or additional employee is first listed.

Proof of completion may include but is not limited to:

- Copies of bona fide course completion card (*Note: Completion cards do not have an expiration date.)*
- Training roster, attendance record of other documentation from the certified trainer pending the issuance of the card.
- Other valid proof

**A certification by the employer attesting that all employees have completed such a course is not sufficient proof that the course has been completed.

Any questions regarding this statute may be directed to the New York State Department of Labor, Bureau of Public Work at 518-457-5589.

WICKS

Public work projects are subject to the Wicks Law requiring separate specifications and bidding for the plumbing, heating and electrical work, when the total project's threshold is $3 million in Bronx, Kings, New York, Queens and, Richmond counties; $1.5 million in Nassau, Suffolk and Westchester counties; and $500,000 in all other counties.

For projects below the monetary threshold, bidders must submit a sealed list naming each subcontractor for the plumbing, HVAC and electrical and the amount to be paid to each. The list may not be changed unless the public owner finds a legitimate construction need, including a change in specifications or costs or the use of a Project Labor Agreement (PLA), and must be open to public inspection.

Allows the state and local agencies and authorities to waive the Wicks Law and use a PLA if it will provide the best work at the lowest possible price. If a PLA is used, all contractors shall participate in apprentice training programs in the trades of work it employs that have been approved by the Department of Labor (DOL) for not less than three years. They shall also have at least one graduate in the last three years and use affirmative efforts to retain minority apprentices. PLA's would be exempt from Wicks, but deemed to be public work subject to prevailing wage enforcement.

The Commissioner of Labor shall have the power to enforce separate specification requirement s on projects, and may issue stop-bid orders against public owners for non-compliance.

Other new monetary thresholds, and similar sealed bidding for non-Wicks projects, would apply to certain public authorities including municipal housing authorities, NYC Construction Fund, Yonkers Educational Construction Fund, NYC Municipal Water Finance Authority, Buffalo Municipal Water Finance Authority, Westchester County Health Care Association, Nassau County Health Care Corp., Clifton-Fine Health Care Corp., Erie County Medical Center Corp., NYC Solid Waste Management Facilities, and the Dormitory Authority.

Contractors must pay subcontractors within a 7 days period.

(07.19)

Introduction to the Prevailing Rate Schedule

Information About Prevailing Rate Schedule

This information is provided to assist you in the interpretation of particular requirements for each classification of worker contained in the attached Schedule of Prevailing Rates.

Classification

It is the duty of the Commissioner of Labor to make the proper classification of workers taking into account whether the work is heavy and highway, building, sewer and water, tunnel work, or residential, and to make a determination of wages and supplements to be paid or provided. It is the responsibility of the public work contractor to use the proper rate. If there is a question on the proper classification to be used, please call the district office located nearest the project. District office locations and phone numbers are listed below.
Prevailing Wage Schedules are issued separately for "General Construction Projects" and "Residential Construction Projects" on a county-by-county basis.

General Construction Rates apply to projects such as: Buildings, Heavy & Highway, and Tunnel and Water & Sewer rates.
Residential Construction Rates generally apply to construction, reconstruction, repair, alteration, or demolition of one family, two family, row housing, or rental type units intended for residential use.
Some rates listed in the Residential Construction Rate Schedule have a very limited applicability listed along with the rate. Rates for occupations or locations not shown on the residential schedule must be obtained from the General Construction Rate Schedule. Please contact the local Bureau of Public Work office before using Residential Rate Schedules, to ensure that the project meets the required criteria.

*Contractor Registry (LL 220-I): Effective December 30th, 2024
Labor Law Section 220-i(6) prohibits contractors from bidding on public work and prohibits both contractors and subcontractors from commencing work on private and public projects subject to prevailing wage requirements. This section requires contractors to submit their Certificate of Registration with their bid materials. Each Certificate of Registration will have a unique registration number. Failure to provide proof of registration, as required by Labor Law Section 220-i, as a minimum qualification will result in the bidder being deemed non-responsive. There is a public database of registered contractors and subcontractors available online at data.ny.gov to confirm registration validity. For additional information on how to register and the requirements, visit https://dol.ny.gov/public-work-contractor-and-subcontractor-registry-landing

*Electronic Certified Payroll (LL 220-K): Effective December 31st, 2025
Effective December 31, 2025, all contractors and subcontractors who perform public work, or covered private work subject to the prevailing wage, will be required to submit certified payrolls electronically to the Bureau of Public Work and Prevailing Wage Enforcement. Additional information about the electronic certified payroll submission system will be made available on the Department's Website at https://dol.ny.gov/Electronic-Payroll

Payrolls and Payroll Records

Every contractor and subcontractor MUST keep original payrolls or transcripts subscribed and affirmed as true under penalty of perjury. Payrolls must be maintained for at least three (3) years from the projects date of completion. Additionally, as per Article 6 of the Labor Law, contractors and subcontractors are required to establish, maintain, and preserve for not less that six (6) years, contemporaneous, true, and accurate payroll records.

At a minimum, payrolls must show the following information for each person employed on a public work project: Name; Address, Last 4 Digits of Social Security number, Classification(s) in which the worker was employed, Hourly wage rate(s) paid, Supplements paid or provided, and Daily and weekly number of hours worked in each classification.

Payroll records and transcripts are required to be kept on site during all the time that work under that contract is being performed.

NOTE: *For more detailed information regarding Article 9 prevailing wage contracts, please refer to "General Provisions of Laws Covering Workers on Article 9 Public Work Building Service Contracts".*

If you have any questions concerning the attached schedule or would like additional information, please write to:

New York State Department of Labor
Bureau of Public Work
State Office Campus, Bldg. 12
Albany, NY 12240

OR

Contact the nearest BUREAU of PUBLIC WORK District Office

District Office Locations:	Telephone #	FAX #
Bureau of Public Work - Albany	518-457-2744	518-485-0240
Bureau of Public Work - Binghamton	607-721-8005	607-721-8004

Bureau of Public Work - Buffalo	716-847-7159	716-847-7650
Bureau of Public Work - Garden City	516-228-3915	516-794-3518
Bureau of Public Work - Newburgh	845-568-5287	845-568-5332
Bureau of Public Work - New York City	212-932-2419	212-775-3579
Bureau of Public Work - Patchogue	631-687-4882	631-687-4902
Bureau of Public Work - Rochester	585-258-4505	585-258-4708
Bureau of Public Work - Syracuse	315-428-4056	315-428-4671
Bureau of Public Work - Utica	315-793-2314	315-793-2514
Bureau of Public Work - White Plains	914-997-9507	914-997-9523
Bureau of Public Work - Central Office	518-457-5589	518-485-1870

Paid Holidays

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

Overtime

At a minimum, all work performed on a public work project in excess of eight hours in any one day or more than five days in any workweek is overtime. However, the specific overtime requirements for each trade or occupation on a public work project may differ. Specific overtime requirements for each trade or occupation are contained in the prevailing rate schedules.

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays.

The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Supplemental Benefits

Particular attention should be given to the supplemental benefit requirements. Although in most cases the payment or provision of supplements is straight time for all hours worked, some classifications require the payment or provision of supplements, or a portion of the supplements, to be paid or provided at a premium rate for premium hours worked. Supplements may also be required to be paid or provided on paid holidays, regardless of whether the day is worked. The Overtime Codes and Notes listed on the particular wage classification will indicate these conditions as required.

Effective Dates

When you review the schedule for a particular occupation, your attention should be directed to the dates above the column of rates. These are the dates for which a given set of rates is effective. The rate listed is valid until the next effective rate change or until the new annual determination which takes effect on July 1 of each year.

All contractors and subcontractors are required to pay the current prevailing rates of wages and supplements. If you have any questions please contact the Bureau of Public Work or visit the New York State Department of Labor website (www.labor.ny.gov) for current wage rate information.

Shift Work

If the timeline of the contract requires shift work be performed to meet deadlines, the BPWE will enforce the shift work rate as the required rate on the project whether or not shift work is specifically addressed in the contract.

Paid Prenatal Leave

Every employer shall be required to provide to its employees twenty hours of paid prenatal personal leave during any fifty-two week calendar period. Paid prenatal personal leave shall mean leave taken for the health care services received by an employee during their pregnancy or related to such pregnancy, including physical examinations, medical procedures, monitoring and testing, and discussions with a healthcare provider related to the pregnancy. Paid prenatal personal leave may be taken in hourly increments. Benefits for paid prenatal personal leave shall be paid in hourly installments. Employees shall receive compensation at the employee's regular rate of pay, or the applicable minimum wage established by the labor law, whichever is greater, for the use of Paid Prenatal leave.

Apprentice Training Ratios

The following are the allowable ratios of registered Apprentices to Journey-workers.

For example, the ratio 1:1,1:3 indicates the allowable initial ratio is one Apprentice to one Journeyworker. The Journeyworker must be in place on the project before an Apprentice is allowed. Then three additional Journeyworkers are needed before a second Apprentice is allowed. The last ratio repeats indefinitely. Therefore, three more Journeyworkers must be present before a third Apprentice can be hired, and so on.

Please call Apprentice Training Central Office at (518) 457-6820 if you have any questions.

Title (Trade)	Ratio
Boilermaker (Construction)	1:1,1:4
Boilermaker (Shop)	1:1,1:3
Carpenter (Bldg.,H&H, Pile Driver/Dockbuilder)	1:1,1:4
Carpenter (Residential)	1:1,1:3
Electrical (Outside) Lineman	1:1,1:2
Electrician (Inside)	1:1,1:3
Elevator/Escalator Construction & Modernizer	1:1,1:2
Glazier	1:1,1:3
Insulation & Asbestos Worker	1:1,1:3
Iron Worker	1:1,1:4
Laborer	1:1,1:3
Mason	1:1,1:4
Millwright	1:1,1:4
Op Engineer	1:1,1:5
Painter	1:1,1:3
Plumber & Steamfitter	1:1,1:3
Roofer	1:1,1:2
Sheet Metal Worker	1:1,1:3
Sprinkler Fitter	1:1,1:2

If you have any questions concerning the attached schedule or would like additional information, please contact the nearest BUREAU of PUBLIC WORK District Office or write to:

New York State Department of Labor
Bureau of Public Work
State Office Campus, Bldg. 12
Albany, NY 12226

District Office Locations:	Telephone #	FAX #
Bureau of Public Work - Albany	518-457-2744	518-485-0240
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Bureau of Public Work - Newburgh	845-568-5287	845-568-5332
Bureau of Public Work - New York City	212-932-2419	212-775-3579
Bureau of Public Work - Patchogue	631-687-4882	631-687-4902
Bureau of Public Work - Rochester	585-258-4505	585-258-4708
Bureau of Public Work - Syracuse	315-428-4056	315-428-4671
Bureau of Public Work - Utica	315-793-2314	315-793-2514
Bureau of Public Work - White Plains	914-997-9507	914-997-9523
Bureau of Public Work - Central Office	518-457-5589	518-485-1870

Tompkins County General Construction

Boilermaker — 09/01/2025

JOB DESCRIPTION Boilermaker **DISTRICT** 7

ENTIRE COUNTIES
Cayuga, Clinton, Cortland, Franklin, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Seneca, St. Lawrence, Tompkins

WAGES

Per hour:	07/01/2025	01/01/2026 Additional	01/01/2027 Additional
Boilermaker	$ 40.50	$ 2.50*	$ 2.50*

* To be allocated at a later date.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 26.60* + 1.49

*This portion of the benefits subject to the same premium rate as shown for overtime wages.

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 25) on HOLIDAY PAGE
NOTE: When a holiday falls on Sunday, the day observed by the State or Nation shall be observed. When a holiday falls on Saturday, Friday will be observed as the holiday.

REGISTERED APPRENTICES
WAGES per hour: Six (6) month terms at the following percentage of Journeyworker's wage.

1st	2nd	3rd	4th	5th	6th	7th	8th
65%	65%	70%	75%	80%	85%	90%	95%

SUPPLEMENTAL BENEFITS per hour:

$ 19.76* + 1.49	$ 19.76* + 1.49	$ 20.74* + 1.49	$ 21.71* + 1.49	$ 22.67* + 1.49	$ 23.66* + 1.49	$ 24.66* + 1.49	$ 25.62* + 1.49

*This portion of the benefits subject to the same premium rate as shown for overtime wages.

7-175

Broadband — 09/01/2025

JOB DESCRIPTION Broadband **DISTRICT** 4

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

PARTIAL COUNTIES
Orange: Only in the Village of Greenwood Lake, Village of Highland Falls, Town of Tuxedo, and Town of Patterson

WAGES
NOTE: Applies to all public work and covered private projects, including those receiving ConnectAll funding subject to New York State Labor Law §224-E, solicited on or after July 1,2025. For all other projects solicited prior to July 1,2025 please see LINEMAN ELECTRICIAN-TELEDATA

Per Hour:	07/01/2025	08/04/2025
Field Tech Install/Repair	$ 51.31	$ 52.85

For outside work (excluding installation on building construction/alteration/renovation projects), stopping at first point of attachment (demarcation), installing/maintaining/repairing broadband internet service.

"Broadband", "Broadband Service", or "Broadband Internet" means mass-market retail service by wire or radio that provides the capability to transmit data to and receive data from all or substantially all internet endpoints, including any capabilities that are incidental to and enable the operation of the communications service, but excluding dial-up internet access service.

Note: EXLCUDES work within ten (10) feet of High Voltage (600 Volts and over) transmission lines for this work, please see LINEMAN

SUPPLEMENTAL BENEFITS
Per Hour:

$ 23.24

OVERTIME PAY
See (B, K, *R) on OVERTIME PAGE
* Two and one half times the hourly rate after the 8th hour

HOLIDAY
Paid: See (5, 6, 7, 11, 12) on HOLIDAY PAGE
Overtime: See (5, 6, 7, 11, 12) on HOLIDAY PAGE

4-CWA-Dist2

Carpenter - Building 09/01/2025

JOB DESCRIPTION Carpenter - Building **DISTRICT** 2

ENTIRE COUNTIES
Chemung, Cortland, Schuyler, Steuben, Tompkins

PARTIAL COUNTIES
Allegany: Only the Township of Alfred.

WAGES

Per hour:	07/01/2025	01/01/2026	07/01/2026 Additional	07/01/2027 Additional
Carpenter	$ 31.59	$ 32.09	$ 3.50*	$ 4.00*
Floor Coverer	31.59	32.09	3.50*	4.00*
Carpet Layer	31.59	32.09	3.50*	4.00*
Dry-Wall	31.59	32.09	3.50*	4.00*
Diver-Wet Day	61.25	61.25	0.00	4.00*
Diver -Dry Day	32.59	33.09	3.50*	4.00*
Diver Tender	32.59	33.09	3.50*	4.00*

*To be allocated at a later date

NOTE ADDITIONAL AMOUNTS PAID FOR THE FOLLOWING WORK LISTED BELOW (per hour worked):
- Pile Drivers/Dock Builders shall receive $0.25 per hour over the journeyworker's rate of pay when performing piledriving/dock building work.
- Certified welders shall receive $1.00 per hour over the journeyworker's rate of pay when the employee is required to be certified and performs DOT or ABS specified welding work (Effective 7/1/2026 premium increases to $3.00/hr and will include premium when AWS certification is required).
- When an employee performs work within a contaminated area on a State and/or Federally designated hazardous waste site, and where relevant State and/or Federal regulations require employees to be furnished and use or wear required forms of personal protection, then the employee shall receive his regular hourly rate plus $1.50 per hour.
- Depth pay for Divers based upon deepest depth on the day of the dive (per diem payment):
  0' to 80' no additional fee
  81'to 100' additional $.50 per foot
  101'to 150' additional $0.75 per foot
  151'and deeper additional $1.25 per foot
- Penetration pay for Divers based upon deepest penetration on the day of the dive (per diem payment):
  0' to 50' no additional fee
  51' to 100' additional $.75 per foot
  101' and deeper additional $1.00 per foot
- Diver rates applies to all hours worked on dive day.

SHIFT WORK
On Agency/Owner mandated shift work, the following rates will be applicable:
1st Shift - Regular Rate
2nd Shift - Premium of 7% of base wage per hour (Effective 7/1/2026 premium increases to 10%)
3rd Shift - Premium of 14% of base wage per hour (Effective 7/1/2026 premium increases to 15%)
Shift work shall be defined as implementing at least two (2) shifts in a twenty-four (24) consecutive hour period. Shift work must be for a minimum of three (3) consecutive days.

SUPPLEMENTAL BENEFITS
Per hour:

	07/01/2025	01/01/2026
Journeyworker	$ 23.39	$ 23.39

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: Any holiday which occurs on Sunday shall be observed the following Monday. If Christmas falls on a Saturday, it shall be observed on the prior Friday.

REGISTERED APPRENTICES
Wages per hour (1300 hour terms at the following percentage of Journeyworker's base wage):

1st	2nd	3rd	4th
65%	70%	75%	80%

Supplemental Benefits per hour:

$ 12.55	$ 12.55	$ 15.15	$ 15.15

NOTE ADDITIONAL AMOUNTS PAID TO APPRENTICES FOR THE FOLLOWING WORK LISTED BELOW (per hour worked):
- Pile Driving/Dock Builder apprentices shall receive an additional $0.25 per hour worked when performing piledriving/dock building work.
- Certified Welders shall receive $1.00 per hour over the apprentices rate of pay when the apprentice is required to be certified and performs DOT or ABS specified welding work (Effective 7/1/2026 premium increases to $3.00/hr and will include premium when AWS certification is required).
- When an apprentice performs work within a contaminated area on a State and/or Federally designated hazardous waste site, and where relevant State and/or Federal regulations require the apprentice to be furnished and use or wear required forms of personal protection, then the apprentice shall receive his regular hourly rate plus $1.50 per hour.

2-277B-CS

Carpenter - Building / Heavy&Highway — 09/01/2025

JOB DESCRIPTION Carpenter - Building / Heavy&Highway **DISTRICT** 2

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

PARTIAL COUNTIES
Orange: The area lying on Northern side of Orange County demarcated by a line drawn from the Bear Mountain Bridge continuing west to the Bear Mountain Circle, continue North on 9W to the town of Cornwall where County Road 107 (also known as Quaker Rd) crosses under 9W, then east on County Road 107 to Route 32, then north on Route 32 to Orrs Mills Rd, then west on Orrs Mills Rd to Route 94, continue west and south on Route 94 to the Town of Chester, to the intersection of Kings Highway, continue south on Kings Highway to Bellvale Rd, west on Bellvale Rd to Bellvale Lakes Rd, then south on Bellvale Lakes Rd to Kain Rd, southeast on Kain Rd to Route 17A, then north and southeast along Route 17A to Route 210, then follow Route 210 to NJ Border.

WAGES

Wages per hour:	07/01/2025	07/01/2026 Additional	07/01/2027 Additional
Carpenter - ONLY for Artificial Turf/Synthetic Sport Surface	$ 37.94	$ 2.25*	$ 2.25*

* To be allocated at a later date.

Note - Does not include the operation of equipment. Please see Operating Engineers rates.

SUPPLEMENTAL BENEFITS
Per hour worked:

Journeyworker	$ 27.34

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5) on HOLIDAY PAGE
Overtime: See (5, 6, 16) on HOLIDAY PAGE
Notes:
When a holiday falls upon a Saturday, it shall be observed on the preceding Friday. Whan a holiday falls upon a Sunday, it shall be observed on the following Monday.
An employee taking an unexcused day off the regularly scheduled day before or after a paid Holiday shall not receive Holiday pay.

REGISTERED APPRENTICES
Wages per hour (1300 hour terms at the following percentage of Journeyworker's wage):

1st	2nd	3rd	4th

65%	70%	75%	80%

Supplemental Benefits per hour worked:

$19.10	$19.69	$21.83	$22.42

2-42AtSS

Carpenter - Heavy&Highway 09/01/2025

JOB DESCRIPTION Carpenter - Heavy&Highway **DISTRICT** 2

ENTIRE COUNTIES
Broome, Cayuga, Chemung, Cortland, Delaware, Jefferson, Lewis, Onondaga, Oswego, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Yates

WAGES

Per hour	07/01/2025	07/01/2026 Additional	07/01/2027 Additional
Carpenter	$ 39.52	$ 2.00*	$ 4.42*
Piledriver	39.52	2.00*	4.42*
Dockbuilder	39.52	2.00*	4.42*
Diver-Wet Day	64.52	2.00*	4.42*
Diver-Dry Day	40.52	2.00*	4.42*
Diver-Tender	40.52	2.00*	4.42*

*To be allocated at a later date.

NOTE ADDITIONAL AMOUNTS PAID FOR THE FOLLOWING WORK LISTED BELOW (per hour worked):
- State or Federal designated hazardous site, requiring protective gear shall be an additional $2.50 per hour.
- Certified welders when required to perform welding work will receive an additional $5.00 per hour.

ADDITIONAL NOTES PERTAINING TO DIVERS/TENDERS:
- Divers and Tenders shall receive one and one half (1 1/2) times their regular diver and tender rate of pay for Effluent and Slurry diving.
- Divers and tenders being paid at the specified rate for Effluent and Slurry diving shall have all overtime rates based on the specified rate plus the appropriate overtime rates (one and one half or two times the specified rate for Slurry and Effluent divers and tenders).
- The pilot of an ADS or submersible will receive one and one-half (1 1/2) times the Diver-Wet Day Rate for time submerged.
- All crew members aboard a submersible shall receive the Diver-Wet Day rate.
- Depth pay for Divers based upon deepest depth on the day of the dive (per diem payment):
  - 0' to 50' no additional fee
  - 51' to 100' additional $0.50 per foot
  - 101' to 150' additional $0.75 per foot
  - 151' to 200' additional $1.25 per foot
  - 201' and deeper additional $1.50 per foot
- Penetration pay for Divers based upon deepest penetration on the day of the dive (per diem payment):
  - 0' to 50' no additional fee
  - 51' to 100' additional $0.75 per foot
  - 101' to 200' additional $1.00 per foot
  - Over 201' additional $1.25 per foot
- Diver rates applies to all hours worked on dive day.

SHIFT WORK
When project owner mandates a single irregular work shift, the Journeyworkers and Apprentices will receive an additional $4.00 per hour. A single irregular work shift can start any time from 5:00 p.m. to 1:00 a.m.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 27.31

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
- In the event a Holiday falls on a Saturday, the Friday before will be observed as a Holiday. If a Holiday falls on a Sunday, then Monday will be observed as a Holiday.
- The employee must work their scheduled workday before and their scheduled workday after the holiday to receive holiday pay.

REGISTERED APPRENTICES
CARPENTER/PILEDRIVER/DOCKBUILDER APPRENTICES
Wages per hour (1300 hour terms at the following percentage of journeyworker's base wage):

1st	2nd	3rd	4th
65%	70%	75%	80%

Supplemental Benefits per hour:

$ 19.07	$ 19.66	$ 21.75	$ 22.34

NOTE ADDITIONAL AMOUNTS PAID PER HOUR WORKED TO APPRENTICES FOR SPECIFIC TYPES OF WORK PERFORMED:
- State or Federal designated hazardous site, requiring protective gear shall be an additional $2.50 per hour.
- Certified welders when required to perform welding work will receive an additional $5.00 per hour.

2-277HH-Bro

Electrician 09/01/2025

JOB DESCRIPTION Electrician **DISTRICT** 6

ENTIRE COUNTIES
Cortland, Herkimer, Madison, Oneida, Oswego

PARTIAL COUNTIES
Cayuga: Townships of Ira, Locke, Sempronius, Sterling, Summerhill and Victory.
Chenango: Only the Townships of Columbus, New Berlin and Sherburne.
Onondaga: Entire County except Townships of Elbridge and Skaneateles.
Otsego: Only the Townships of Plainfield, Richfield, Springfield, Cherry Valley, Roseboom, Middlefield, Otsego, Exeter, Edmeston, Burlington, Pittsfield and New Lisbon.
Tompkins: Only the Township of Groton.
Wayne: Only the Townships of Huron, Wolcott, Rose and Butler.

WAGES

Per hour:	07/01/2025	06/01/2026 Additional
Electrician	$ 50.50	$ 5.25*
Teledata	50.50	5.25*
Cable Splicer	55.55	5.25*

* To be allocated at a later date.

NOTE: Additional amounts, subject to overtime premiums, due for the following work (applicable to all employees):
- Additional $2.50 per hour for work performed over 35 feet above the ground, floor, or roof levels or where work is required in tunnels, shafts, or under compressed air 35 feet below the ground level.
- Additional $3.00 per hour for working over 50 feet above or below ground, floor, or roof level. This includes work on ladders, "toothpicks", scaffolds, boatswain chairs, towers, smokestacks or other open structures, or mechanical lifts used over 60 feet.

Occupied Conditions: When necessary to perform alteration and/or renovation work and owner mandates (due to occupied conditions) prevent the work from being performed during "normal" working hours (defined as between 6:00 a.m. and 4:30 p.m. Monday through Friday), alternate hours may be worked, provided: 1) The hours are established for a minimum of five (5) days duration or the length of the job, whichever is shorter; and 2) An entire work scope within a job-site area is performed utilizing the varied hours. If these conditions are satisfied, all hours worked Monday through Friday of a shift that starts before or ends after the "normal" hours, shall be paid at the appropriate rate plus fifteen percent (15%). However, the following restrictions shall apply:

1) "Alternate" hours shall consist of a minimum of eight (8) consecutive hours per day.
2) Hours worked in excess of eight (8) hours per day, Monday through Friday, shall be paid at a rate of one and one-half times the applicable rate (dayshift + 15%).
3) Hours worked on Saturday shall be paid at time and one-half the applicable rate.
4) Hours worked on Sundays and Holidays shall be paid at double the straight time rate.
5) Work of a new construction nature may not be worked under these conditions.

SHIFT WORK
THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED MULTIPLE SHIFTS OF EIGHT (8) HOURS FOR AT LEAST FIVE (5) DAYS DURATION WHICH MAY HAVE BEEN WORKED. WHEN TWO (2) SHIFTS OR THREE (3) SHIFTS ARE WORKED:

1ST SHIFT	8:00AM - 4:30PM:	Regular wage rate
2ND SHIFT	4:30 PM - 1:00 AM:	Regular wage rate plus 15%
3RD SHIFT	12:30 AM - 9:00 AM:	Regular wage rate plus 25%

SUPPLEMENTAL BENEFITS

Per hour:	
Journeyworker	$ 33.52 plus 3% of hourly wage paid*

*NOTE: The 3% is based on the hourly wage paid, straight time or premium rate.

OVERTIME PAY
See (B, *E, Q) on OVERTIME PAGE

* NOTE: On Saturday the first 8 hours worked shall be paid at a rate of one and one-half times the applicable rate. All additional hours are payable at double the straight time rate.
WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 26) on HOLIDAY PAGE
NOTE: If any of the above holidays fall on Saturday, Friday shall be observed as the holiday. If any of the above holidays fall on Sunday, Monday shall be observed as the holiday.

REGISTERED APPRENTICES
WAGES per hour: Hourly terms at the following wage.

1st period (0-1000 hrs)	$ 20.20
2nd period (1001-2000)	22.75
3rd period (2001-3500)	25.25
4th period (3501-5000)	30.30
5th period (5001-6500)	35.35
6th Period (6501-8000)	40.40

SUPPLEMENTAL BENEFITS per hour:

1st period	$ 14.69*
2nd period	14.69*
3rd period	30.02*
4th period	30.72*
5th period	31.42*
6th period	32.12*

* PLUS 3% OF HOURLY WAGE PAID, STRAIGHT TIME RATE OR PREMIUM RATE.

6-43

Electrician 09/01/2025

JOB DESCRIPTION Electrician **DISTRICT** 6

ENTIRE COUNTIES

PARTIAL COUNTIES
Cayuga: Only the Township of Genoa.
Schuyler: Only the Townships of Cayuta, Catharine, and Hector.
Seneca: Only the Townships of Lodi and Covert.
Tioga: Only the Townships of Spencer and Candor.
Tompkins: Entire county except the Township of Groton.

WAGES

Per hour:	07/01/2025	06/01/2026 Additional	06/01/2027 Additional
Electrician	$ 44.50	$ 4.00*	$ 4.50*

* To be allocated at a later date.

NOTE: Additional amounts, subject to overtime premiums, due for the following work (applicable to all employees):
-Additional $1.00 per hour for work from trusses, scaffolds, frames, spider baskets, ladders, etc. 40 feet or more from ground floor or in underground mines or tunnels. Work done from personal lift equipment that complies with OSHA requirements are excluded.
-Additional $2.00 per hour when required to work under compressed air, on radio towers, on asbestos abatement projects which require the use of a respirator, work of a hazardous nature, work where gas masks are required or work requiring use of protective arc flash suits.

SHIFT WORK
THE FOLLOWING RATES WILL APPLY WHEN SHIFT WORK IS MANDATED EITHER IN THE JOB SPECIFICATION OR BY THE CONTRACTING AGENCY:

1ST SHIFT	8:00 AM to 4:30 PM	Regular wage rate
2ND SHIFT	4:30 PM to 1:00 AM	Regular wage rate plus 17.3%
3RD SHIFT	12:30 AM to 9:00 AM	Regular wage rate plus 31.4%

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 30.55 plus 3% of hourly wage paid*

* NOTE: The 3% is based on the hourly wage paid, straight time rate or premium rate.

OVERTIME PAY
See (B, *E, Q) on OVERTIME PAGE
* NOTE: On Saturday the first 8 hours worked shall be paid at a rate of one and one-half times the applicable rate. All additional hours are payable at double the straight time rate.
WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
NOTE: When a holiday falls on a Saturday, the day preceding shall be celebrated as such, and when falling on a Sunday, Monday will be celebrated as the holiday.

REGISTERED APPRENTICES
WAGES per hour: One year terms at the following percentage of Journeyworker's wage.

1st year	50%
2nd year	55%
3rd year	65%
4th year	75%
5th year	85%

SUPPLEMENTAL BENEFITS per hour:

1st year	$ 14.25*
2nd year	14.25*
3rd year	24.30*
4th year	24.84*
5th year	26.38*

* PLUS 3% OF HOURLY WAGE PAID, STRAIGHT TIME RATE OR PREMIUM RATE.

6-241

Elevator Constructor — 09/01/2025

JOB DESCRIPTION Elevator Constructor **DISTRICT** 6

ENTIRE COUNTIES
Broome, Cayuga, Chenango, Cortland, Franklin, Jefferson, Lewis, Onondaga, Oswego, St. Lawrence, Tioga, Tompkins

PARTIAL COUNTIES
Delaware: Only the towns of: Tompkins, Walton, Masonville, Sidney, Franklin and Deposit.
Madison: Only the towns of: Cazenovia, DeRuyter, Eaton, Fenner, Georgetown, Lebanon, Lenox, Nelson and Sullivan.
Oneida: Only the towns of: Camden, Florence and Vienna.

WAGES

Per hour:	07/01/2025	01/01/2026	01/01/2027
Mechanic	$ 58.44	$ 61.003	$ 63.719
Helper	40.91	42.70	44.60

SUPPLEMENTAL BENEFITS

Per hour:			
Journeyworker	$ 38.435*	$ 38.985*	39.535*

*NOTE - add 6% of regular hourly rate for all hours worked. Add 8% of regular hourly rate if more than 5 years of service.

OVERTIME PAY
See (D, O) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 15, 16) on HOLIDAY PAGE
Overtime: See (5, 6, 15, 16) on HOLIDAY PAGE
NOTE: When a holiday falls on a Saturday, it shall be observed on Friday. When a holiday falls on Sunday, it shall be observed on Monday.

REGISTERED APPRENTICES
WAGES per hour: 1 year terms at the following percentage of the Elevator Constructor wage.

0-6 months	6-12 months	2nd year	3rd year	4th year
50%	55%	65%	70%	80%

SUPPLEMENTAL BENEFITS per hour:

0-6 months: 6% of the hourly apprentice rate paid, no additional supplemental benefits.

All other terms: Same as Journeyworker

6-62.1

Glazier 09/01/2025

JOB DESCRIPTION Glazier **DISTRICT** 5

ENTIRE COUNTIES
Broome, Chemung, Chenango, Delaware, Otsego, Schuyler, Steuben, Tioga, Tompkins

WAGES
Per hour: 07/01/2025

Glazier	$ 30.00

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman	$ 33.15

OVERTIME PAY
See (B, E*, E2, Q**) on OVERTIME PAGE.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
1000 hour terms

Appr. 1st term	$ 20.00
Appr. 2nd term	21.00
Appr. 3rd term	22.00
Appr. 4th term	23.00
Appr. 5th term	24.00
Appr. 6th term	25.00
Appr. 7th term	26.00
Appr. 8th term	27.00

Supplemental Benefits per hour:

Appr. 1st term	$ 13.27
Appr. 2nd term	13.27
Appr. 3rd term	19.27
Appr. 4th term	19.27
Appr. 5th term	20.27
Appr. 6th term	20.27
Appr. 7th term	21.27
Appr. 8th term	21.27

5-677z3

Insulator - Heat & Frost 09/01/2025

JOB DESCRIPTION Insulator - Heat & Frost **DISTRICT** 7

ENTIRE COUNTIES
Broome, Cayuga, Chemung, Chenango, Cortland, Herkimer, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Otsego, Schuyler, Seneca, St. Lawrence, Tioga, Tompkins

WAGES
Per hour: 07/01/2025

Asbestos Installer	$ 43.25
Insulation Installer	43.25
(On mechanical systems only)	

SHIFT WORK
The following rates will apply on all contracting agency-mandated shifts worked:

1st Shift	$ 43.25

2nd Shift	49.74
3rd Shift	51.90

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 27.34

OVERTIME PAY
See (*B1, **K, P) on OVERTIME PAGE
*NOTE: First 10 hours on Saturday.
**NOTE: Holidays that fall on Sunday are subject to double time.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (2*,4,6,28) on HOLIDAY PAGE
*Triple time for Labor Day if worked.

REGISTERED APPRENTICES
WAGES per hour: One (1) year terms at the following percentage of Journeyworker's wage.

1st	2nd	3rd	4th
60%	70%	80%	90%

SUPPLEMENTAL BENEFITS per hour:

$ 24.09	$ 24.09	$ 27.34	$ 27.34

7-30-Syracuse

Ironworker — 09/01/2025

JOB DESCRIPTION Ironworker **DISTRICT** 6

ENTIRE COUNTIES
Broome, Cayuga, Cortland, Onondaga, Oswego, Seneca, Tioga, Tompkins

PARTIAL COUNTIES
Chenango: Only the townships of Afton, Bainbridge, Coventry, German, Greene, Guilford, Lincklaen, McDonough, Norwich, Otselic, Oxford, Pharsalia, Pitcher, Preston and Smithville.
Jefferson: Only the townships of Adams, Alexandria, Brownville, Cape Vincent, Clayton, Ellisburg, Henderson, Hounsfield, LeRay, Lorraine, Lyme, Orleans, Pamelia, Rodman, Rutland, Theresa, Watertown and Worth.
Madison: Only the townships of Cazenovia, DeRuyter, Fenner, Georgetown, Lenox, Lincoln, Nelson, Smithfield and Sullivan.
Schuyler: Only the townships of Cayuta, Catharine, Hector and Montour.
Wayne: Only the townships of Butler, Galen, Huron, Rose, Savannah and Wolcott.

WAGES
Structural, Reinforcing, Re-bar, Machinery Mover & Rigger, Ornamental & Curtain Wall, Window Wall, Pre-Glazed Metal Framed Windows Attached to Steel or Masonry Including Caulking, Fence Erector (Chain Link/Security), Sheeter/Bridge Rail, Pre-Cast Erector, Stone Derrickman, Pre-Engineered Building Erector, Welder

Per hour:	07/01/2025	07/01/2026 Additional
Ironworker	$ 37.16	$ 2.76*

* To be allocated at a later date.

SHIFT WORK
Multiple shifts mandated by the project owner. All shifts will be eight (8) hours.

1st Shift	$ 37.16	
2nd Shift	40.88	Starting times between 2PM and 7PM
3rd Shift	42.73	Starting times between 7PM and 12AM

WHEN A SINGLE IRREGULAR SHIFT IS WORKED, WITH START TIMES BASED ON SECOND AND THIRD SHIFTS, ADD 10% TO THE 1ST SHIFT WAGE RATE POSTED ABOVE.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 31.88

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE

Overtime: See (5, 6) on HOLIDAY PAGE
NOTE: Any holiday which occurs on Saturday shall be observed on the preceding Friday. Any holiday which occurs on Sunday shall be observed the following Monday.

REGISTERED APPRENTICES
WAGES per hour: One year terms at the following rates.

1st	2nd	3rd	4th
$ 21.50	$ 23.50	$ 25.50	$ 27.50

SUPPLEMENTAL BENEFITS per hour:

1st year	$ 13.03
2nd year	21.36
3rd year	22.55
4th year	23.74

6-60

Laborer - Building 09/01/2025

JOB DESCRIPTION Laborer - Building **DISTRICT** 2

ENTIRE COUNTIES
Broome, Chemung, Cortland, Schuyler, Steuben, Tioga, Tompkins

PARTIAL COUNTIES
Chenango: Entire County except the Townships of Sherburne, Columbus and New Berlin.
Delaware: Only the Townships of Sidney, Masonville, Walton, Tompkins, Deposit, Hancock, and Colchester.

WAGES
Per hour:

GROUP #1: Basic Laborer - excavation, concrete vibrator, power-driven buggie, demolition (including acetylene torch work) that is customarily done by a laborer

GROUP #2: Air Tool Operators, Mason Tenders

GROUP #3: Blaster, Rock Drill (compressor driven)

GROUP #4: Asbestos, Hazardous, Toxic Waste, Lead and Mold Remediation

	07/01/2025	07/01/2026 Additional
GROUP #1	$ 30.00	$ 1.25*
GROUP #2	31.00	1.25*
GROUP #3	32.00	1.25*
GROUP #4	32.00	1.25*

*To be allocated at a later date.

IMPORTANT NOTES:
- Laborer tasks on Renewable Energy and Green Energy construction work shall be paid at the appropriate Heavy & Highway rates.
- Wage and supplement rates for the operation of forklift and skid steer may be found under the classification "Operating Engineer".

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker $ 20.20

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
When a holiday falls on Sunday, it shall be observed on the following Monday.

REGISTERED APPRENTICES
WAGES: 1000 hour terms at the following percentage of Journeyworker's wage.

1st	2nd	3rd	4th
70%	80%	85%	90%

SUPPLEMENTAL BENEFITS per hour:

1st term	$ 15.85
2nd term	17.10
3rd term	17.98
4th term	18.85

2-785b

Laborer - Heavy&Highway **09/01/2025**

JOB DESCRIPTION Laborer - Heavy&Highway **DISTRICT** 2

ENTIRE COUNTIES
Broome, Chemung, Cortland, Schuyler, Steuben, Tioga, Tompkins

PARTIAL COUNTIES
Chenango: Entire County except the Townships of Sherburne, Columbus, and New Berlin.
Delaware: Only the Townships of Sidney, Masonville, Walton, Tompkins, Deposit, Hancock and Colchester.

WAGES
Per hour:

GROUP A: Drill Helper, Flagman, Outboard and Hand Boats.

GROUP B: Basic Rate, Bull Float (where used for strike off only), Chain Saw, Concrete Aggregate Bin, Concrete Bootmen, Gin Buggy, Hand or Machine Vibrator, Jack Hammer, Mason Tender, Mortar Mixer, Pavement Breaker, Handlers of Steel Mesh, Small Generators for Laborers Tools, Installation of Bridge Drainage Pipe, Pipe Layers, Vibrator Type Rollers, Tamper, Drill Doctor, Water Pump Operators (1-1/2" & Single Diaphragm), Nozzle (Asphalt, Gunite, Seeding, and Sand Blasting), Laborers on Chain Link Fence Erection, Rock Splitter and Power Unit, Pusher Type Concrete Saw and all other Gas, Electric, and Air Tool Operators, Wrecking Laborer.

GROUP C: Drilling equipment - only where a separate air compressor unit supplies power, Acetylene Torch Operators, Asphalt Raker, Powder Man, Tail or Screw Operator on Asphalt Paver.

GROUP D: Blasters, Form Setters (slab steel forms on highways, roads, streets & airport runways), Stone or Granite Curb Setters.

GROUP E: Hazardous Waste defined as when an employee performs hazardous waste removal, lead abatement and removal, asbestos abatement and removal work on State and/or Federally designated waste site and were relevant State and/or Federal regulations require employees to use or wear required forms of personal protection.

	07/01/2025	07/01/2026 Additional	07/01/2027 Additional
GROUP A	$ 38.06	$ 3.40*	$ 4.20*
GROUP B	38.26	3.40*	4.20*
GROUP C	38.46	3.40*	4.20*
GROUP D	38.66	3.40*	4.20*
GROUP E	43.26	3.40*	4.20*

*To be allocated at a later date.

IMPORTANT NOTES:
- Laborer tasks on Renewable Energy and Green Energy construction work shall be paid at the appropriate Heavy & Highway rates.
- Wage and supplement rates for the operation of forklift and skid steer may be found under the classification "Operating Engineer".
- When an employee is required by the employer and/or by the material data safety sheets of a product, during its application, to wear a half or full-face replaceable cartridge respirator for more than (2) hours, then in such case said employee(s) will be paid the Group E rate for the shift.

SHIFT WORK
A single irregular work shift starting any time between 5:00 PM and 1:00 AM on governmental mandated night work shall be paid an additional $5.00 per hour.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 26.35

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

- If Holiday falls on Sunday, it will be celebrated on Monday. If the Holiday falls on Saturday, it will be celebrated on Saturday.
- An Employee must work the scheduled working day before and the scheduled working day after a holiday to receive holiday pay.

REGISTERED APPRENTICES
WAGES: 1000 hour terms at the following percentage of Journeyworker's GROUP B wage:

1st	2nd	3rd	4th
70%	80%	90%	95%

SUPPLEMENTAL BENEFITS per hour:
All terms $ 26.35

2-785h

Laborer - Tunnel 09/01/2025

JOB DESCRIPTION Laborer - Tunnel **DISTRICT** 2

ENTIRE COUNTIES
Broome, Chemung, Cortland, Schuyler, Steuben, Tioga, Tompkins

PARTIAL COUNTIES
Chenango: Entire County except the Townships of Sherburne, Columbus, and New Berlin.
Delaware: Only the Townships of Sidney, Masonville, Walton, Tompkins, Deposit, Hancock and Colchester.

WAGES
Per hour:

GROUP A: Change House Man

GROUP B: Miners and all Machine Men, Safety Miner, All Shaft work, Caisson work, Drilling, Blow Pipe, all Air Tools, Tugger, Scaling, Nipper, Guniting pot to nozzle, Bit Grinder, Signal Man (top and bottom), Concrete Man, Shield Driven Tunnels, mixed face and soft ground, liner plate tunnels in free air.

GROUP C: Blaster

GROUP D: Hazardous waste removal work on a State and/or Federally designated waste site where relevant State and/or Federal regulations require employees to use or wear required forms of personal protection.

	07/01/2025	07/01/2026 Additional	07/01/2027 Additional
Group A	$ 41.24	$ 3.40*	$ 4.20*
Group B	41.44	3.40*	4.20*
Group C	44.24	3.40*	4.20*
Group D	46.24	3.40*	4.20*

*To be allocated at a later date

IMPORTANT NOTES:
- When an employee is required by the employer and/or by the material data safety sheets of a product, during its application, to wear a half or full face replaceable cartridge respirator for more then (2) hours, then in such case said employee(s) will be paid the Group D rate for the shift.

SHIFT WORK
A single irregular work shift starting any time between 5:00 PM and 1:00 AM on governmental mandated night work shall be paid an additional $5.00 per hour.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker $ 26.35

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE
- If Holiday falls on Sunday, it will be celebrated on Monday. If the Holiday falls on Saturday, it will be celebrated on Friday.

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
If the holiday falls on Saturday, it will be celebrated on Friday. If the holiday falls on Sunday, it will be celebrated on Monday

REGISTERED APPRENTICES
WAGES: 1000 hour terms at the following percentage of Group B wage

1st	2nd	3rd	4th

70% 80% 90% 95%

SUPPLEMENTAL BENEFITS per hour:

All Terms $ 26.35

2-785T

Lineman Electrician 09/01/2025

JOB DESCRIPTION Lineman Electrician **DISTRICT** 6

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

WAGES
A Lineman/Technician shall perform all overhead aerial work. A Lineman/Technician on the ground will install all electrical panels, connect all grounds, install and connect all electrical conductors, assembly of all electrical materials, conduit, pipe, or raceway; placing of fish wire; pulling of cables, wires or fiber optic cable through such raceways; splicing of conductors; dismantling of such structures, lines or equipment.

Crane Operators: Operation of any type of crane on line projects.
Crawler Backhoe: Operation of tracked excavator/crawler backhoe with 1/2 yard bucket or larger on line projects.
Digging Machine Operator: All other digging equipment and augering on line projects.

A Groundman/Truck Driver shall: Build and set concrete forms, handle steel mesh, set footer cages, transport concrete in a wheelbarrow, hand or machine concrete vibrator, finish concrete footers, mix mortar, grout pole bases, cover and maintain footers while curing in cold weather, operate jack hammer, operate hand pavement breaker, tamper, concrete and other motorized saws, as a drill helper, operate and maintain generators, water pumps, chainsaws, sand blasting, operate mulching and seeding machine, air tools, electric tools, gas tools, load and unload materials, hand shovel and/or broom, prepare and pour mastic and other fillers, assist digger operator/equipment operator in ground excavation and restoration, landscape work and painting. Only when assisting a lineman technician, a groundman/truck driver may assist in installing conduit, pipe, cables and equipment.

NOTE: Includes Teledata Work within ten (10) feet of High Voltage Transmission Lines. Also includes digging of holes for poles, anchors, footer, and foundations for electrical equipment.

-----Below rates applicable on all overhead and underground distribution and maintenance work, and all overhead and underground transmission line work and the installation of fiber optic cable where no other construction trades are or have been involved. Includes access matting for line work.

Per hour:	07/01/2025	05/04/2026	05/03/2027	05/01/2028
Group A:				
Lineman, Technician	$ 61.56	$ 64.37	$ 66.84	$ 69.47
Crane, Crawler Backhoe	61.56	64.37	66.84	69.47
Welder, Cable Splicer	61.56	64.37	66.84	69.47
Group B:				
Digging Mach. Operator	$ 55.40	$ 57.93	$ 60.16	$ 62.52
Group C:				
Tractor Trailer Driver	$ 52.33	$ 54.71	$ 56.81	$ 59.05
Groundman, Truck Driver	49.25	51.50	53.47	55.58
Equipment Mechanic	49.25	51.50	53.47	55.58
Group D:				
Flagger	$ 33.86	$ 35.40	$ 36.76	$ 38.21

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

-----Below rates applicable on all electrical sub-stations, switching structures, fiber optic cable and all other work not defined as "Utility outside electrical work." Includes access matting for line work.

Group A:				
Lineman, Technician	$ 61.56	$ 64.37	$ 66.84	$ 69.47
Crane, Crawler Backhoe	61.56	64.37	66.84	69.47
Cable Splicer	67.72	70.81	73.52	76.42
Certified Welder,				

Pipe Type Cable	$ 64.64	$ 67.59	$ 70.18	$ 72.94
Group B:				
Digging Mach. Operator	$ 55.40	$ 57.93	$ 60.16	$ 62.52
Group C:				
Tractor Trailer Driver	$ 52.33	$ 54.71	$ 56.81	$ 59.05
Groundman, Truck Driver	49.25	51.50	53.47	55.58
Equipment Mechanic	49.25	51.50	53.47	55.58
Group D:				
Flagger	$ 33.86	$ 35.40	$ 36.76	$ 38.12

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

-----Below rates applicable on all switching structures, maintenance projects, railroad catenary install/maintenance third rail installation, bonding of rails and pipe type cable and installation of fiber optic cable. Includes access matting for line work.

Group A:				
Lineman, Tech, Welder	$ 62.94	$ 65.81	$ 68.34	$ 71.03
Crane, Crawler Backhoe	62.94	65.81	68.34	71.03
Cable Splicer	69.23	72.39	75.17	78.13
Certified Welder, Pipe Type Cable	66.09	69.10	71.76	74.58
Group B:				
Digging Mach. Operator	$ 56.65	$ 59.23	$ 61.51	$ 63.93
Group C:				
Tractor Trailer Driver	$ 53.50	$ 55.94	$ 58.09	$ 60.38
Groundman, Truck Driver	50.35	52.65	54.67	56.82
Equipment Mechanic	50.35	52.65	54.67	56.82
Group D:				
Flagger	$ 34.62	$ 36.20	$ 37.59	$ 39.07

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

-----Below rates applicable on all overhead and underground transmission line work & fiber optic cable where other construction trades are or have been involved. This applies to transmission line work only, not other construction. Includes access matting for line work.

Group A:				
Lineman, Tech, Welder	$ 64.18	$ 67.10	$ 69.68	$ 72.43
Crane, Crawler Backhoe	64.18	67.10	69.68	72.43
Group B:				
Digging Mach. Operator	$ 57.76	$ 60.39	$ 62.71	$ 65.19
Group C:				
Tractor Trailer Driver	$ 54.55	$ 57.04	$ 59.23	$ 61.57
Groundman, Truck Driver	51.34	53.68	55.74	57.94
Equipment Mechanic	51.34	53.68	55.74	57.94
Group D:				
Flagger	$ 35.30	$ 36.91	$ 38.32	$ 39.84

Additional 3% per hour above regular rate for entire crew when a helicopter is used. This will increase to 5% on May 03, 2027.

SHIFT WORK

THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED MULTIPLE SHIFTS OF AT LEAST FIVE (5) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1ST SHIFT	8:00 AM to 4:30 PM REGULAR RATE
2ND SHIFT	4:30 PM to 1:00 AM REGULAR RATE PLUS 17.3 %
3RD SHIFT	12:30 AM to 9:00 AM REGULAR RATE PLUS 31.4 %

SUPPLEMENTAL BENEFITS

Per hour:

07/01/2025	05/04/2026	05/03/2027	05/01/2028

Group A	$ 31.90*	$ 32.90*	$ 34.40*	$ 35.90*
Group B	$ 27.90*	$ 28.90*	$ 30.40*	$ 31.90*
Group C	$ 27.70*	$ 28.50*	$ 29.70*	$ 30.90*
Group D	$ 27.65*	$ 28.40*	$ 29.53*	$ 30.66*

*Plus 7 % of the hourly wage paid. The 7% is based on straight time or premium time.

OVERTIME PAY
See (B, E, Q, X) on OVERTIME PAGE. NOTE: Double time for all emergency work designated by the Dept. of Jurisdiction.
WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY
Paid See (5, 6, 8, 15, 25) on HOLIDAY PAGE
Overtime See (5, 6, 8, 15, 25) on HOLIDAY PAGE
NOTE: All paid holidays falling on Saturday shall be observed on the preceding Friday. All paid holidays falling on Sunday shall be observed on the following Monday. Supplements for holidays paid at straight time.

REGISTERED APPRENTICES
WAGES per hour: 1000 hour terms at the following percentage of the applicable Journeyworker's Lineman wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

SUPPLEMENTAL BENEFITS per hour:

	07/01/2025	05/04/2026	05/03/2027	05/01/2028
All terms:	$ 27.65*	$ 28.40*	$ 29.53*	$ 30.66*

*Plus 7% of the hourly wage paid. The 7% is based on straight time or premium time.

6-1249a

Lineman Electrician - Teledata — 09/01/2025

JOB DESCRIPTION Lineman Electrician - Teledata **DISTRICT** 6

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES
NOTE: Applies to all public work and covered private projects, including those receiving ConnectAll funding subject to LL 224-E,solicited prior to July 1, 2025. For all projects, excluding dial-up internet access service, solicited on or after July 1, 2025, please see BROADBAND

Per hour:	07/01/2025
Cable Splicer	$ 40.81
Installer, Repairman	$ 38.73
Teledata Lineman	$ 38.73
Tech., Equip. Operator	$ 38.73
Groundman/Flagger	$ 20.53

For outside work, stopping at first point of attachment (demarcation).

NOTE: EXCLUDES Teledata work within ten (10) feet of High Voltage (600 volts and over) transmission lines. For this work, please see LINEMAN.

SHIFT WORK
THE FOLLOWING RATES APPLY WHEN THE CONTRACTING AGENCY MANDATES MULTIPLE SHIFTS OF AT LEAST FIVE (5) DAYS DURATION ARE WORKED. WHEN TWO (2) OR THREE (3) SHIFTS ARE WORKED THE FOLLOWING RATES APPLY:

1ST SHIFT	REGULAR RATE
2ND SHIFT	REGULAR RATE PLUS 10%
3RD SHIFT	REGULAR RATE PLUS 15%

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 5.77 *plus 3% of the hour wage paid

*The 3% is based on the hourly wage paid, straight time rate or premium rate.

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE
WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6, 16) on HOLIDAY PAGE

6-1249LT - Teledata

Lineman Electrician - Traffic Signal, Lighting — 09/01/2025

JOB DESCRIPTION Lineman Electrician - Traffic Signal, Lighting **DISTRICT** 6

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Warren, Washington, Wayne, Wyoming, Yates

WAGES
Lineman/Technician shall perform all overhead aerial work. A Lineman/Technician on the ground will install all electrical panels, connect all grounds, install and connect all electrical conductors which includes, but is not limited to road loop wires; conduit and plastic or other type pipes that carry conductors, flex cables and connectors, and to oversee the encasement or burial of such conduits or pipes.

Crane Operators: Operation of any type of crane on Traffic Signal/Lighting projects.
Crawler Backhoe: Operation of tracked excavator/crawler backhoe with 1/2 yard bucket or larger on Traffic Signal/Lighting projects.
Digging Machine Operator: All other digging equipment and augering on Traffic Signal/Lighting projects.

A Groundman/Truck Driver shall: Build and set concrete forms, handle steel mesh, set footer cages, transport concrete in a wheelbarrow, hand or machine concrete vibrator, finish concrete footers, mix mortar, grout pole bases, cover and maintain footers while curing in cold weather, operate jack hammer, operate hand pavement breaker, tamper, concrete and other motorized saws, as a drill helper, operate and maintain generators, water pumps, chainsaws, sand blasting, operate mulching and seeding machine, air tools, electric tools, gas tools, load and unload materials, hand shovel and/or broom, prepare and pour mastic and other fillers, assist digger operator/equipment operator in ground excavation and restoration, landscape work and painting. Only when assisting a lineman technician, a groundman/truck driver may assist in installing conduit, pipe, cables and equipment.

A flagger's duties shall consist of traffic control only.

Per hour:	07/01/2025	05/04/2026	05/03/2027	05/01/2028
Group A:				
Lineman, Technician	$ 52.86	$ 55.31	$ 57.40	$ 59.64
Crane, Crawler Backhoe	52.86	55.31	57.40	59.64
Certified Welder	55.50	58.08	60.27	62.62
Group B:				
Digging Machine	$ 47.57	$ 49.78	$ 51.66	$ 53.68
Group C:				
Tractor Trailer Driver	$ 44.93	$ 47.01	$ 48.79	$ 50.69
Groundman, Truck Driver	42.29	44.25	45.92	47.71
Equipment Mechanic	42.29	44.25	45.92	47.71
Group D:				
Flagger	$ 31.72	$ 33.19	$ 34.44	$ 35.78

Above rates are applicable for installation, testing, operation, maintenance and repair on all Traffic Control (Signal) and Illumination (Lighting) projects, Traffic Monitoring Systems, and Road Weather Information Systems. Includes digging of holes for poles, anchors, footer foundations for electrical equipment; assembly of all electrical materials or raceway; placing of fish wire; pulling of cables, wires or fiber optic cable through such raceways; splicing of conductors; dismantling of such structures, lines or equipment.

SHIFT WORK
THE FOLLOWING RATES WILL APPLY ON ALL CONTRACTING AGENCY MANDATED MULTIPLE SHIFTS OF AT LEAST FIVE (5) DAYS DURATION WORKED BETWEEN THE HOURS LISTED BELOW:

1ST SHIFT	8:00 AM TO 4:30 PM	REGULAR RATE
2ND SHIFT	4:30 PM TO 1:00 AM	REGULAR RATE PLUS 17.3%
3RD SHIFT	12:30 AM TO 9:00 AM	REGULAR RATE PLUS 31.4%

SUPPLEMENTAL BENEFITS
Per hour worked:

	07/01/2025	05/04/2026	05/03/2027	05/01/2028
Group A	$ 31.90*	$ 32.90*	$ 34.40*	$ 35.90*
Group B	$ 27.90*	$ 28.90*	$ 30.40*	$ 31.90*
Group C	$ 27.70*	$ 28.50*	$ 29.70*	$ 30.90*
Group D	$ 27.65*	$ 28.40*	$ 29.53*	$ 30.66*

* Plus 7% of the hourly wage paid. The 7% is based on straight time or premium time.

OVERTIME PAY
See (B, E, Q, X) on OVERTIME PAGE. NOTE: Double time for all emergency work designated by the Dept. of Jurisdiction.
WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY
Paid: See (5, 6, 8, 15, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 15, 25) on HOLIDAY PAGE
NOTE: All paid holidays falling on Saturday shall be observed on the preceding Friday. All paid holidays falling on Sunday shall be observed on the following Monday. Supplements for holidays paid at straight time.

REGISTERED APPRENTICES
WAGES per hour: 1000 hour terms at the following percentage of the applicable Journeyworker's Lineman wage.

1st	2nd	3rd	4th	5th	6th	7th
60%	65%	70%	75%	80%	85%	90%

SUPPLEMENTAL BENEFITS per hour:

	07/01/2025	05/04/2026	05/03/2027	05/01/2028
All terms:	$ 27.65*	$ 28.40*	$ 29.53*	$ 30.66*

* Plus 7% of the hourly wage paid. The 7% is based on straight time or premium time.

6-1249a-LT

Lineman Electrician - Tree Trimmer — 09/01/2025

JOB DESCRIPTION Lineman Electrician - Tree Trimmer **DISTRICT** 6

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Rensselaer, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

WAGES
Applies to line clearance, tree work and right-of-way preparation on all new or existing energized overhead or underground electrical, telephone and CATV lines. This also includes stump removal near underground energized electrical lines including telephone and CATV lines.

Per hour:	07/01/2025	01/04/2026	01/03/2027
Tree Trimmer	$ 33.18	$ 34.67	$ 36.23
Equipment Operator	29.35	30.67	32.05
Equipment Mechanic	29.35	30.67	32.05
Truck Driver	23.85	24.93	26.05
Groundman	19.64	20.53	21.45
Flagger	15.50	16.20	16.93

SUPPLEMENTAL BENEFITS
Per hour:

	07/01/2025	01/04/2026	01/03/2027
Journeyworker	$ 10.98*	$ 11.23*	$ 11.48*

* Plus 4.5% of the hourly wage paid. The 4.5% is based on straight time rate or premium rate.

OVERTIME PAY
See (B, E, Q, X) on OVERTIME PAGE
WAGE CAP - Double the straight time hourly base wage shall be the maximum hourly wage compensation for any hour worked. Contractor is still responsible to pay the hourly benefit amount for each hour worked.

HOLIDAY
Paid: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE
Overtime: See (5, 6, 8, 15, 16, 25) on HOLIDAY PAGE
NOTE: All paid holidays falling on a Saturday shall be observed on the preceding Friday. All paid holidays falling on a Sunday shall be observed on the following Monday.

6-1249TT

Mason - Building — 09/01/2025

JOB DESCRIPTION Mason - Building **DISTRICT** 5

ENTIRE COUNTIES
Cortland, Tompkins

WAGES

Per hour:	07/01/2025
Building:	
Brick/Block layer, Cement Mason	$ 33.68
Plasterer/EFIS, Stone Mason, Tuck Pointer	

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman	$ 31.19

OVERTIME PAY
See (B,E,E2*,Q) on OVERTIME PAGE
*Note - Or other conditions beyond the employer's control such as fire or natural disaster.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:

One year terms at the following wage:

1st	2nd	3rd	4th
$ 21.52	$ 26.58	$ 27.69	$ 30.31

Supplemental Benefits per hour:

1st	2nd	3rd	4th
$ 25.12	$ 26.13	$ 29.07	$ 30.51

5-3B Ith - Z2

Mason - Heavy&Highway — 09/01/2025

JOB DESCRIPTION Mason - Heavy&Highway **DISTRICT** 5

ENTIRE COUNTIES
Allegany, Broome, Chautauqua, Chemung, Chenango, Cortland, Delaware, Genesee, Livingston, Monroe, Ontario, Orleans, Otsego, Schuyler, Seneca, Steuben, Tioga, Tompkins, Wayne, Wyoming, Yates

PARTIAL COUNTIES
Cattaraugus: Enitre county except in the Township of Perrysburg and the Village of Gowanda only the Bricklayer classification applies.
Erie: Only the Bricklayer classification applies.
Niagara: Only the Bricklayer classification applies.

WAGES

Per hour:	07/01/2025
Heavy & Highway:	
Cement Mason	$ 38.63
Bricklayer	38.63

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman $ 26.28

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:

1500 hour terms at the following percentage of Journeyman's wage:

1st	2nd	3rd	4th
50%	60%	70%	80%

Supplemental benefits per hour:

1st term	$ 15.40
2nd term	$ 24.62
3rd term	$ 25.04
4th term	$ 25.45

5-3h

Mason - Tile Finisher — 09/01/2025

JOB DESCRIPTION Mason - Tile Finisher **DISTRICT** 5

ENTIRE COUNTIES
Broome, Chemung, Chenango, Cortland, Delaware, Otsego, Schuyler, Steuben, Tioga, Tompkins

PARTIAL COUNTIES
Allegany: Towns of Alfred, Almond, Andover and Burns in Allegany County

WAGES
Wages
Per hour: 07/01/2025
Building:
Marble, Slate, Terrazzo and Tile Finisher $ 32.45

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman $ 23.52

OVERTIME PAY
See (B,E,E2*,Q) on OVERTIME PAGE
*Note - Or other conditions beyond the employer's control such as fire or natural disaster.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:

One year terms at the following wage:

1st	2nd	3rd
$ 19.47	$ 22.72	$ 25.96

Supplemental benefits per hour:

1st	2nd	3rd
$ 15.12	$ 15.72	$ 20.37

5-3TF - Z4

Mason - Tile Setter — 09/01/2025

JOB DESCRIPTION Mason - Tile Setter **DISTRICT** 5

ENTIRE COUNTIES
Broome, Chemung, Chenango, Cortland, Delaware, Otsego, Schuyler, Steuben, Tioga, Tompkins

PARTIAL COUNTIES
Allegany: Towns of Alfred, Almond, Andover and Burns.

WAGES

Wages Per Hour:	07/01/2025
Building:	
Marble, Slate, Terrazzo and Tile Setter	$ 34.69

SUPPLEMENTAL BENEFITS
Per hour:

Journeyman	$ 27.06

OVERTIME PAY
See (B,E,E2*,Q) on OVERTIME PAGE
*Note - Or other conditions beyond the employer's control such as fire or natural disaster.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:

One year terms at the following wage:

1st	2nd	3rd	4th
$ 20.81	$ 24.28	$ 27.75	$ 31.22

Supplemental benefits per hour:

1st	2nd	3rd	4th
$ 15.59	$ 16.26	$ 25.70	$ 26.38

5-3TS - Z4

Millwright 09/01/2025

JOB DESCRIPTION Millwright **DISTRICT** 6

ENTIRE COUNTIES
Albany, Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Wyoming, Yates

WAGES
THE FOLLOWING RATE APPLIES TO ANY GAS/STEAM TURBINE AND OR RELATED COMPONENT WORK, INCLUDING NEW INSTALLATIONS OR MAINTENANCE AND ANY/ALL WORK PERFORMED WITHIN THE PROPERTY LIMITS OF A NUCLEAR FACILITY.

Per hour:	07/01/2025
Millwright - Power Generation	$ 47.00

NOTE: ADDITIONAL PREMIUMS PAID FOR THE FOLLOWING WORK LISTED BELOW (amount subject to any overtime premiums):
- Certified Welders shall receive an additional $1.75 per hour provided they are directed to perform Certified Welding.
- If a work site has been declared a hazardous site by the Owner and the use of protective gear (including, as a minimum, air purifying canister-type chemical respirators) is required, then that employee shall receive an additional $1.50 per hour.
- An employee performing the work of a machinist shall receive an additional $2.00 per hour. For the purposes of this premium to apply, a "machinist" is a person who uses a lathe, Bridgeport, milling machine or similar type of tool to make or modify parts.
- When performing work underground at 500 feet and below, the employee shall receive an additional $1.00 per hour.

SUPPLEMENTAL BENEFITS
Per hour paid:

Journeyworker	$ 28.45*

*NOTE: Subject to OT premium

OVERTIME PAY
See (B, E, E2, Q, V) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
NOTE: Any holiday that falls on Sunday shall be observed the following Monday. Any holiday that falls on Saturday shall be observed the preceding Friday.

REGISTERED APPRENTICES
WAGES per hour: One year terms at the following percentage of Journeyworker's wage:

Appr. 1st year	65%*
Appr. 2nd year	75%*
Appr. 3rd year	80%*
Appr. 4th year	90%*

*NOTE: Additional premium for the following work listed below:

Certified Welder	$ 1.75
Hazardous Waste Work	1.50
Machinist	2.00
Underground (500' and below)	1.00

SUPPLEMENTAL BENEFITS per hour:

Appr. 1st year	$ 11.95
Appr. 2nd year	23.50
Appr. 3rd year	25.15
Appr. 4th year	26.80

6-1163Power

Millwright 09/01/2025

JOB DESCRIPTION Millwright **DISTRICT** 6

ENTIRE COUNTIES
Chemung, Cortland, Livingston, Monroe, Ontario, Orleans, Schuyler, Steuben, Tompkins, Wayne, Wyoming

WAGES
Per hour: 07/01/2025

Building	$ 37.89
Heavy & Highway	41.39

NOTE: ADDITIONAL PREMIUMS PAID FOR THE FOLLOWING WORK LISTED BELOW (amount subject to any overtime premiums):
- Certified Welders shall receive an additional $1.75 per hour provided they are directed to perform Certified Welding.
- On Building projects, If a work site has been declared a hazardous site by the Owner and the use of protective gear (including, as a minimum, air purifying canister-type chemical respirators) is required, then that employee shall receive an additional $1.50 per hour.
- H/H work performed on hazardous waste sites where employees are required to wear protective gear shall receive an additional $2.00 per hour over the Millwright H/H rate for all hours worked on the day protective gear was worn.
- An employee performing the work of a machinist shall receive an additional $2.00 per hour. For the purposes of this premium to apply, a "machinist" is a person who uses a lathe, Bridgeport, milling machine or similar type of tool to make or modify parts.
- When performing work underground at 500 feet and below, the employee shall receive an additional $1.00 per hour.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 27.29

OVERTIME PAY
See (B, E, E2, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
NOTE: Any holiday that falls on Sunday shall be observed the following Monday. Any holiday that falls on Saturday shall be observed the preceding Friday.

REGISTERED APPRENTICES
WAGES per hour: One year terms at the following percentage of Journeyworker's wage:

Appr. 1st year	65%*
Appr. 2nd year	75%*
Appr. 3rd year	80%*
Appr. 4th year	90%*

*NOTE: Additional premium for the following work listed below:

Certified Welder	$ 1.75
Hazardous Waste (Bldg)	1.50
Hazardous Waste (H/H)	2.00
Machinist	2.00
Underground (500' and below)	1.00

SUPPLEMENTAL BENEFITS per hour:

Appr. 1st year	$ 11.95
Appr. 2nd year	22.69
Appr. 3rd year	24.22
Appr. 4th year	25.76

6-1163

Operating Engineer - Building — 09/01/2025

JOB DESCRIPTION Operating Engineer - Building **DISTRICT** 6

ENTIRE COUNTIES
Cayuga, Cortland, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Seneca, St. Lawrence, Tompkins

WAGES
NOTE:
---If a prime contract is let for site work only, meaning no buildings are involved in their site contract, the Heavy/Highway rates would be applicable. When a prime contract is let for site work and building excavation is part of that contract, the Building rates would be applicable for the Operators classification.
---In the event that equipment listed below is operated by robotic control, the classification covering the operation will be the same as if manually operated.
---If a second employee is required by the employer for operation of any covered machine, they shall be an Engineer Class C.

CLASS A1*: All Cranes (A1 Includes Boom Trucks over 5 tons, Cableway, Cherry Picker, Derrick, Dragline, Dredge, Overhead Crane, Pile Driver, Tower Crane**, Truck Crane, Whirlies).

CLASS A: Air Plako, Asphalt & Blacktop Roller, Automated Concrete Spreader (CMI or equivalent), Automated Fine Grade Machine (CMI), Backhoe, Barrel Shredder, Belt Placer, Blacktop Spreader (such as Barber-Greene & Blaw Knox), Blacktop Plant (automated), Blast or Rotary Drill (Truck or Cat mounted), Boom Trucks (5 ton and under), Burning Plant Operator, Caisson Auger, Central Mix Plant (automated), Concrete Pump, Crusher (Rock), De-watering Press, Diesel Power Unit, Dirt Filter Press with Operation Equipment, Dredge, Dual Drum Paver, Elevating Grader (self-propelled or towed), Elevator Hoist - Two Cage, Excavator - all purpose hydraulically operated, Forklift (Loed/Lull and other rough terrain type), Front End Loader (4 c.y. and over), Gradall, Grader (Power), Head Tower (Saurman or equal), Hoist (2 or 3 Drum), Hydroblaster (Laser Pump), Light Plants - Compressors and Generators, Locomotive, Maintenance Engineer, Maintenance Welder, Mine Hoist, Mucking Machine or Mole, Quarry Master or Equivalent, Refrigeration Equipment (for soil stabilization), Scraper, Sea Mule, Shovel, Side Boom, Slip Form Paver, Straddle Buggy (Ross Carrier, Lumber Carrier), Tractor Drawn Belt Type Loader (Euclid Loader), Trenching Machine (digging capacity of over 4ft. depth), Truck or Trailer Mounted Log Chipper (self-feeder), Tug Operator (Manned, rented equipment excluded), Tunnel Shovel, Vibro or Sonic Hammer Controls (when not mounted in proximity to Rig Operator), Work Boat Operator including LCM's.

CLASS B: "A" Frame Truck, Back Dumps, Blacktop Plant (non-automatic), Boring Machine, Bulldozer, Cage-Hoist, Central Mix Plant (non-automated), Compressor, Pump, Generator or Welding machine (when used in battery of not more than five (5)), Concrete Paver (single drum over 16'), Core boring machine, Drill Rigs - tractor mounted, Elevator - as material hoist, Farm Tractor (with or without accessories), Forklift (over 10 ton with or without attachments), Front End Loader (under 4 c.y.), Grout Pump, Gunite Machine, High Pressure Boiler (15 lbs. & over), Hoist (one drum), Hydraulic Breaking Hammer (Drop Hammer), Kolman Plant Loader (screening gravel), Maintenance Grease Man, Mixer for stabilized base - self-propelled (Seaman Mixer), Monorail Machine, Parapet Concrete or Pavement Grinder, Parts Man, Post Driver (truck or tractor mounted), Post Hole Digger (truck or tractor mounted), Power Sweeper (Wayne or similar), Pump-Crete or Squeeze-Crete, Road Widener (front end of Grader or self-propelled), Roller, Self-contained hydraulic bench drill, Shell Winder (motorized), Skid steer (Bobcat type loader), Snorkel (overhead arms), Snowblower control man, Tractor (with or without accessories), Trenching Machine (digging capacity of 4 ft. or less), Tugger Hoist, Vacuum Machine (self-propelled or mounted), Vibro Tamp, Well Drill / Well Point System (Submersible pumps when used in lieu of Well Point System), Winch (Motor driven), Winch Cat, Winch Truck.

CLASS C: Compressor (up to 500 cfm), Concrete Paver or Mixer (under 16'), Concrete Pavement Spreaders & Finishers (not automated), Conveyor (over 12 ft), Electric Submersible Pump (4" and over), Fine Grade Machine (not automated), Fireman, Forklift ("with or without" attachments, 10 ton and under), Form Tamper, Generator (2,500 watts and over), Hydraulic Pump, Mechanical Heaters (More than two (2) Mechanical Heaters or any Mechanical Heater or Heaters whose combined output exceeds 640,000 BTU per hour (manufacturer's rating) plus one self-contained heating unit - i.e. Sundog or Air Heat type - New Holland Hay Dryer type excluded), Mulching Machine, Oiler, Power Driven Welding Machine (300 amp and over, other than all electric. One Welding Machine under 300 amp will not require an engineer unless in a battery), Power Heaterman (hay dryer), Pumps (water and trash), Revinus Widener (road widener), Single Light Plant, Steam Cleaner or Jenny.

Per hour:	07/01/2025
Building	
Class A1*	$ 49.61
Class A	48.11
Class B	45.99
Class C	41.77

Additional $2.50 per hour if work requires Personal Protective Equipment for hazardous waste site activities with a level C or over rating.

(*) TONNAGE PREMIUMS:
All cranes up to 64 ton capacity - A1 rate
All cranes 65 ton to 110 ton capacity - A1 rate plus $ 1.50
All cranes 111 ton to 199 ton capacity - A1 rate plus $ 2.00
All cranes 200 ton to 399 ton capacity - A1 rate plus $ 3.00
All cranes 400 ton to 599 ton capacity - A1 rate plus $ 4.00
All cranes 600 ton to 799 ton capacity - A1 rate plus $ 5.00
All cranes 800 ton to 999 ton capacity - A1 rate plus $ 6.00
All cranes 1000 ton capacity and over - A1 rate plus $ 7.00

(**) Tower Cranes - A1 rate plus $2.50 (no tonnage premiums apply)

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 32.12

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
NOTE: If the holiday falls on Sunday, it will be celebrated on Monday.

REGISTERED APPRENTICES
WAGES per hour: One thousand hour terms at the following percentage of Journeyworker's CLASS A wage:

1st: 60%
2nd: 65%
3rd: 70%
4th: 80%

Additional $2.50 per hour if work requires Personal Protective Equipment for hazardous waste site activities with a level C or over rating.

SUPPLEMENTAL BENEFITS per hour:

	07/01/2025
All terms:	$ 32.05

6-158-545b.s

Operating Engineer - Heavy&Highway — 09/01/2025

JOB DESCRIPTION Operating Engineer - Heavy&Highway **DISTRICT** 6

ENTIRE COUNTIES
Cayuga, Cortland, Jefferson, Lewis, Madison, Oneida, Onondaga, Oswego, Seneca, St. Lawrence, Tompkins

WAGES
NOTE:
---In the event that equipment listed below is operated by robotic control, the classification covering the operation will be the same as if manually operated.

---If a second employee is required by the employer for operation of any covered machine, they shall be an Engineer Class C.

CLASS A1*: All Cranes that require a NYS Crane License (Boom Truck, Cherry Picker, Derrick, Dragline, Overhead Crane (Gantry or Straddle Type), Pile Driver, Tower Cranes (including self-erecting)**, Truck Crane).

CLASS A: Asphalt Curb Machine (self-propelled, slipform); Asphalt Paver; Automated Concrete Spreader (CMI type); Automatic Fine Grader; Backhoe (except tractor mounted, rubber tired); Backhoe Excavator, Full Swing (CAT 212 or similar type); Back Filling Machine; Belt Placer (CMI type); Blacktop Plant (automated); Blacktop Roller; Bull Dozer being operated with active GPS; Cableway; Caisson Auger; Central Mix Concrete Plant (automated); Concrete Curb Machine (self-propelled, slipform); Concrete Pump; Cranes - listed in A1 that do not require a NYS Crane License; Directional Boring/Drilling Machine; Dredge; Dual Drum Paver; Excavator (all purpose-hydraulic, Gradall or similar); Front End Loader (4 cu. yd. & over); Head Tower (Sauerman or equal); Hoist (two or three drum); Holland Loader; Maintenance Engineer; Mine Hoist; Mucking Machine or Mole; Pavement Breaker (SP Wertgen; PB-4 and similar type); Profiler/Milling Machine (over 105 h.p.); Power Grader; Quad 9; Quarry Master (or equivalent); Rotating Telehandler; Scraper (including challenger type); Shovel; Side Boom; Slip Form Paver; Tractor Drawn Belt-Type Loader; Truck or Trailer Mounted Chipper (self-feeder); Tug Operator (manned rented equipment excluded); Tunnel Shovel.

CLASS B: Backhoe (tractor mounted, rubber tired); Bituminous Recycler Machine; Bituminous Spreader and Mixer; Blacktop Plant (non-automated); Blast or Rotary Drill (truck or tractor mounted); Boring Machine; Bridge Deck Finishing Machine; Brokk; Cage Hoist; Central Mix Plant (non-automated) and All Concrete Batching Plants; Concrete Paver (over 16'); Crawler Drill (self-contained); Crusher; Diesel Power Unit; Drill Rigs (truck or tractor mounted); Front End Loader (under 4 cu. yd.); Greaseman - Lubrication Engineer; HiPressure Boiler (15 lbs & over); Hoist (one drum); Hydro-Axe; Kolman Plant Loader & similar type loaders; Locomotive; Material Handling Knuckle Boom; Mini Excavators (under 18,000 lbs.); Mixer (for stabilized base, self-propelled); Monorail Machine; Profiler/Milling Machine (105 h.p. and under); Plant Engineer; Prentice Loader; Pug Mill; Pump Crete; Ready Mix Concrete Plant; Refrigeration Equipment (for soil stabilization); Road Widener; Roller (all above subgrade, See Class A for Blacktop Roller); Sea Mule; Self-contained ride-on Rock Drill (excluding Air-Track type drill); Skidder; Tractor with Dozer and/or Pusher; Trencher; Tugger Hoist; Vacuum Machine (mounted or towed); Vermeer Saws (ride-on, any size or type); Welder; Winch and Winch Cat; Work Boat Operator including L.C.M.'s.

CLASS C: "A" Frame Winch Hoist (On Truck); Aggregate Plant; Articulated Heavy Hauler; Asphalt or Concrete Grooving Machine (ride-on); Ballast Regulator (ride-on); Bituminous Heater (self-propelled); Boat (powered); Boiler (used in conjunction with production); Cement & Bin Operator; Compressors***; Concrete Pavement Spreader and Finisher; Concrete Paver or Mixer (16' & under); Concrete Saw (self-propelled); Conveyor; Deck Hand; Directional Boring/Drilling Machine Locator; Drill (Core); Drill (Well); Dust Collectors***; Electric Pump When Used in Conjunction with Well Point System; Farm Tractor with accessories; Fine Grade Machine; Fireman; Forklift; Form Tamper; Generators***; Grout Pump; Gunite Machine; Hammers (hydraulic self-propelled); Heaters***; Hydra-Spiker (ride-on); Hydraulic Pump (jacking system); Hydro-Blaster (water); Light Plants***; Mulching Machine; Oiler; Parapet Concrete or Pavement Grinder; Post Hole Digger (excluding hand-held); Post Driver; Power Broom (towed); Power Heaterman; Power Sweeper; Pumps***; Revinius Widener; Roller (subgrade & fill); Scarifier (ride-on); Shell Winder; Skid Steer Loader (Bobcat or similar, including all attachments); Span Saw (ride-on); Steam Cleaner; Tamper (ride-on); Tie Extractor (ride-on); Tie Handlers (ride-on); Tie Inserters (ride-on); Tie Spacers (ride-on); Tire Repair; Track Liner (ride-on); Tractor; Tractor (with towed accessories); Vacuum Machine (self-propelled); Vibratory Compactor; Vibro Tamp; Welding Machines***; Well Point.

***CLASS C NOTE: Considered Hands-Off (unmanned). Includes only operation and maintenance of the equipment.

Per hour:	07/01/2025
H/H	
CLASS A1*	$ 58.85
CLASS A	55.85
CLASS B	54.97
CLASS C	51.69

(*) TONNAGE PREMIUMS:
All cranes up to 64 ton capacity - A1 rate
All cranes 65 ton to 110 ton capacity - A1 rate plus $ 1.50
All cranes 111 ton to 199 ton capacity- A1 rate plus $ 2.00
All cranes 200 ton to 399 ton capacity - A1 rate plus $ 3.00
All cranes 400 ton to 599 ton capacity - A1 rate plus $ 4.00
All cranes 600 ton to 799 ton capacity - A1 rate plus $ 5.00
All cranes 800 ton to 999 ton capacity - A1 rate plus $ 6.00
All cranes 1000 ton capacity and over - A1 rate plus $ 7.00

(**) Tower Cranes - A1 rate plus $3.00 (no tonnage premiums apply)

- Cranes in Luffer Configuration - A1 rate plus $ 5.00
- Cranes with external ballast (Tray or Wagon) - A1 rate plus $ 5.00

Additional $2.50 per hour for hazardous waste removal work on a State and/or Federally designated waste site which requires employees to wear Level C or above forms of personal protection.

SHIFT WORK
SINGLE IRREGULAR WORK SHIFT: Additional $2.50 per hour for all employees who work a single irregular work shift starting from 5:00 PM to 1:00 AM that is mandated by the Contracting Agency.

SUPPLEMENTAL BENEFITS
Per hour: 07/01/2025

Journeyworker $ 33.55

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
NOTE: If a holiday falls on Sunday, it will be celebrated on Monday. If an employee works on this Monday, they shall be compensated at double time plus the holiday pay (triple time). If a holiday falls on a Saturday, employees who work a Saturday Holiday shall be paid double time plus the holiday pay.

REGISTERED APPRENTICES
WAGES per hour: One thousand hour terms at the following percentage of Journeyworker's CLASS B wage.

1st: 60%
2nd: 70%
3rd: 80%
4th: 90%

Additional $2.50 per hour for hazardous waste removal work on a State and/or Federally designated waste site which requires employees to wear Level C or above forms of personal protection.

SUPPLEMENTAL BENEFITS per hour: Same as Journeyworker

6-158-545h

Operating Engineer - Survey Crew — 09/01/2025

JOB DESCRIPTION Operating Engineer - Survey Crew **DISTRICT** 12

ENTIRE COUNTIES
Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

PARTIAL COUNTIES
Dutchess: The northern portion of the county from the northern boundary line of the City of Poughkeepsie, north.
Genesee: Only the portion of the county that lies east of a line down the center of Route 98 to include all area that lies within the City of Batavia.

WAGES
These rates apply to Building, Tunnel and Heavy Highway.

Per hour:
SURVEY CLASSIFICATIONS:

Party Chief - One who directs a survey party.
Instrument Person - One who operates the surveying instruments.
Rod Person - One who holds the rods and assists the Instrument Person.

	07/01/2025
Party Chief	$ 52.91
Instrument Person	48.67
Rod Person	36.29

Additional $3.00/hr. for Tunnel Work
Additional $2.50/hr. for Hazardous Work Site

SUPPLEMENTAL BENEFITS
Per hour worked:

Journeyman $ 30.10

OVERTIME PAY
See (B, E, P, *X) on OVERTIME PAGE
*Note: $25.10/Hr. Only for "ALL" premium hours paid when worked.

HOLIDAY

Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
WAGES: 1000 hour terms based on the Percentage of Rod Persons Wage:

	07/01/2025
0-1000	60%
1001-2000	70%
2001-3000	80%

SUPPLEMENTAL BENEFIT per hour worked:

0-1000	$ 21.88 / PHP $18.03
1001-2000	24.90 / " 20.45
2001-3000	27.93/ " 22.93

NOTE: PHP is premium hours paid when worked.

12-158-545 D.H.H.

Operating Engineer - Survey Crew - Consulting Engineer — 09/01/2025

JOB DESCRIPTION Operating Engineer - Survey Crew - Consulting Engineer **DISTRICT** 12

ENTIRE COUNTIES
Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

PARTIAL COUNTIES
Dutchess: The northern portion of the county from the northern boundary line of the City of Poughkeepsie, north.
Genesee: Only the portion of the county that lies east of a line down the center of Route 98 to include all area that lies within the City of Batavia.

WAGES
These rates apply to feasibility and preliminary design surveying, line and grade surveying for inspection or supervision of construction when performed under a Consulting Engineer Agreement.

Per hour:
SURVEY CLASSIFICATIONS:

Party Chief - One who directs a survey party.
Instrument Person - One who operates the surveying instruments.
Rod Person - One who holds the rods and assists the Instrument Person.

	07/01/2025
Party Chief	$ 52.91
Instrument Person	48.67
Rod Person	36.29

Additional $3.00/hr. for Tunnel Work.
Additional $2.50/hr. for EPA or DEC certified toxic or hazardous waste work.

SUPPLEMENTAL BENEFITS
Per hour worked:

Journeyman	$ 30.10

OVERTIME PAY
See (B, E, Q, *X) on OVERTIME PAGE
*Note: $25.10/Hr. Only for "ALL" premium hours paid when worked.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
WAGES: 1000 hour terms based on percentage of Rod Persons Wage:

	07/01/2025
0-1000	60%
1001-2000	70%

2001-3000	80%

SUPPLEMENTAL BENEFIT per hour worked:

0-1000	$ 21.88 / PHP $18.03
1001-2000	$ 24.90 / " 20.45
2001-3000	$ 27.93 / " 22.93

NOTE: PHP is premium hours paid when worked.

12-158-545 DCE

Operating Engineer - Tunnel — 09/01/2025

JOB DESCRIPTION Operating Engineer - Tunnel **DISTRICT** 7

ENTIRE COUNTIES
Albany, Allegany, Broome, Cayuga, Chemung, Chenango, Clinton, Columbia, Cortland, Essex, Franklin, Fulton, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Oneida, Onondaga, Ontario, Oswego, Otsego, Rensselaer, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Warren, Washington, Wayne, Yates

PARTIAL COUNTIES
Dutchess: Northern part of Dutchess, to the northern boundary line of the City of Poughkeepie, then due east to Route 115 to Bedell Road, then east along Bedell Road to VanWagner Road, then north along VanWagner Road to Bower Road, then east along Bower Road to Rte. 44 east to Rte. 343, then along Rte. 343 east to the northern boundary of the Town of Dover Plains and east along the northern boundary of the Town of Dover Plains, to the borderline of the State of Connecticut.
Genesee: Only that portion of the county that lies east of a line drawn down the center of Route 98 and the entirety of the City of Batavia.

WAGES
CLASS A: Automatic Concrete Spreader (CMI Type); Automatic Fine Grader; Backhoe (except tractor mounted, rubber tired); Belt Placer (CMI Type); Blacktop Plant (automated); Cableway; Caisson Auger; Central Mix Concrete Plant (automated); Concrete Curb Machine (self-propelled slipform); Concrete Pump (8" or over); Dredge; Dual Drum Paver; Excavator; Front End Loader (4 cu. yd & over); Gradall; Head Tower (Sauerman or Equal); Hoist (shaft); Hoist (two or three Drum); Log Chipper/Loader (self-feeder); Maintenance Engineer (shaft and tunnel); any Mechanical Shaft Drill; Mine Hoist; Mining Machine(Mole and similar types); Mucking Machine or Mole; Overhead Crane (Gantry or Straddle Type); Pile Driver; Power Grader; Remote Controlled Mole or Tunnel Machine; Scraper; Shovel; Side Boom; Slip Form Paver (If a second man is needed, they shall be an Oiler); Tripper/Maintenance Engineer (shaft & tunnel); Tractor Drawn Belt-Type Loader; Tug Operator (manned rented equipment excluded); Tunnel Shovel.

CLASS B: Automated Central Mix Concrete Plant; Backhoe (topside); Backhoe (track mounted, rubber tired); Backhoe (topside); Bituminous Spreader and Mixer, Blacktop Plant (non-automated); Blast or Rotary Drill (truck or tractor mounted); Boring Machine; Cage Hoist; Central Mix Plant(non-automated); all Concrete Batching Plants; Compressors (4 or less exceeding 2,000 c.f.m. combined capacity); Concrete Pump; Crusher; Diesel Power Unit; Drill Rigs (tractor mounted); Front End Loader (under 4 cu. yd.); Grayco Epoxy Machine; Hoist (One Drum); Hoist (2 or 3 drum topside); Knuckle Boom material handler; Kolman Plant Loader & similar type Loaders (if employer requires another person to clean the screen or to maintain the equipment, they shall be an Oiler); L.C.M. Work Boat Operator; Locomotive; Maintenance Engineer (topside); Maintenance Grease Man; Mixer (for stabilized base-self-propelled); Monorail Machine; Plant Engineer; Personnel Hoist; Pump Crete; Ready Mix Concrete Plant; Refrigeration Equipment (for soil stabilization); Road Widener; Roller (all above sub-grade); Sea Mule; Shotcrete Machine; Shovel (topside); Tractor with Dozer and/or Pusher; Trencher; Tugger Hoist; Tunnel Locomotive; Vacuum Machine (mounted or towed); Welder; Winch; Winch Cat.

CLASS C: A Frame Truck; All Terrain Telescoping Material Handler; Ballast Regulator (ride-on); Compressors (4 not to exceed 2,000 c.f.m. combined capacity; or 3 or less with more than 1200 c.f.m. but not to exceed 2,000 c.f.m.); Compressors ((any size, but subject to other provisions for compressors), Dust Collectors, Generators, Pumps, Welding Machines, Light Plants (4 or any type combination)); Concrete Pavement Spreaders and Finishers; Conveyor; Drill (core); Drill (well); Electric Pump used in conjunction with Well Point System; Farm Tractor with Accessories; Fine Grade Machine; Fork Lift; Grout Pump (over 5 cu. ft.); Gunite Machine; Hammers (hydraulic-self-propelled); Hydra-Spiker (ride-on); Hydra-Blaster (water); Hydro-Blaster; Motorized Form Carrier; Post Hole Digger and Post Driver; Power Sweeper; Roller grade & fill); Scarifer (ride-on); Span-Saw (ride-on); Submersible Electric Pump (when used in lieu of well points); Tamper (ride-on); Tie-Extractor (ride-on), Tie Handler (ride-on), Tie Inserter (ride-on), Tie Spacer (ride-on); Track Liner (ride-on); Tractor with towed accessories; Vibratory Compactor; Vibro Tamp, Well Point.

CLASS D: Aggregate Plant; Cement & Bin Operator; Compressors (3 or less not to exceed 1,200 c.f.m. combined capacity); Compressors ((any size, but subject to other provisions for compressors), Dust Collectors, Generators, Pumps, Welding Machines, Light Plants (3 or less or any type or combination)); Concrete Saw (self-propelled); Form Tamper; Greaseman; Hydraulic Pump (jacking system); Junior Engineer; Light Plants; Mulching Machine; Oiler; Parapet Concrete or Pavement Grinder; Power Broom (towed); Power Heaterman (when used for production); Revinius Widener; Shell Winder; Steam Cleaner; Tractor.

Per hour:	07/01/2025
CLASS A	$ 58.44
CLASS B	57.22
CLASS C	54.43
CLASS D	51.42

Additional $5.00 per hour for Hazardous Waste Work on a state or federally designated hazardous waste site where the Operating Engineer is in direct contact with hazardous material and when personal protective equipment is required for respiratory, skin and eye protection.

CRANES:
Crane 1: All cranes, including self-erecting.
Crane 2: All Lattice Boom Cranes and all cranes with a manufacturer's rating of fifty (50) ton and over.
Crane 3: All hydraulic cranes and derricks with a manufacturer's rating of forty nine (49) ton and below, including boom trucks.

Crane 1	$ 62.44
Crane 2	61.44
Crane 3	60.44

SUPPLEMENTAL BENEFITS
Per hour:
$ 25.90
+ 10.10*

* This portion of the benefits subject to SAME PREMIUM as shown for overtime wages.

OVERTIME PAY
See (B, B2, E, Q, X) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
NOTE: If a holiday falls on Sunday, it shall be observed on Monday.

REGISTERED APPRENTICES
WAGES:(1000) hours terms at the following percentage of Journeyworker's Class B wage.

1st term	60%
2nd term	65%
3rd term	70%
4th term	75%

SUPPLEMENTAL BENEFITS per hour: Same as Journeyworker

7-158-832TL.

Painter 09/01/2025

JOB DESCRIPTION Painter **DISTRICT** 2

ENTIRE COUNTIES
Cortland, Tompkins

WAGES
Per hour:

	07/01/2025	05/01/2026 Additional
Painter	$ 28.20	$ 1.85*
Taper, Paperhangers, and Vinyl hangers	29.61	1.90*

*To be allocated at a later date.

ADDITIONAL AMOUNTS FOR SPECIFIC TYPES OF JOBSITE CONDITIONS (amount subject to any overtime premiums):
- Additional $ 1.10 per hour for Brush and Roll Epoxy (Solvent Base Only)
- Additional $ 0.60 per hour for Swing Scaffold, Boatswain chair, Spray helper, Steam cleaning acid and high pressure water, Power grinders with respirator
- Additional $ 0.60 per hour for Structural steel (buildings) defined as new or old construction where ceilings, walls or the steel itself is to be painted from open trusses which require climbing or crawling without the support of solid scaffolding or scaffolding starting at the floor or ground level.
- Additional $ 1.00 per hour for Spray Painting
- Additional $ 1.50 per hour for Spray Epoxy (Solvent Based)
- Additional $ 0.90 per hour for Sandblasting

NOTE - SEE BRIDGE PAINTER RATES FOR BRIDGES & TANKS

SUPPLEMENTAL BENEFITS
Per hour:
Journeyworker $ 24.98

OVERTIME PAY
See (B, E2, F, R) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
A Holiday that falls on a Sunday will be celebrated on Monday, a holiday that falls on a Saturday will be celebrated on Friday.

REGISTERED APPRENTICES
WAGES:

Painter: 750 hour terms at the Painter Apprentice wage rate:

1st	2nd	3rd	4th	5th	6th	7th	8th
$ 18.00	$ 19.00	$ 20.00	$ 21.00	$ 22.00	$ 23.00	$ 24.00	$ 25.00

Taper: 750 hour terms at the following Journeyworker Taper Apprentice wage rate:

1st	2nd	3rd	4th	5th	6th
$ 20.00	$ 21.00	$ 22.00	$ 23.00	$ 24.00	$ 25.00

ADDITIONAL AMOUNTS FOR SPECIFIC TYPES OF JOBSITE CONDITIONS (amount subject to any overtime premiums):
- Additional $ 1.10 per hour for Brush and Roll Epoxy (Solvent Base Only)
- Additional $ 0.60 per hour for Swing Scaffold, Boatswain chair, Spray helper, Steam cleaning acid and high pressure water, Power grinders with respirator
- Additional $ 0.60 per hour for Structural steel (buildings) defined as new or old construction where ceilings, walls or the steel itself is to be painted from open trusses which require climbing or crawling without the support of solid scaffolding or scaffolding starting at the floor or ground level.
- Additional $ 1.00 per hour for Spray Painting
- Additional $ 1.00 per hour for Steeple Jack (Over 100 feet)
- Additional $ 1.50 per hour for Spray Epoxy (Solvent Based)
- Additional $ 0.90 per hour for Sandblasting

SUPPLEMENTAL BENEFITS per hour:
Painter/Decorator:

1st	2nd	3rd	4th	5th	6th	7th	8th
$ 6.00	$ 7.00	$ 8.00	$ 9.10	$ 11.00	$ 11.00	$ 13.00	$ 14.00

Taper/Drywall Finisher:

1st	2nd	3rd	4th	5th	6th
$ 6.00	$ 7.00	$ 8.00	$ 10.00	$ 13.00	$ 14.00

2-178 I

Painter — 09/01/2025

JOB DESCRIPTION Painter **DISTRICT** 3

ENTIRE COUNTIES
Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Cortland, Delaware, Erie, Genesee, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Wayne, Wyoming, Yates

WAGES

Per hour:	07/01/2025	05/01/2026 Additional
Bridge	$ 46.19	$ 2.50
Tunnel	46.19	
Tank*	44.19	

For Bridge Painting Contracts, ALL WORKERS on and off the bridge (including Flagmen) are to be paid Painter's Rate; the contract must be ONLY for Bridge Painting.

*Tank rate applies to indoor and outdoor tanks, tank towers, standpipes, digesters, waste water treatment tanks, chlorinator tanks, etc. Covers all types of tanks including but not limited to steel tanks, concrete tanks, fiberglass tanks, etc.

SHIFT WORK
Note an additional $1.50 per hour is required when the contracting agency or project specification requires any shift to start prior to 6:00am or after 12:00 noon.

SUPPLEMENTAL BENEFITS
Per hour:
$ 31.51

OVERTIME PAY
Exterior work only See (B, E2, E4, F, R) on OVERTIME PAGE.

All other work See (B, F, R) on OVERTIME PAGE.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:

750 hour terms at the following wage:

1st	2nd	3rd	4th	5th	6th
$ 24.00	$ 26.00	$ 28.00	$ 30.00	$ 34.00	$ 38.00

Supplemental benefits per hour:

1st	2nd	3rd	4th	5th	6th
$ 6.60	$ 6.95	$ 7.30	$ 7.65	$ 8.00	$ 8.35

3-4-Bridge, Tunnel, Tank

Painter - Metal Polisher — 09/01/2025

JOB DESCRIPTION Painter - Metal Polisher **DISTRICT** 8

ENTIRE COUNTIES
Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

	07/01/2025
Metal Polisher	$ 40.33
Metal Polisher*	41.43
Metal Polisher**	44.33

*Note: Applies on New Construction & complete renovation
** Note: Applies when working on scaffolds over 34 feet.

SUPPLEMENTAL BENEFITS
Per Hour: 07/01/2025

Journeyworker:
All classification $ 13.44

OVERTIME PAY
See (B, E, P, T) on OVERTIME PAGE

HOLIDAY
Paid: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE
Overtime: See (5, 6, 11, 15, 16, 25, 26) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages per hour:
One (1) year term at the following wage rates:

	07/01/2025
1st year	$ 20.17
2nd year	22.18
3rd year	24.20
1st year*	$ 20.56
2nd year*	22.62
3rd year*	24.74
1st year**	$ 22.67
2nd year**	24.68
3rd year**	26.70

*Note: Applies on New Construction & complete renovation
** Note: Applies when working on scaffolds over 34 feet.

Supplemental benefits:
Per hour:

1st year	$ 8.94
2nd year	8.94
3rd year	8.94

8-8A/28A-MP

Plumber 09/01/2025

JOB DESCRIPTION Plumber **DISTRICT** 6

ENTIRE COUNTIES
Chemung, Cortland, Onondaga, Schuyler, Tompkins

PARTIAL COUNTIES
Madison: Only the Townships of Sullivan, Cazenovia and DeRuyter.
Seneca: Only the Townships of Covert and Lodi.
Steuben: Only the Townships of Addison, Bath, Bradford, Campbell, Caton, Corning, Erwin, Hornby, Lindley, Pulteney, Rathbone, Thurston, Tuscarora, Urbana and Wayne.
Tioga: Only the Townships of Barton, Berkshire, Candor, Nichols, Richford, Spencer and Tioga.

WAGES

Per hour:	07/01/2025	05/01/2026 Additional
Plumber, Steamfitter, Pipefitter, Welder, HVAC, Refrigeration.	$ 48.26	$ 4.50*

* To be allocated at a later date.

SHIFT WORK
SINGLE IRREGULAR WORK SHIFT: Additional 15% premium added to the wage rate above for a single irregular work shift starting between 4:30PM and 7:00AM.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 28.15*

*NOTE: $10.27 of the supplemental benefits are paid at the same premium as shown for overtime work performed at semi-conductor manufacturer and/or fabrication plants.

OVERTIME PAY
Time and one half for the 9th & 10th hours Monday thru Friday and first 10 hours on Saturday. All other overtime hours are double time.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
NOTE: If a holiday falls on Saturday, the holiday will be observed on the preceding Friday. If a holiday falls on Sunday, it will be observed on the following Monday.

REGISTERED APPRENTICES
WAGES per hour: One year terms at the following percentage of the Journeyworker's wage:

1st	2nd	3rd	4th	5th
55%	60%	70%	75%	85%

SUPPLEMENTAL BENEFITS per hour*:

1st	$ 15.87
2nd	24.67
3rd	25.30
4th	25.89
5th	26.90

*NOTE: Below is the portion of supplemental benefits paid at overtime premiums for work performed at semi-conductor manufacturer and/or fabrication plants:

1st	n/a
2nd	$ 8.58
3rd	8.77
4th	9.14
5th	9.71

6-81-SF

Roofer 09/01/2025

JOB DESCRIPTION Roofer **DISTRICT** 2

ENTIRE COUNTIES
Broome, Chemung, Chenango, Delaware, Otsego, Schoharie, Schuyler, Steuben, Tioga, Tompkins

WAGES

Per hour:	07/01/2025
Roofer, Waterproofer	$ 30.33
	+ 1.02*

*This amount is paid for all hours worked, whether regular or premium hours.

NOTE ADDITIONAL PREMIUMS PAID FOR THE FOLLOWING WORK LISTED BELOW (amount not subject to overtime premiums):
- On days where more than one shift is worked on the job, the hours worked after 4:30 PM and before 6:30 AM will be paid an additional $1.90 per hour premium. This premium is not for use in emergency repair situations.
- Premium of $1.25 per hour will be paid for the application, rip-off or handling of pitch products. The premium will be paid for pitch that is showing, covered or buried on the roof.
- Premium of $1.25 per hour will be paid for asbestos abatement requiring a half face respirator.

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker	$ 23.99

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY

Paid:	See (1) on HOLIDAY PAGE
Overtime:	See (5, 6) on HOLIDAY PAGE

REGISTERED APPRENTICES
Wages:

Hours per term	
0-667 Hrs.	$ 21.24 + 0.71*
668-1335 Hrs.	22.76 + 0.76*
1336-2002 Hrs.	24.27 + 0.81*
2003-2669 Hrs.	25.79 + 0.86*
2670-3336 Hrs.	27.30 + 0.92*
3337-4000 Hrs.	28.82 + 0.97*

*This amount is paid for all hours worked, whether regular or premium hours.

NOTE ADDITIONAL PREMIUMS PAID FOR THE FOLLOWING WORK LISTED BELOW (amount not subject to overtime premiums):
- On days where more than one shift is worked on the job, the hours worked after 4:30 PM and before 6:30 AM will be paid an additional $1.90 per hour premium. This premium is not for use in emergency repair situations.
- Premium of $1.25 per hour will be paid for the application, rip-off or handling of pitch products. The premium will be paid for pitch that is showing, covered or buried on the roof.
- Premium of $1.25 per hour will be paid for asbestos abatement requiring a half face respirator.

Supplemental Benefits:

0-667 Hrs.	$ 19.93
668-1335 Hrs.	20.62
1336-2002 Hrs.	21.29
2003-2669 Hrs.	21.96
2670-3336 Hrs.	22.65
3337-4000 Hrs.	23.32

2-203elmi

Sheetmetal Worker 09/01/2025

JOB DESCRIPTION Sheetmetal Worker **DISTRICT** 2

ENTIRE COUNTIES
Allegany, Broome, Chemung, Delaware, Otsego, Schuyler, Steuben, Tioga, Tompkins

WAGES
Per hour:

	07/01/2025	05/01/2026	05/01/2027

		Additional	Additional
Sheetmetal Worker	$ 39.74 + 0.99*	$ 4.00**	$ 4.00**

NOTE: Ten cents ($0.10) per hour additional premium to be paid when working polyresin fiberglass.
*Amount is paid for every hour worked (amount not subject to overtime premium)
**To be allocated at a later date

SUPPLEMENTAL BENEFITS
Per hour:

Journeyworker: $ 22.41

OVERTIME PAY
See (*B1, Q) on OVERTIME PAGE
*On Saturday, time and one half of the hourly rate for the first ten (10) hours, then two (2) times the hourly wage rate for all hours after ten (10) hours worked.

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: Holidays are observed on the Holiday, not on the day that it is locally observed.

REGISTERED APPRENTICES
WAGES per hour:
Indentured after 05/01/2025 (1-year Terms):

1st	2nd	3rd	4th	5th
$ 23.84	$ 25.83	$ 27.82	$ 31.79	$ 33.78
+0.60*	+0.65*	+0.70*	+0.79*	+0.84*

Indentured prior to 05/01/2025 (Half Year Terms):

1st	2nd	3rd	4th	5th	6th	7th	8th
$ 23.84	$ 23.84	$ 25.83	$ 27.82	$ 29.81	$ 31.79	$ 33.78	$ 35.77
+0.60*	+0.60*	+0.65*	+0.70*	+0.75*	+0.79*	+0.84*	+0.89*

*Amount is paid for every hour worked (amount not subject to overtime premium)

SUPPLEMENTAL BENEFITS per hour:
Indentured after 05/01/2025:

1st	2nd	3rd	4th	5th
$ 2.12	$ 18.64	$ 18.72	$ 18.88	$ 22.17

Indentured prior to 05/01/2025:

1st	2nd	3rd	4th	5th	6th	7th	8th
$ 2.12	$ 2.12	$ 18.64	$ 18.72	$ 18.80	$ 18.88	$ 18.97	$ 19.05

Sprinkler Fitter — 09/01/2025

JOB DESCRIPTION Sprinkler Fitter **DISTRICT** 1

ENTIRE COUNTIES
Allegany, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Lewis, Livingston, Madison, Monroe, Montgomery, Niagara, Oneida, Onondaga, Ontario, Orleans, Oswego, Otsego, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Tioga, Tompkins, Washington, Wayne, Wyoming, Yates

WAGES
Per hour 07/01/2025

Sprinkler Fitter $ 45.06

SUPPLEMENTAL BENEFITS
Per hour

Journeyworker $ 29.41

OVERTIME PAY
See (B, E, Q) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE
Note: When a holiday falls on Sunday, the following Monday shall be considered a holiday and all work performed on either day shall be at the double time rate. When a holiday falls on Saturday, the preceding Friday shall be considered a holiday and all work performed on either day shall be at the double time rate.

REGISTERED APPRENTICES
Wages per hour

One Half Year terms at the following wage.

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
$ 23.28	$ 25.98	$ 28.15	$ 30.31	$ 31.94	$ 34.64	$ 36.81	$ 38.97	$ 41.14	$ 43.30

Supplemental Benefits per hour

1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
$ 9.57	$ 9.57	$ 21.49	$ 21.49	$ 21.74	$ 21.74	$ 21.74	$ 21.74	$ 21.74	$ 21.74

1-669

Teamster - Building — 09/01/2025

JOB DESCRIPTION Teamster - Building **DISTRICT** 6

ENTIRE COUNTIES
Broome, Cayuga, Cortland, Delaware, Onondaga, Seneca, Tompkins, Yates

PARTIAL COUNTIES
Allegany: Only the Townships of Alfred, Almond, Burns.
Chenango: Only the Townships of Afton, Bainbridge, Coventry, Greene, Guilford, Oxford and Smithville.
Madison: Only the Townships of Cazenovia, DeRuyter, Fenner, Georgetown, Lenox, Nelson and Sullivan.
Oswego: All Townships except Boylston, Redfield and Sandy Creek.
Otsego: Only the Townships of Butternuts, Laurens, Maryland, Millford, Morris, Oneonta, Otego, Unadilla, and Worchester.
Steuben: Only the Townships of Canisteo, Cohoctan, Dansville, Fremont, Greenwood, Hornell, Hartsville, Jasper, Prattsburg, Troupsburg, and West Union.
Tioga: Only the Townships of Berkshire, Candor, Newark Valley, Nichols, Owego, Richford, and Tioga. All territory east of Nichols/Smithboro to Broome County, within the State of New York.

WAGES
GROUP A: Straight Trucks.
GROUP B: Tractor Trailer, Farm Tractor, Fuel Truck.
GROUP C: Euclid.
GROUP D: On site Mechanic.

Per hour:	07/01/2025
Building: (under $ 5 million*)	
GROUP A, B, C, D	$ 34.43
Building: (over $ 5 million*)	
GROUP A, B	$ 35.48
GROUP C	35.83
GROUP D	35.63

* Total project cost including General Construction, Plumbing, HVAC and Electrical

SUPPLEMENTAL BENEFITS
Per hour:

(under $5 million*)	$ 30.87
(over $5 million*)	31.67

* Total project cost including General Construction, Plumbing, HVAC and Electrical

OVERTIME PAY
(D, O) on OVERTIME PAGE

HOLIDAY
Paid: See (1) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

6-317

Teamster - Heavy&Highway — 09/01/2025

JOB DESCRIPTION Teamster - Heavy&Highway **DISTRICT** 6

ENTIRE COUNTIES
Cayuga, Cortland, Seneca, Tompkins, Yates

PARTIAL COUNTIES
Allegany: Only the Townships of Almond, Alfred, Burns.
Steuben: Only the Townships of Canisteo, Cohocton, Dansville, Freemont, Greenwood, Hartsville, Hornell, Jasper, Prattsburg, Troupsburg, and West Union.

WAGES
GROUP 1: Warehousemen*, Yardmen*, Truck Helpers, Pickups, Panel Trucks, Flatboy Material Trucks (straight jobs), Single Axle Dump Trucks, Dumpsters, Material Checkers & Receivers*, Greasers, Truck Tiremen, Mechanic Helpers and Parts Chasers, Tandems & Batch Trucks, Mechanics, Semi-Trailers, Low-boy Trucks, Asphalt Distributor Trucks and Agitator, Mixer Trucks and Dumpcrete type vehicles, Truck Mechanic, Fuel Trucks.

*NOTE: Applies when a temporary warehouse structure is built/utilized specifically for a public work project.

GROUP 2: Specialized Earth Moving Equipment-Euclid type, or similar off-highway equipment, where not self-loading, Straddle (Ross) Carrier, and self-contained concrete mobile truck, Off-highway Tandem Back-Dump, Twin Engine Equipment and Double-Hitched Equipment where not self-loading.

Group 3: Fuel trucks that require a HazMat license endorsement.

Per hour:	07/01/2025	07/01/2026	07/01/2027
GROUP 1	$ 37.27	$ 40.62	$ 44.28
GROUP 2	37.47	40.82	44.48
GROUP 3	42.27	45.62	49.28

SHIFT WORK
A single irregular work shift can start any time between 5:00pm and 1:00am. All employees who work a single irregular shift on governmental mandated night work shall be paid an additional $ 5.00 per hour.

SUPPLEMENTAL BENEFITS

Per hour:	07/01/2025	07/01/2026	07/01/2027
Journeyworker	$ 29.29	$ 29.94	$ 30.78

OVERTIME PAY
See (*B, B3, J, X) on OVERTIME PAGE
*Time and one half also applicable after the 5th day worked.

HOLIDAY
Paid: See (5, 6) on HOLIDAY PAGE
Overtime: See (5, 6) on HOLIDAY PAGE

6-317(Syr)

Welder — 09/01/2025

JOB DESCRIPTION Welder **DISTRICT** 1

ENTIRE COUNTIES
Albany, Allegany, Bronx, Broome, Cattaraugus, Cayuga, Chautauqua, Chemung, Chenango, Clinton, Columbia, Cortland, Delaware, Dutchess, Erie, Essex, Franklin, Fulton, Genesee, Greene, Hamilton, Herkimer, Jefferson, Kings, Lewis, Livingston, Madison, Monroe, Montgomery, Nassau, New York, Niagara, Oneida, Onondaga, Ontario, Orange, Orleans, Oswego, Otsego, Putnam, Queens, Rensselaer, Richmond, Rockland, Saratoga, Schenectady, Schoharie, Schuyler, Seneca, St. Lawrence, Steuben, Suffolk, Sullivan, Tioga, Tompkins, Ulster, Warren, Washington, Wayne, Westchester, Wyoming, Yates

WAGES

Per hour	07/01/2025
Welder:	To be paid the same rate of the mechanic performing the work.*

*EXCEPTION: If a specific welder certification is required, then the 'Certified Welder' rate in that trade tag will be paid.

OVERTIME PAY

HOLIDAY

1-As Per Trade

Overtime Codes

Following is an explanation of the code(s) listed in the OVERTIME section of each classification contained in the attached schedule. Additional requirements may also be listed in the HOLIDAY section.

NOTE: Supplemental Benefits are 'Per hour worked' (for each hour worked) unless otherwise noted

(AA)	Time and one half of the hourly rate after 7 and one half hours per day
(A)	Time and one half of the hourly rate after 7 hours per day
(B)	Time and one half of the hourly rate after 8 hours per day
(B1)	Time and one half of the hourly rate for the 9th & 10th hours week days and the 1st 8 hours on Saturday. Double the hourly rate for all additional hours
(B2)	Time and one half of the hourly rate after 40 hours per week
(B3)	Time and one half of the hourly rate after 40 straight hours per week
(C)	Double the hourly rate after 7 hours per day
(C1)	Double the hourly rate after 7 and one half hours per day
(D)	Double the hourly rate after 8 hours per day
(D1)	Double the hourly rate after 9 hours per day
(E)	Time and one half of the hourly rate on Saturday
(E1)	Time and one half 1st 4 hours on Saturday; Double the hourly rate all additional Saturday hours
(E2)	Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
(E3)	Between November 1st and March 3rd Saturday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather, provided a given employee has worked between 16 and 32 hours that week
(E4)	Sunday may be used as a make-up day at straight time when a day is lost during that week due to inclement weather
(E5)	Double time after 8 hours on Saturdays
(F)	Time and one half of the hourly rate on Saturday and Sunday
(G)	Time and one half of the hourly rate on Saturday and Holidays
(H)	Time and one half of the hourly rate on Saturday, Sunday, and Holidays
(I)	Time and one half of the hourly rate on Sunday
(J)	Time and one half of the hourly rate on Sunday and Holidays
(K)	Time and one half of the hourly rate on Holidays
(L)	Double the hourly rate on Saturday
(M)	Double the hourly rate on Saturday and Sunday
(N)	Double the hourly rate on Saturday and Holidays
(O)	Double the hourly rate on Saturday, Sunday, and Holidays
(P)	Double the hourly rate on Sunday
(Q)	Double the hourly rate on Sunday and Holidays
(R)	Double the hourly rate on Holidays

(S)	Two and one half times the hourly rate for Holidays
(S1)	Two and one half times the hourly rate the first 8 hours on Sunday or Holidays One and one half times the hourly rate all additional hours.
(T)	Triple the hourly rate for Holidays
(U)	Four times the hourly rate for Holidays
(V)	Including benefits at SAME PREMIUM as shown for overtime
(W)	Time and one half for benefits on all overtime hours.
(X)	Benefits payable on Paid Holiday at straight time. If worked, additional benefit amount will be required for worked hours. (Refer to other codes listed.)

Holiday Codes

PAID Holidays:

Paid Holidays are days for which an eligible employee receives a regular day's pay, but is not required to perform work. If an employee works on a day listed as a paid holiday, this remuneration is in addition to payment of the required prevailing rate for the work actually performed.

OVERTIME Holiday Pay:

Overtime holiday pay is the premium pay that is required for work performed on specified holidays. It is only required where the employee actually performs work on such holidays. The applicable holidays are listed under HOLIDAYS: OVERTIME. The required rate of pay for these covered holidays can be found in the OVERTIME PAY section listings for each classification.

Following is an explanation of the code(s) listed in the HOLIDAY section of each classification contained in the attached schedule. The Holidays as listed below are to be paid at the wage rates at which the employee is normally classified.

(1)	None
(2)	Labor Day
(3)	Memorial Day and Labor Day
(4)	Memorial Day and July 4th
(5)	Memorial Day, July 4th, and Labor Day
(6)	New Year's, Thanksgiving, and Christmas
(7)	Lincoln's Birthday, Washington's Birthday, and Veterans Day
(8)	Good Friday
(9)	Lincoln's Birthday
(10)	Washington's Birthday
(11)	Columbus Day
(12)	Election Day
(13)	Presidential Election Day
(14)	1/2 Day on Presidential Election Day
(15)	Veterans Day
(16)	Day after Thanksgiving
(17)	July 4th
(18)	1/2 Day before Christmas
(19)	1/2 Day before New Years
(20)	Thanksgiving
(21)	New Year's Day
(22)	Christmas
(23)	Day before Christmas
(24)	Day before New Year's
(25)	Presidents' Day
(26)	Martin Luther King, Jr. Day
(27)	Memorial Day
(28)	Easter Sunday

(29) Juneteenth

New York State Department of Labor - Bureau of Public Work
State Office Building Campus
Building 12 - Room 130
Albany, New York 12226

REQUEST FOR WAGE AND SUPPLEMENT INFORMATION

As Required by Articles 8 and 9 of the NYS Labor Law

Fax (518) 485-1870 or mail this form for new schedules or for determination for additional occupations.

This Form Must Be Typed

Submitted By: (Check Only One) ☐ Contracting Agency ☐ Architect or Engineering Firm ☐ Public Work District Office Date:

A. Public Work Contract to be let by: (Enter Data Pertaining to Contracting/Public Agency)

1. Name and complete address ☐ (Check if new or change)

Telephone Fax

E-Mail:

2. NY State Units (see Item 5).

- ☐ 01 DOT
- ☐ 02 OGS
- ☐ 03 Dormitory Authority
- ☐ 04 State University Construction Fund
- ☐ 05 Mental Hygiene Facilities Corp.
- ☐ 06 OTHER N.Y. STATE UNIT
- ☐ 07 City
- ☐ 08 Local School District
- ☐ 09 Special Local District, i.e., Fire, Sewer, Water District
- ☐ 1O Village
- ☐ 11 Town
- ☐ 12 County
- ☐ 13 Other Non-N.Y. State (Describe)

3. SEND REPLY TO ☐ (check if new or change)
Name and complete address:

Telephone Fax

E-Mail:

4. SERVICE REQUIRED. Check appropriate box and provide project information.

☐ New Schedule of Wages and Supplements.

APPROXIMATE BID DATE :

☐ Additional Occupation and/or Redetermination

PRC NUMBER ISSUED PREVIOUSLY FOR THIS PROJECT :

OFFICE USE ONLY

B. PROJECT PARTICULARS

5. Project Title _____

Description of Work _____

_____

Contract Identification Number _____

Note: For NYS units, the OSC Contract No. _____

6. Location of Project:
Location on Site _____

Route No/Street Address _____

Village or City _____

Town _____

County _____

7. Nature of Project - Check One:

- ☐ 1. New Building
- ☐ 2. Addition to Existing Structure
- ☐ 3. Heavy and Highway Construction (New and Repair)
- ☐ 4. New Sewer or Waterline
- ☐ 5. Other New Construction (Explain)
- ☐ 6. Other Reconstruction, Maintenance, Repair or Alteration
- ☐ 7. Demolition
- ☐ 8. Building Service Contract

8. OCCUPATION FOR PROJECT :

- ☐ Construction (Building, Heavy Highway/Sewer/Water)
- ☐ Tunnel
- ☐ Residential
- ☐ Landscape Maintenance
- ☐ Elevator maintenance
- ☐ Exterminators, Fumigators
- ☐ Fire Safety Director, NYC Only
- ☐ Fuel Delivery
- ☐ Guards, Watchmen
- ☐ Janitors, Porters, Cleaners, Elevator Operators
- ☐ Moving furniture and equipment
- ☐ Trash and refuse removal
- ☐ Window cleaners
- ☐ Other (Describe)

9. Does this project comply with the Wicks Law involving separate bidding? YES ☐ NO ☐

10. Name and Title of Requester

Signature

SEE PAGE TWO FOR LAWS RELATING TO PUBLIC WORK CONTRACTS

NEW YORK STATE DEPARTMENT OF LABOR
Bureau of Public Work - Debarment List

LIST OF EMPLOYERS INELIGIBLE TO BID ON OR BE AWARDED ANY PUBLIC WORK CONTRACT

Under Article 8 and Article 9 of the NYS Labor Law, a contractor, sub-contractor and/or its successor shall be debarred and ineligible to submit a bid on or be awarded any public work or public building service contract/sub-contract with the state, any municipal corporation or public body for a period of five (5) years from the date of debarment when:

- Two (2) final determinations have been rendered within any consecutive six-year (6) period determining that such contractor, sub-contractor and/or its successor has WILLFULLY failed to pay the prevailing wage and/or supplements;
- One (1) final determination involves falsification of payroll records or the kickback of wages and/or supplements.

The agency issuing the determination and providing the information, is denoted under the heading 'Fiscal Officer'. DOL = New York State Department of Labor; NYC = New York City Comptroller's Office; AG = New York State Attorney General's Office; DA = County District Attorney's Office.

Debarment Database: To search for contractors, sub-contractors and/or their successors debarred from bidding or being awarded any public work contract or subcontract under NYS Labor Law Articles 8 and 9, or under NYS Workers' Compensation Law Section 141-b, access the database at this link: https://apps.labor.ny.gov/EDList/searchPage.do

For inquiries please call 518-457-5589.

NYSDOL Bureau of Public Work Debarment List 08/29/2025

Article 8

AGENCY	Fiscal Officer	FEIN	EMPLOYER NAME	EMPLOYER DBA NAME	ADDRESS	DEBARMENT START DATE	DEBARMENT END DATE
DOL	DOL	*****5754	0369 CONTRACTORS, LLC		515 WEST AVE UNIT PH 13NORWALK CT 06850	05/12/2021	05/12/2026
DOL	DOL	*****5784	A.J.M. TRUCKING, INC.		PO BOX 2064 MONROE NY 10950	02/12/2024	02/12/2029
DOL	DOL		AKHLAQ OULAKH		4307 28TH AVE ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	NYC		ALL COUNTY SEWER & DRAIN, INC.		7 GREENFIELD DR WARWICK NY 10990	03/25/2022	03/25/2027
DOL	DOL	*****8387	AMERICAN PAVING & MASONRY, CORP.		8 FOREST AVE GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	DOL	*****8654	AMERICAN PAVING, INC.		8 FORREST AVE. GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	NYC		AMJED PARVEZ		401 HANOVER AVENUE STATEN ISLAND NY 10304	01/11/2021	01/11/2026
DOL	DOL		ANGELO F COKER		2610 SOUTH SALINA STREET SUITE 14SYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL		ANGELO GARCIA		515 WEST AVE UNIT PH 13NORWALK CT 06850	05/12/2021	05/12/2026
DOL	DOL		ANGELO STANCO		8 FOREST AVE. GLEN COVE NY 11542	05/24/2024	05/24/2029
DOL	DOL		ANGELO TONDO		449 WEST MOMBSHA ROAD MONROE NY 10950	06/06/2022	06/06/2027
DOL	DOL	*****4231	ANKER'S ELECTRIC SERVICE, INC.		10 SOUTH 5TH ST LOCUST VALLEY NY 11560	09/26/2022	09/26/2027
DOL	DOL		ANTHONY MONGELLI		PO BOX 2064 MONROE NY 10950	02/12/2024	02/12/2029
DOL	NYC		ARADCO CONSTRUCTION CORP		115-46 132RD ST SOUTH OZONE PARK NY 11420	09/17/2020	09/17/2025
DOL	NYC		AVM CONSTRUCTION CORP		117-72 123RD ST SOUTH OZONE PARK NY 11420	09/17/2020	09/17/2025
DOL	NYC		AZIDABEGUM		524 MCDONALD AVENUE BROOKLYN NY 11218	09/17/2020	09/17/2025
DOL	DOL	*****8421	B & B DRYWALL, INC		206 WARREN AVE APT 1WHITE PLAINS NY 10603	12/14/2021	12/14/2026
DOL	DOL		B&L RENOVATION CO.		618 OCEAN PARKWAY APT A6BROOKLYN NY 11230	09/17/2020	09/17/2025
DOL	NYC	*****2113	BHW CONTRACTING, INC.		401 HANOVER AVENUE STATEN ISLAND NY 10304	01/11/2021	01/11/2026
DOL	DA	*****2404	BJA RENOVATION, CORP		33 DOLLARD DR NORTH BABYLON NY 11703	03/19/2025	03/19/2030
DOL	DOL	*****5078	BLACK RIVER TREE REMOVAL, LLC		29807 ANDREWS ROAD BLACK RIVER NY 13032	10/17/2023	10/17/2028
DOL	DOL		BRADLEY J SCHUKA		4 BROTHERS ROAD WAPPINGERS FALLS NY 12590	10/20/2020	10/20/2025
DOL	DOL	*****9383	C.C. PAVING AND EXCAVATING, INC.		2610 SOUTH SALINA ST SUITE 12SYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL	*****5161	CALADRI DEVELOPMENT CORP.		1223 PARK ST. PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	DOL	*****3391	CALI ENTERPRISES, INC.		1223 PARK STREET PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	DOL	*****4155	CASA BUILDERS, INC.	FRIEDLANDER CONSTRUCTION	64 N PUTT CONNERS ROAD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	AG	*****7247	CENTURY CONCRETE CORP		2375 RAYNOR ST RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	*****0026	CHANTICLEER CONSTRUCTION LLC		4 BROTHERS ROAD WAPPINGERS FALLS NY 12590	10/20/2020	10/20/2025
DOL	NYC	*****2117	CHARAN ELECTRICAL ENTERPRISES		9-11 40TH AVENUE LONG ISLAND CITY NY 11101	09/26/2023	09/26/2028
DOL	DOL		CHRISTOPHER GRECO		26 NORTH MYRTLE AVENUE SPRING VALLEY NY 10956	02/18/2021	02/18/2026
DOL	DOL	*****2281	CORRAO TRUCKING, INC.		PO BOX 393 NANUET NY 10954	09/17/2024	09/17/2029
DOL	DOL		CRAIG JOHANSEN		10 SOUTH 5TH ST LOCUST VALLEY NY 11560	09/26/2022	09/26/2027
DOL	DOL	*****3228	CROSS-COUNTY LANDSCAPING AND TREE SERVICE, INC.	ROCKLAND TREE SERVICE	26 NORTH MYRTLE AVENUE SPRING VALLEY NY 10956	02/18/2021	02/18/2026
DOL	DOL	*****7619	DANCO CONSTRUCTION UNLIMITED INC.		485 RAFT AVENUE HOLBROOK NY 11741	10/19/2021	10/19/2026

DOL	DOL		DANIEL ROBERT MCNALLY		7 GREENFIELD DRIVE WARWICK NY 10990	03/25/2022	03/25/2027
DOL	DOL		DARIAN L COKER		2610 SOUTH SALINA ST SUITE 2CSYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL		DARWIN PEGUESE		6400 BALTIMORE NATIONAL SUITE 602CANTONSVILLE NY 21228	10/24/2024	10/24/2029
DOL	DOL		DAVID FRIEDLANDER		64 NORTH PUTT CORNERS RD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	DOL		DINA TAYLOR		64 N PUTT CONNERS RD NEW PALTZ NY 12561	05/10/2023	05/10/2028
DOL	AG		EDWIN HUTZLER		23 NORTH HOWELLS RD BELLPORT NY 11713	08/04/2021	08/04/2026
DOL	DA		EDWIN HUTZLER		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	*****0780	EMES HEATING & PLUMBING CONTR		5 EMES LANE MONSEY NY 10952	01/20/2002	01/20/3002
DOL	DOL		EMIL KISZKO		84 DIAMOND ST BROOKLYN NY 11222	07/18/2024	07/18/2029
DOL	DOL	*****3298	EMJACK CONSTRUCTION CORP.		84 DIAMOND ST BROOKLYN NY 11222	07/18/2024	07/18/2029
DOL	DOL	*****3298	EMJACK CONSTRUCTION LLC		4192 SIR ANDREW CIRCLE DOYLESTOWN PA 18902	07/18/2024	07/18/2029
DOL	DOL		EUGENIUSZ "GINO" KUCHAR		195 KINGSLAND AVE BROOKLYN NY 11222	12/22/2023	12/22/2028
DOL	DA		FREDERICK HUTZLER		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	*****2998	G.E.M. AMERICAN CONSTRUCTION CORP.		195 KINGSLAND AVE BROOKLYN NY 11222	12/22/2023	12/22/2028
DOL	NYC		GAYATRI MANGRU		21 DAREWOOD LANE VALLEY STREAM NY 11581	09/17/2020	09/17/2025
DOL	DA		GEORGE LUCEY		150 KINGS STREET BROOKLYN NY 11231	01/19/1998	01/19/2998
DOL	DA		GIOVANNA TRAVALJA		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DA		GIOVANNI NAPOLITANO		2501 BAYVIEW AVENUE WANTAGH NY 11793	02/21/2024	02/21/2029
DOL	DA	*****0213	GORILLA CONTRACTING GROUP, LLC		505 MANHATTAN AVE WEST BABYLON NY 11704	10/05/2023	10/05/2028
DOL	DA	*****4760	GTX CONSTRUCTION ASSOCIATES, CORP		2501 BAYVIEW AVE WANTAGH NY 11793	02/21/2024	02/21/2029
DOL	DOL		HERBERT CLEMEN		42 FOWLER AVENUE CORTLAND MANOR NY 10567	01/24/2023	01/24/2028
DOL	DOL		HERBERT CLEMEN		42 FOWLER AVENUE CORTLAND MANOR NY 10567	10/25/2022	10/25/2027
DOL	DOL	*****2397	ISLAND BREEZE MARINE, INC.		6400 BALTIMORE NATIONAL CANTONSVILLE MD 21228	10/24/2024	10/24/2029
DOL	DOL	*****5010	J. LINDSLEY ENTERPRISE, LLC		1002 STATE ROUTE 176 FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL	*****0241	J. LINDSLEY ROOFING, LLC		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL	*****9211	J. WASE CONSTRUCTION CORP.		8545 RT 9W ATHENS NY 12015	03/09/2021	03/09/2026
DOL	DOL		J.M.J CONSTRUCTION		151 OSTRANDER AVENUE SYRACUSE NY 13205	11/21/2022	11/21/2027
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		J.R. NELSON CONSTRUCTION		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R. NELSON, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	12/12/2022	12/12/2027
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		J.R.N COMPANIES, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL	*****1147	J.R.N. CONSTRUCTION, LLC		531 THIRD ST ALBANY NY 12206	11/07/2023	11/07/2028

DOL	DOL	*****1147	J.R.N. CONSTRUCTION, LLC		531 THIRD ST ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL	*****1147	J.R.N. CONSTRUCTION, LLC		531 THIRD ST ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		JAMES J. BAKER		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL		JAMES LINDSLEY		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL		JASON P. RACE		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL	*****7993	JBS DIRT, INC.		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL	*****2435	JEFFEL D. JOHNSON	JMJ7 AND SON	5553 CAIRNSTRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JEFFEL JOHNSON ELITE CARPENTER REMODEL AND CONSTRUCTION		C2 EVERGREEN CIRCLE LIVERPOOL NY 13090	11/21/2022	11/21/2027
DOL	DOL	*****2435	JEFFREY M. JOHNSON	JMJ7 AND SON	5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JENNIFER LINDSLEY		211 NORTH 2ND STREET FULTON NY 13069	07/30/2025	07/30/2030
DOL	DOL		JIM PLAUGHER		17613 SANTE FE LINE ROAD WAYNEFIELD OH 45896	07/16/2021	07/16/2026
DOL	DOL		JMJ7 & SON CONSTRUCTION, LLC		5553 CAIRNS TRAIL LIVERPOOL NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 AND SONS CONTRACTORS		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS		7014 13TH AVENUE BROOKLYN NY 11228	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS AND SONS		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JMJ7 CONTRACTORS, LLC		5553 CAIRNS TRAIL CLAY NY 13041	11/21/2022	11/21/2027
DOL	DOL		JOHN MARKOVIC		47 MANDON TERRACE HAWTHORN NJ 07506	03/29/2021	03/29/2026
DOL	DOL		JOHN WASE		8545 RT 9W ATHENS NY 12015	03/09/2021	03/09/2026
DOL	DOL		JORGE RAMOS		8970 MIKE GARCIA DR MANASSAS VA 20109	07/16/2021	07/16/2026
DOL	DA		JOSEPH DEMASCO		33 DOLLARD DRIVE NORTH BABYLON NY 11703	03/19/2025	03/19/2030
DOL	DOL		JOSEPH HALL		937 US ROUTE 11 CENTRAL SQUARE NY 13036	10/21/2024	10/21/2029
DOL	DOL	*****2271	JOSEPH HALL COMPANIES LLC		937 US ROUTE 11 CENTRAL SQUARE NY 13036	10/21/2024	10/21/2029
DOL	DOL		JOSEPH K. SALERNO		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL		JOSEPH K. SALERNO II		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL	*****5116	JP RACE PAINTING, INC. T/A RACE PAINTING		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL		JRN CONSTRUCTION CO, LLC		1024 BROADWAY ALBANY NY 12204	11/07/2023	11/07/2028
DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL	*****1147	JRN CONSTRUCTION, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	10/25/2022	10/25/2027

DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		JRN PAVING, LLC		531 THIRD STREET ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL		JULIUS AND GITA BEHREND		5 EMES LANE MONSEY NY 10952	11/20/2002	11/20/3002
DOL	DOL		KARIN MANGIN		796 PHELPS ROAD FRANKLIN LAKES NJ 07417	12/01/2020	12/01/2025
DOL	DOL		KATE E. CONNOR		7088 INTERSTATE ISLAND RD SYRACUSE NY 13209	03/31/2021	03/31/2026
DOL	DOL		KEAN INDUSTRIES, LLC		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL	*****2959	KELC DEVELOPMENT, INC		7088 INTERSTATE ISLAND RD SYRACUSE NY 13209	03/31/2021	03/31/2026
DOL	DOL		KEVIN FUNEZ URBINA A/K/A KEVIN FUNEZ		1009 LYNDALE AVE TRENTON NJ 08629	12/16/2024	12/16/2029
DOL	DOL		KIMBERLY F. BAKER		7901 GEE ROAD CANASTOTA NY 13032	08/17/2021	08/17/2026
DOL	DOL	*****8760	KJ&J CONSTRUCTION, LLC		1009 LYNDALE AVE TRENTON NJ 08629	12/16/2024	12/16/2029
DOL	DOL		KMA GROUP II, INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL	*****1833	KMA GROUP INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL		KMA INSULATION, INC.		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028
DOL	DOL		KRIN HEINEMANN		2345 ROUTE 52, SUITE 2N HOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	NYC		KULWANT S. DEOL		9-11 40TH AVENUE LONG ISLAND CITY NY 11101	09/26/2023	09/26/2028
DOL	DA	*****8816	LAKE CONSTRUCTION AND DEVELOPMENT CORPORATION		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	10/25/2022	10/25/2027
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	12/22/2022	12/22/2027
DOL	DOL		LEROY E. NELSON JR		531 THIRD ST ALBANY NY 12206	11/07/2023	11/07/2028
DOL	DOL	*****3716	LIGHTNIN ELECTRIC INC.		3418 NORTHERN BLVD SUITE 5-27LONG ISLAND CITY NY 11101	12/13/2024	12/13/2029
DOL	AG	*****3291	LINTECH ELECTRIC, INC.		3006 TILDEN AVE BROOKLYN NY 11226	02/16/2022	02/16/2027
DOL	DOL		LOUIS A. CALICCHIA		1223 PARK ST. PEEKSKILL NY 10566	05/17/2021	05/17/2026
DOL	DOL	*****2196	MAINSTREAM SPECIALTIES, INC.		11 OLD TOWN RD SELKIRK NY 12158	02/02/2021	02/02/2026
DOL	DA		MANUEL P TOBIO		150 KINGS STREET BROOKLYN NY 14444	08/19/1998	08/19/2998
DOL	DA		MANUEL TOBIO		150 KINGS STREET BROOKLYN NY 11231	08/19/1998	08/19/2998
DOL	DOL		MAQSOOD AHMAD		618 OCEAN PKWY BROOKLYN NY 11230	09/17/2020	09/17/2025
DOL	DOL	*****1320	MJC MASON CONTRACTING, INC.		42 FOWLER AVENUE CORTLAND MANOR NY 10567	10/25/2022	10/25/2027
DOL	DOL	*****1320	MJC MASON CONTRACTING, INC.		42 FOWLER AVENUE CORTLAND MANOR NY 10567	01/24/2023	01/24/2028
DOL	DOL		MOHAMMAD MIAN		8269 21ST ST BELLEROSE NY 11426	12/22/2022	12/22/2027
DOL	NYC		MUHAMMED A. HASHEM		524 MCDONALD AVENUE BROOKLYN NY 11218	09/17/2020	09/17/2025
DOL	NYC		NASEER CHAUDHRY		2349 BRAGG STREET BROOKLYN NY 11229	04/22/2025	04/22/2030
DOL	DOL	*****7790	NATIONAL BUILDING & RESTORATION CORP		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	DOL	*****1797	NATIONAL CONSTRUCTION SERVICES, INC		1010 TILDEN AVE UTICA NY 13501	07/24/2023	07/24/2028
DOL	NYC		NAVIT SINGH		402 JERICHO TURNPIKE NEW HYDE PARK NY 11040	08/10/2022	08/10/2027
DOL	DOL		NELCO CONTRACTING, LLC		1024 BROADWAY ALBANY NY 12204	11/07/2023	11/07/2028

NYSDOL Bureau of Public Work Debarment List 08/29/2025

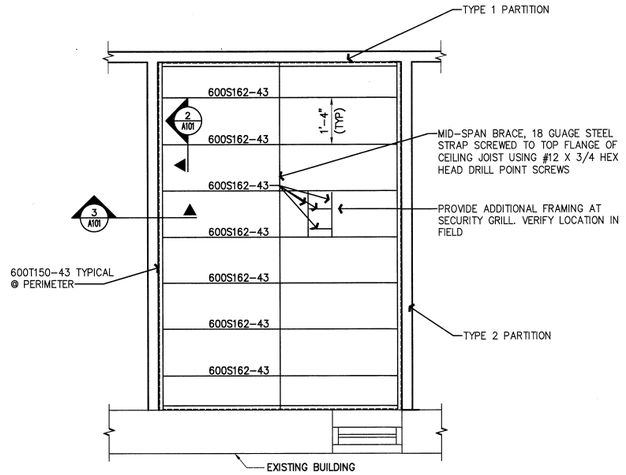
Article 8

DOL	DA		NICHOLAS BARNETT		33 DOLLARD DR BABYLON NY 11703	03/04/2025	03/04/2030
DOL	DA		NICHOLAS T. ANALITIS		505 MANHATTAN AVE WEST BABYLON NY 11704	10/05/2023	10/05/2028
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	03/01/2022	03/01/2027
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	11/15/2022	11/15/2027
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	09/29/2021	09/29/2026
DOL	DOL		NICHOLE E. FRASER A/K/A NICHOLE RACE		3469 STATE RT. 69 PERISH NY 13131	02/09/2022	02/09/2027
DOL	DOL	*****7429	NICOLAE I. BARBIR	BESTUCCO CONSTRUCTION, INC.	444 SCHANTZ ROAD ALLENTOWN PA 18104	09/17/2020	09/17/2025
DOL	DOL		NIKOLA NTONI		3418 NORTHERN BLVD SUITE 5-27LONG ISLAND CITY NY 11101	12/13/2024	12/13/2029
DOL	NYC	*****6971	NN CONSTRUCTION, INC.		2349 BRAGG STREET BROOKLYN NY 11229	04/22/2025	04/22/2030
DOL	NYC	*****5643	NYC LINE CONTRACTORS, INC.		402 JERICHO TURNPIKE NEW HYDE PARK NY 11040	08/10/2022	08/10/2027
DOL	DOL		PATRICK PENNACCHIO		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL		PATRICK PENNACCHIO		2345 RT. 52 SUITE 2NHOPEWELL JUNCTION NY 12533	12/18/2023	12/18/2028
DOL	DOL		PAULINE CHAHALES		935 S LAKE BLVD MAHOPAC NY 10541	03/02/2021	03/02/2026
DOL	DOL		PETER STEVENS		11 OLD TOWN ROAD SELKIRK NY 12158	02/02/2021	02/02/2026
DOL	DOL	*****4168	PHANTOM CONSTRUCTION CORP.		95-27 116TH STREET QUEENS NY 11419	07/12/2024	07/12/2029
DOL	DOL	*****4168	PHANTOM CONSTRUCTION CORP.		95-27 116TH STREET QUEENS NY 11419	05/28/2024	05/28/2029
DOL	DOL	*****4772	R.W. LOBDELL CONSTRUCTION LLC		635 WEST DRYDEN ROAD FREEVILLE NY 13068	01/31/2025	01/31/2030
DOL	NYC		RASHEL CONSTRUCTION CORP		524 MCDONALD AVENUE BROOKLYN NY 11218	09/17/2020	09/17/2025
DOL	DOL	*****2633	RAW POWER ELECTRIC CORP.		3 PARK CIRCLE MIDDLETOWN NY 10940	07/11/2022	07/11/2027
DOL	DA	*****7559	REGAL CONTRACTING INC.		24 WOODBINE AVE NORTHPORT NY 11768	10/01/2020	10/01/2025
DOL	DOL		ROBBYE BISSESAR		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	01/11/2003	01/11/3003
DOL	DOL		ROMEO WARREN		161 ROBYN RD MONROE NY 10950	07/11/2022	07/11/2027
DOL	DOL	*****7172	RZ & AL INC.		198 RIDGE AVENUE VALLEY STREAM NY 11581	06/06/2022	06/06/2027
DOL	DOL		SAL FRESINA MASONRY CONTRACTORS, INC.		1935 TEALL AVENUE SYRACUSE NY 13206	07/16/2021	07/16/2026
DOL	DOL		SAL MASONRY CONTRACTORS, INC.		(SEE COMMENTS) SYRACUSE NY 13202	07/16/2021	07/16/2026
DOL	DOL	*****9874	SALFREE ENTERPRISES INC		P.O BOX 14 2821 GARDNER RDPOMPEI NY 13138	07/16/2021	07/16/2026
DOL	DOL		SALVATORE A FRESINA A/K/A SAM FRESINA		107 FACTORY AVE P.O BOX 11070SYRACUSE NY 13218	07/16/2021	07/16/2026
DOL	DOL		SAM FRESINA		107 FACTORY AVE P.O BOX 11070SYRACUSE NY 13218	07/16/2021	07/16/2026
DOL	DA	*****0476	SAMCO ELECTRIC CORP.		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DA		SILVANO TRAVALJA		3735 9TH ST LONG ISLAND CITY NY 11101	01/05/2023	01/05/2028
DOL	DOL	*****0440	SOLAR GUYS INC.		8970 MIKE GARCIA DR MANASSAS VA 20109	07/16/2021	07/16/2026
DOL	NYC		SOMATIE RAMSUNAHAI		115-46 132ND ST SOUTH OZONE PARK NY 11420	09/17/2020	09/17/2025
DOL	NYC	*****3661	SPANIER BUILDING MAINTENANCE CORP		200 OAK DRIVE SYOSSET NY 11791	03/14/2022	03/14/2027
DOL	DOL		STANADOS KALOGELAS		485 RAFT AVENUE HOLBROOK NY 11741	10/19/2021	10/19/2026

NYSDOL Bureau of Public Work Debarment List 08/29/2025

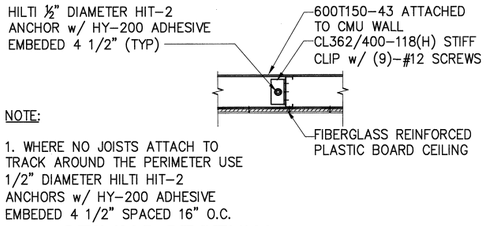
Article 8

DOL	DOL	*****3496	STAR INTERNATIONAL INC		89-51 SPRINGFIELD BLVD QUEENS VILLAGE NY 11427	08/11/2003	08/11/3003
DOL	DOL	*****9528	STEEL-IT, LLC.		17613 SANTE FE LINE ROAD WAYNESFIELD OH 45896	07/16/2021	07/16/2026
DOL	DOL	*****3800	SUBURBAN RESTORATION CO. INC.		5-10 BANTA PLACE FAIR LAWN PLACE NJ 07410	03/29/2021	03/29/2026
DOL	DOL	*****9150	SURGE INC.		8269 21ST STREET BELLEROSE NY 11426	12/22/2022	12/22/2027
DOL	DOL		SYED MUHAMMAD S. JAFRI A/K/A SHARRUKH JAFRI		4307 28TH AVE ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	DOL		SYED RAZA		198 RIDGE AVENUE NY 11581	06/06/2022	06/06/2027
DOL	DOL		TARLOK SINGH		95-27 116TH STREET QUEENS NY 11419	05/28/2024	05/28/2029
DOL	DOL		TARLOK SINGH		95-27 116TH STREET QUEENS NY 11419	07/12/2024	07/12/2029
DOL	DOL	*****9733	TERSAL CONSTRUCTION SERVICES INC		107 FACTORY AVE P.O BOX 11070SYRACUSE NY 13208	07/16/2021	07/16/2026
DOL	DOL		TERSAL CONTRACTORS, INC.		221 GARDNER RD P.O BOX 14POMPEI NY 13138	07/16/2021	07/16/2026
DOL	DOL		TERSAL DEVELOPMENT CORP.		1935 TEALL AVENUE SYRACUSE NY 13206	07/16/2021	07/16/2026
DOL	DOL	*****5766	THE COKER CORPORATION	COKER CORPORATIO N	2610 SOUTH SALINA ST SUITE 14SYRACUSE NY 13205	09/17/2020	09/17/2025
DOL	DOL	*****2426	THE MATRUKH GROUP, INC.		4307 28TH AVE PO BOX 9082ASTORIA NY 11103	10/11/2024	10/11/2029
DOL	DOL		THOMAS LOBDELL		635 WEST DRYDEN ROAD FREEVILLE NY 13068	01/31/2025	01/31/2030
DOL	DOL		TIMOTHY PERCY		29807 ANDREWS ROAD BLACK RIVER NY 13612	10/17/2023	10/17/2028
DOL	DA	*****1050	TRI STATE CONSTRUCTION OF NY CORP.		50-39 175TH PLACE FRESH MEADOWS NY 11365	03/28/2022	03/28/2027
DOL	DA	*****4106	TRIPLE H CONCRETE CORP		2375 RAYNOR STREET RONKONKOMA NY 11779	08/04/2021	08/04/2026
DOL	DOL	*****8210	UPSTATE CONCRETE & MASONRY CONTRACTING CO INC		449 WEST MOMBSHA ROAD MONROE NY 10950	06/06/2022	06/06/2027
DOL	DOL	*****6418	VALHALLA CONSTRUCTION, LLC.		796 PHLEPS ROAD FRANKLIN LAKES NJ 07417	12/01/2020	12/01/2025
DOL	NYC	*****2426	VICKRAM MANGRU	VICK CONSTRUCTI ON	21 DAREWOOD LANE VALLEY STREAM NY 11581	09/17/2020	09/17/2025
DOL	NYC		VICKRAM MANGRU		21 DAREWOOD LANE VALLEY STREAM NY 11581	09/17/2020	09/17/2025
DOL	DOL		VINCENT CORRAO		PO BOX 393 NANUET NY 10954	09/17/2024	09/17/2029
DOL	DOL	*****8266	WILLIAM CHRIS MCCLENDON	MCCLENDON ASPHALT PAVING	1646 FALLS STREET NIAGARA FALLS NY 14303	05/01/2023	05/01/2028
DOL	DOL		WILLIAM CHRIS MCCLENDON		1646 FALLS STREET NIAGARA FALLS NY 14303	05/01/2023	05/01/2028
DOL	DOL		WILLIAM G. PROERFRIEDT		85 SPRUCEWOOD ROAD WEST BABYLON NY 11704	01/19/2021	01/19/2026
DOL	DOL	*****5924	WILLIAM G. PROPHY, LLC	WGP CONTRACTIN G, INC.	54 PENTAQUIT AVE BAYSHORE NY 11706	01/19/2021	01/19/2026
DOL	DOL		WILLIAM SCRIVENS		4192 SIR ANDREW CIRCLE DOYELSTOWN PA 18902	07/18/2024	07/18/2029
DOL	DOL		XENOFON EFTHIMIADIS		29-10 38TH AVENUE LONG ISLAND CITY NY 11101	10/11/2023	10/11/2028



1 TYPICAL BEDROOM CEILING FRAMING PLAN

NOT TO SCALE

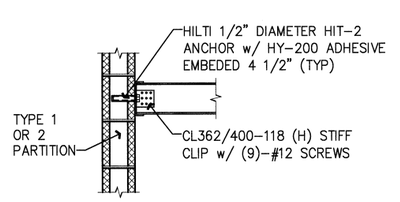


NOTE:

1. WHERE NO JOISTS ATTACH TO TRACK AROUND THE PERIMETER USE 1/2" DIAMETER HILTI HIT-2 ANCHORS w/ HY-200 ADHESIVE EMBEDED 4 1/2" SPACED 16" O.C.

2 CEILING SECTION

NOT TO SCALE



3 CEILING DETAIL

SCALE: 1"=1'-0"

A- DRAWING ABBREVIATIONS

APPROX.- APPROXIMATE
CMU-CONCRETE MASONRY UNITS
CONC- CONCRETE
CONT.- CONTINUOUS
COORD- COORDINATE
DIA. - DIAMETER
EA.- EACH
ECT-EPOXY COMPOSITION FLOORING
EX-EXISTING
EXIST.- EXISTING
FF- FACTORY FINISH
FRPB- FIBER REINFORCED PLASTIC BOARDS
GWB- GYPSUM WALL BOARD
MCJ- MASONRY CONTROL JOINT
MET- METAL
N.T.S.- NOT TO SCALE
OC OR O.C.- ON CENTER
PL-PLASTER
REQ'D.- REQUIRED
TYP- TYPICAL
VERT- VERTICAL
VT-VINYL TILE FLOORING

A- DRAWING LEGEND

REMOVAL

GROUT

STEEL

CONCRETE MASONRY UNITS

1 / A-101 — DETAIL NUMBER / SHEET WHERE DETAIL IS LOCATED

(1) — PARTITION TYPE-SEE 2, 3 & 4/A-105

A- GENERAL NOTES

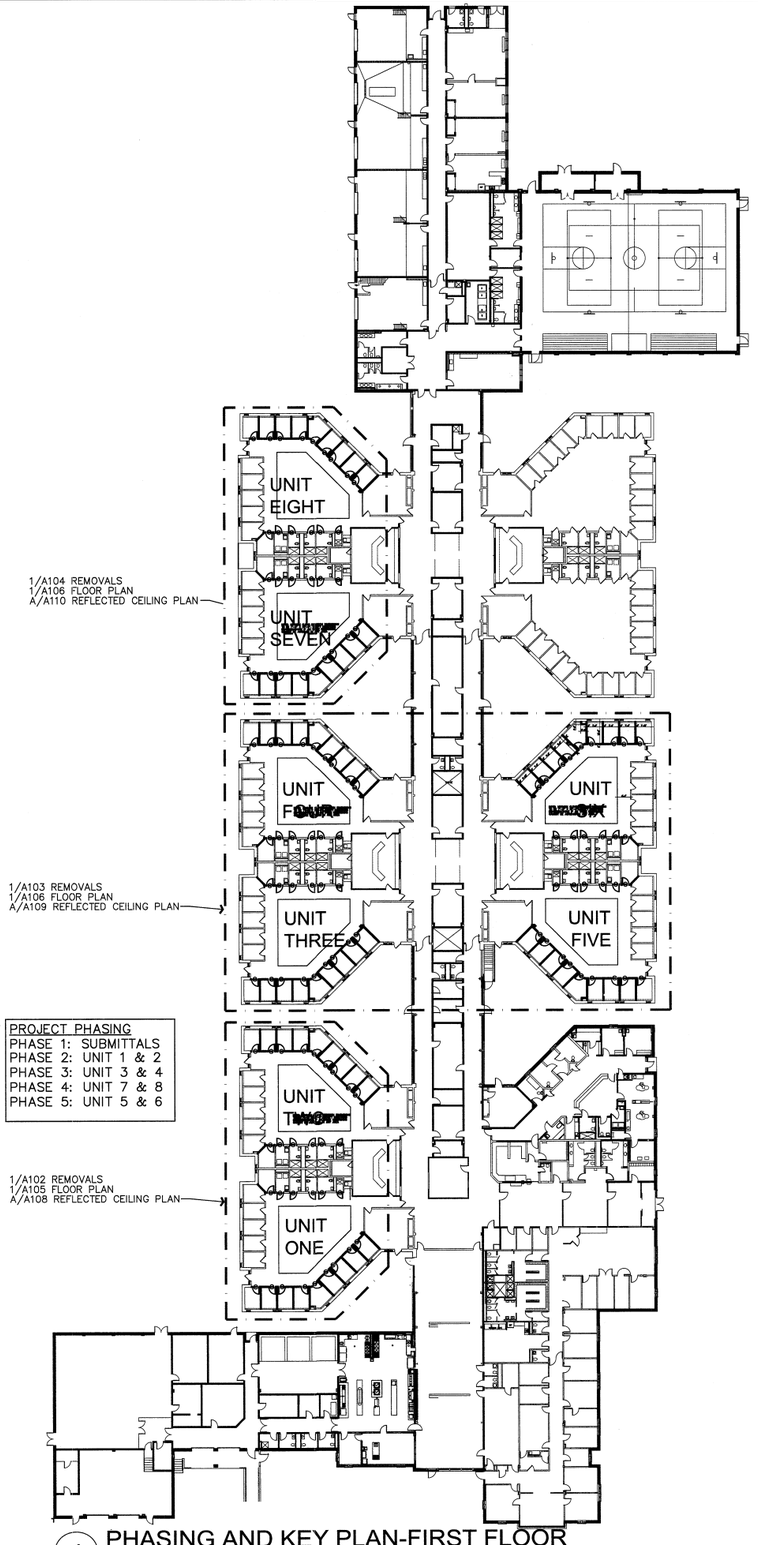
1) ALL DIMENSIONS ARE PLUS OR MINUS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND NOTIFY THE DIRECTORS REPRESENTATIVE ANY DESCREPANCIES IMMEDIATLY.

2) PROVIDE TYPE 6 SEALANT AT ALL LOCATIONS THAT DIS-SIMMILAR MATERIALS ABUTT OR JOIN UNLESS NOTED OTHERWISE.

3) COORDINATE ALL BUILT IN WORK OF OTHER CONTRACTS.

4) ALL WORK ASSOCIATED WITH THE VESDA (SMOKE DETECTION) SYSTEM IS BY OTHERS

5) MODIFY REMOVED RADIATOR COVERS TO ACCOMMODATE WIDER PARTITIONS-REINSTALL AFTER PARTITION INSTALLATION- PREP AND PAINT IAL-3. PROVIDE TYPE 6A SEALANT AT PERIMETER.



4 PHASING AND KEY PLAN-FIRST FLOOR

SCALE: 1/32"=1'-0"

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

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CHA
III Winners Circle, PO Box 5269 - Albany, NY 12205-0269

JOSEPH C. ROBLEE ARCHITECT LLC
53 BURGOYNE AVENUE
FORT EDWARD, NEW YORK

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

REGISTERED ARCHITECT JOSEPH C. ROBLEE No.018432-1 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE WALLS AND DOORS UNITS 1-8

LOCATION:
FINGER LAKES RESIDENTIAL CENTER
250 AUBURN ROAD
LANSING, NY 14882

CLIENT:
NYS OFFICE OF FAMILY AND CHILDRENS SERVICES

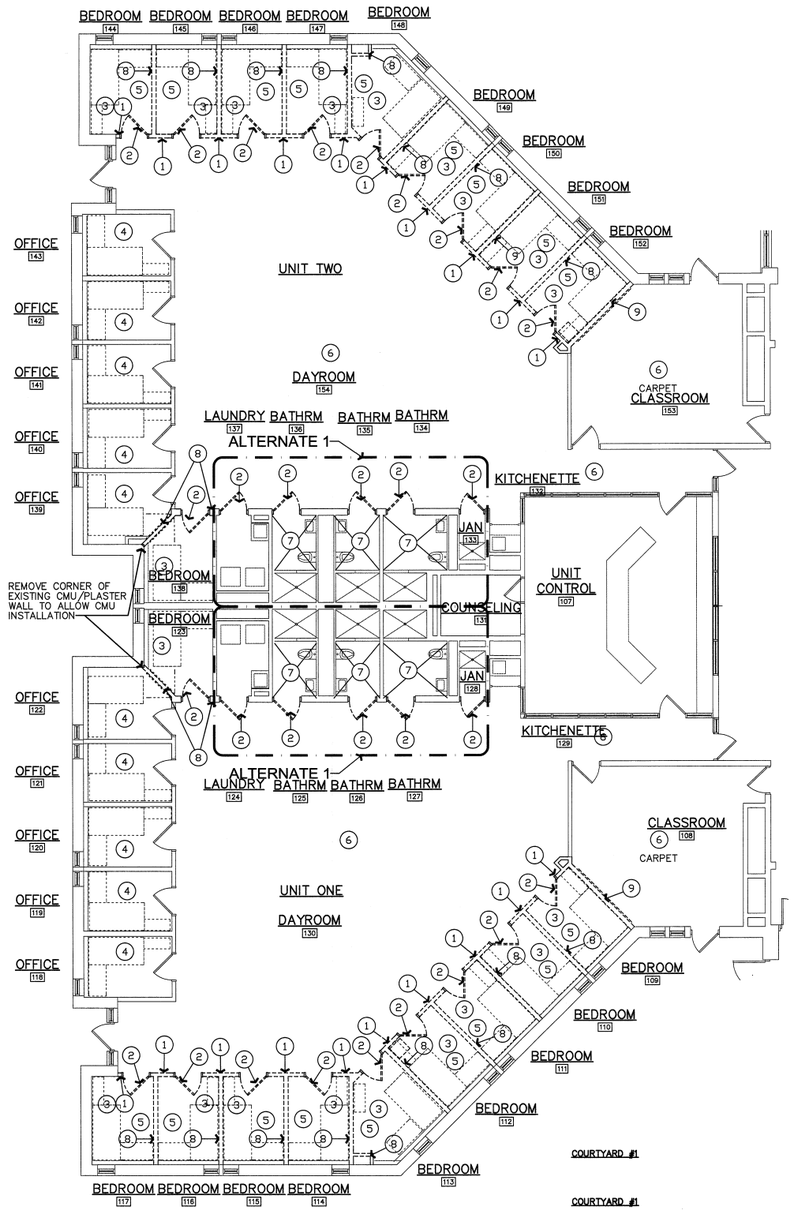
MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS

PROJECT NUMBER:	45101 - C
DESIGNED BY:	JR
DRAWN BY:	JR
FIELD CHECK:	-
APPROVED:	FI

SHEET TITLE:
KEY PLAN AND LEGEND

DRAWING NUMBER:
A-101

SHEET 2 OF 22



REMOVALS NOTES:

1. REMOVE EXISTING METAL STUD, GYPSUM BOARD, SECURITY MESH PARTITION FROM FLOOR TO UNDERSIDE OF DECK. REMOVE TRANSFER AIR GRILL ABOVE DOOR. SUPPORT DAYROOM SOFFIT FROM STRUCTURE ABOVE. SEE DETAIL 2/A-105. PATCH SOFFIT TO MATCH EXISTING WHEN WALL TYPE 1 CONSTRUCTION IS COMPLETE.
2. REMOVE EXISTING DOOR, FRAME, AND HARDWARE. TURN OVER 30% OF REMOVED DOORS AND HARDWARE AS SELECTED BY THE DIRECTORS REPRESENTATIVE TO THE OWNER.
3. REMOVE EXISTING CARPET FLOOR, VINYL BASE, CEILING AND BUTCHER BLOCK FURNITURE. DISCONNECT AND REMOVE EXISTING 8"X8" DIFFUSER AND PREPARE DUCTWORK FOR FUTURE CONNECTION. DISCONNECT AND REMOVE EXISTING SPRINKLER. PREPARE EXISTING SPRINKLER OUTLET FOR REUSE. VESDA SYSTEM TO BE REMOVED BY OTHERS. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL OTHER SURFACES TO RECEIVE WORK SHOWN.
4. REMOVE EXISTING BUTCHER BLOCK FURNITURE (SECURED TO EXISTING CONSTRUCTION), PATCH EXISTING CONSTRUCTION TO REMAIN TO MATCH EXISTING.
5. REMOVE EXISTING RADIATOR COVER AND RETAIN FOR FUTURE USE.
6. REMOVE EXISTING TILE & CARPET FLOOR, AND VINYL BASE. PATCH EXISTING CONSTRUCTION TO REMAIN TO MATCH EXISTING
7. REMOVE EXISTING CEILING, DISCONNECT AND REMOVE EXISTING 8?X8? DIFFUSER AND PREPARE DUCTWORK FOR FUTURE CONNECTION.. DISCONNECT AND REMOVE EXISTING SPRINKLER. PREPARE EXISTING SPRINKLER OUTLET FOR REUSE VESDA SYSTEM TO BE REMOVED BY OTHERS. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL OTHER SURFACES TO RECEIVE WORK SHOWN.
8. REMOVE EXISTING METAL STUD PARTITION. GYPSUM BOARD AND SECURITY MESH FROM FLOOR TO UNDERSIDE OF DECK. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL SURFACES TO RECEIVE WORK SHOWN.
9. REMOVE EXISTING METAL STUD PARTITION. GYPSUM BOARD AND SECURITY MESH FROM FLOOR TO UNDERSIDE OF DECK. REMOVE EXISTING CHALKBOARD AND RETAIN FOR FUTURE USE. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL SURFACES TO RECEIVE WORK SHOWN.
10. REMOVE EXISTING CMU PARTITION. GYPSUM BOARD AND SECURITY MESH FROM FLOOR TO UNDERSIDE OF DECK. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL SURFACES TO RECEIVE WORK SHOWN.

1 REMOVALS PLAN- UNITS 1 & 2

SCALE: ⅛"=1'-0"

36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. **Office of General Services**

DESIGN & CONSTRUCTION

CONSULTANT

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REGISTERED ARCHITECT JOSEPH C. ROBLEE No.018432-1 STATE OF NEW YORK

CONTRACT: CONSTRUCTION

TITLE: REHABILITATE WALLS AND DOORS UNITS 1-8

LOCATION: FINGER LAKES RESIDENTIAL CENTER
250 AUBURN ROAD
LANSING, NY 14882

CLIENT: NYS OFFICE OF FAMILY AND CHILDRENS SERVICES

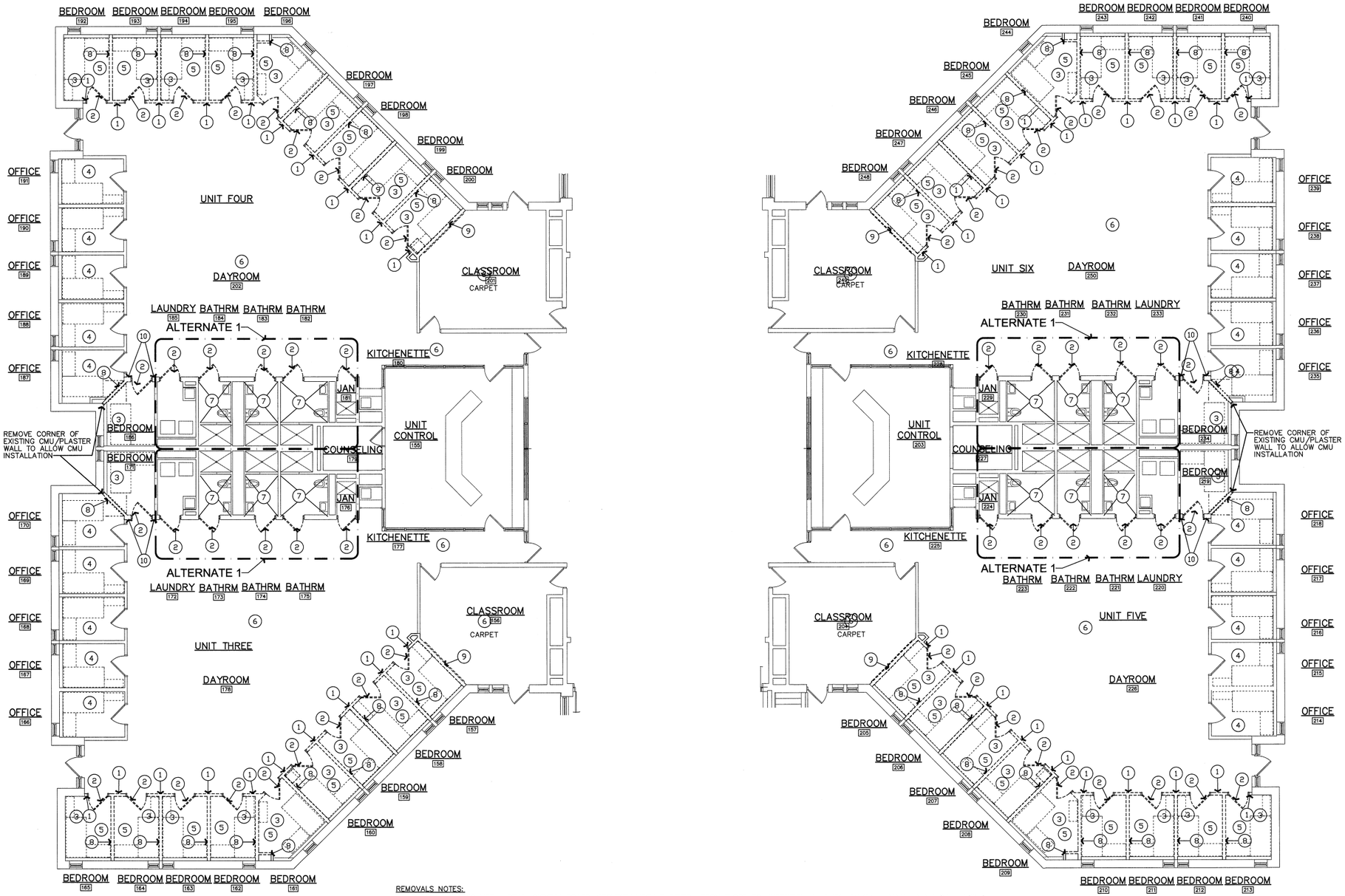
MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS

PROJECT NUMBER:	45101 – C
DESIGNED BY:	JR
DRAWN BY:	JR
FIELD CHECK:	–
APPROVED:	FI

SHEET TITLE: REMOVALS PLAN– UNITS 1 & 2

DRAWING NUMBER: A–102

SHEET 3 OF 22



REMOVALS NOTES:

1. REMOVE EXISTING METAL STUD, GYPSUM BOARD, SECURITY MESH PARTITION FROM FLOOR TO UNDERSIDE OF DECK. REMOVE TRANSFER AIR GRILL ABOVE DOOR. SUPPORT DAYROOM SOFFIT FROM STRUCTURE ABOVE. SEE DETAIL 2/A-105. PATCH SOFFIT TO MATCH EXISTING WHEN WALL TYPE 1 CONSTRUCTION IS COMPLETE.
2. REMOVE EXISTING DOOR, FRAME, AND HARDWARE. TURN OVER 30% OF REMOVED DOORS AND HARDWARE AS SELECTED BY THE DIRECTORS REPRESENTATIVE TO THE OWNER.
3. REMOVE EXISTING CARPET FLOOR, VINYL BASE, CEILING AND BUTCHER BLOCK FURNITURE. DISCONNECT AND REMOVE EXISTING 8"X8" DIFFUSER AND PREPARE DUCTWORK FOR FUTURE CONNECTION. DISCONNECT AND REMOVE EXISTING SPRINKLER. PREPARE EXISTING SPRINKLER OUTLET FOR REUSE. VESDA SYSTEM TO BE REMOVED BY OTHERS. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL OTHER SURFACES TO RECEIVE WORK SHOWN.
4. REMOVE EXISTING BUTCHER BLOCK FURNITURE (SECURED TO EXISTING CONSTRUCTION), PATCH EXISTING CONSTRUCTION TO REMAIN TO MATCH EXISTING.
5. REMOVE EXISTING RADIATOR COVER AND RETAIN FOR FUTURE USE.
6. REMOVE EXISTING TILE & CARPET FLOOR, AND VINYL BASE. PATCH EXISTING CONSTRUCTION TO REMAIN TO MATCH EXISTING
7. REMOVE EXISTING CEILING, DISCONNECT AND REMOVE EXISTING 8?X8? DIFFUSER AND PREPARE DUCTWORK FOR FUTURE CONNECTION.. DISCONNECT AND REMOVE EXISTING SPRINKLER. PREPARE EXISTING SPRINKLER OUTLET FOR REUSE VESDA SYSTEM TO BE REMOVED BY OTHERS. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL OTHER SURFACES TO RECEIVE WORK SHOWN.
8. REMOVE EXISTING METAL STUD PARTITION. GYPSUM BOARD AND SECURITY MESH FROM FLOOR TO UNDERSIDE OF DECK. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL SURFACES TO RECEIVE WORK SHOWN.
9. REMOVE EXISTING METAL STUD PARTITION. GYPSUM BOARD AND SECURITY MESH FROM FLOOR TO UNDERSIDE OF DECK. REMOVE EXISTING CHALKBOARD AND RETAIN FOR FUTURE USE. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL SURFACES TO RECEIVE WORK SHOWN.
10. REMOVE EXISTING CMU PARTITION. GYPSUM BOARD AND SECURITY MESH FROM FLOOR TO UNDERSIDE OF DECK. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL SURFACES TO RECEIVE WORK SHOWN.

1 REMOVALS PLANS-UNITS 3, 4, 5, & 6

SCALE: 1/8"=1'-0"

36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

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III Winners Circle, PO Box 5269 - Albany, NY 12205-0269

JOSEPH C. ROBLEE ARCHITECT LLC
53 BURGOYNE AVENUE
FORT EDWARD, NEW YORK

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REGISTERED ARCHITECT JOSEPH C. ROBLEE No. 018432 STATE OF NEW YORK

CONTRACT: CONSTRUCTION

TITLE: REHABILITATE WALLS AND DOORS UNITS 1-8

LOCATION: FINGER LAKES RESIDENTIAL CENTER 250 AUBURN ROAD LANSING, NY 14882

CLIENT: NYS OFFICE OF FAMILY AND CHILDRENS SERVICES

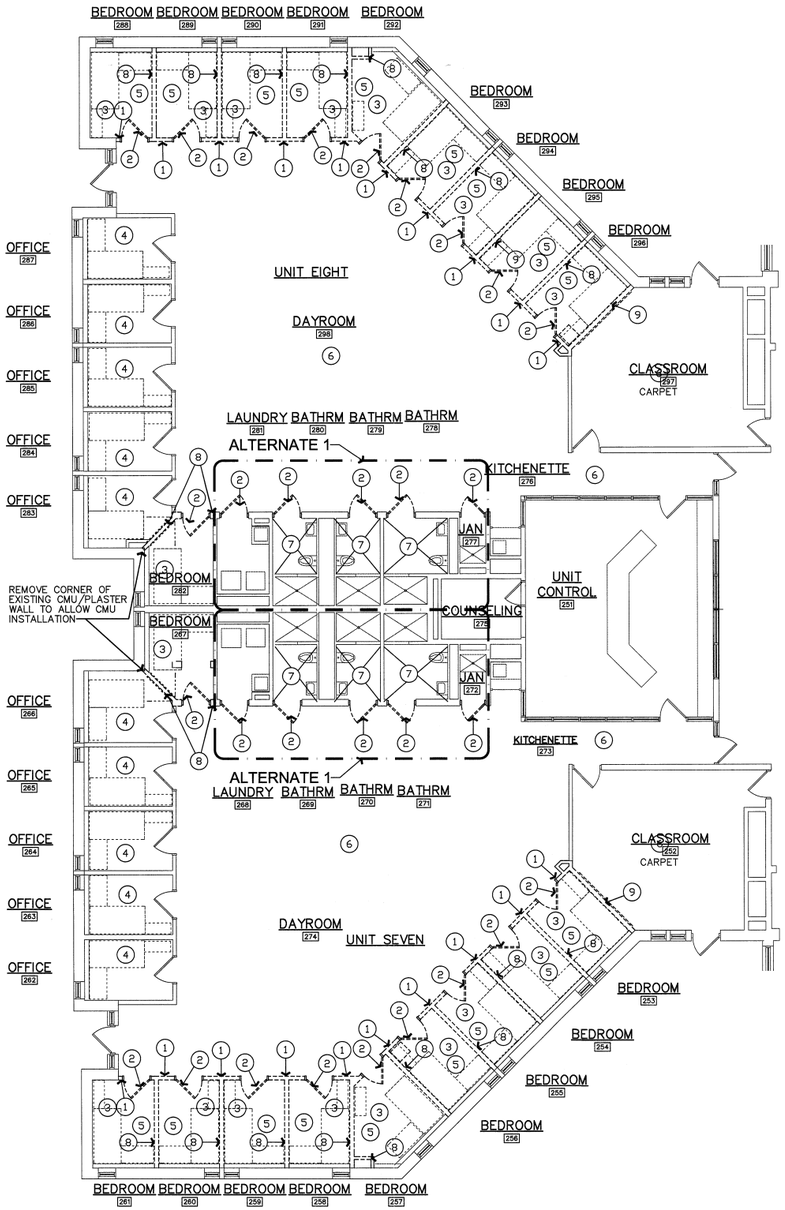
MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS

PROJECT NUMBER:	45101 - C
DESIGNED BY:	JR
DRAWN BY:	JR
FIELD CHECK:	-
APPROVED:	FI

SHEET TITLE: REMOVALS PLAN-UNITS 3, 4, 5, & 6

DRAWING NUMBER: A-103

SHEET 4 OF 22



REMOVALS NOTES:

1. REMOVE EXISTING METAL STUD, GYPSUM BOARD, SECURITY MESH PARTITION FROM FLOOR TO UNDERSIDE OF DECK. REMOVE TRANSFER AIR GRILL ABOVE DOOR. SUPPORT DAYROOM SOFFIT FROM STRUCTURE ABOVE. SEE DETAIL 2/A–105. PATCH SOFFIT TO MATCH EXISTING WHEN WALL TYPE 1 CONSTRUCTION IS COMPLETE.
2. REMOVE EXISTING DOOR, FRAME, AND HARDWARE. TURN OVER 30% OF REMOVED DOORS AND HARDWARE AS SELECTED BY THE DIRECTORS REPRESENTATIVE TO THE OWNER.
3. REMOVE EXISTING CARPET FLOOR, VINYL BASE, CEILING AND BUTCHER BLOCK FURNITURE. DISCONNECT AND REMOVE EXISTING 8"X8" DIFFUSER AND PREPARE DUCTWORK FOR FUTURE CONNECTION. DISCONNECT AND REMOVE EXISTING SPRINKLER. PREPARE EXISTING SPRINKLER OUTLET FOR REUSE. VESDA SYSTEM TO BE REMOVED BY OTHERS. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL OTHER SURFACES TO RECEIVE WORK SHOWN.
4. REMOVE EXISTING BUTCHER BLOCK FURNITURE (SECURED TO EXISTING CONSTRUCTION), PATCH EXISTING CONSTRUCTION TO REMAIN TO MATCH EXISTING.
5. REMOVE EXISTING RADIATOR COVER AND RETAIN FOR FUTURE USE.
6. REMOVE EXISTING TILE & CARPET FLOOR, AND VINYL BASE. PATCH EXISTING CONSTRUCTION TO REMAIN TO MATCH EXISTING
7. REMOVE EXISTING CEILING, DISCONNECT AND REMOVE EXISTING 8?X8? DIFFUSER AND PREPARE DUCTWORK FOR FUTURE CONNECTION.. DISCONNECT AND REMOVE EXISTING SPRINKLER. PREPARE EXISTING SPRINKLER OUTLET FOR REUSE VESDA SYSTEM TO BE REMOVED BY OTHERS. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL OTHER SURFACES TO RECEIVE WORK SHOWN.
8. REMOVE EXISTING METAL STUD PARTITION. GYPSUM BOARD AND SECURITY MESH FROM FLOOR TO UNDERSIDE OF DECK. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL SURFACES TO RECEIVE WORK SHOWN.
9. REMOVE EXISTING METAL STUD PARTITION. GYPSUM BOARD AND SECURITY MESH FROM FLOOR TO UNDERSIDE OF DECK. REMOVE EXISTING CHALKBOARD AND RETAIN FOR FUTURE USE. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL SURFACES TO RECEIVE WORK SHOWN.
10. REMOVE EXISTING CMU PARTITION. GYPSUM BOARD AND SECURITY MESH FROM FLOOR TO UNDERSIDE OF DECK. PATCH REMAINING CONSTRUCTION TO REMAIN TO MATCH EXISTING. PREPARE ALL SURFACES TO RECEIVE WORK SHOWN.

1 REMOVALS PLANS-UNITS 7 & 8

SCALE: ⅛"=1'–0"

36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

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REGISTERED ARCHITECT JOSEPH C. ROBLEE No. 018432-1 STATE OF NEW YORK

CONTRACT: CONSTRUCTION

TITLE: REHABILITATE WALLS AND DOORS UNITS 1–8

LOCATION: FINGER LAKES RESIDENTIAL CENTER 250 AUBURN ROAD LANSING, NY 14882

CLIENT: NYS OFFICE OF FAMILY AND CHILDRENS SERVICES

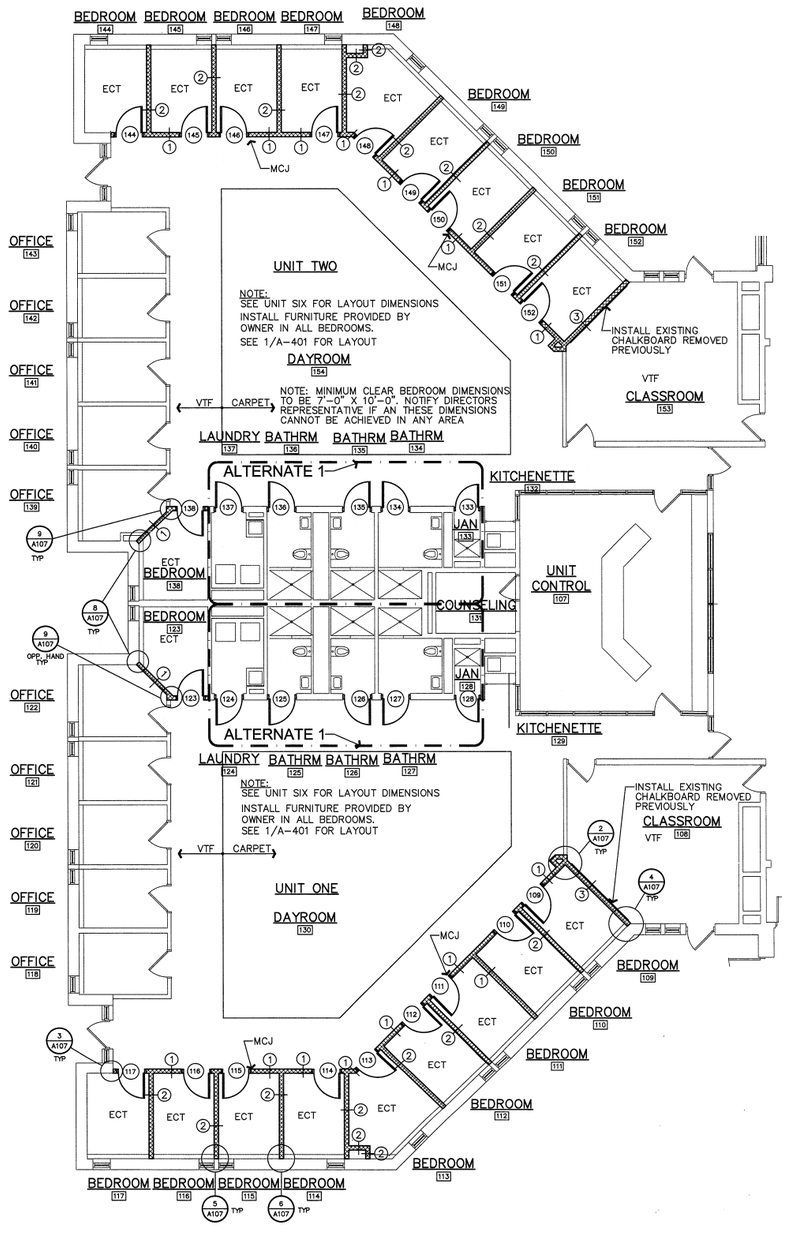
MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS

PROJECT NUMBER:	45101 – C
DESIGNED BY:	JR
DRAWN BY:	JR
FIELD CHECK:	–
APPROVED:	FI

SHEET TITLE: REMOVALS PLAN–UNITS 7 & 8

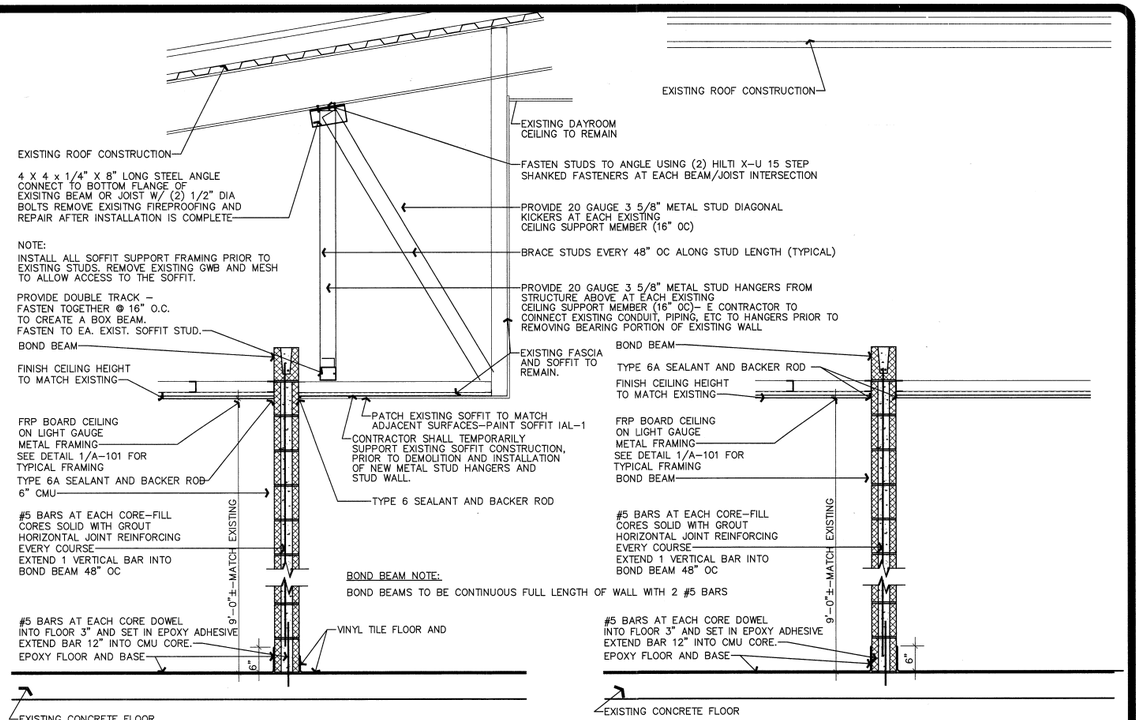
DRAWING NUMBER: A–104

SHEET 5 OF 22



4 FLOOR PLAN - UNITS 1 & 2

SCALE: ⅛" = 1'-0"



1 PARTITION TYPE 1

SCALE: ¾"=1'-0"

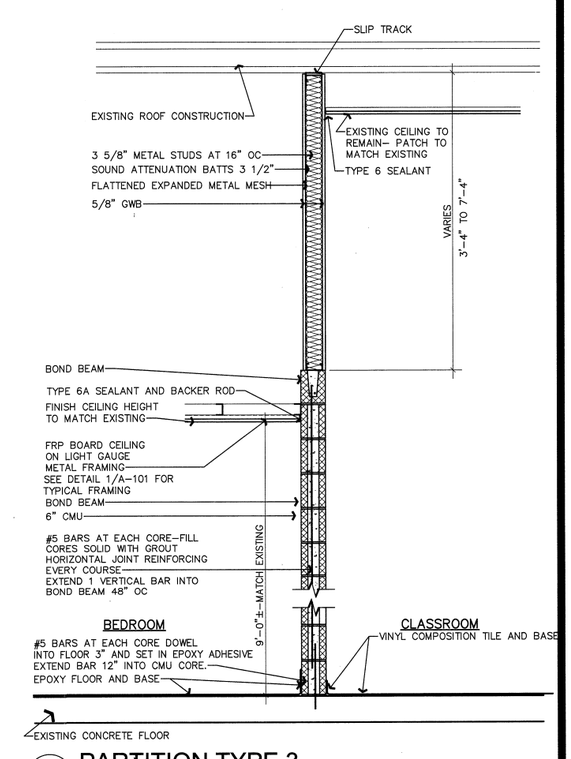
2 PARTITION TYPE 2

SCALE: ¾"=1'-0"

NOTE:
PROTECT ALL EXISITNG CONSTRUCTION TO REMAIN.
PATCH TO MATCH EXISITNG IF DAMAGED DURING CONSTRUCTION

A- GENERAL NOTES

1) ALL DIMENSIONS ARE PLUS OR MINUS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND NOTIFY THE DIRECTORS REPRESENTATIVE ANY DESCREPANCIES IMMEDIATLY.
2) PROVIDE TYPE 6 SEALANT AT ALL LOCATIONS THAT DIS-SIMMILAR MATERIALS ABUTT OR JOIN UNLESS NOTED OTHERWISE.
3) COORDINATE ALL BUILT IN WORK OF OTHER CONTRACTS.
4) ALL WORK ASSOCIATED WITH THE VESDA (SMOKE DETECTION) SYSTEM IS BY OTHERS
5) MODIFY REMOVED RADIATOR COVERS TO ACCOMMODATE WIDER PARTITIONS-REINSTALL AFTER PARTITION INSTALLATION- PREP AND PAINT IAL-3. PROVIDE TYPE 6A SEALANT AT PERIMETER.



3 PARTITION TYPE 3

SCALE: ¾"=1'-0"

36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. **Office of General Services**

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REGISTERED ARCHITECT JOSEPH C. ROBLEE No. 018432-1 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE WALLS AND DOORS
UNITS 1-8

LOCATION:
FINGER LAKES RESIDENTIAL CENTER
250 AUBURN ROAD
LANSING, NY 14882

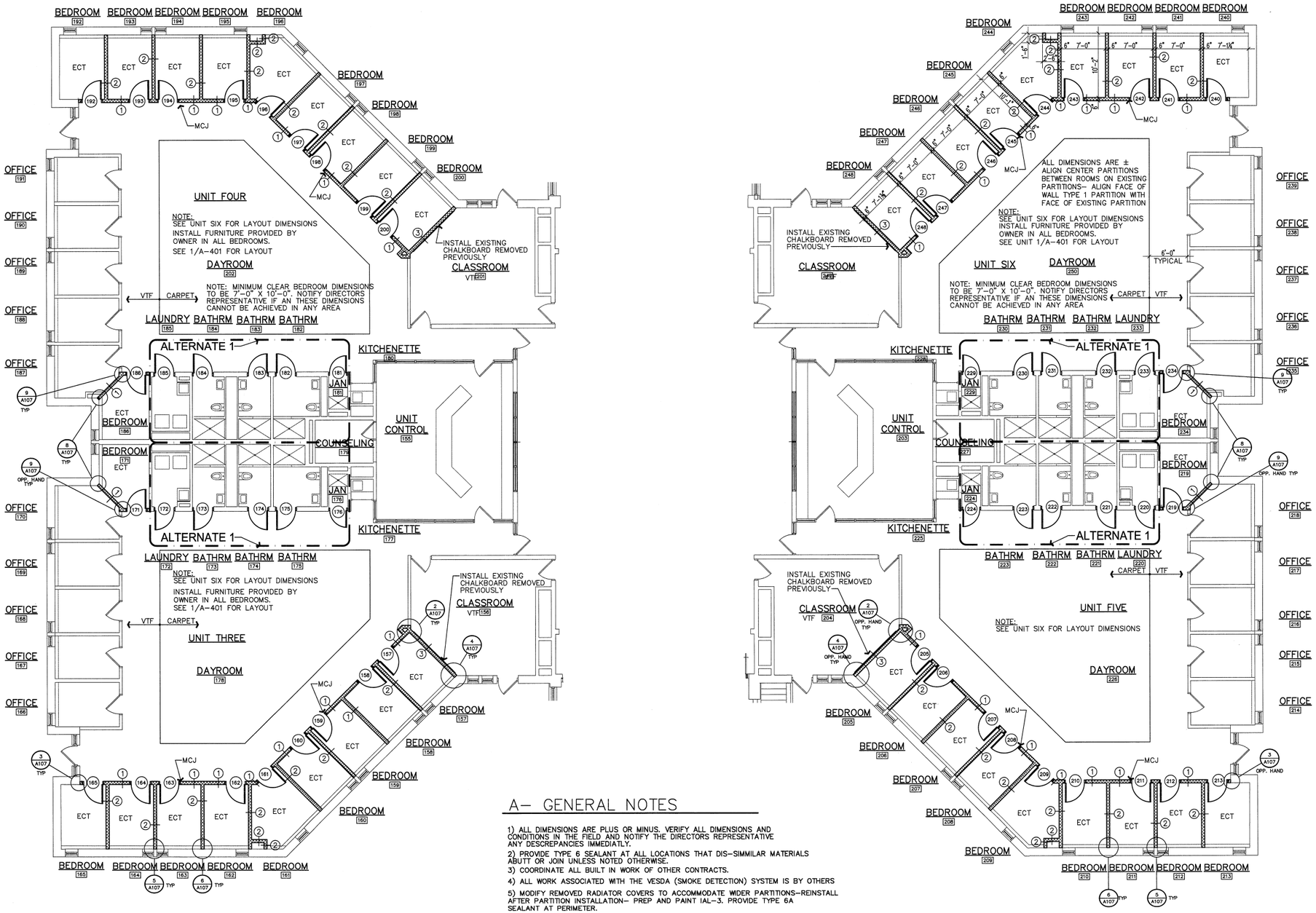
CLIENT:
NYS OFFICE OF FAMILY
AND CHILDRENS SERVICES

MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS
PROJECT NUMBER:	45101 - C	
DESIGNED BY:	JR	
DRAWN BY:	JR	
FIELD CHECK:	-	
APPROVED:	FI	

SHEET TITLE:
FLOOR PLAN-UNITS
1 & 2

DRAWING NUMBER:
A-105

SHEET 6 OF 22



A- GENERAL NOTES

1) ALL DIMENSIONS ARE PLUS OR MINUS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND NOTIFY THE DIRECTORS REPRESENTATIVE ANY DESCREPANCIES IMMEDIATLY.

2) PROVIDE TYPE 6 SEALANT AT ALL LOCATIONS THAT DIS-SIMMILAR MATERIALS ABUTT OR JOIN UNLESS NOTED OTHERWISE.

3) COORDINATE ALL BUILT IN WORK OF OTHER CONTRACTS.

4) ALL WORK ASSOCIATED WITH THE VESDA (SMOKE DETECTION) SYSTEM IS BY OTHERS

5) MODIFY REMOVED RADIATOR COVERS TO ACCOMMODATE WIDER PARTITIONS-REINSTALL AFTER PARTITION INSTALLATION- PREP AND PAINT IAL-3. PROVIDE TYPE 6A SEALANT AT PERIMETER.

1 FLOOR PLAN - UNITS 3, 4, 5, & 6

SCALE: ⅛" = 1'-0"

36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

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REGISTERED ARCHITECT JOSEPH C. ROBLEE No.018432 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE WALLS AND DOORS
UNITS 1-8

LOCATION:
FINGER LAKES RESIDENTIAL CENTER
250 AUBURN ROAD
LANSING, NY 14882

CLIENT:
NYS OFFICE OF FAMILY
AND CHILDRENS SERVICES

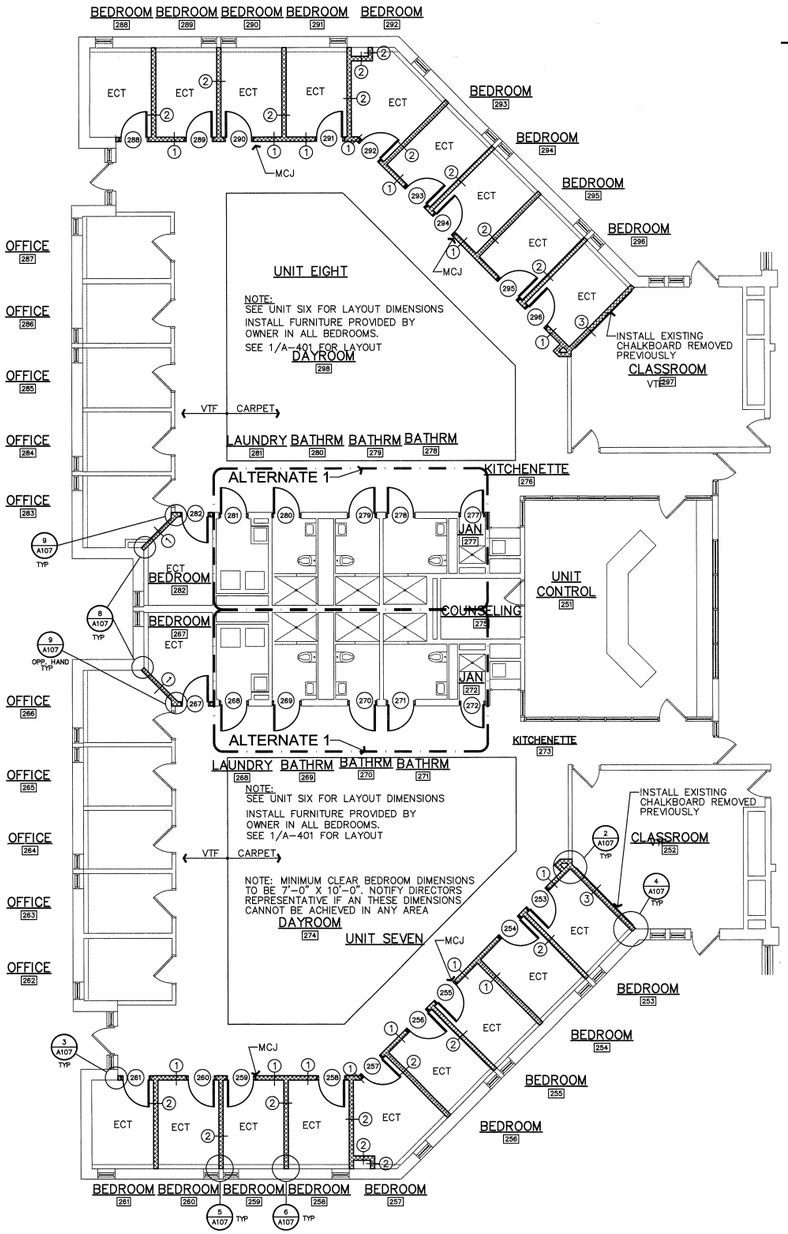
MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS

PROJECT NUMBER:	45101 - C
DESIGNED BY:	JR
DRAWN BY:	JR
FIELD CHECK:	-
APPROVED:	FI

SHEET TITLE:
FLOOR PLAN -
UNITS 3, 4, 5, & 6

DRAWING NUMBER:
A-106

SHEET X OF 22



1 FLOOR PLAN - UNITS 7 & 8

SCALE: ⅛" = 1'-0"

A– GENERAL NOTES

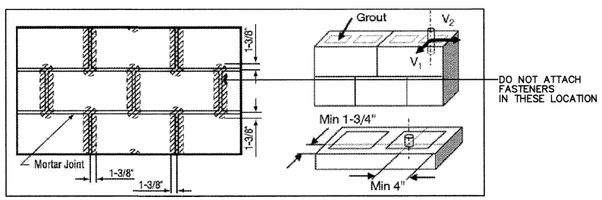
1) ALL DIMENSIONS ARE PLUS OR MINUS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND NOTIFY THE DIRECTORS REPRESENTATIVE ANY DESCREPANCIES IMMEDIATLY.

2) PROVIDE TYPE 6 SEALANT AT ALL LOCATIONS THAT DIS–SIMMILAR MATERIALS ABUTT OR JOIN UNLESS NOTED OTHERWISE.

3) COORDINATE ALL BUILT IN WORK OF OTHER CONTRACTS.

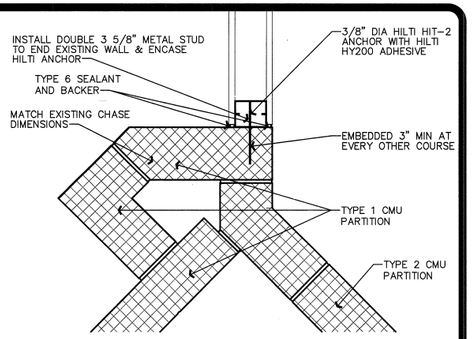
4) ALL WORK ASSOCIATED WITH THE VESDA (SMOKE DETECTION) SYSTEM IS BY OTHERS

5) MODIFY REMOVED RADIATOR COVERS TO ACCOMMODATE WIDER PARTITIONS–REINSTALL AFTER PARTITION INSTALLATION– PREP AND PAINT IAL–3. PROVIDE TYPE 6A SEALANT AT PERIMETER.



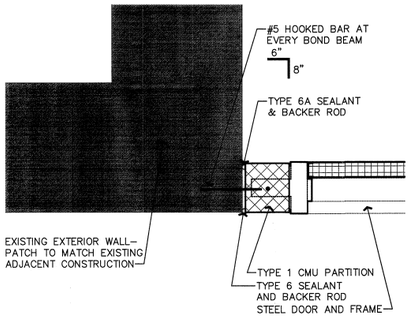
7 EXISTING WALL ANCHORAGE DETAIL

SCALE: NOT TO SCALE



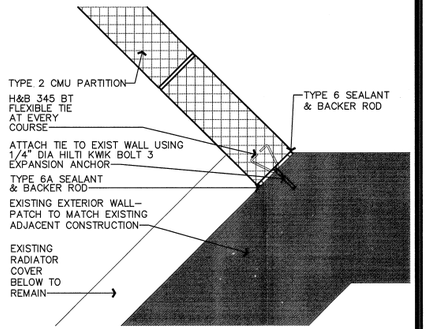
2 PARTITION DETAIL

SCALE: 1½"=1'-0"



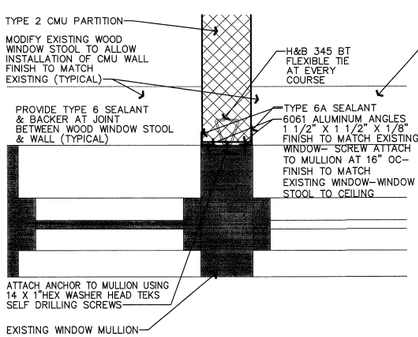
3 PARTITION DETAIL

SCALE: 1½"=1'-0"



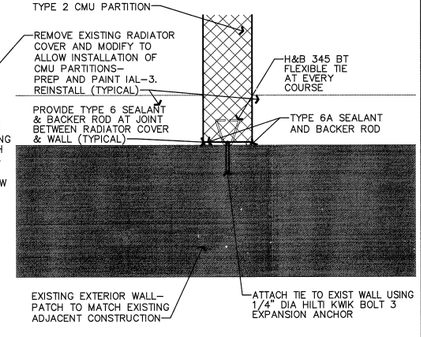
4 PARTITION DETAIL

SCALE: 1½"=1'-0"



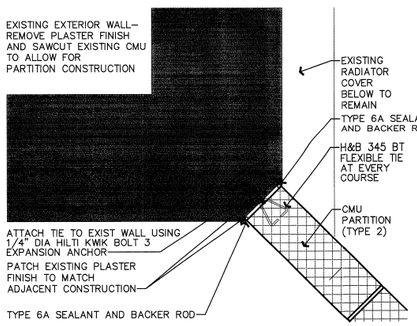
5 TYPICAL PARTITION DETAIL

SCALE: 1½"=1'-0"



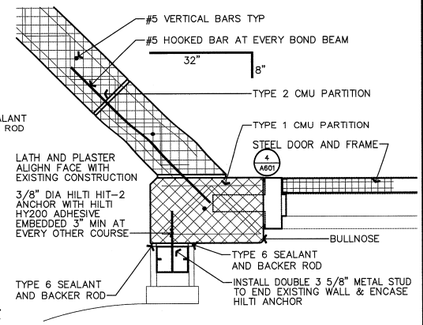
6 TYPICAL PARTITION DETAIL

SCALE: 1½"=1'-0"



8 PARTITION DETAIL

SCALE: 1½"=1'-0"



9 PARTITION DETAIL

SCALE: 1½"=1'-0"

36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

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REGISTERED ARCHITECT JOSEPH C. ROBLEE No.018432-1 STATE OF NEW YORK

CONTRACT: CONSTRUCTION

TITLE: REHABILITATE WALLS AND DOORS UNITS 1–8

LOCATION: FINGER LAKES RESIDENTIAL CENTER 250 AUBURN ROAD LANSING, NY 14882

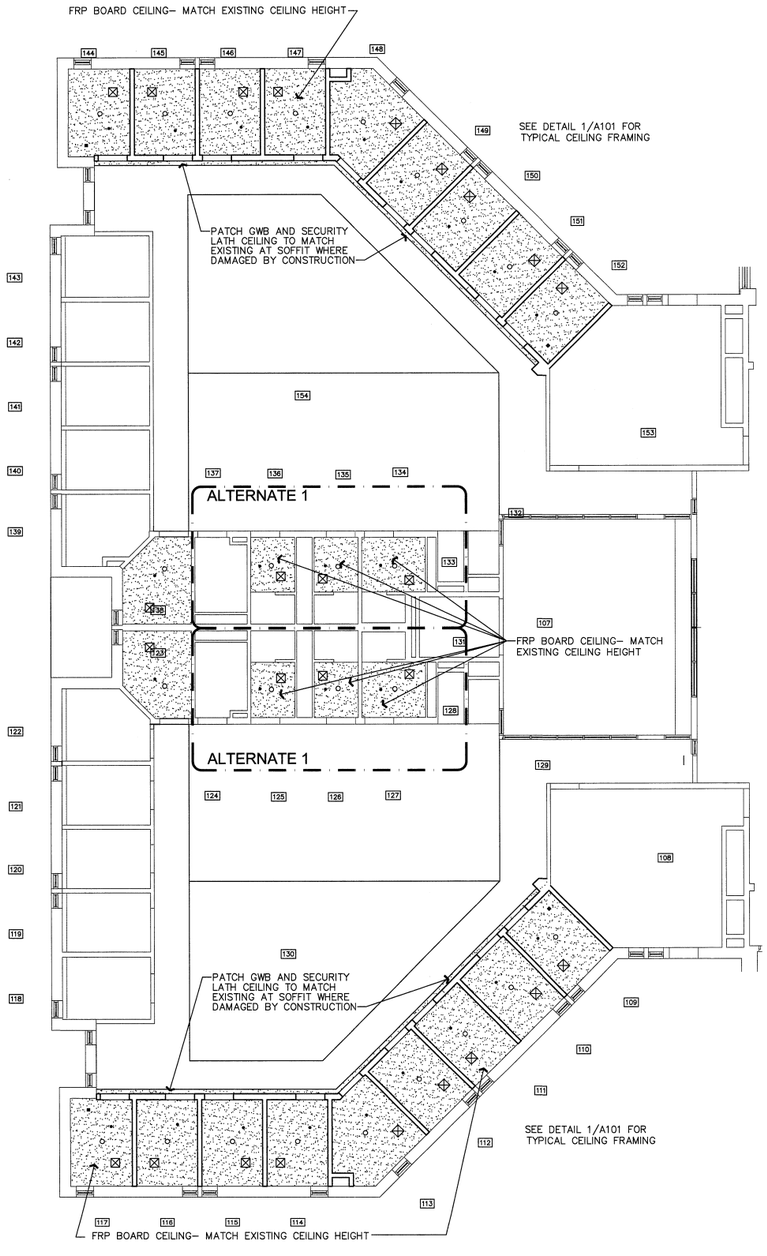
CLIENT: NYS OFFICE OF FAMILY AND CHILDRENS SERVICES

	01/13/2016	BID DOCUMENTS
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	45101 – C	
DESIGNED BY:	JR	
DRAWN BY:	JR	
FIELD CHECK:	–	
APPROVED:	FI	

SHEET TITLE: FLOOR PLAN – UNITS 7 & 8

DRAWING NUMBER: A–107

SHEET 8 OF 22



REFLECTED CEILING PLAN LEGEND

FRP BOARD CEILING

- ○ SPRINKLER HEAD–PROVIDE INSTITUTIONAL TYPE SPRINKLER. CONNECT INSTITUTIONAL TYPE SPRINKLER TO EXISTING SPRINKLER OUTLET.
- • EXISTING "VESDA" (SMOKE DETECTION SYSTEM) HEAD TO BE REMOVED AND RE–INSTALLED BY OTHERS
- ⊠ SECURITY DIFFUSER–PROVIDE 8"X8" SECURITY DIFFUSER AND ALL NECESSARY DUCT FITTINGS, TRANSITIONS AND ACCESSORIES FOR CONNECTION TO EXISTING DUCTWORK.
- ■ TEMPERATURE SENSOR (NIC) BY E CONTRACT

1 REFLECTED CEILING PLAN - UNITS 1 & 2

SCALE: ⅛" = 1'–0"

36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

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REGISTERED ARCHITECT JOSEPH C. ROBLEE No.018432–1 STATE OF NEW YORK

CONTRACT: CONSTRUCTION

TITLE: REHABILITATE WALLS AND DOORS UNITS 1–8

LOCATION: FINGER LAKES RESIDENTIAL CENTER 250 AUBURN ROAD LANSING, NY 14882

CLIENT: NYS OFFICE OF FAMILY AND CHILDRENS SERVICES

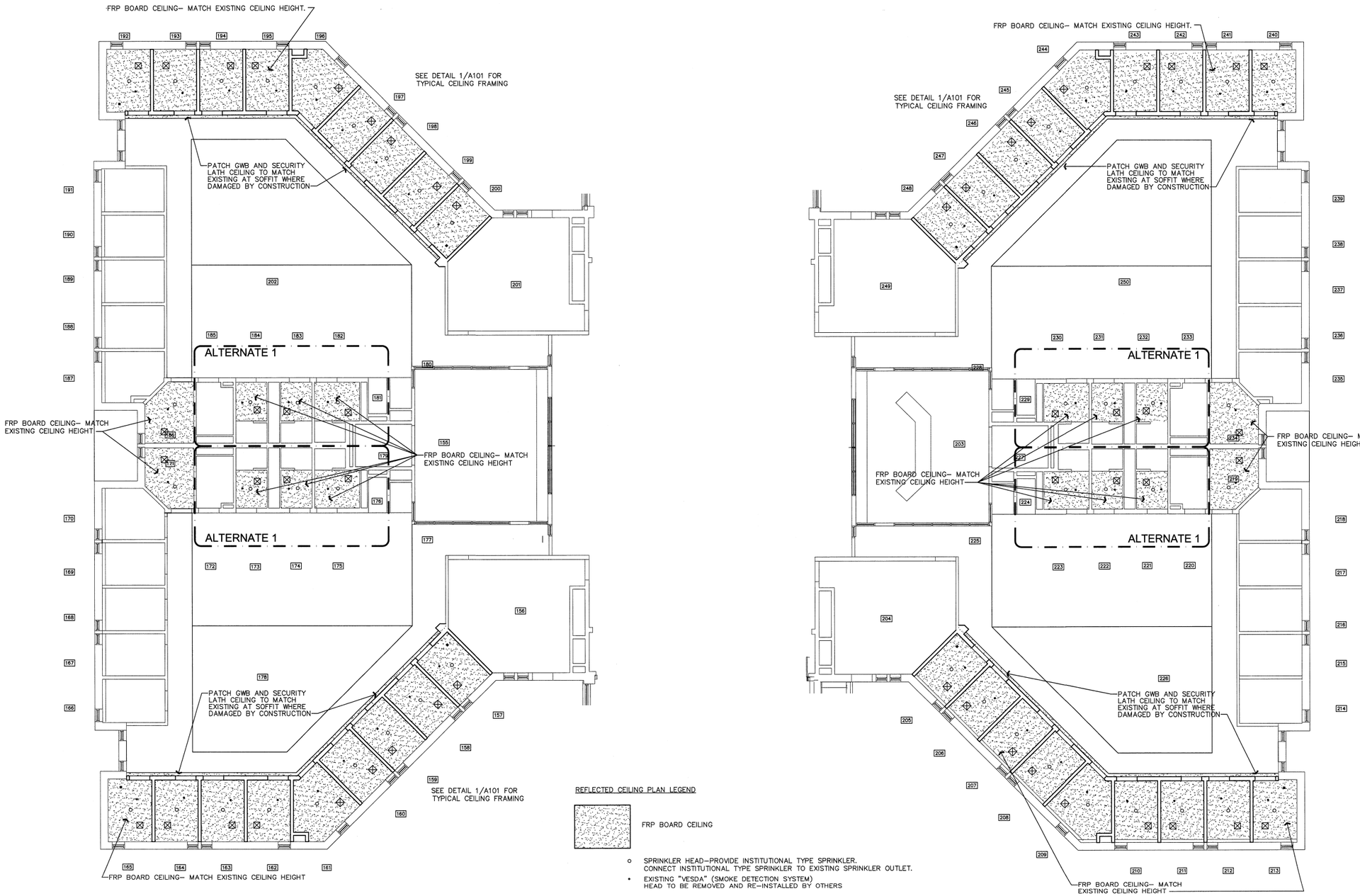
MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS

PROJECT NUMBER:	45101 – C
DESIGNED BY:	JR
DRAWN BY:	JR
FIELD CHECK:	–
APPROVED:	FI

SHEET TITLE: REFLECTED CEILING PLAN UNITS 1 & 2

DRAWING NUMBER: A–108

SHEET 9 OF 22



REFLECTED CEILING PLAN LEGEND

FRP BOARD CEILING

- SPRINKLER HEAD–PROVIDE INSTITUTIONAL TYPE SPRINKLER. CONNECT INSTITUTIONAL TYPE SPRINKLER TO EXISTING SPRINKLER OUTLET.
- EXISTING "VESDA" (SMOKE DETECTION SYSTEM) HEAD TO BE REMOVED AND RE–INSTALLED BY OTHERS
- SECURITY DIFFUSER–PROVIDE 8"X8" SECURITY DIFFUSER AND ALL NECESSARY DUCT FITTINGS, TRANSITIONS AND ACCESSORIES FOR CONNECTION TO EXISTING DUCTWORK.
- TEMPERATURE SENSOR (NIC) BY E CONTRACT

1 REFLECTED CEILING PLAN - UNITS 3, 4, 5, & 6

SCALE: ⅛" = 1'–0"

36x24 PLOT SHEET

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III Winners Circle, PO Box 5269 - Albany, NY 12205-0269

JOSEPH C. ROBLEE ARCHITECT LLC
53 BURGOYNE AVENUE
FORT EDWARD, NEW YORK

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REGISTERED ARCHITECT JOSEPH C. ROBLEE No.018432-1 STATE OF NEW YORK

CONTRACT: CONSTRUCTION

TITLE: REHABILITATE WALLS AND DOORS UNITS 1–8

LOCATION: FINGER LAKES RESIDENTIAL CENTER 250 AUBURN ROAD LANSING, NY 14882

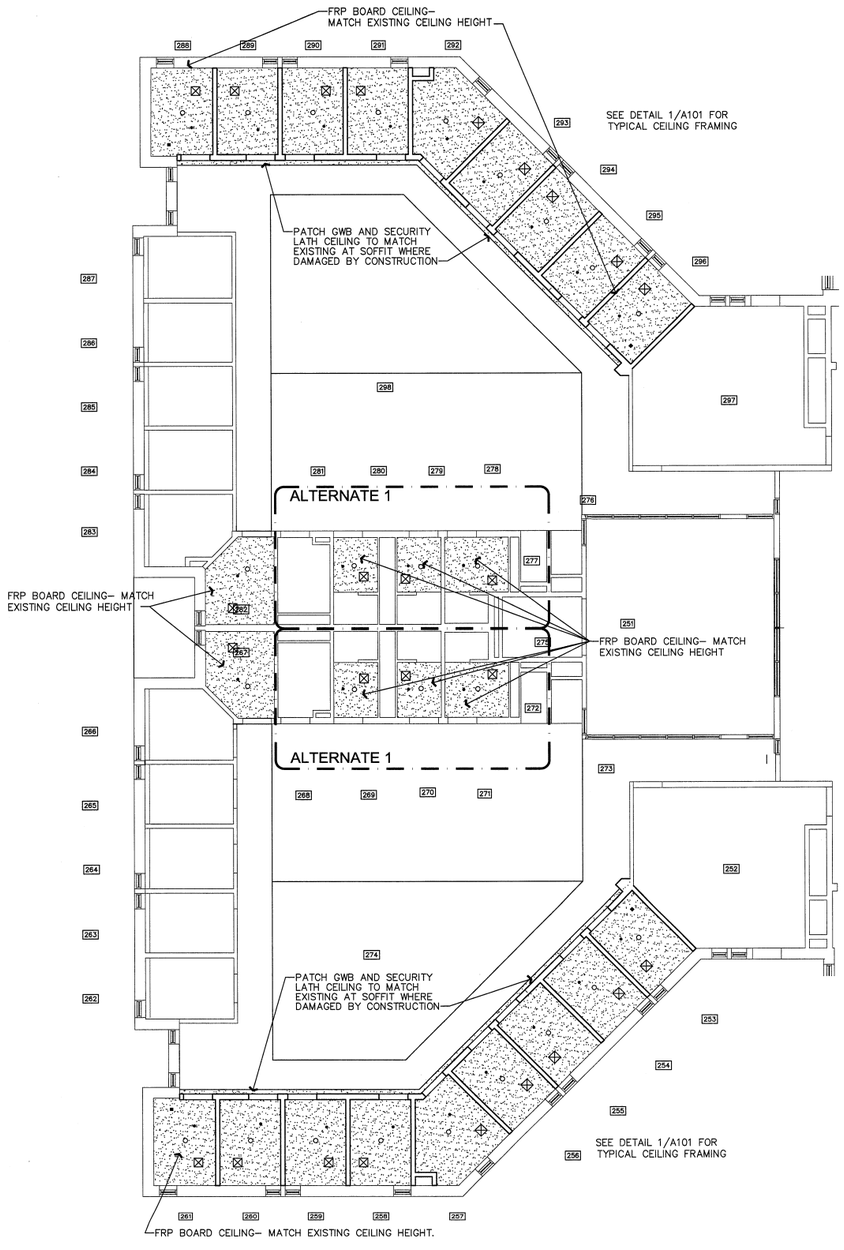
CLIENT: NYS OFFICE OF FAMILY AND CHILDRENS SERVICES

MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS
PROJECT NUMBER:	45101 – C	
DESIGNED BY:	JR	
DRAWN BY:	JR	
FIELD CHECK:	–	
APPROVED:	FI	

SHEET TITLE: REFLECTED CEILING PLAN UNITS 3, 4, 5, & 6

DRAWING NUMBER: A–109

SHEET 10 OF 22



REFLECTED CEILING PLAN LEGEND

- FRP BOARD CEILING
- ○ SPRINKLER HEAD–PROVIDE INSTITUTIONAL TYPE SPRINKLER. CONNECT INSTITUTIONAL TYPE SPRINKLER TO EXISTING SPRINKLER OUTLET.
- • EXISTING "VESDA" (SMOKE DETECTION SYSTEM) HEAD TO BE REMOVED AND RE–INSTALLED BY OTHERS
- ⊠ SECURITY DIFFUSER–PROVIDE 8"X8" SECURITY DIFFUSER AND ALL NECESSARY DUCT FITTINGS, TRANSITIONS AND ACCESSORIES FOR CONNECTION TO EXISTING DUCTWORK.
- ■ TEMPERATURE SENSOR (NIC) BY E CONTRACT

1 REFLECTED CEILING PLAN - UNITS 7 & 8

SCALE: ⅛" = 1'–0"

36x24 PLOT SHEET

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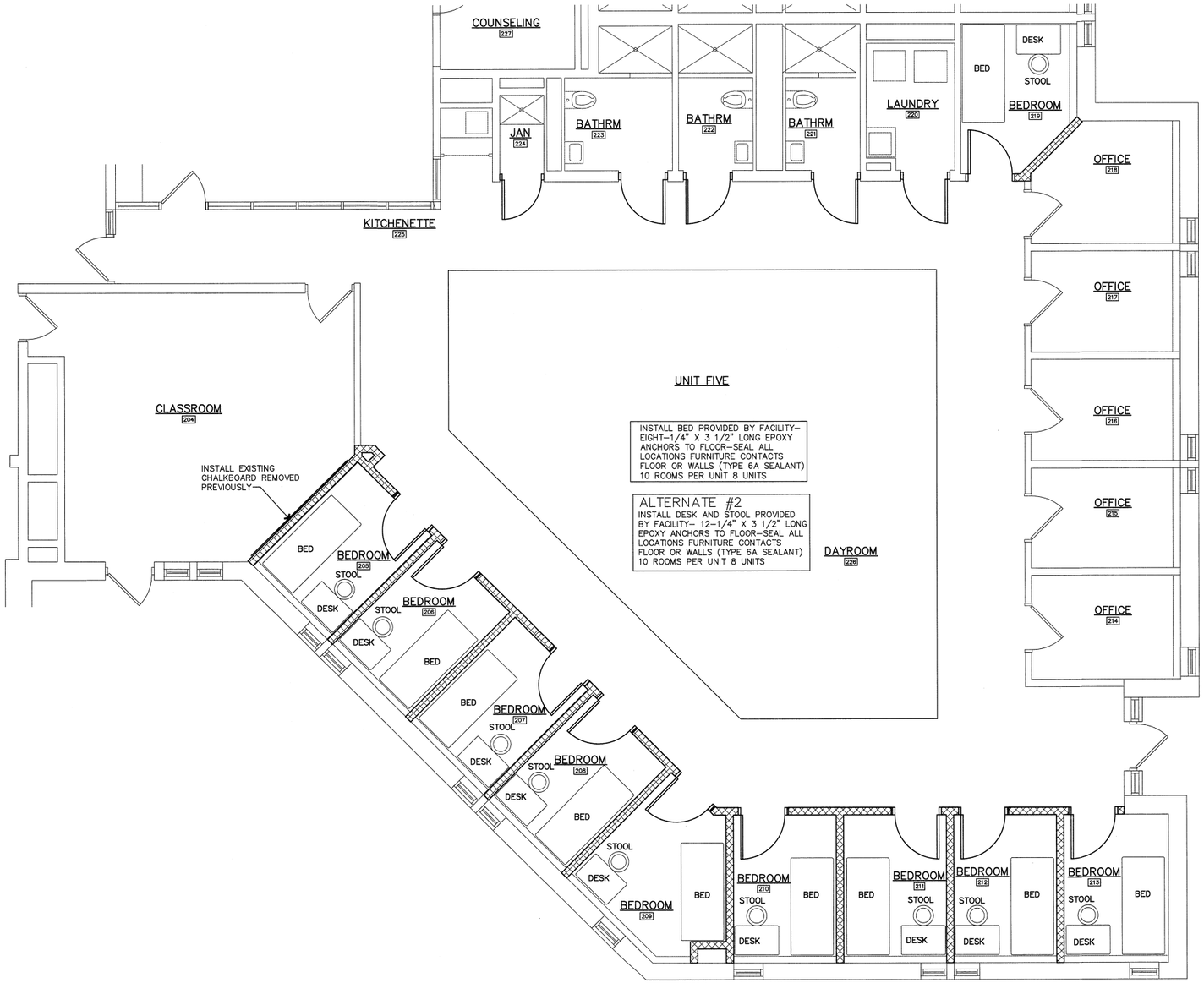
MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS

PROJECT NUMBER:	45101 – C
DESIGNED BY:	JR
DRAWN BY:	JR
FIELD CHECK:	–
APPROVED:	FI

SHEET TITLE: REFLECTED CEILING PLAN UNITS 7 & 8

DRAWING NUMBER: A–110

SHEET 11 OF 22



1 TYPICAL FURNITURE PLAN

SCALE: ¼" = 1'-0"

36x24 PLOT SHEET

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CONTRACT: CONSTRUCTION

TITLE: REHABILITATE WALLS AND DOORS UNITS 1-8

LOCATION: FINGER LAKES RESIDENTIAL CENTER 250 AUBURN ROAD LANSING, NY 14882

CLIENT: NYS OFFICE OF FAMILY AND CHILDRENS SERVICES

MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS
PROJECT NUMBER:	45101 - C	
DESIGNED BY:	JR	
DRAWN BY:	JR	
FIELD CHECK:	-	
APPROVED:	FI	

SHEET TITLE: TYPICAL FURNITURE PLAN

DRAWING NUMBER: A-401

SHEET 12 OF 22

DOOR SCHEDULE

DOOR NUMBER	DOORS							FRAME						REMARKS
		SIZE							4/A601	3/A601				
	TO	FROM	WIDTH	HEIGHT	THICK.	TYPE	MAT.	MAT.	JAMB DETAIL	HEAD DETAIL	FIRE RATING	GLASS TYPE	HARDWARE GROUP	
109	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
110	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
111	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
112	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
113	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
114	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
115	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
116	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
117	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
123	BEDROOM	DAYROOM	2'-10"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
138	BEDROOM	DAYROOM	2'-10"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
144	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
145	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
146	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
147	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
148	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
149	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
150	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
151	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
152	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
157	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
158	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
159	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
160	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
161	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
162	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
163	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
164	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
165	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
171	BEDROOM	DAYROOM	2'-10"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
186	BEDROOM	DAYROOM	2'-10"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
193	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
194	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
195	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
196	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
197	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
198	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
199	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
200	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
205	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
206	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
207	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
208	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601		S4	1 & A	
209	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601		S4	1 & A	
210	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601		S4	1 & A	
211	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601		S4	1 & A	
212	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601		S4	1 & A	
213	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601		S4	1 & A	
219	BEDROOM	DAYROOM	2'-10"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
234	BEDROOM	DAYROOM	2'-10"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
240	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
241	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
242	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
243	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
244	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
245	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
246	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
247	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
248	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
253	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
254	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
255	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
256	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
257	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
258	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
259	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
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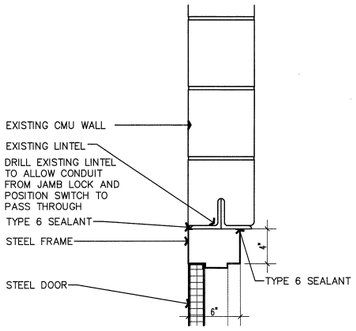
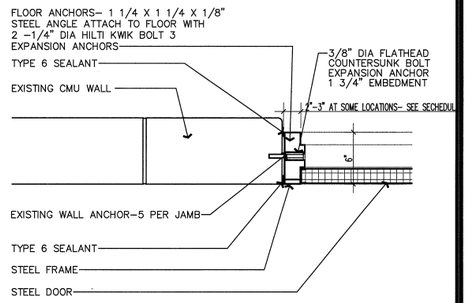
267	BEDROOM	DAYROOM	2'-10"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
282	BEDROOM	DAYROOM	2'-10"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
288	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
289	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
290	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
291	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
292	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
293	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
294	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
295	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	
296	BEDROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FV	STEEL	STEEL	4/A601	3/A601	–	S4	1 & A	

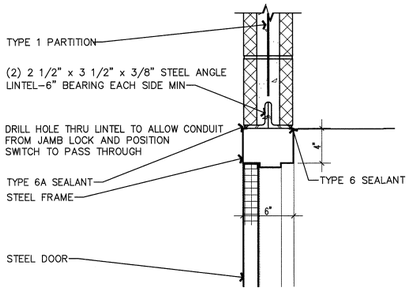
NOTE: UNDERCUT ALL DOORS 3/4"



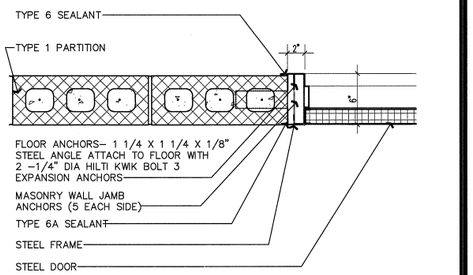
1 DOOR HEAD DETAIL
SCALE: 1½"=1'-0"



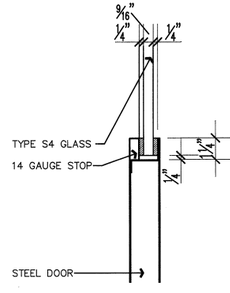
2 DOOR JAMB DETAIL
SCALE: 1½"=1'-0"



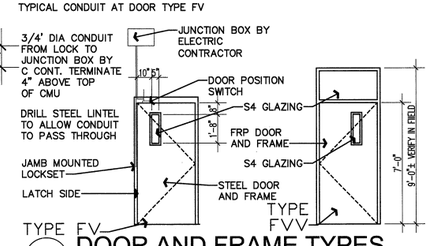
3 DOOR HEAD DETAIL
SCALE: 1½"=1'-0"



4 DOOR JAMB DETAIL
SCALE: 1½"=1'-0"



5 DOOR GLAZING DETAILS
SCALE: 3"=1'-0"



6 DOOR AND FRAME TYPES
SCALE: ¼"=1'-0"

36x24 PLOT SHEET

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REGISTERED ARCHITECT JOSEPH C. ROBLEE No.018432-1 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE WALLS AND DOORS UNITS 1–8

LOCATION:
FINGER LAKES RESIDENTIAL CENTER
250 AUBURN ROAD
LANSING, NY 14882

CLIENT:
NYS OFFICE OF FAMILY AND CHILDRENS SERVICES

MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS

PROJECT NUMBER:	45101 – C
DESIGNED BY:	JR
DRAWN BY:	JR
FIELD CHECK:	–
APPROVED:	FI

SHEET TITLE:
DOOR SCHEDULE AND DETAILS

DRAWING NUMBER:
A–601

SHEET 13 OF 22

DOOR SCHEDULE-ALTERNATE 1

DOOR NUMBER	DOORS							FRAME						REMARKS
		SIZE							4/A601 JAMB DETAIL	3/A601 HEAD DETAIL				
	TO	FROM	WIDTH	HEIGHT	THICK.	TYPE	MAT.	MAT.			FIRE RATING	GLASS TYPE	HARDWARE GROUP	
124	LAUNDRY	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
125	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
126	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
127	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
128	JANITOR	DAYROOM	2'-8"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
133	JANITOR	DAYROOM	2'-8"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
134	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
135	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
136	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
137	LAUNDRY	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
172	LAUNDRY	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
173	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
174	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
175	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
176	JANITOR	DAYROOM	2'-8"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
181	JANITOR	DAYROOM	2'-8"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
182	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
183	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
184	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
185	LAUNDRY	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
220	LAUNDRY	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
221	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
222	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
223	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
224	JANITOR	DAYROOM	2'-8"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
229	JANITOR	DAYROOM	2'-8"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
230	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
231	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
232	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
233	LAUNDRY	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
234	LAUNDRY	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
268	LAUNDRY	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
269	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
270	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
271	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
272	JANITOR	DAYROOM	2'-8"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
277	JANITOR	DAYROOM	2'-8"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
278	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
279	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
280	BATHROOM	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD
281	LAUNDRY	DAYROOM	3'-0"	7'-0"	1 3/4"	FVV	FRP	STEEL	2/A601	1/A601	–	S4	2	VERIFY EXISITNG MASONRY OPENING SIZE IN FIELD

NOTE: UNDERCUT ALL DOORS 3/4"

36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

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FORT EDWARD, NEW YORK

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REGISTERED ARCHITECT JOSEPH C. ROBLEE STATE OF NEW YORK No.018432-1

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE WALLS AND DOORS
UNITS 1-8

LOCATION:
FINGER LAKES RESIDENTIAL CENTER
250 AUBURN ROAD
LANSING, NY 14882

CLIENT:
NYS OFFICE OF FAMILY
AND CHILDRENS SERVICES

MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS

PROJECT NUMBER:	45101 – C
DESIGNED BY:	JR
DRAWN BY:	JR
FIELD CHECK:	–
APPROVED:	FI

SHEET TITLE:
DOOR SCHEDULE
ALTERNATE #1

DRAWING NUMBER:
A-601A

SHEET 14 OF 22

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR		BASE		WALLS		DOORS		FRAMES		TRIM		CEILINGS		REMARKS
		MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	
108	CLASSROOM	CONC	VT	EX	VIN	EX PL CMU	IAL-2	–	–	–	–	–	–	–	–	
109	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
110	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
111	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
112	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
113	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
114	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
115	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
116	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
117	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
123	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
130	DAYROOM	CONC	CARPET VT	EX	VIN	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
138	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
144	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
145	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
146	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
147	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
148	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
149	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
150	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
151	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
152	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
153	CLASSROOM	CONC	VT	EX	VIN	EX PL CMU	IAL-2	–	–	–	–	–	–	–	–	
154	DAYROOM	CONC	CARPET VT	EX	VIN	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
156	CLASSROOM	CONC	VT	EX	VIN	EX PL CMU	IAL-2	–	–	–	–	–	–	–	–	
157	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
158	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
159	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
160	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
161	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
162	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
163	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
164	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
165	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
166	OFFICE	CONC	ECT	EX	ECT	–	–	–	–	–	–	–	–	–	–	
167	OFFICE	CONC	ECT	EX	ECT	–	–	–	–	–	–	–	–	–	–	
168	OFFICE	CONC	ECT	EX	ECT	–	–	–	–	–	–	–	–	–	–	
169	OFFICE	CONC	ECT	EX	ECT	–	–	–	–	–	–	–	–	–	–	
170	OFFICE	CONC	ECT	EX	ECT	–	–	–	–	–	–	–	–	–	–	
171	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
178	DAYROOM	CONC	CARPET VT	EX	VIN	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
186	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	=	–	
192	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
193	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
194	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
195	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
196	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
197	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
198	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
199	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
200	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
201	CLASSROOM	CONC	VT	EX	VIN	EX PL CMU	IAL-2	–	–	–	–	–	–	–	–	
202	DAYROOM	CONC	CARPET VT	EX	VIN	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
204	CLASSROOM	CONC	VT	EX	VIN	EX PL CMU	IAL-2	–	–	–	–	–	–	–	–	
205	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
206	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
207	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
208	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
209	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
210	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
211	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
212	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
213	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
219	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
226	DAYROOM	CONC	CARPET VT	EX	VIN	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
234	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	=	–	
235	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
236	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
237	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
238	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
239	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
239	CLASSROOM	CONC	VT	EX	VIN	EX PL CMU	IAL-2	–	–	–	–	–	–	–	–	
240	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
249	CLASSROOM	CONC	VT	EX	VIN	EX PL CMU	IAL-2	–	–	–	–	–	–	–	–	
253	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
254	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
255	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
256	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
257	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
258	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
259	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	

ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR		BASE		WALLS		DOORS		FRAMES		TRIM		CEILINGS		REMARKS
		MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	
260	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
261	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
267	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
274	DAYROOM	CONC	CARPET VT	EX	VIN	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
282	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	
283	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
284	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
285	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
286	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
287	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
288	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
289	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
290	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
296	BEDROOM	CONC	ECT	EX	ECT	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	FRP	–	
297	CLASSROOM	CONC	VT	EX	VIN	EX PL CMU	IAL-2	–	–	–	–	–	–	–	–	
298	DAYROOM	CONC	CARPET VT	EX	VIN	EX PL CMU	IAL-2	STL	FF	STL	IAL-3	STL	IAL-3	–	–	

CMU–CONCRETE MASONRY UNITS
VT–VINYL TILE FLOORING
ECT–EPOXY COMPOSITION FLOORING
EX–EXISTING
PL–PLASTER
FF– FACTORY FINISH

NOTE: SEE REFLECTED CEILING PLANS, DRAWINGS A–108. A–109, & A–110 FOR ADDITIONAL CEILING WORK TO BE INCLUDED IN ALTERNATE #1

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

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CHA
III Winners Circle, PO Box 5269 - Albany, NY 12205-0269

JOSEPH C. ROBLEE
ARCHITECT LLC
53 BURGOYNE AVENUE
FORT EDWARD, NEW YORK

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

REGISTERED ARCHITECT JOSEPH C. ROBLEE No.018432-1 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE WALLS AND DOORS
UNITS 1–8

LOCATION:
FINGER LAKES RESIDENTIAL CENTER
250 AUBURN ROAD
LANSING, NY 14882

CLIENT:
NYS OFFICE OF FAMILY
AND CHILDRENS SERVICES

MARK	DATE	DESCRIPTION
	01/13/2016	BID DOCUMENTS

PROJECT NUMBER:	45101 – C
DESIGNED BY:	JR
DRAWN BY:	JR
FIELD CHECK:	–
APPROVED:	FI

SHEET TITLE:
FINISH SCHEDULE

DRAWING NUMBER:
A–602

SHEET 15 OF 22

36x24 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services

Design and Construction
Division of Construction, 35th Floor, Corning Tower
The Governor Nelson A. Rockefeller Empire State Plaza
Albany, New York 12242
Phone: (518) 474-0331 FAX: (518) 474-8201

SCHEDULE OF SUBMITTALS

PROJECT NO.: Q1894-C Renovate 70 Bedroom Units, Harden Walls

FACILITY: Finger Lakes Residential Center

CONTRACTOR:

PROJECT MANAGER: Tanya Thorne

DESIGN CONSULTANT: CHA Solutions

ENGINEER-IN-CHARGE:

LEGEND

PACK: SUBMITTAL PACKAGE

SD: SHOP DRAWINGS

PD: PRODUCT DATA

EPD: ENVIRONMENTAL PRODUCT DECLARATION

SAM: SAMPLES

QCS: QUALITY CONTROL SUBMITTALS

LEED: LEED SUBMITTALS

CCS: CONTRACT CLOSEOUT SUBMITTALS

SUBMITTAL REVIEW RESPONSIBILITY:
F: OGS FIELD OFFICE
F/O: OGS FIELD OFFICE / OFFICE (ALBANY)
D: CONSULTANT / DESIGNER
S: OGS SCHEDULING DEPARTMENT
RSM: Regional Safety Manager

INSTRUCTIONS TO THE CONTRACTOR

1. Refer to **Section 013300 Submittals** of the Project Manual for general requirements regarding submittals and to **Section 017716 - CONTRACT CLOSEOUT** for project closeout submittals.
2. Refer to Sections of the specifications indicated herein for details of the requirements for each submittal listed.
3. Indicate in the rows (spaces) following each item:
a. Critical submittals and long lead items (mark with an 'X'). Some critical submittals may already be identified by the design team. Confirm that these are critical submittals.
b. The date the item will be submitted, and date approval is required (allow at least 3 weeks), and the date delivery of the material or equipment is necessary for completion of the work in accordance with the Progress Schedule. The date entered for the submittal is the last date a substitution will be considered. Proposed substitutions must be made prior to the date entered if more than one substitution is to be submitted for approval. Spaces which contain N/A do not require dates.
4. An example of a Submittal Transmittal (BDC-42) can be located at: http://www.ogs.ny.gov/BU/DC/forms/ContractorConstForms.asp
5. Submit Contract Closeout Submittals (CCS) prior to final inspection.

INSTRUCTIONS TO THE CONSULTANT / DESIGNER

1. Cut and paste required information from each Division (Div.X) tab and place in the S.O.S. tab.
2. Delete Division (Div.X) tabs after the S.O.S. tab has been in-filled.
3. Indicate F, F/O or D in column E. Items in Div.1 have defaults that can be modified as necessary.
4. Indicate items that are critical submittals in column F.
Note:
The following list of submittals is furnished for your convenience in scheduling submittals. The list is not warranted to be complete and does not take precedence over the contract documents. Enter additional submittals, as required and modify this schedule to the specific project. This S.O.S. will be used to populate the submittals website log.

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The Governor Nelson A. Rockefeller Empire State Plaza
Albany, New York 12242
Phone: (518) 474-0331 FAX: (518) 474-8201

SCHEDULE OF SUBMITTALS

PROJECT NO.: Q1894-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F / F/O / D / S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
007213			**GENERAL CONDITIONS**					
007213	**6.1**	**PD**	ARTICLE 6: Designate in writing competent supervision and/or management representatives as required - **include contact number in case of an emergency after work hours, including weekends and holidays (see 011000 Summary of Work)**	F				
007213	**8.1**	**PD**	ARTICLE 8: Permits and licenses	F				
011000			**SUMMARY OF THE WORK**					
011000	**1.04.A**	**QCS**	Submittal No. 1: Submit the CONTRACTOR'S LIST OF SUBCONTRACTORS-SUPPLIERS information required in SCHEDULES AND RECORDS Article in Specification Section 013000 not later than 15 days after approval of the Contract by the Comptroller.	F/O				
011000	**1.04.A**	**QCS**	related information noted in 013113 Project Planning and Scheduling or 013200 Construction Progress Documentation, whichever section is applicable, within 15 days after approval of the Contract by the Comptroller for review by the Director's Representative and OGS Scheduling.	F/O				
011100			**SAFETY**					
011100	**1.04.A**	**QCS**	Site Specific Safety Plan	RSM				
011100	**1.04.B**	**QCS**	Employee Safety Orientation Training and Certificates	F/O				
011100	**1.04.A.14**	**QCS**	Emergency Action and Evacuation Plan	F/O				
013300			**SUBMITTALS**					
013300	**1.15.A**	**PD**	Schedule of Submittals (This form completed and editted)	F	X			
013300		**QCS**	Proof of Payment	F	X			
013300	**1.07.A**	**QCS**	Submittal Coordinator Qualifications	F/O	X			
014339			**MOCKUP REQUIREMENTS**					
014339		**SD**	Mockup Plan: Detailed, dimensioned plans and elevations.	F				
015213			**STATE FIELD OFFICE**					
015213		**SD**	Indicate holding tank, utility services, and connections	F				
015213		**PD**	after award of Contract.	F				
015213		**PD**	Furniture Submit within 15 days after award of Contract.	F				
015213		**PD**	Office Equipment - Submit within 15 days after award of Contract.	F				
015213		**QCS**	Provide certification insignia from NY State Dept. of State certifying trailer unit is code compliant.	F				
017419			**CONSTRUCTION WASTE MANAGEMENT**					
017419		**LEED**	Construction Waste Management Plan	F/O				
017419		**PD**	In conjunction with payment applications, contractors shall submit a monthly Waste Management submission. This submission shall include waste receipts for the payment period and a completed Waste Management Form for the same payment period.	F				
017419		**PD**	Calculations and supporting documentation to demonstrate end-of–project recycling rates meeting the requirements of the Construction Waste Management Plan.	F				
017716			**CONTRACT CLOSEOUT**					
017716	**1.04**	**CCS**	Project Record Documents	F				
017716	**1.05**	**CCS**	Operation and maintenance, 2 copies	F				
017716	**1.06**	**CCS**	Warranties	F				
017716	**1.07**	**CCS**	Spare Parts and Maintenance Materials	F				

SCHEDULE OF SUBMITTALS

PROJECT NO.: Q1894-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
033001			**CAST-IN-PLACE CONCRETE BROADSCOPE SHORT VERSION**					
033001	**3.03**	**SD**	Placing drawings for bar reinforcement	D				
033002	**2.02**	**PD**	Concrete design mix(es)	D				
033003		**PD**	Portland Cement	D				
033001	**2.01B**	**PD**	Fly Ash	D				
033001		**PD**	Air-entraining Admixture	D				
033001	**2.01A**	**PD**	Water-reducing Admixture	D				
033001		**PD**	Aggregates	D				
033001	**2.01E**	**PD**	Bonding Agent (Adhesive)	D				
033001			**CEMENTITIOUS SELF-LEVELING TOPPING**					
033001		**PACK**	at the same time as a package	D				
033001	**2.01-B**	**PD**	Cementitious Self-Leveling Topping	D				
033001	**2.01-C**	**PD**	Cleaning Agent, Bonding Agent/Primer, Sealer	D				
033001	**1.02-B**	**SD**	Shop Drawings indicating substrates, locations, and average depths of underlayment.	D				
033001	**1.02-C**	**EPD**	Environmental Product Declaration	D				
033001	**1.02-D**	**MOCK**	5'x5' field-applied test sample of contract thickness	F				
035400			**CEMENTITIOUS SELF-LEVELING TOPPING**					
035400		**PACK**	Submit the shop drawings and design data specified below at the same time as a package	D				
	2.01-B	**PD**	Cementitious Self-Leveling Topping	D				
	2.01-C	**PD**	Cleaning Agent, Bonding Agent/Primer, Sealer	D				
	1.02-B	**SD**	Shop Drawings indicating substrates, locations, and average depths of underlayment.	D				
	1.02-C	**EPD**	Environmental Product Declaration	D				
035400	**1.02-D**	**MOCK**	5'x5' field-applied test sample of contract thickness	F				
042000			**UNIT MASONRY**					
042000		**PACK**	Submit the shop drawings and design data specified below at the same time as a package	D				
042000		**SD**	Precast Lintel Drawings					
042000	**2.5-B**	**PD**	Mortar: Masonry Cement:	D				
042000	**2.5-B**	**PD**	Mortar: Lime	D				
042000	**2.5-C**	**PD**	Mortar: Sand	D				
042000		**SAM**	Brick					
042000		**SAM**	Existing Brick to be Matched					
042000	**2.7**	**PD**	Miscellaneous Accessories	D				
042000	**2.4-B**	**QCS**	Test Reports: Concrete Masonry Units	D				
042000	**2.7**	**PD**	Accessories embedded in masonry	D				
	1.5-B	**SD**	Shop Drawings showing masonry unit sizes, coursing, and locations of special shapes. Indicate lap lengths and placement of reinforcing steel	D				
042000		**QCS**	Test Reports: Brick					
051201			**STRUCTURAL STEEL LOAD AND RESISTANCE FACTOR DESIGN**					
051201	**1.04A**	**SD**	Initial Submission: Drawings of proposed job standards for shop and field connections, including standard and special connections, complying with the requirements	D				
051201	**1.04A**	**SD**	Initial Submission: Erection drawings indicating sizes, weights, and locations of all structural members.	D				
051201		**SD**	Initial Submission: Anchor bolt and base plate plans	D				
051201	**1.04A**	**SD**	Subsequent Submission: Index sheets and revised erection drawings to which erection marks have been added	D				
051201	**1.04A**	**SD**	members	D				
051201	**1.04C**	**PD**	Shop Paint	D				
051201	**1.05A**	**PD**	Test Reports: Steel manufacturer's mill test reports	D				
051201	**1.05A**	**PD**	Test Reports: Bolt manufacturer's test reports	D				
051201	**1.04D**	**QCS**	Certificates	D				
051201	**1.04D**	**QCS**	Fabricator's Qualifications Data	D				
051201	**1.04D**	**QCS**	Welding Procedure Specifications	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: Q1894-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
051201	1.04D	QCS	Welder's Certification	D				
054000			COLD-FORMED METAL FRAMING					
054000	1.03A	SD	Erection and fabrication drawings for all load carrying metal framing and accessories	D				
054000	2.01A	PD	Framing (including Studs, Tracks, Joists, Perimeter Channel, and Rafters)	D				
054000	2.01B	PD	Bracing, Bridging, Strapping, Reinforcement, Stiffeners, Plates, Gussets, Clip Angles, and Hangers	D				
054000	2.01B	PD	Power-Actuated Fasteners	D				
054000	2.01B	PD	Self-Drilling Fasteners	D				
055000			METAL FABRICATIONS (Broadscope)					
055000		PACK	Submit the shop drawings and design data specified below at the same time as a package	D				
055000		PD	Fixed Ladders					
055000	1.4-A	PD	For each type of fabricated item specified.	D				
055000	1.4-B	SD	elevations, sections, and details of metal fabrications and	D				
055000	1.4-B	SD	standard AWS welding symbols in accordance with AWS	D				
055000		PD	Safety Nosings	D				
055000		PD	Trench Covers	D				
055000		PD	Floor Grating	D				
055000	1.5-A	QCS	Welding Certificates	D				
055000	1.6-B	QCS	Galvanizer's stamp	D				
055000	1.5-B	QCS	Paint Compatability	D				
055000	1.4-C	EPD	Environmental Product Declaration	D				
055213			PIPE AND TUBE RAILINGS					
055123		PACK	Submit the shop drawings and design data specified below at the same time as a package	D				
055123		PD	Fixed Ladders					
055123	1.3-A-1	PD	Manufacturer's product lines of mechanically connected railings and paint	D				
055123	1.3-B	SD	Shop drawing plans, elevations, sections, details, and attachment to other work. Include shop and field welds.	D				
055123	1.3-E	QCS	Delegated design submittal signed and sealed by qualified professional engineer responsible for their preparation.	D				
055123	1.4-C	SAM	Samples for initial selection	D				
055123	1.4-D	SAM	Samples for each type of exposed finish	D				
061000			ROUGH CARPENTRY					
061000		PACK	Submit the shop drawings and design data specified below at the same time as a package					
061000	1.4-A	PD	Certificates: Dip Treatment	D				
061000	1.4-A	PD	Certificates: Fire-Retardant Treatment	D				
061000	1.5-A	QCS	Indicate type of preservative used and net amount of preservative retained.	D				
061000								
066000			SOLID PLASTIC FABRICATIONS					
066000		PACK	Submit the shop drawings and design data specified below at the same time as a package					
066000	1.01-B	SD	Fabrication Details and connection to adjacent work	D				
066000	1.01-C	PD	For each type and process of factory-finished product	D				
066000	1.01-F	QCS	Qualifications Certificates	D				
066000	1.01-G	CCS	Maintenance Data: Deliver 2 copies	F				
066000	1.01-E	SAM	12" square piece for color, pattern, and finish.	D				
070150			MODIFICATIONS TO EXISTING WARRANTIED ROOF SYSTEM					
070150		PACK	Submit the product data and quality control submittals specified below at the same time in one complete package					
070150	1.03-C-1	PD	Membrane manufacturer's installation instructions and details for the Work of this Section	D				
070150	1.03-C-2	PD	All materials required for the the Work of this Section	D				
070150	1.03-D-1	QCS	Applicator's Certification	D				
070150	1.03-D-2	QCS	Material Certification	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: Q1894-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F / F/O / D / S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
070150	1.03-D-3	QCS	Warranty Certification	D				
076200			SHEET METAL FLASHING AND TRIM					
076200		PACK	Submit the product data and quality control submittals specified below at the same time in one complete package					
076200	1.6-A	SD	Plans and details for sheet metal flashing & trim	D				
076200	1.6-B	PD	Steep-slope and miscellanous sheet metal fabrications	D				
076200	1.6-C	PD	Catalog sheets for items not shop or job formed	D				
076200	1.7-A	QCS	Fabricator qualifications	D				
076200	1.8-A	CCS	Operation and Maintenance Data: Deliver 2 copies	F				
076200	1.8-B	CCS	Special Warranty	F				
076200	1.6-B	SAM	6-in. square piece of roofing material	D				
076200	1.6-B	SAM	(6) anchors of each type.	D				
077200			ROOF ACCESSORIES (Commercial Version)					
077200		PACK	Submit the product data and quality control submittals specified below at the same time in one complete package					
077200	1.3-B	SD	Include plans, elevations, keyed details, and attachments to other work. Indicate dimensions, loadings, and special conditions. Distinguish between plant- and field-assembled work.	D				
077200	1.4-A	SD	Coordination drawings for mechanical equipment.	D				
077200	1.3-A	PD	Roof curbs	D				
077200	1.3-C	SAM	Roof Curb installation sample	D				
077200	1.3-D	QCS	Delegated design data showing detailed mounting and securement, flashing, and wind-restraint details and calculations.	D				
	1.4-B	QCS	Sample Warranties	D				
077200	1.3-C	SAM	Roof Curb installation sample	D				
077200	1.5-A	CCS	Operation and Maintenance Data: Deliver 2 copies	F				
079200			JOINT SEALERS					
079200		PACK	Submit the product data and quality control submittals specified below at the same time in one complete package					
079200	2.02-A	PD	Type 1D Sealant	D				
079200	2.03-A	PD	Type 2 Sealant	D				
079200	2.04-A	PD	Type 3 Sealant	D				
079200	2.02-C	PD	Type 4 Sealant	D				
079200	2.02-D	PD	Type 6 Sealant	D				
079200	1.03-D-3	PD	Sealant Colors	D				
079200	2.05-B	PD	Cylindrical Sealant Backing	D				
079200	2.05-C	PD	Elastomeric Sealant Backing	D				
079200	2.05-D	PD	Bond Breaker Tape	D				
079200	1.04-A-1	QCS	Installer's Qualifications Data	D				
079200	1.04-A-2	QCS	Company Field Advisor Data	D				
079200	1.03-E-1	QCS	Certificate of acceptance by NYS OMH	D				
079200	1.03-G	QCS	Adhesion test reports: Preconstruction & field test	D				
079200	1.03-B-1	SAM	Sealant	D				
079200	1.03-B-2	SAM	Joint Fillers	D				
079200	1.03-B-3	SAM	Gaskets	D				
079200	1.03-B-4	SAM	Joint Primer/Sealer/Conditions	D				
079200	1.03-B-5	SAM	Backer Rods	D				
079200	1.03-B-6	SAM	Bond Breaker Tape	D				
081102			STEEL DOORS AND FRAMES					
081102	1.04.B.1	PACK	Submit Door and Frame Schedule and Shop Drawings Package specified below at the same time in one complete package	D				
081102	1.04.B.1.a	SD	Quality Assurance Package	D				
081102	1.04.B.1.b	SD	Door and Frame Schedule with Product Data Package	D				
081102	1.04.B.1.b	SAM	Door and Frame Samples	D				
081102	1.04.B.1.b	SAM	Color Samples	D				
081102	1.04.B.2	PACK	Submit the Closeout Submittal Package, specified below at the same time in one complete package	D				
081102	1.04.B.2.a	CCS	Operation and Maintenance Manuals	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: Q1894-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
081102	**1.04.B.2.b**	**CCS**	Listing of Manufacturer	D				
081102	**1.04.B.2.c**	**CCS**	Approved Door and Frame Submittal including shop drawings and product data sheets.	D				
081102	**1.04.B.2.d**	**CCS**	Manufacturer's dated warranty	D				
081102	**1.04.B.2.e**	**CCS**	Certification	D				
081743			**COMPOSITE FIBERGLASS DOORS**					
081743	**1.04.B**	**PACK**	Submit the Composite Fiberglass Door Schedule and Shop Drawings Package specified below at the same time in one complete package	D				
081743	**1.04.B.1**	**PD**	Product Data	D				
081743	**1.04.B.2**	**SD**	Shop Drawings	D				
081743	**1.04.B.3**	**SAM**	Samples	D				
081743	**1.04.B.4**	**PD**	Testing and Evaluation Reports	D				
081743	**1.04.B.5**	**PD**	Manufacturer Reports	D				
081743	**1.04.C**	**PACK**	Submit the Closeout Submittal, specified below at the same time in one complete package	D				
081743	**1.04.C.1**	**CCS**	Operation and Maintenance Manual	D				
081743	**1.04.C.2**	**CCS**	Warranty Documentation.	D				
085653			**ALUMINUM SECURITY WINDOWS**					
085653		**PACK**	Submit the product data and quality control submittals specified below at the same time in one complete package					
085653	**1.3-B**	**SD**	Interior window plans, sections, elevations and details	D				
085653	**1.3-A**	**PD**	Manufacturer's recommended installation instructions for each type of framing	D				
085653	**1.4-A**	**QCS**	Test Reports: Certified laboratory and field performance test reports	D				
085653	**1.4-B**	**QCS**	Manufacturer's Warranty: Sample copy	D				
085653	**1.5-C**	**QCS**	Rough opneing verification chart documenting all windows.	D				
085653	**1.5-A**	**CCS**	Operation and Maintenance Data - 2 copies	D				
085653	**1.8-A**	**CCS**	Workmanship Warranty	F				
085653	**1.8-B**	**CCS**	Finish WarrantyWarranty	F				
085653	**1.3-C-2**	**SAM**	Glazing channel, gaskets, and setting blocks	D				
085653	**1.3-C-1**	**SAM**	For each exposed finish	D				
087100			**DOOR HARDWARE**					
087100	**1.03.D.1**	**PACK**	Submit the Quality Control Package, specified below at the same time in one complete package	D				
087100	**1.03.D.1.a**	**SD**	Architectural Hardware Consultant Data	D				
087100	**1.03.D.1.b**	**SD**	Company Field Advisor Data	D				
087100	**1.03.D.1.c**	**SD**	Hardware Distributor's Qualification Data	D				
087100	**1.03.D.2**	**PACK**	Submit the Finish Hardware Package, specified below at the same time in one complete package	D				
087100	**1.03.D.2.a**	**SD**	Finish Hardware Schedule	D				
087100	**1.03.D.2.b**	**PD**	Product Data	D				
087100	**1.03.D.2.c**	**SAM**	Samples as requested	D				
087100	**1.03.D.3**	**PACK**	Closeout Submittals Package	D				
087100	**1.03.D.3.a**	**CCS**	Operation and Maintenance Manuals	D				
087100	**1.03.D.3.b**	**CCS**	Special Tools	D				
088853			**SECURITY GLAZING**					
088853		**PACK**	Submit the product data and quality control submittals specified below at the same time in one complete package					
088853	**1.04-B**	**PD**	details, and installation instructions	D				
088853	**1.04-B**	**PD**	Type S-7 Sheet: Catalog sheets, specifications, glazing details, and installation instructions	D				
088853	**1.04-F**	**EPD**	Environmental Product Declaration	D				
088853	**1.04-D-1**	**QCS**	Test Reports - Assembly Compliance	D				
088853	**1.04-D-2**	**QCS**	Certificate - Quality Assurance Article	D				
088853	**1.04-D-3**	**QCS**	Manufacturer's Qualifications Data	D				
088853	**1.04-D-4**	**QCS**	Installer's Qualifications Data	D				
088853	**1.04-E**	**QCS**	Compatibility Certification	D				
088853	**1.04-G**	**CCS**	Maintenance Data - 2 copies	F				
088853	**1.04-C-1**	**SAM**	Sheet Materials: 12 x 12 inch pieces for each type specified	D				

SCHEDULE OF SUBMITTALS

PROJECT NO.: Q1894-C

SUBMITTALS FOR APPROVAL				Send to:	Critical Submittals	Contractor's Projected Dates Allow at least 4 weeks for Approval (allows time for any resubmission)		
Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
088853	**1.04-C-2**	**SAM**	Setting Blocks	D				
088853	**1.04-C-3**	**SAM**	Glazing Tape	D				
088853	**1.04-C-4**	**SAM**	Color samples for Glazing Materials	D				
088853	**1.04-C-5**	**SAM**	Spacer Shims	D				
092116			**GYPSUM BOARD SYSTEMS**					
092116		**PACK**	Submit the product data and quality control submittals specified below at the same time in one complete package					
092116	**2.2-B**	**PD**	Fire Resistant Gypsum Board	D				
092116	**2.5-C**	**PD**	Steel Drill Screws	D				
092116	**2.5-B**	**PD**	Laminating Adhesive	D				
092116	**2.5-D**	**PD**	Toggle Bolts	D				
092116	**2.3-C**	**PD**	Expansion Joint	D				
092116	**2.3-B-2**	**PD**	Corner Bead	D				
092116	**2.3-B-3**	**PD**	Casing Bead	D				
092116	**2.3-H**	**PD**	Sound Attenuation Blankets	D				
092116	**2.4-B**	**PD**	Joint Tapes	D				
092116	**2.4-C**	**PD**	Joint Compound	D				
092116	**1.4-B-1**	**SAM**	Gypsum Board	D				
092116	**1.4-B-3**	**SAM**	Fasteners	D				
092116	**1.4-B-4**	**SAM**	Adhesive	D				
092116	**1.4-B-2**	**SAM**	Trim Accessories	D				
092216			**NON-STRUCTURAL METAL FRAMING**					
092216		**PACK**	Submit the product data and quality control submittals specified below at the same time in one complete package					
092216	**1.3-A-1**	**PD**	Studs, Tracks, Furring	D				
092216	**1.3-A-2**	**PD**	Fasteners	D				
092216	**1.3-A-3**	**EPD**	Environmental Product Declaration	D				
092216	**1.4-A-1**	**QCS**	Evaluation Reports forfirestop tracks	D				
092216	**1.4-A-2**	**QCS**	Evaluation Reports for corrosion resistance	D				
093013			**CERAMIC TILE**					
093013		**PACK**	Submit the product data and quality control submittals specified below at the same time in one complete package					
093013	**1.03-A-1**	**PD**	Marble Door Thresholds	D				
093013	**1.04-A-2**	**QCS**	Manufacturer's Quality Assurance: Obtain ingredients of a uniform quality for each mortar, waterproof membrane, adhesive, and grout component from a single manufacturer and each aggregate from one source or producer.	D				
093013	**1.04-A-1**	**QCS**	Manufacturer's Quality Assurance: Obtain each color, grade, finish, type, composition, and variety of tile from one source with resources to provide products from the same production run for each contiguous area of consistent quality in appearance and physical properties without delaying the Work.	D				
093013	**1.03-C-1**	**QCS**	Installers' Qualification Data: Name of each person who will be performing the work and their employer's name, business address, and telephone number. Names and addresses of 3 similar projects that each person has worked on during the past 5 years.	D				
093013	**1.04-B**	**QCS**	Installers' Qualifications: The persons installing the work of this Section and their Supervisor shall be personally experienced in ceramic tile installation and shall have been regularly employed by a Company installing ceramic tile for a minimum of 5 years.	D				
093013	**1.03-D-1**	**CCS**	Maintenance Data	F				
093013	**1.03-B-1**	**SAM**	Marble Threshold, 6-inch length	D				
095113			**SUSPENDED ACOUSTICAL CEILING SYSTEMS**					
095113		**PACK**	Submit the product data and quality control submittals specified below at the same time in one complete package					
095113	**2.3-C**	**PD**	Acosutical Panel SAC-1: Mineral Fiber Ceiling Panel	D				
095113	**2.4-B**	**PD**	Metal Suspension System Type 1	D				
095113	**2.5-A**	**PD**	Accessories: Attachment Devices	D				

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PROJECT NO.: Q1894-C

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
095113	**2.5-B**	**PD**	Accessories: Wire Hangers, Braces, and Ties	D				
095113	**2.5-C**	**PD**	Accessories: Hanger Clips	D				
095113	**2.5-D**	**PD**	Accessories: Hanger Rods	D				
095113	**2.5-E**	**PD**	Accessories: Angle hangers	D				
095113	**2.5-F**	**PD**	Accessories: Hold-down Clips	D				
095113	**2.5-G**	**PD**	Accessories: Seismic Clips	D				
095113	**2.5-H**	**PD**	Accessories: Seismic Stabilizer bars	D				
095113	**2.5-I**	**PD**	Accessories: Seismic Struts	D				
095113	**1.10-A**	**QCS**	Installer's Qualifications	D				
095113	**1.7-A**	**QCS**	Certification: Manufacturer's written statement	D				
095113	**1.8-A**	**CCS**	Maintenance Instructions - 2 copies	F				
095113	**1.9-A-1**	**CCS**	Furnish quantities equal to 5 percent of acoustical units and exposed suspension system components installed	F				
095113	**1.6-B**	**SAM**	Suspension System Materials	D				
095113	**1.6-B**	**SAM**	Acoustical Units	D				
095753			**METAL PLANK SECURITY CEILING SYSTEM**					
095753		**PACK**	Submit the shop drawings, product data, samples, and quality control submittals specified below at the same time as a package					
095753	**1.05-C**	**SD**	Manufacturer's project specific ceiling plans and details.	D				
095753	**1.05-D-2**	**PD**	Manufacturer's installation instructions	D				
095753	**1.05-D-1**	**PD**	Ceiling Panels	D				
095753	**1.06-D**	**QCS**	Installer's Qualifications	D				
095753	**1.06-A**	**QCS**	Manufacturer's Qualifications	D				
095753	**1.05-E-1**	**CCS**	Maintenance Instructions	F				
095753	**1.05-D-2**	**CCS**	Warranty Documents	F				
095753	**1.05-D-3**	**CCS**	Manufacturer's Certification of Acoustical Performance	F				
095753	**1.05-D**	**SAM**	Ceiling panel and its suspension system	D				
096513			**RESILIENT BASE AND ACCESSORIES**					
096513		**PACK**	Submit the shop drawings, product data, samples, and quality control submittals specified below at the same time as a package					
096513	**1.3-A**	**PD**	Manufacturer's specifications, surface preparation, and installation instructions.	D				
096513	**1.4-A**	**QCS**	Certificates - Installer's Quality Assurance of Substrate Preparation	D				
096513	**1.5-A**	**CCS**	Extra Materials: minimum 10 LF for every 500 LF installed	F				
096513	**1.3-B**	**SAM**	Base	D				
096513	**2.2.-A**	**SAM**	Transition Strip					
096519			**RESILIENT TILE FLOORING**					
096519		**PACK**	Submit the shop drawings, product data, samples, and quality control submittals specified below at the same time as a package					
096519	**1.3-B**	**SD**	Floor tile layout with transitions at vertical elements.					
096519	**1.3-A**	**PD**	Manufacturer's specifications, surface preparation, and installation instructions.	D				
096519	**2.2-A**	**PD**	Resilient floor tile	D				
096519	**2.3-A**	**PD**	Leveling and patching compounds	D				
096519	**2.3-B**	**PD**	Adhesives	D				
096519	**2.3-C**	**PD**	Primer for porous or dusty concrete	D				
096519	**1.7-A**	**QCS**	Installer's qualification data	D				
096519	**1.7-B**	**QCS**	Material compatibility	D				
096519	**1.7-C**	**QCS**	Installer certification that substrate has been examined and is acceptable for installation.	D				
096519	**1.7-D**	**QCS**	Performance Criteria for flooring and adhesives	D				
096519		**CCS**	Extra Materials: minimum 10 LF for every 500 LF installed	F				
096519	**1.3-C-1**	**SAM**	Tile: full size unit in each color and texture.	D				
096519	**1.3-C-2**	**SAM**	Manufacturer's full range of colors, patterns, and textures	D				
096723			**RESINOUS FLOORING**					

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
096723		PACK	Submit the shop drawings, product data, samples, and quality control submittals specified below at the same time as a package					
096723		PD	Fill	D				
096723		PD	Underlayment	D				
096723		PD	Waterproofing	D				
096723		PD	Primer	D				
096723		PD	Type RSS-1 Flooring	D				
096723	1.03-C-1	QCS	Test Reports: Submitted materials meet or exceed specified physical properties and performance requirements.	D				
096723	1.03-C-2	QCS	Certificates - Article 3.01	D				
096723	1.03-C-3	QCS	Installer's Qualifications Data	D				
096723	1.03-C-4	QCS	List of Completed Installations	D				
096723	1.03-D-1	CCS	Maintenance Data - 2 copies	F				
096723	1.03-D-2	CCS	Manufacturer's warranty per Article 1.05	F				
096723	1.03-B-1	SAM	Flooring and Base Combination	D				
096723	1.03-B-2	SAM	Underlayment Components	D				
096723	1.03-B-3	SAM	Liquid Binder for Reinforcement	D				
096723	1.03-B-4	SAM	Clear Sealer	D				
096816			SHEET CARPETING					
096816		PACK	Submit the shop drawings, product data, samples, and quality control submittals specified below at the same time as a package					
096816	1.5-B	SD	Dimensions, pattern direction, and seam diagram	D				
096816	2.1-A	PD	Sheet Carpeting	D				
096816	2.2-A	PD	Leveling & Patching Compounds	D				
096816	2.2-B	PD	Adhesive	D				
096816	2.2-C	PD	Seam Sealer	D				
096816	1.9-A	QCS	Installer Qualification Data	D				
096816	1.6-B	QCS	Product Test Reports	D				
096816	1.6-C	QCS	Sample Warranties	D				
096816	1.9-B	QCS	Flammability Certification	D				
096816	1.5-C-1	SAM	Sheet Carpeting	D				
096816	1.5-C-2	SAM	Exposed Edge, Transition, Accessory Stripping	D				
096816	1.5-C-3	SAM	Carpet Seam	D				
096816	1.7-A-1-a	CCS	Maintenance and Cleaning Instructions - 2 copies	F				
096816	1.7-A-1-b	CCS	Manufacturer's Warranty	F				
096816	1.7-A-2	CCS	Precautions for cleaning materials and methods that could be detrimental to carpet.	F				
096816	1.8-A-1	CCS	Extra Materials: Full width roll equal to not less than 5% of total installed but not less than 10 square yards	F				
099101			CONSTRUCTION PAINTING					
099101		PACK	Submit the shop drawings, product data, samples, and quality control submittals specified below at the same time as a package					
099101	1.03-A	PD	Painting Schedule - Interior Substrates	D				
099101	1.03-B	PD	Manufacturer's published product data sheets describing the following for each finish paint product to be applied	D				
099101	2.03-B-1	PD	Paint Type IAL-2: Interior Acrylic Latex, Eggshell	D				
099101	2.03-B-2	PD	Paint Type IAL-3: Interior Acrylic Latex, Semigloss Enamel	D				
099101	2.03-B-3	PD	Paint Type IAL-4: Interior Acrylic Latex, Gloss Enamel	D				
099101	2.02-B-4	PD	Paint Type FRL: Fire Rtardant Latex, Flat	D				
099101	2.03-C	PD	Colors: Finish Schedule PT-1, PT-2, PT-3	D				
099101	2.04-A	QCS	Test Reports	D				
099101		QCS	Certificates of Quality Assurance Article	D				
099101	1.03-C	SAM	Finish Paint Samples: Two finish paint samples applied over recommended primers for each substrate to be painted.	D				
099101	1.07-A-1	CCS	Extra Materials: Paint Type IAL-2: Four gallons	F				
099101	1.07-A-2	CCS	Extra Materials: Paint Types IAL-3 and IAL-4: Two gallons, each type	F				
099659			HIGH-BUILD GLAZED COATINGS					

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
099659		PACK	Submit the shop drawings, product data, samples, and quality control submittals specified below at the same time as a package					
099659	2.01-A	PD	Primers, Sealers, Undercoats	D				
099659	2.01-B	PD	HBGC-1 Coating System	D				
099659	1.03-C-1	QCS	Test Reports	D				
099659	1.03-C-2	QCS	Applicators Qualifications Data	D				
099659	1.03-C-3	QCS	Certificates - Quality Assurance Article	D				
099659	1.03-B	SAM	Samples: Each coating system and color required	D				
099659	1.07-A	CCS	Extra Materials: Furnish one extra gallon of each type and color of coating material specified	F				
111901			DETENTION EQUIPMENT					
111901	1.05.D	PACK	Quality Assurance Package	D				
111901	1.05.D.1	SD	Equipment Manufacturer'(s) Qualifications	D				
111901	1.05.D.2	SD	Equipment Installation Company Qualifications	D				
111901	1.05.D.3	SD	Equipment Installer's Qualifications	D				
111901	1.05.D.4	SD	Power and Control Wiring Installation Company Qualification	D				
111901	1.05.D.5	SD	Power and Control Wiring Installer's Qualifications	D				
111901	1.05.D.6	SD	Company Field Advisor's Qualifications	D				
111901	1.05.E	SD	Detention Equipment Package	D				
111901	1.05.E.1	SD	Complete detailed drawings	D				
111901	1.05.E.2	SD	Complete detailed drawings for each console/panel required	D				
111901	1.05.E.3	PD	Product Data	D				
111901	1.05.F	PACK	Detention Hardware Package	D				
111901	1.05.F.1	SD	Hardware Schedule	D				
111901	1.05.F.2	PD	Product Data	D				
111901	1.05.G	PACK	Power and Control Wiring Package	D				
111901	1.05.G.1	SD	Shop Drawings	D				
111901	1.05.G.2	PD	Product Data	D				
111901	1.05.G.3	SD	Detailed Sequence of Operations	D				
111901	1.05.H	PACK	Contract Closeout Submittals	D				
111901	1.05.H.1		Operation and Maintenance Data For Detention Equipment	D				
111901	1.05.H.2		Operation and Maintenance Data For Detention Hardware	D				
111901	1.05.H.3		Operation and Maintenance Data For Power and Control Wiring Products	D				
111901	1.05.H.4		Final Systems Testing Report and Certification of Proper Operation	D				
111901	1.05.H.5		Spare components and maintenance kit	D				
310000			EARTHWORK					
310000		PD	Filter Fabric: Manufacturer's catalog sheets, specifications, and installation instructions	D				
310000		PD	Geogrid: Manufacturer's catalog sheets, specifications, and installation instructions	D				
310000		PD	Select Granular Material					
310000		PD	Subbase Course Type 2	D				
310000		PD	Selected Fill	D				
310000		PD	Filter Fabric (GeoTextile)	D				
320117			PAVEMENT REPAIR AND RESURFACING					
320117		PD	Asphalt filler	D				
320117		PD	Asphalt emulsion	D				
320117		EPD	Environmental Product Declaration	D				
320117		QCS	Plant name and location of asphalt concrete supplier	D				
321216			ASPHALT PAVING					
321216		PD	Top Course	D				
321216		PD	Binder Course	D				
321216		EPD	Environmental Product Declaration	D				
321216		QCS	Plant name and location of asphalt concrete supplier	D				
323113			CHAIN LINK FENCE AND GATES					
323113		PD	STEEL FRAMEWORK (FOR FENCES 6'-1" - 10'-0" HIGH) - End Posts, Corner Posts and Pull Posts	D				

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Spec Section	Sub Section	Type	Description	F F/O D S	Mark "X" for all that apply	Projected Transmittal Date:	Projected Approval Date:	Projected Delivery Date:
323113		**PD**	STEEL FRAMEWORK (FOR FENCES 6'-1" - 10'-0" HIGH) - Line Posts	D				
323113		**PD**	STEEL FRAMEWORK (FOR FENCES 6'-1" - 10'-0" HIGH) - Light Posts					
323113		**PD**	Steel Fabric	D				
323113		**PD**	Swing Gate Posts	D				
323113		**PD**	Swing Gate Frames	D				
323113		**PD**	Sliding Gate Framework	D				
323113		**PD**	Swing Gate Hardware	D				
323113		**PD**	Keying	F				
323113		**PD**	Rails and Post Braces	D				
323113		**PD**	Stretcher Bars	D				
323113		**PD**	Truss Rods	D				
323113		**EPD**	Environmental Product Declaration	D				
323113		**SAM**	Fence Fabric	F				
323113		**SAM**	Fence and Gate Posts	F				
323113		**SAM**	Miscellaneous Materials and Accessories	F				
323113		**SAM**	Provide samples from materials delivered to the Site for installation.	F				

SDVOB UTILIZATION PLAN

☐ **Initial Plan** ☐ **Revised plan** **Contract/Solicitation #** _____

INSTRUCTIONS: This Utilization Plan must contain a detailed description of the supplies and/or services to be provided by each NYS **Certified** Service-Disabled Veteran-Owned Business (SDVOB) under the contract. By submission of this Plan, the Bidder/Contractor commits to making good faith efforts in the utilization of SDVOB subcontractors and suppliers as required by the SDVOB goals contained in the Solicitation/Contract. Making false representations or providing information that shows a lack of good faith as part of, or in conjunction with, the submission of a Utilization Plan is prohibited by law and may result in penalties including, but not limited to, termination of a contract for cause, loss of eligibility to submit future bids, and/or withholding of payments. Firms that do not perform commercially useful functions may not be counted toward SDVOB utilization. Attach additional sheets if necessary.

BIDDER/CONTRACTOR INFORMATION		**SDVOB Goals In Contract**
Bidder/Contractor Name:	NYS Vendor ID:	%
Bidder/Contractor Address (Street, City, State and Zip Code):		
Bidder/Contractor Telephone Number:	Contract Work Location/Region:	
Contract Description/Title:		

CONTRACTOR INFORMATION			
Prepared by (Signature):	Name and Title of Preparer:	Telephone Number:	Date:
Email Address:			

If unable to meet the SDVOB goals set forth in the solicitation/contract, bidder/contractor must submit a request for waiver on the SDVOB Waiver Form.

SDVOB Subcontractor/Supplier Name:		
Please identify the person you contacted:	Federal Identification No.:	Telephone No.:
Address:	Email Address:	
Detailed description of work to be provided by subcontractor/supplier:		
Dollar Value of subcontracts/supplies/services (When $ value cannot be estimated, provide the estimated % of contract work the SDVOB will perform): $_____ or _____%		

SDVOB Subcontractor/Supplier Name:		
Please identify the person you contacted:	Federal Identification No.:	Telephone No.:
Address:	Email Address:	
Detailed Description of work to be provided by subcontractor/supplier:		
Dollar Value of subcontracts/supplies/services (When $ value cannot be estimated, provide the estimated % of contract work the SDVOB will perform): $_____ or _____%		

FOR OGS USE ONLY				
OGS Authorized Signature:		☐ **Accepted**	☐ **Accepted as Noted**	☐ **Notice of Deficiency**
NAME (Please Print):	**SDVOB %/$** ____	____	**Date Received:**	**Date Processed:**
Comments:				

NYS CERTIFIED SDVOB SUBCONTRACTOR/SUPPLIER INFORMATION: The directory of New York State Certified SDVOBs can be viewed at: https://ogs.ny.gov/Veterans/default.asp

Note: All listed Subcontractors/Suppliers will be contacted and verified by OGS.

ADDITIONAL SHEET

Bidder/Contractor Name:	**Contract/Solicitation #** _____

SDVOB Subcontractor/Supplier Name:		
Please identify the person you contacted:	Federal Identification No.:	Telephone No.:
Address:	Email Address:	
Detailed Description of work to be provided by subcontractor/supplier:		
Dollar Value of subcontracts/supplies/services (When $ value cannot be estimated, provide the estimated % of contract work the SDVOB will perform): $_____ or _____%		
SDVOB Subcontractor/Supplier Name:		
Please identify the person you contacted:	Federal Identification No.:	Telephone No.:
Address:	Email Address:	
Detailed Description of work to be provided by subcontractor/supplier:		
Dollar Value of subcontracts/supplies/services (When $ value cannot be estimated, provide the estimated % of contract work the SDVOB will perform): $_____ or _____%		
SDVOB Subcontractor/Supplier Name:		
Please identify the person you contacted:	Federal Identification No.:	Telephone No.:
Address:	Email Address:	
Detailed Description of work to be provided by subcontractor/supplier:		
Dollar Value of subcontracts/supplies/services (When $ value cannot be estimated, provide the estimated % of contract work the SDVOB will perform): $_____ or _____%		
SDVOB Subcontractor/Supplier Name:		
Please identify the person you contacted:	Federal Identification No.:	Telephone No.:
Address:	Email Address:	
Detailed Description of work to be provided by subcontractor/supplier:		
Dollar Value of subcontracts/supplies/services (When $ value cannot be estimated, provide the estimated % of contract work the SDVOB will perform)): $_____ or _____%		
SDVOB Subcontractor/Supplier Name:		
Please identify the person you contacted:	Federal Identification No.:	Telephone No.:
Address:	Email Address:	
Detailed Description of work to be provided by subcontractor/supplier:		
Dollar Value of subcontracts/supplies/services (When $ value cannot be estimated, provide the estimated % of contract work the SDVOB will perform): $_____ or _____%		

NEW YORK STATE OF OPPORTUNITY. | Office of General Services | Division of Service-Disabled Veterans' Business Development

Instructions for Completing the Monthly SDVOB Compliance Report – SDVOB 101

The SDVOB Monthly Reporting Form is to be completed by the Contractor/Vendor, and submitted by the 10th day of *each* month for the duration of the Contract. This form should include **all** (e.g. SDVOB and non SDVOB) Subcontractors and/or Suppliers assigned by the Contractor/Vendor to perform work during the contract. This reporting should also include payments made by your Subcontractors and/or Suppliers to SDVOB firms.

Complete the form as specified below.

Contract No.	Indicate the OGS Contract No.
Contractor/Vendor Name and Address	Provide your firm's name and address.
Federal ID No.	Enter your firm's Federal ID No.
Goals	Indicate SDVOB participation goals.
Reporting Period	Fill in the month and year of reporting period. One copy must be submitted with final payment application.
Description of Project	Briefly describe the work you are providing under the terms of this contract.
Firm Name and Address	Provide the name, address and phone number of **all** Subcontractors/Suppliers assigned by the Contractor/Vendor on this contract or purchase agreement(s).
Federal ID No.	Enter the Subcontractor's/Supplier's Federal ID No. If no Federal ID No. has been assigned, provide only the owner's last four (4) digits of his or her Social Security No.
Payment This Month	Indicate the amount paid *this month* to each Subcontractor/Supplier. If there was no income activity for a Subcontractor/Supplier, please check the box indicating "No Payment This Month."
Contract Amount	Enter the total contract amount or purchase agreement(s) amount for each Subcontractor/Supplier.
Description of Work/Supplies	Briefly describe the work performed or supplies provided by each Subcontractor/Supplier.

Submit to:

Design & Construction SDVOB Compliance Specialist
35th Floor, Corning Tower
Albany, New York 12242
Email: DCSDVOB@ogs.ny.gov

CONTRACTOR'S MONTHLY SDVOB COMPLIANCE REPORT (DUE ON THE 10TH DAY OF EACH MONTH FOR THE PRECEDING MONTH'S ACTIVITY AS EVIDENCE TOWARDS ACHIEVEMENT OF THE SDVOB GOALS ON THE CONTRACT)

Contract No.: _____

Contractor/Vendor Name, Address and Phone No.:	Contractor/Vendor Federal ID No.:	SDVOB Goals	Reporting Period	
	Description of Project:	%	Month	Year

Firm Name, Address and Phone Number (List All Firms)	Description of Work or Supplies Provided	Designation		Payment This Month	Contract Amount
Federal ID No.:		☐ SDVOB ☐ Sub ☐ Broker ☐ Joint Venture ☐ Written Contract	☐ Supplier ☐ Team ☐ Other ☐ No Written Contract	☐ No Payment This Month	
Federal ID No.:		☐ SDVOB ☐ Sub ☐ Broker ☐ Joint Venture ☐ Written Contract	☐ Supplier ☐ Team ☐ Other ☐ No Written Contract	☐ No Payment This Month	
Federal ID No.:		☐ SDVOB ☐ Sub ☐ Broker ☐ Joint Venture ☐ Written Contract	☐ Supplier ☐ Team ☐ Other ☐ No Written Contract	☐ No Payment This Month	
Federal ID No.:		☐ SDVOB ☐ Sub ☐ Broker ☐ Joint Venture ☐ Written Contract	☐ Supplier ☐ Team ☐ Other ☐ No Written Contract	☐ No Payment This Month	

_____ Signature

_____ Print Name and Title

_____ Date

Submission of this form constitutes the Contractor's acknowledgement as to the accuracy of the information contained herein. Failure to submit complete and accurate information may result in a finding of noncompliance, non-responsibility, suspension and/or termination of the Contract.

For OGS Use Only	
Reviewed By:	Date:

APPLICATION FOR WAIVER OF SDVOB PARTICIPATION GOAL

(must be submitted before requesting final payment on the Contract)

Section 1: Basic Information

Contractor's Name:	Federal Identification Number:
Street Address:	E-Mail Address:
City, State, Zip Code:	Telephone: ( ) -

Contract Number:	SDVOB CONTRACT GOALS %

Section 2: Type of SDVOB Waiver Requested

☐ Total	☐ Partial	If partial waiver, please enter the revised SDVOB percentage:	%

Please explain the reason for the waiver request:

Section 3: Supporting Documentation

Provide the following documentation as evidence of your good faith efforts to meet the SDVOB goals set forth in the contract and in support of your waiver application:

- ❑ **Attachment A.** Copies of solicitations to SDVOBs and any responses thereto.
- ❑ **Attachment B.** Explanation of the specific reasons each SDVOB that responded to Bidders/Contractors' solicitation was not selected.
- ❑ **Attachment C.** Dates of any pre-bid, pre-award or other meetings attended by Contractor, if any, scheduled by OGS with certified SDVOBs whom OGS determined were capable of fulfilling the SDVOB goals set forth in the contract.
- ❑ **Attachment D.** Information describing the specific steps undertaken to reasonably structure the contract scope of work for the purpose of subcontracting with, or obtaining supplies from, certified SDVOBs.
- ❑ **Attachment E.** Other information deemed relevant to the request.

Section 4: Signature and Contact Information

By signing and submitting this form, the contractor certifies that a good faith effort has been made to promote SDVOB participation pursuant to the SDVOB requirements set forth under the solicitation or Contract. Failure to submit complete and accurate information may result in a finding of noncompliance, non-responsibility, and a suspension or termination of the contract.

Prepared By: (Signature)	Date:
Name and Title of Preparer (Print or Type)	

For OGS Use Only	
Reviewed By:	Date:
Decision: ☐ Full SDVOB waiver granted ☐ Partial SDVOB waiver granted; revised SDVOB goal: _____ % ☐ SDVOB waiver denied	
Approved By:	Date:
Date Notice of Determination Sent:	
Comments	

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Sika Sarnafil

World Class Roofing and Waterproofing

25 Year System Warranty

Warranty Serial No.: 0000000404-069412.2

SIKA SARNAFIL ROOFING WARRANTY FOR COMMERCIAL BUILDING 43968-C

Building Owner: State of New York

Building Name: Finger Lakes Residential Center

Building Address: 250 Auburn Road

Lansing, NY 14882

Applicator: Diamond Roofing Company, 411 Cambridge Avenue, Syracuse, NY 13208 Telephone: (315) 454-3291

Date of Substantial Completion: 12/2/2011 Date of Inspection: 10/3/2011 By: Charles Faulk

Building/Area Name: Finger Lakes Residential Center

Used As: SPECIAL SCHOOLS Area Warranted: 108,100 sq. ft.

Sika Sarnafil warrants to the owner of the building described above ("Owner"), that subject to the terms, conditions, and limitations stated herein, Sika Sarnafil will repair leaks originating from the Sarnafil Roofing Membrane, Sarnatherm Insulation or Sika Sarnafil Roofing Accessories installed according to Sika Sarnafil's Technical instructions by a Sika Sarnafil Authorized Roofing Applicator for a period of 25 (twenty five) years commencing with the date of substantial completion of the installation of the Roofing Membrane.

TERMS, CONDITIONS, LIMITATIONS

1. Owner shall notify Sika Sarnafil on the first business day immediately following the discovery of each leak in the Roofing System and confirm in writing within one week.
2. If on Sika Sarnafil's inspection, Sika Sarnafil determines that the leak is caused by a defect in Sarnafil's Roofing Membrane, Sarnatherm Insulation or Accessory provided by Sika Sarnafil to the Applicator for this building or from a defect in the Sika Sarnafil Authorized Applicator's workmanship applied to that Sarnafil Membrane, except as provided in the following paragraph three (3) Owner's remedies and Sika Sarnafil's liability shall be limited to Sika Sarnafil's repair of the Roofing Membrane, Sarnatherm Insulation or Accessory.
3. This warranty does not apply and may be null and void if any of the following occur:
   (a) The Roofing Membrane, Sarnatherm Insulation or Accessory is damaged by a natural disaster including, but not limited to, earthquake, lightning, hail, windstorm in excess of 60 mph (97 km/h), hurricane, or tornado, or:
   (b) The Roofing Membrane, Sarnatherm Insulation or Accessory is damaged by any act of negligence, accident, or misuse including, but not limited to, vandalism, falling objects, civil disobedience, or act of war, or:
   (c) A deficient pre-existing condition or equipment is causing water entry, or:
   (d) Metal work or other accessories or equipment is used in the Roofing and causes leaks, or:
   (e) There are any alterations or repairs made on or through the completed roof, or objects such as but not limited to fixtures, equipment, or structures are placed on or attached to the completed roof without first obtaining written authorization from Sika Sarnafil, or:
   (f) Failure by the Owner or his lessee to use reasonable care in maintaining the roof as described in the Owner's Guide provided with this warranty, including that of sealants and caulking, or:
   (g) Loss of integrity of the building envelope and, or structure including, but not limited to partial or complete loss of roof decking, wall siding, windows, doors or other envelope components or from roof damage by wind blown objects, or:
   (h) Condensation accumulates in the roof assembly due to incorrect design or due to a reduction in the vapor barrier effectiveness, or:
   (i) A significant change in the use of the building by the Owner or his lessee expected by Sika Sarnafil to affect the Roofing Membrane as originally installed, or:
   (j) The Roofing Membrane is damaged by contaminates and/or spills, or:
   (k) Deficient design applied to the Roofing Membrane such as membrane contact with incompatible materials and/or substrates, or:
   (l) The Owner fails to comply with every term and condition stated herein.
4. During the period of this warranty, Sika Sarnafil, its agents and employees, shall have free access to the roof during regular business hours.
5. Should the Roofing Membrane be concealed, the cost of exposure of the Roofing Membrane for purposes of Sika Sarnafil's investigation and/or repair, such as removal and replacement of any paving or overburden, shall be the Owner's responsibility.
6. Sika Sarnafil shall have no obligation under this warranty until all invoices for materials, installation, and services have been paid for in full.
7. Sika Sarnafil's failure at any time to enforce any of the terms or conditions stated herein shall not be construed to be a waiver of such provision.
8. This warranty is extended solely and exclusively to the owner of the Building at the time the Sarnafil Roofing System is installed. It does not extend nor is it otherwise assignable or transferable to any other party unless approved in advance and in writing by Sika Sarnafil and the costs to process the transfer and to inspect and repair the Sika Sarnafil Roofing System, if necessary, are paid for by the original owner.
9. The Owner and Sika Sarnafil hereby agree that any and all claims (contractual, statutory, common law or otherwise), disputes, or suits that in any way, directly or indirectly, arise out of or relate to this Warranty, or the alleged breach thereof, or to any contracts between the owner and Sika Sarnafil, or the alleged breach thereof, or to the design, manufacture, sale, distribution, installation, and/or inspection of the Sika Sarnafil Roofing System, shall first be submitted to non-binding mediation before a neutral mediator jointly selected by the parties or, in the absence of agreement, as designated by the American Arbitration Association. In the absence of resolution by mediation, all such claims shall be settled by arbitration by the American Arbitration Association in accordance with the Construction Industry Arbitration Rules. Any such mediation and/or arbitration shall take place in Boston, Massachusetts. This Warranty, and any claims, disputes or suits between the parties hereto shall be governed by, and construed and enforced in accordance with, the laws of the Commonwealth of Massachusetts.
10. **THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THE REMEDIES STATED HEREIN ARE EXCLUSIVE REMEDIES AND SIKA SARNAFIL SHALL NOT BE RESPONSIBLE OR LIABLE FOR ANY INDIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES INCLUDING THE PRESENCE OF MOLDS, FUNGI, BACTERIA, SPORES, MYCOTOXINS OR THE LIKE OR FURTHER LOSS OF ANY KIND WHATSOEVER, INCLUDING BUT NOT LIMITED TO, DAMAGE TO THE BUILDING ON WHICH THE COMPONENTS OF THE ROOF ARE SITUATED, DAMAGE TO THE CONTENTS THEREOF, LOSS OF USE OF THE BUILDING OR ANY COMPONENT PART THEREOF, OR DAMAGE TO ANY OTHER PROPERTY OR PERSONS.**

NO REPRESENTATIVE OF SIKA SARNAFIL HAS AUTHORITY TO MAKE ANY REPRESENTATIONS OR PROMISES EXCEPT AS STATED HEREIN.

This Warranty Is Effective From: 12/2/2011 through: 12/1/2036

Michelle Cavacas 2/21/2012

Michelle Cavacas Date:

Brian J. Whelan 2/21/2012

Brian J. Whelan Date:

Sika Sarnafil

World Class Roofing and Waterproofing

Sikacoat™ Roof Coating System Maintenance Guide

Roofs are constantly under attack by weather, structural movement and other stresses. While "normal aging" will occur on all roofs, small problems stemming from neglect, abuse, contamination, or accident can result in extensive, costly repairs or premature failure of the roof coating system if not detected.

A regular program of inspection and maintenance detects and addresses in a timely manner minor problems before they become serious, avoids interruptions of functions within the building, and most importantly, protects your investment by adding years to the life of the roof.

We recommend that you contact the authorized Sika Sarnafil roofing applicator that installed the Sikacoat Roof Coating System to implement a preventative maintenance plan. Ongoing inspection and maintenance protects your roof investment and can prolong its useful life. Damage, if detected early, can usually be repaired economically, avoiding expensive repairs or early replacement costs.

The Sikacoat Roof Coating System preventative maintenance plan should incorporate the following:

1. At least two inspections should be made every year. Inspections should take place in the spring to check for damage that may have occurred in the winter, and again in the fall to be sure the roof is in good condition for the upcoming winter. Inspections should also be made following any occurrences that might affect the roof such as severe storms or rooftop maintenance activities.
2. Remove all debris, ensure that drains are open and functioning, repair damaged areas, and identify other roof conditions that may need more extensive repair.
3. Cut out any delaminated or blistered coating. Clean the exposed and surrounding area thoroughly and allow to dry. Prime the substrate, as required, and allow to dry. Apply the appropriate Sikacoat base coat and finish coat. Allow each coating application to dry completely before applying the subsequent coat.
4. Repair any damaged areas with a three-course application of Sikacoat Acrylic Sealant and Sikacoat Reinforcing Fabric. Apply Acrylic Sealant over the damaged area and extend it 3 inches beyond the damage. Embed Reinforcing Fabric into the wet sealant followed by another application of Acrylic Sealant over the fabric extending 3 inches beyond the fabric. Allow the sealant to dry completely before applying Sikacoat base coat and finish coat. Allow each coating application to dry completely before applying the subsequent coat.
5. Inspect the roof for signs of areas indicating poor drainage. If the areas hold water for 48 hours or more, speak with the authorized Sika Sarnafil applicator

Sika Sarnafil

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Sika Sarnafil Photovoltaic Installation/Warranty Continuation Policy

Any photovoltaic (PV) installation on an existing Sika Sarnafil roofing system should be coordinated through Sarnafil Services Inc. Sarnafil Services can provide a variety of Solar PV solutions.. By purchasing your PV system through Sarnafil Services you insure ongoing coverage under your existing Sika Sarnafil warranty, avoid the risk of voiding the warranty and are exempt from all the fees noted below.

In the event the PV system is not supplied by Sarnafil Services Inc., the following steps must be followed and conditions met in order for Sika Sarnafil to consider continuing the coverage under the Sika Sarnafil warranty issued on the original roof assembly.

- Due to the significant roof top traffic during the installation of a PV system and the associated enhanced potential for leaks, the existing Sika Sarnafil warranty coverage will be suspended during the installation of a PV system.
- Sika Sarnafil must review and accept the type of PV system to be used solely for the purposes of considering whether to continue Sika Sarnafil's roof warranty following the installation of the PV System. Installation details and roof plans outlining the layout will also be required. Please allow a minimum of three (3) weeks for review. Sika Sarnafil does not assume any responsibility or liability regarding the PV System or the design thereof by reviewing the system for purposes of determining whether or not to continue the roof warranty following the installation of the PV system.
- An inspection of the roof prior to the PV system installation ($500.00) as well as an inspection after the PV system is installed ($500.00) must be conducted. Fees for both inspections shall be payable in advance prior to the commencement of the pre-installation inspection. These inspections will be conducted by a Sika Sarnafil Technical Representative and any repairs identified in these inspections must be completed by the original Sika Sarnafil Authorized Applicator who installed the roof assembly prior to the installation of the PV System with respect to the pre-installation inspection, and immediately following the installation of the PV System with respect to the post-installation inspection unless otherwise agreed to by Sika Sarnafil.
- The PV installer must confirm with the owners' architect or designer and Sika Sarnafil that the PV system's load (in combination with all relevant dead and live loads acting on the roof) does not exceed the membrane, cover board, insulation or other system components' load bearing capacity.

Sika Sarnafil, A Division of Sika Corporation, 100 Dan Road, Canton, MA 02021
Tel. 800-451-2504, Fax: 781-828-5365, www.sikacorp.com

Sarnafil®

- It is strongly recommended that the PV installer ensure with the owners' architect or designer that the roof assembly be able to resist the installation construction traffic, the dead load, and the increased maintenance traffic.
- The solar system should not impede drainage from the roof surface.
- Additional Sarnatred or Crossgrip walkways should be installed in areas of expected heavy foot traffic.