AJH DESIGN
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Architecture - Residential / Commercial / Industrial

ADDENDUM No. 1

Elmira Civil War Visitor Center

AJH Project # 25-086

Addendum Issue Date: 11/19/2025

Purpose: This Addendum forms part of the Contract Documents and modifies the original Bidding Documents dated November 10, 2025, as noted below.

Acknowledgement: Bidders must acknowledge receipt of any and all Addenda in the space provided on the Bid Form. Failure to do so may result in rejection of the Bid. All requirements of the bidding documents remain unchanged except as cited herein.

Clarifications: In addition to the work shown on the drawings and noted in the specifications, a brief clarification of some of the work follows:

A. General Comments/Clarifications:

1. There are no MWBE requirements for this project.
2. This bid is being publicly advertised.
3. Bid Bond will be 5% not 10%. See revised Instructions to Bidders.
4. Liquidated damages will not be required. See revised Bid Form and General Conditions.
5. The construction period has been extended to 180 days. See revised Special Conditions.
6. This is for a single prime contract. The owner is a non-profit, not a municipality; therefore, the project is exempt from Wicks Law.
7. This phase contains the base bid for the shell of the building and finishing as a vanilla box with the intent to obtain a certificate of occupancy, as well as the Alternates listed.
8. The project has received $600,000 in city and county grant funding.
9. Added specifications for the metal flat panel siding and metal shake siding. See attached specifications.
10. Modified metal roof specification to be 26 ga Ideal Roofing Junior H-F standing seam metal roof. See revised specification.
11. Fire protection is not required. See revised C-1.1.
12. Curtain walls were not showing on plans and elevations. Plans, Elevations, and schedule have been updated. See attached revised architectural drawings.
13. Glass types have been added to the door schedule. See attached A-7.1.
14. Railing details have been added to sheet A-4.1.

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15. Weather-exposed wood framing at the entries shall be PT Wood dimensional lumber.
16. Sconces at bathroom sinks and exterior entries have been added to the lighting plan and fixture schedule. See revised E-2.1 and E-3.1.
17. This phase will have the plumbing run to the kitchen sink location and be capped. Cabinets, counter, and sink are a future phase. See plumbing general note 2 on the plumbing plans.
18. Domestic water main sizing has been added. See revised P-1.1.

END OF ADDENDUM

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INSTRUCTIONS TO BIDDERS

1. USE OF SEPARATE BID FORMS

These Contract Documents include a complete set of bidding and Contract forms which are for the convenience of Bidders and are not to be detached from the Contract Documents or filled out, or executed. Separate copies of Bid forms are furnished for that purpose.

2. STATEMENT OF WORK

The Contractor shall furnish all supervision, labor, and materials, machinery, tools and equipment, and services, and complete work in an efficient and workmanlike manner.

3. INTERPRETATIONS OR ADDENDA

No oral interpretation will be made to any Bidder as to the meaning of the Contract Documents or any part thereof. Every request for such an interpretation shall be made in writing to the Owner. Any inquiry received prior to the date fixed for the opening of Bids will be given consideration. Every interpretation made to a Bidder will be in the form of an Addendum to the Contract Documents and when issued will be mailed to each person holding Contract Documents, but it shall be the Bidder's responsibility to make inquiry as to the Addenda issued. All such Addenda shall become part of the Contract Documents and all Bidders shall be bound by such Addenda, whether or not received by the Bidders.

Each bidder must inform himself fully of the conditions relating to the labor under which the work is now being or will be performed. Failure to do so will not relieve a successful Bidder of his obligations to furnish all material and labor necessary to carry out the provisions set forth in his Bid. Insofar as possible, the Contractor, in the carrying out of his work, must employ such methods or means as will not cause any interruption or interference with the work of any other Contractor. The Contractor shall schedule his work in cooperation with other Contractors and their schedules so that efficient and coordinated progress of all work occurs.

4. INSPECTION OF SITE

It is understood and agreed that the Contractor has, by careful examination, satisfied himself as to the nature and location of the work, the conformation of the ground, the character, quality and quantity of the materials to be encountered, the character of equipment and facilities needed preliminary to and during the prosecution of the work, the general and local conditions, and all other matters which can in any way affect the work under this Contract, including unfavorable conditions that may be encountered in the work, whether apparent upon surface inspection or disclosed only in the process of progressing the work. The Owner makes no representation as to the soil conditions to be encountered. No verbal agreement or conversation with any officer, agent or employee of the Owner, either before or after the execution of this Contract, shall affect or modify any of the terms or obligations herein contained.

5. AGREEMENT

The agreement is only to be signed by the winning bidder. The winning bidder will be notified of the award and will be given copies of the agreement to sign and return. Once returned Friends of the Elmira Civil War Prison Camp officials will inspect and sign the agreement upon which the notice to proceed will be given.

6. ALTERNATIVE BIDS

No alternative Bids will be considered unless specifically requested. Provide Add or Deduct to the alternates listed.

7. BIDS

a. All bids must be submitted on forms contained herein and shall be subject to all requirements of the Contract Documents including the INSTRUCTIONS TO BIDDERS. All Bids must be regular in every respect and no interlineations, excisions or special conditions shall be made or included in the Proposal Form by the Bidder.

b. Bid Documents including the Bid, the Bid Guaranty (if required), the Non-Collusion Affidavit and the Statement of Bidder's Qualifications (if requested) shall be enclosed in envelopes (outer and inner) both of which shall be sealed and clearly labeled with the project name, name of Bidder, and date and time of bid opening in order to guard against premature opening of the bid.

c. Any Bid on which there is an alteration of or departure from the Bid form hereto attached may be considered irregular and as such may be rejected as informal.

d. If the Contract is awarded it will be awarded to the Bidder on the basis of the Bid most favorable to the Owner. In most cases the Contract shall be awarded based upon the lowest bid. The Contract will require the completion of work according to the Contract Documents.

e. Each Bidder shall include in his Bid, in the appropriate spaces therefore, the estimated cost of performing the work including all items of overhead, and without credit for salvaged materials.

8. BID GUARANTY

a. The bid for each project shall be accompanied by a Bid Guaranty which shall not be less than five per cent (5%) of the total estimated cost of the work including all items of overhead. At the option of the Bidder, the guaranty may be a certified check, bank draft, or a Bid bond approved by The Friends of the Elmira Civil War Prison Camp. No Bid will be considered unless it is accompanied by the required guaranty. Certified checks or bank drafts must be payable to the order of The Friends of the Elmira Civil War Prison Camp. Cash deposits will not be accepted. The Bid guaranty shall insure the execution of the Agreement and the furnishing of the surety bond or bonds by the successful Bidder, all as required by the Contract Documents.

b. Revised Bids submitted before the opening of Bids, representing an increase in excess of two per cent (2%) of the original Bid, must have the Bid guaranty adjusted accordingly, otherwise the Bid will not be considered.

c. Certified checks or bank drafts, or the amount thereof, and Bid bonds, of unsuccessful Bidders will be returned as soon as practicable after the opening of Bids.

9. COLLUSIVE AGREEMENTS

a. Each bidder submitting a bid for any portion of the work contemplated by the documents on which bidding is based shall execute and attach thereto a certification to the effect that he has not colluded with any other person, firm, or corporation in regard to any bid submitted.

b. Before executing any subcontract, the successful bidder shall submit the name of any proposed subcontractor for prior approval.

10. STATEMENT OF BIDDER'S QUALIFICATIONS (if requested)

Each Bidder shall upon request of the Owner submit on the form furnished for that purpose, a copy of which is included in the Contract Documents, a statement of the Bidder's qualifications, his construction experience, and his organization and equipment available for the work contemplated; and when specifically requested by the Owner, a detailed financial statement. The Owner shall have the right to take such steps as it deems necessary to determine the ability of the Bidder to perform his obligations under the Contract, and the Bidder shall furnish the Owner all such information and data for this purpose as he may request. The right is reserved to reject any Bid where an investigation of the available evidence or information does not satisfy the Owner that the Bidder is qualified to carry out properly the terms of the Contract.

11. CORRECTIONS

Erasures or other changes in the Bid must be explained or noted over the signature of the Bidder.

12. TIME FOR RECEIVING BIDS

a. Bids received prior to the time of opening will be securely kept unopened. The officer whose duty it is to open them will decide when the specified time has arrived, and no Bid received thereafter will be considered; except that when a Bid arrives by mail after the time fixed for opening, but before the reading of other bids is completed, and it is shown to the satisfaction of the Owner that the non-arrival on time was due solely to delay in the mails for which the Bidder was not responsible, such Bid will be received and considered.

b. Bidders are cautioned that, while telegraphic modifications of Bids may be received as provided above, such modifications, if not explicit and if in any sense subject to misinterpretation, shall make the Bid so modified or amended, subject to rejection.

13. OPENING OF BIDS

At the time and place fixed for the opening of Bids, the Owner will cause to be opened and publicly read aloud every Bid received within the time set for receiving Bids, irrespective of any irregularities therein. Bidders and other persons properly interested may be present, in person or by representative.

14. WITHDRAWAL OF BIDS

Bids may be withdrawn on written request dispatched by the Bidder in time for delivery in the normal course of business prior to the time fixed for opening; provided that written confirmation or any telegraphic withdrawal over the signature of the Bidder is placed in the mail and postmarked prior to the time set for Bid. The Bid guaranty of any Bidder withdrawing his Bid in accordance with the foregoing conditions will be returned promptly.

15. AWARD OF CONTRACTS: REJECTION OF BIDS

a. The Contract will be awarded to the responsible Bidder complying with the conditions of the INVITATION FOR BIDS provided such Bid is reasonable and it is to the best interest of the Owner. The Owner, however, reserves the right to reject any and all Bids and to waive any informality in Bids received whenever such rejection or waiver is in its interest. The Bidder to whom the award is made will be notified at the earliest possible date.

b. The Owner reserves the right to consider unqualified to perform the Contract any Bidder who does not habitually perform with his own forces the major portions of his work.

c. The owner must award the contract within 30 days of the bid opening. Bidders have the right to withdraw their bids and receive the full amounts their bid bonds if the owner does not award the bid within 30 days.

16. EXECUTION OF AGREEMENT; PERFORMANCE AND PAYMENT BOND

a. Subsequent to the award within ten days after the prescribed forms are presented for signature, the successful Bidder shall sign and return to the Owner three (3) copies of the Agreement.

b. Having satisfied all conditions of award as set forth elsewhere in these documents, the successful Bidder shall, within the period specified in Paragraph "a" above, furnish a surety bond in a penal sum of not less than the amount of estimated cost of the work including all items of overhead, as set out in the accepted proposal as security for the faithful performance of the Contract, and for the payment of all persons, firms, or corporations to whom the Contractor may become legally indebted for labor, materials, tools, equipment, services of any nature, employed or used by him performing the work. Such bond shall bear the same date as, or date subsequent to, the date of the Agreement. The current power of attorney for the person who signs for any surety company shall be attached to such bond. This bond shall signed by a guaranty or surety company approved by the Owner's attorney.

c. The failure of the successful Bidder to execute such Agreement and to supply the required bond or bonds within seven days after the prescribed form are presented for signature, or

within period as the Owner may grant, based upon reasons, determined sufficient by the Owner, shall continue a default, and the Owner may either award the Contract to the lowest responsible Bidder or re-advertise for Bids, and may charge against the Bidder the difference between the amount for which a Contract for the work is subsequently executed, irrespective of whether the amount thus due exceeds the amount of the Bid Bond. If a favorable Bid is received by re-advertising, the defaulting Bidder shall have no claim for a refund.

17. WAGES AND SALARIES

a. Attention of Bidders is particularly called to the requirements concerning the payment of not less than the prevailing wage and salary rates specified in the Contract Documents and the condition of employment with respect to certain categories and classifications of employees.

b. The rates of pay set forth under New York State Prevailing Wage and Davis-Bacon are the minimum to be paid during the life of the Contract. It is, therefore, the responsibility of Bidders to inform themselves as to the local labor conditions such as the length of the work day and work week, overtime compensation, health and welfare contributions, labor supply and prospective changes or adjustment of rates.

18. EXEMPTIONS FROM SALES AND USE TAXES

The Municipality is exempt from paying State or local sales taxes on any materials, which it purchases. In computing their bids, Bidders shall not include the sales and compensating use taxes of New York State or County in New York State for any supplies or materials to be used by the Contractor for and on behalf of the Owner which are exempt from such taxes.

19. EQUAL EMPLOYMENT OPPORTUNITY

a. Attention of Bidders is particularly called to the requirement for ensuring that employees and applicants for employment are not discriminated against because of their race, creed, color, or natural origin.

b. Special attention is directed to the Affirmative Action requirements presented in this Contract, which shall apply, to the Contractor and any Subcontractor under the terms of this Contract.

20. APPROXIMATE ESTIMATE OF QUANTITIES

The approximate estimates will be used as a basis in determining the lowest Bidder. They are based upon an approximate estimate of the quantities of work to be performed, stated with as much accuracy as is possible in advance and must be understood as being approximate only; and the Contractor must not, at any time, after the execution of this Contract, dispute the accuracy of the estimate, or make any claims whatever against the Owner, its agents, or representatives based upon their alleged accuracy, or claim any misunderstanding in regard to the nature of the conditions, or the amount of work to be done, or the quantities of materials to be furnished under this Contract.

21. PREPARATION OF PROPOSAL

The Bidder shall state in the space allotted for the same on the proposal the gross sum in the manner hereafter described for which he proposes to furnish all material, labor and plant necessary for the completion of the work set forth in the drawings and specifications, together with a unit price for each of the separate items as called for.

Such gross sum shall be the sum of the products obtained by multiplying the quantities shown in the approximate estimates by the respective unit prices bid.

The unit prices and gross sum bid shall be indicated in words and by figures. In the case that the words and figures do not agree, the written words shall govern and the figures shall be disregarded.

The Bidder shall note that this proposal includes a form titled "Non-collusive Certification". This form must be properly filled out and submitted with the sealed bid. No proposal will be considered unless accompanied by this certificate.

22. FEDERAL REQUIREMENTS

The Bidder shall also complete the following federal requirements as part of the Bidding Documents.

1. Certification of Lobbying
2. Certification of Non-Debarment
3. Fair Trade Certification
4. Prevailing Wage Certification
5. Section 3 Compliance
6. Affirmative Action Plan
7. OSHA Requirements

BID FORM

GENERAL CONSTRUCTION

Proposal for: Project: Proposed Elmira Civil War Visitor Center

From: Name: _____

Address: _____

City/Zip: _____

Phone No. _____ Fax No. _____

To: Marty Chalk
Board of Directors
The Friends of the Elmira Civil War Prison Camp
PO Box 681
Elmira, NY 14902

Date: Tuesday, December 2nd , 2025

Time: 4:00 PM

The bidder, in compliance with the invitation to bid, has carefully examined the contract documents, together with all addenda thereto, all as prepared by AJH Design and being familiar with the various conditions affecting the work, agrees to furnish all materials, perform all labor and do all else necessary to complete all Proposed Elmira Civil War Visitor Center work in accordance with the intent of the contract documents for the Total Sum of:

BASE BID #1: Concrete foundation and pad. Wood framed walls with GWB interior and Metal board & batten siding exterior. Wood scissor trusses with metal roof. Underground plumbing for future phases and Electrical. Please provide cost breakdown as separate line items listed below:

BASE BID #1 TOTAL:

_____

_____ Dollars ($ _____)

ALTERNATE #1: Provide wood framed bathrooms with wood stairs and loft floor. Provide associated electrical, and mechanical units and ducting.

_____

_____ Dollars ($ _____)

ALTERNATE #2: Provide wood framed offices with loft floor above and associated electrical equipment.

_____

_____ Dollars ($_____)

PROJECT COMPLETION

In submitting the proposal, it is understood that the unrestricted right is reserved by the Owner to reject any and all proposals, or to waive any informalities or technicalities in said proposal, and it is agreed that this proposal may not be withdrawn for a period of sixty (60) days from the opening thereof.

The undersigned hereby certifies that this proposal is genuine, and not sham or collusive, or made in the interest or in behalf of any person, firm or corporation not herein named; that the undersigned has not directly or indirectly induced or solicited any Bidder to refrain from bidding, and that the undersigned has not in any manner, sought by collusion to secure for himself an advantage over any other Bidder.

We acknowledge the following Addendum(s) and/or Bulletin(s):

Addendum/Bulletin No. _____ Dated _____

Addendum/Bulletin No. _____ Dated _____

Addendum/Bulletin No. _____ Dated _____

Addendum/Bulletin No. _____ Dated _____

The date of this proposal is _____, 2025.

SIGNATURES:

When the bidder is an individual:

_____ _____(seal)
Witness Bidder

When the bidder is a partnership:

_____(seal)

_____ _____(seal)
Witness

_____(seal)

When the bidder is a Corporation:

_____

by: _____
President

Attest: _____
Secretary

(Corporate Seal)

GENERAL CONDITIONS – PART I

101. DEFINITIONS

Wherever used in any of the Contract Documents, the following meanings shall be given to the terms herein defined:

a. The term "Contract" means the Contract executed by the Friends of the Elmira Civil War Prison Camp and the Contractor, of which these GENERAL CONDITIONS, PARTS I & II, form a part.

b. The term "Owner" means the Friends of the Elmira Civil War Prison Camp which is authorized to undertake this Contract.

c. The term "Contractor" means the person, firm or corporation entering into the Contract with the Owner to perform the work.

d. The term "Project Area" means the Area specified on the Drawings within which the work is to be performed under this Agreement.

e. The term "Architect" means the Architect of the Owner, or anyone acting under him, duly authorized so to act.

f. The term "Contract Documents" means and shall include the following:

Executed Agreement, Addenda (if any), Invitation for Bids, Instructions to Bidders, Signed Copy of Bid, General Conditions Part I through III, Special Conditions, Technical Specifications, and Drawings (as listed in the Schedule of Drawings).

g. The term "Drawings" means the drawings listed in the SCHEDULE OF DRAWINGS.

h. The term "Technical Specifications" means that part of the Contract Documents which describes, outlines and stipulates the manner, methods and materials to be employed in the work.

i. The term "Addendum" or "Addenda" means any changes, revisions or clarifications of the Contract Documents which have been duly issued by the Owner to prospective Bidders prior to time of receiving bids.

102. SUPERINTENDENCE BY CONTRACTOR

a. Except where the Contractor is an individual and gives his personal superintendence to work, the Contractor shall have a competent superintendent, satisfactory to the Architect on the work at all times during working hours with full authority to act for him. The Contractor shall also provide an adequate staff for the proper coordination

and expediting of his work.

b. The Contractor shall not change superintendents on the job except for adequate cause.

c. The Contractor shall schedule the work, such schedule to be approved by the Architect. The Contractor shall be responsible for all work executed by him under the Agreement.

103. SUBCONTRACTS

a. The Contractor shall not execute an agreement, with any subcontractor or permit any subcontractor to perform any work included in this Contract, until he has received written approval of such subcontractor from the Architect.

b. No proposed subcontractor shall be disapproved by the Architect except for cause.

c. The Contractor shall be fully responsible for the acts and omissions of his subcontractors, and of persons either directly or indirectly employed.

d. The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to require compliance by each subcontractor with the applicable provisions of this Contract.

e. Nothing contained in this Contract shall create any contractual relationship between any subcontractor and the Owner.

104. OTHER CONTRACTS

The Owner may award, or may have awarded, other Contracts for additional work, and the Contractor shall cooperate fully with such other Contractors, by scheduling his own work with that to be performed under other Contracts as may be directed by the Architect. The Contractor shall not commit or permit any act which will interfere with the performance of work by any other Contractor as scheduled.

105. PROGRESS SCHEDULE AND NOTICE TO PROCEED

a. Progress Schedule

The Contractor shall promptly submit to the Architect, a carefully considered progress schedule showing the proposed dates of starting and of completing each of the major subdivisions of the work. The schedule shall also show percentage of completion on the first of each month and shall show that all work is to be completed within the Contract time.

b. Notice to Proceed

After execution of the agreement, a Notice to Proceed will be issued to the

Contractor which shall fix the starting and completion dates therefore, in accordance with the Contract time established in the "SPECIAL CONDITIONS" contained herein.

106. PAYMENTS

1a. The Contractor shall periodically, in accordance with the terms of the contract, submit to the Owner a requisition for a progress payment for the work performed and/or materials furnished to the date of the requisition less any amount previously paid to the Contractor. The Owner shall in accordance with the terms of the Contract approve and promptly pay 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 retained amount as hereafter described. The Owner shall retain not more than five percentum of each progress payment to the Contractor except that the Owner may retain in excess of five percentum but not more than ten percentum of each progress payment to the Contractor provided that there are not requirements by the Owner for the Contractor to provide a performance bond and a labor and material bond both in the full amount of the Contract. The Owner shall pay, upon requisition from the Contractor, for materials pertinent to the project which have been delivered to the site or offsite by the Contractor and/or subcontractor and suitably stored and secured as required by the Owner and the Contractor provided, the Owner may limit such payment to materials in short and/or critical supply and materials specially fabricated for the project each as defined in the Contract. When the work or major portions thereof as contemplated by the terms of the Contract are substantially completed, the Contractor shall submit to the Owner a requisition for payment of the remaining amount of the Contract balance. Upon receipt of such requisition the Owner shall approve and promptly pay 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 Owner shall promptly pay, upon receipt of a requisition, for these items less an amount necessary to satisfy any claims, liens or judgments against the Contractor which have not been suitably discharged. Any claims, liens and judgments referred to in this section shall pertain to the project and shall be filed in accordance with the terms of the applicable Contract and/or applicable laws.

1b. As long as any lawful or proper direction concerning the work or material given by the Owner or Architect, or their representatives, shall remain uncomplied with, the Contractor shall not be entitled to have any estimate made for the purpose of payment, nor shall any estimate be rendered on account of work done or material furnished until such lawful or proper direction has been fully and satisfactorily complied with.

2. Payment by Contractors to Subcontractor. Within fifteen calendar days of the receipt of any payment from the Owner, the Contractor shall pay each of his subcontractors and materialmen the proceeds from the payment representing the value of the work

performed and/or materials furnished by the subcontractor and/or materialmen as reflected in the payment from the Owner less an amount necessary to satisfy any claims, liens or judgements against the subcontractor or materialmen which have not been suitably discharged and less any retained amount as hereafter described. The Contractor shall retain not more than five percentum of each payment to the subcontractor and/or materialmen except that the Contractor may retain in excess of five percentum but not more than ten percentum of each payment to the subcontractor provided that prior to entering into a subcontract with the Contractor, the subcontractor is unable or unwilling to provide a performance bond and a labor and material bond both in the full amount of the subcontract at the request of the Contractor. However, the Contractor shall retain nothing from those payments representing proceeds owed the subcontractor and/or materialmen from the Owner's payments to the Contractor for the remaining amounts of the contract balance as provided in subdivision one of this section. Within fifteen calendar days of the receipt of payment from the Contractor, the subcontractor and/or materialmen shall pay each of his subcontractors and materialmen in the same manner as the Contractor has paid the subcontractor. Nothing provided herein shall create any obligation on the part of the Owner or to see the payment of any moneys to any subcontractor or materialmen from any contractor nor shall anything provided herein serve to create any relationship in contract or otherwise, implied or expressed, between the subcontractor or materialman and the Owner.

3. In the event that the terms of payment on a public works project, as provided in this section, are preempted or superseded as a result of the provisions of any federal statute, regulation or rule applicable to the project, the terms of this section shall not apply.

4. <u>Additional Requirements</u>

A. After the final inspection and acceptance by the Architect of all work under the Contract, the Contractor shall prepare his requisition for final payment and submit it to the Architect for approval.

B. There shall be retained from the final payment or from any payments due the Contractor:

(1) All amounts which may be expended by the Owner for work done or materials furnished in carrying out any of the work done under the Contract which the Contractor has failed to do to the satisfaction of the Architect.

C. The Architect shall require with the final payment or with any payments due the Contractor, a Contractor's Certificate and Release and/or receipts from any or all persons performing work and supplying materials or services to the Contractor or any subcontractor, if this is deemed necessary to protect the Owner's interest. The Contractor shall obtain warranties and guarantees required for specific products, equipment or systems, executed in duplicate by responsible sub-contractors,

suppliers, and manufacturers, within ten (10) days after completion of the applicable item of work.

The Contractor shall also submit a set of marked, reproducible Record Drawings together with two (2) sets of black line prints of the reproducible drawings to the Owner. Submit documents with transmittal letter in duplicate, containing date, project title, Contractor's name(s), address and telephone number, list of documents, and signature of Contractor.

D. The Architect shall also require with the final payment, a Maintenance Bond for an amount of not less than 100% of the final Contract cost and for duration of one year from the date of the final payment. Said bond shall insure that repairs are made to any parts of the work which are found to be faulty because of poor materials or workmanship, or for any other reason.

E. The acceptance by the Contractor for the final estimate shall be, and shall operate as, a release to the Owner from all claims and liabilities to the Contractor for anything done and furnished for, or relating to, the work, or for any act, neglect, fault or default of the Owner, or of any person relating to or affecting the work.

107. CHANGES IN THE WORK

a. The Owner may make changes in the scope of the work required to be performed by the Contractor by making additions thereto, or by omitting work therefrom, without invalidating the Contract, and without relieving or releasing the Contractor from any of his obligations under the Contract or any guarantee given by him pursuant to the Contract provisions, and without affecting the validity of the guaranty bonds, and without relieving or releasing the surety or sureties of said bonds provided that the total net amount of the changes does not change the contract amount by more than 25%. All such work shall be executed under the terms of the original Contract unless it is expressly provided otherwise.

b. Except for the purpose of affording protection against any emergency endangering life or property, the Contractor shall make no change in the work, provided any extra or additional work, or supply additional labor, services or materials beyond that actually required for the execution of the Contract, unless in pursuance of a written order from the Architect authorizing the change. No claim for an adjustment of the Contract Price will be valid unless so ordered.

c. If applicable unit prices are contained in the Agreement the Architect shall order the Contractor to proceed with desired changes in the work, the value of such changes to be determined by the measured quantities involved and the applicable unit prices; provided that the net value of all changes does not increase or decrease the original total amount shown in the Agreement by more than twenty-five per cent (25%).

d. If applicable unit prices <u>are not</u> contained in the Agreement or if the total net changes increase or decrease the total Contract Price more than twenty-five per cent (25%)

the Architect shall before ordering the Contractor to proceed with desired changes, request an itemized proposal from him covering the work involved in the change after which the procedure shall be as follows:

1. If the proposal is acceptable the Architect will prepare the change order in accordance herewith for acceptance by the Contractor and

2. If the proposal is not acceptable, and prompt agreement between the two parties cannot be reached, the Architect may order the Contractor to proceed with the work on a cost-plus-limited basis. A cost-plus-limited basis is defined as the net cost of the Contractor's labor, materials and insurance plus fifteen percent (15%) of said net cost to cover overhead and profit, the total cost not to exceed a specified limit.

e. Each change order shall include in its final form:

1. A detailed description of the change in the work;

2. The Contractor's proposal (if any) or a confirmed copy thereof;

3. A definite statement as to the resulting change in the Contract Price and/or time and;

4. The statement that all work involved in the change shall be performed in accordance with Contract requirements except as modified by the change order.

108. CLAIMS FOR EXTRA COST

a. If the Contractor claims that any instructions by Drawings or otherwise involve extra cost or extension of time, he shall, within ten days after the receipt of such instructions, and in any event before proceeding to execute the work, submit his protest thereto in writing to the Architect, stating clearly and in detail the basis of his objections. No such claim will be considered unless so made.

b. Any discrepancies which may be discovered between actual conditions and those represented by the Drawings shall at once be reported to the Architect and work shall not proceed, except at the Contractor's risk, until written instructions have been received by him from the Architect.

c. If, on the basis of the available evidence, the Architect determines that an adjustment of the Contract Price and/or time is justifiable, the procedure shall then be as provided for in section - CHANGES IN THE WORK under GENERAL CONDITIONS, PART I.

109. TERMINATION, AND DELAYS

a. Termination of Contract. If the Contractor refuses or fails to execute the work with such diligence as will insure its completion within the time specified in these Contract Documents plus any extension thereof as provided in these Contract Documents, the Architect, by written notice to the Contractor, may terminate the Contractor's right to proceed with the work. Upon such termination, the Owner may take over the work and prosecute the same to completion, by contract or otherwise, and the Contractor and his sureties shall be liable to the Owner for any additional cost incurred by the Owner in its completion of the work. If the Contractor's right to proceed is terminated, the Owner may take possession of and utilize in completing the work such materials, tools, equipment and plant as may be on the site of the work and necessary therefore.

b. The Owner reserves the right to utilize the services of the next lowest available and responsible Bidder if, in the opinion of the Owner, the work or any portion thereof has not progressed at a satisfactory rate, or if any portion of the work is being done in an unsatisfactory manner and the Owner does not wish to terminate the services of the original Contractor, the next lowest available and responsible Bidder shall then progress the remaining work as a supplement to the original Contractor at the direction of the Architect.

c. Architecting Charges. When the work embraced in the Contract is not completed on or before the date as stipulated in TIME FOR COMPLETION under SPECIAL CONDITIONS, architecting and construction review expenses incurred by the Owner upon the work, from the completion date fixed by the above, to the completion date of the work, will be charged to the Contractor. Architecting and construction review expenses will be computed at the rate of two-hundred fifty dollars ($250.00) per day per man for each and every man and day the Architect needs to furnish architecting and construction review or both at the job site.

110. ASSIGNMENT OR NOVATION

In accordance with the provisions of Section 109 of the General Municipal Law, the Contractor is hereby prohibited from assigning, transferring, conveying, subletting or otherwise disposing of this Contract, or of his right, title, or interest therein, or his power to execute this Contract, without the previous consent in writing of the Owner.

111. DISPUTES

a. All disputes arising under this Contract or its interpretation whether involving law or fact or both, or extra work, and all claims for alleged breach of contract shall within (10) ten days of commencement of the dispute, be presented by the Contractor to the Architect for decision. All papers pertaining to claims shall be filed in quadruplicate. Such notice need not detail the amount of the claim but shall state the facts surrounding the claim in sufficient detail to identify the claim together with its character and scope. In the meantime, the Contractor shall proceed with the work as directed. Any claim not presented within the time limit specified within this paragraph shall be deemed to have been waived, except that if the claim is of a

continuing character and notice of the claim is not given within ten (10) days of its commencement, the claim will be considered only for a period commencing ten (10) days prior to the receipt by the Architect of notice thereof.

b. The Contractor shall submit in detail his claim and his proof thereof. Each decision by the Owner will be in writing and will be mailed to the Contractor by registered mail, return receipt requested.

c. If the Contractor does not agree with any decision of the Owner, he shall in no case allow the dispute to delay the work but shall notify the Owner promptly that he is proceeding with the work under protest and he may then accept the matter in question from the final release.

112. TECHNICAL SPECIFICATIONS AND DRAWINGS

Anything mentioned in the Technical Specifications and not shown on the Drawings, or shown on the Drawings and not mentioned in the Technical Specifications, shall be of like effect as if shown on or mentioned in both. In case of difference between Drawings and Technical Specifications, the Technical Specifications shall govern. In case of any discrepancy in Drawings or Technical Specifications, the matter shall be immediately submitted to the Architect, without whose decision said discrepancy shall not be adjusted by the Contractor, save only at his own risk and expense.

113. REQUESTS FOR SUPPLEMENTARY INFORMATION

It shall be the responsibility of the Contractor to make timely requests of the Architect for any additional information not already in his possession which should be furnished by the Architect under the terms of this Contract, and which he will require in the planning and execution of the work. Such requests shall be submitted in writing from time to time as the need is approached, but each shall be filed in ample time to permit appropriate action to be taken by all parties involved so as to avoid delay. The Contractor shall be fully responsible for any delay in his work or of others arising from his failure to comply with the provisions of this Section.

114. PERMITS AND CODES

a. The Contractor shall give all notices required by and comply with, all applicable laws, ordinances and codes of the Municipality and of New York State. All work shall comply with all applicable ordinances, and codes including all written waivers. Before beginning the work, the Contractor shall examine the Drawings and Technical Specifications for compliance with applicable ordinances and codes, and shall immediately report any discrepancy to the Architect. Where the requirements of the Drawings and the Technical Specifications fail to comply with such applicable ordinances or codes, the Architect will adjust the contract by Change Order to conform to such ordinances or codes (unless waivers in writing covering the difference have been granted by the governing body or department) and make appropriate adjustment in the Contract Price. Should the Contractor fail to observe

the foregoing provisions and do work at variance with any applicable ordinance or code including any written waivers (notwithstanding the fact that such methods are in compliance with the Technical Specifications) the Contractor shall correct the methods of doing such work without cost to the Owner but a change order will be issued to cover only the excess cost the Contractor would have been entitled to receive if the change had been made before the Contractor commenced work on the items involved.

b. The Contractor shall, at his own expense, secure and pay to the appropriate department of the Municipality the fees or charges for all permits for water, sidewalks, pavement cuts, and repaving of streets and sidewalks and all other permits necessary.

c. The Contractor shall comply with the applicable laws and ordinances governing the disposal of materials, debris, rubbish and trash on or off the Project Area, and shall commit no trespass on any public or private property in any operation due to or connected with the Project.

115. CARE OF WORK

a. The Contractor shall be responsible for all damages to person or property that occur as a result of his fault or negligence in connection with the prosecution of the work and shall be responsible for the proper care and protection of all work performed until completion and final acceptance, whether or not the same has been covered in whole or in part by payments made by the Owner.

b. In an emergency affecting the safety of life or property, on or adjoining the site, the Contractor shall act, either at his own discretion or as instructed by the Architect, to prevent such threatened loss or injury. Any compensation claimed by the Contractor on account of such emergency work will be determined by the Architect as provided in the section entitled, CHANGES IN THE WORK under GENERAL CONDITIONS, PART I.

c. The Contractor shall avoid damaging sidewalks, street, curbs, pavement, utilities or any other property (except that which is to be replaced or removed) either on or adjacent to the site. He shall repair, at his own expense and in a manner satisfactory to the Architect, any damage thereto caused by his operations.

116. ACCIDENT PREVENTION

a. The Contractor shall exercise proper precaution at all times for the protection of persons and property and shall be responsible for all damages to persons or property, either on or off the site, which occur as a result of his fault or negligence in connection with the prosecution of the work. The safety provisions of applicable laws and buildings and construction codes shall be observed and the Contractor shall take or cause to be taken such additional safety and health measures as the Architect may determine to be reasonably necessary. Machinery, equipment and all hazards

shall be guarded in accordance with the safety provisions of the "Manual of Accident Prevention in Construction" published by the Associated General Contractors of America, Inc., to the extent that such provisions are not in conflict with applicable local laws.

b. The Contractor shall maintain an accurate record of all cases of death, occupational disease, and injury requiring medical attention or causing loss of time from work, arising out of and in the course of employment on work under the Contract. The Contractor shall promptly furnish the Architect with reports concerning these matters.

c. The Contractor shall indemnify and save harmless the Owner, the Architect, and each of their officers, agents or employees from any claims for damages resulting from personal injury and/or death suffered or alleged to have been suffered by any person as a result of any work conducted under this Contract.

117. SANITARY FACILITIES

The Contractor shall furnish, install and maintain ample sanitary facilities for the workmen. As the needs arise, a sufficient number of enclosed temporary toilets shall be conveniently placed as required by the sanitary codes of the Municipality and State Governments. Drinking water shall be provided from an approved source, so piped or transported as to keep it safe and fresh and served from single service containers or satisfactory types of sanitary drinking stands or fountains. All such facilities and services shall be furnished in strict accordance with existing and governing health regulations.

118. USE OF PREMISES

a. The Contractor shall confine his equipment, storage of materials and operations to the limits prescribed by ordinances or permits, or as may be directed by the Architect and shall not unreasonably encumber the Project Area.

b. The Contractor shall comply with all reasonable instructions of the Architect and the ordinances and codes of the Municipality regarding signs, advertising, traffic, fires, explosives, danger signals, barricades, and fire prevention.

119. REMOVAL OF DEBRIS, CLEANING, ETC.

All rubbish and debris found on the Project Area at the start of the work as well as that resulting from the construction activities or deposited on the site by others during the duration of the Contract shall be removed and legally disposed of by the Contractor who shall keep the Project Area and public rights-of-way reasonably clear at all times. Upon completion of the work, the Contractor shall remove all temporary construction, equipment, trash and debris of all kinds leaving the entire Project Area in a neat condition.

120. REVIEW BY OWNER

The Owner, its authorized representatives and agents, shall at all times, have access to and be permitted to observe and review all work, materials, equipment, payrolls, personnel records, employment conditions, and other relevant data and records pertaining to this Contract, provided, however, that all instructions and approvals with respect to the work will be given to the Contractor only by the Owner through its authorized representatives or agents.

121. FINAL INSPECTION

When the work on the project is substantially completed, the Contractor shall notify the Architect in writing that the work will be ready for final inspection on a definite date which shall be stated in such notice. The notice shall bear the signed concurrence of the representative of the Architect having charge of inspection and shall be given at least ten (10) days prior to the date stated for final inspection. If the Architect determined that the work on the project is as represented, it will make the arrangements necessary to have final inspection commenced on the date stated in such notice, or as soon thereafter as is practicable.

122. DEDUCTION FOR UNCORRECTED WORK

If the Architect deems it not expedient to require the Contractor to correct work not done in accordance with the Contract Documents an equitable deduction from the Contract Price will be made by agreement between the Contractor and the Architect, and subject to settlement, in case of dispute, as herein provided.

123. INSURANCE

The Contractor shall comply with insurance requirements of AIA Document A201, as set forth herein:

a. Contractor's Liability Insurance

(1) The Contractor shall purchase from and maintain in a company or company lawfully authorized to do business in the jurisdiction in which the Project is located such insurance as will protect the Contractor from claims set forth below which may arise out of or result from the Contractor's operations under the Contract and for which the Contractor may be legally liable, whether such operation be by the Contractor or by the Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

- Claims under workers' or workmen's compensation, disability benefits, or other similar employee benefits acts which are applicable to the Work to be performed;

- Claims for damage because of bodily injury, occupational sickness or disease, or death of the Contractor's employees;

- Claims for damages because of bodily injury, sickness or disease, or death of any person other than the Contractor's or Subcontractor's employees;

- Claims for damages insured by usual personal injury liability coverage which are sustained (1) by a person as a result of an offense directly or indirectly related to the employment of such person by the Contractor, or (2) by another person;

- Claims for damages, other than to the Work itself because of injury to or destruction of tangible property, including loss of use resulting therefrom;

- Claims for damages because of bodily injury, death of a person or property damage arising out of ownership, maintenance or use of a motor vehicle; and

- Claims involving contractual liability insurance applicable to the Contractor's obligation under Section 127a-h.

(2) The insurance required by Section 123a. (1) shall be written for not less than limits of liability specified in the Contract Documents or required by law, whichever coverage is greater. Coverages, whether written on an occurrence or claims-made basis, shall be maintained without interruption from date of commencements of the Work until the date of final payment and termination of any coverage required to be by maintained after final payment.

(3) Certificates of Insurance acceptable to the Owner shall be filed with the Owner prior to the commencement of work. These Certificates and the insurance policies required under this Section 121 shall contain a provision that coverages afforded under the policies shall not be canceled or allowed to expire until at least 30 days' prior written notice has been given to the Owner by certified mail.

If any of the foregoing insurance coverages are required to remain in force after final payment and are reasonably available, an additional certificate evidencing continuation of such coverage shall be submitted prior to the final payment under Section 121. Information concerning reduction of coverage shall be furnished by the contractor with reasonable promptness in accordance with the Contractor's information and belief.

b. Owner's Liability Insurance

The Owner shall be responsible for purchasing and maintaining the Owner's usual liability insurance. Optionally, the Owner's may purchase and maintain other insurance for self-protection against claims which may arise from operations under the Contract. The Contractor shall not be responsible for purchasing and maintaining this optional Owner's liability insurance unless specifically required by the Contact Documents. **The Owner's Protective Liability shall include the Friends of the Elmira Civil War Prison Camp.**

c. Property Insurance

(1) Unless otherwise provided, the Owner shall purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Projects is located, property insurance in amount of the initial Contract Sum as well as subsequent modification thereto for the entire Work at the site on a replacement cost basis without voluntary deductibles. Such property insurance shall be maintained, unless otherwise proved in the Contract Documents or otherwise agreed in writing by all persons and entities who are beneficiaries of such insurance, until final payment has been made or until no person or entity other than the Owner has an insurable interest in the property required by this section, whichever is earlier. The insurance shall include interest of the Owner, the Contractor, Subcontractors, and Sub-subcontractors in the Work.

(2) Property insurance shall be on all-risk policy form and shall insure against the perils of fire and extended coverage and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, false-work, temporary buildings and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for Architect's services and expenses required as a result of such insured loss. Coverage for other perils shall not be required unless otherwise provided in the Contract Documents.

(3) If the Owner does not intend to purchase such property insurance required by the Contract and with all of the coverages in the amount described above, the Owner shall so inform the Contractor in writing prior to commencement of the Work. The Contractor may then affect insurance which will protect the interests of the Contractor, Subcontractors, and Sub-subcontractors in the Work, and by appropriate Change in Work, the cost thereof shall be charged to the Owner. If the Contractor is damaged by the failure or neglect of the Owner to purchase or maintain insurance as described above, without so notifying the Contractor, then the Owner shall bear all reasonable costs properly attributable thereto.

(4) If the property insurance requires minimum deductibles and such deductibles are identified in the Contract Documents, the Contractor shall pay costs and covered because of such deductibles. If the Owner or insurer increases the required minimum deductibles above the amounts so identified or if the Owner elects to purchase this insurance with voluntary deductibles amounts, the Owner shall be responsible for payment of the additional costs not covered because of such increase or voluntary deductibles. If deductibles are not identified in the Contract Documents, the Owner pay costs not covered because of deductibles.

(5) Unless otherwise provided in the Contract Documents, this property insurance shall cover portions of the Work stored off the site after written approval of the Owner at the value established in the approval, and also portions of the Work in transit.

(6) Boiler and Machinery Insurance. The Owner shall purchase and maintain boiler and machinery insurance required by the Contract Documents or by law, which shall specifically cover such insured objects during installation and until final acceptance by the Owner; this insurance shall include interests of the Owner, Contractor, Subcontractors, and Sub-subcontractors in the Work, and the Owner and Contractor shall named insured.

(7) Loss of use insurance. The Owner, at the Owner's option, may purchase and maintain such insurance as will insure the Owner against loss of use of the Owner's property due to fire other hazards, however caused. The Owner waives all rights of action against the Contractor for loss of use of the Owner's property, including consequential losses due to fire and other hazards however caused.

(8) If the Contractor requests in writing that insurance for risks other than those described therein or for special hazards be included in the property insurance policy, the Owner shall, if possible include such insurance, and the cost thereof shall be charged to the Contractor by appropriate Change Order.

(9) If during the Project Construction period the Owner insures properties, real or personal or both, adjoining to the site by property insurance under policies separate from those insuring the Project, or if after final payment property insurance is to be provided on the completed Project through a policy or policies other than those insuring the Project drawing the construction period, the Owner shall waive all rights in accordance with the terms of Section 123.c.(11) for damages caused by fire or other perils covered by this separate property insurance. All separate policies shall provide this waiver of subrogation by endorsement or otherwise.

(10) Before an exposure to loss may occur, the Owner shall file with the Contractor a copy of each policy that includes insurance coverages required by Section 123c. Each policy shall contain all generally applicable conditions, definitions, exclusions and endorsements related to this Project. Each policy shall contain a provision that the policy will not be canceled or allowed to expire until at least 30 days' written notice has been given to the Contractor.

(11) Waivers of Subrogation. The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents and employees, each of the other, and (2) the Architect, Architect's consultants, separate contractors described in Article 6, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire other perils to the extent covered by property insurance obtained pursuant to Section 123c. or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the Owner as fiduciary. The Owner or Contractor, as appropriate, shall require of the Architect, Architect's consultants, separate contractors described in Article 6, if any and the subcontractors, sub-subcontractors, agents, and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though the person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had insurable interest in the property damaged.

(12) A loss insured under Owner's property insurance shall be adjusted by the Owner as fiduciary and made payable to the Owner as fiduciary for the insures, as their interests may appear, subject to requirements of any applicable mortgage clause and of Section 123.c.(14). The Contractor shall pay Subcontractors their just shares insurance proceeds received by the Contractor, and by appropriate agreements, written where legally required for validity, shall require Subcontractor to make payments to their Sub-subcontractors in similar manner.

(13) If required in writing by a party in interest, the Owner as fiduciary shall, upon occurrence of any insured loss, give bond for proper performance of the Owner's duties. The cost of required bonds shall be charged against proceeds received as fiduciary. The Owner shall deposit in a separate account proceeds so received, which the Owner shall distribute in accordance with such agreements as the parties in interest may reach, or in accordance with an arbitration award in which case the procedure shall be provided as Paragraph 4.5.[1] If after such loss no other special agreement is made, replacement of damaged property shall be covered by appropriate Change Order.

(14) The Owner as fiduciary shall have power to adjust an settle a loss with insurers unless one of the parties in interest shall object in writing within five days after occurrence of loss to the Owner's exercise of this power, if such objection be made, arbitrators shall be chosen as provided in Paragraph 4.5.[2] The Owner as fiduciary shall, in that case, make settlement with insurers in accordance with directions of such arbitrators. If distribution of insurance proceeds by arbitration is required, the arbitrators will direct such distribution.

To fullest extent permitted by law, the Owner shall indemnify and fold harmless the Contractor, Architect, Architect's consultants, and agents and employees of any of them from and against claims, damages losses and expenses, including but not limited to attorneys fees, arising out of or resulting from performance of the Work in the affected area if in fact the material is asbestos or polycholorinated biphenyl (PCB) and has not been rendered harmless, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself) including loss of use resulting therefrom, but only to the extent caused whole or in part by negligent acts or missions of the Owner, anyone directly or indirectly employed by the Owner or anyone for whose acts the Owner may be liable, regardless of whether or not such claim, damage, loss or expense is caused in part by party indemnified hereunder. Such obligation shall not be construed to be negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in Subparagraph 101.4.

The limits and types of insurance shall be indicated in Exhibit A with samples of AIA Document G612, Part B and Certificate of Insurance.

In addition, the policies shall contain the following provisions:

1. The presence of the Owner's architects or their representative on the site of the work shall not invalidate the policy or insurance.

2. The policy shall not be invalidated by reason of any violation of any of the terms of any policy issued to the Contractor.

All insurance required to be procured and maintained as foresaid must be procured from Insurance Companies approved by the Owner and authorized to do business in New York State.

If any item any of the above required insurance policies should be canceled, terminated or modified so that the insurance is not in effect as required above, then, if the Owner shall so direct the Contractor shall suspend performance of work covered in the Contract. If said work is so suspended, no extension of time shall be due on account thereof. If said work is not suspended then the Owner may at its operation, obtain insurance affording coverage equal to that above required the cost of such insurance to be payable by the Contractor to the Owner.

The Owner, at his own cost and expense, may procure and maintain such insurance as will, in its opinion, protect it and others from contingent liability for damages because of bodily injury, including death, and property damage which may arise from operations under this Contract.

Neither the procurement nor the maintenance of any type of insurance by the Owner

or the Contractor shall in any way be construed or be deemed to limit, discharge, waive or release the Contractor from any of the obligations and risks imposed upon him by the Contract or to be a limitation on the nature or extent of such obligations and risks.

"The Contractor agrees to indemnify and save harmless the Owner, agents and employees, from and against all loss or expense (including costs and attorney's fees) by reason of liability imposed by law upon the Owner, for damages because of bodily injury, including death resulting there from, sustained by any person or persons or on account of damage to property, including loss of use thereof, whether caused by or contributed to by said Owner, its agents, employees, or others."

124. GENERAL GUARANTY

Neither the final certificates of payment nor any provision in the Contract Documents nor partial or entire use or occupancy of the premises by the Owner shall constitute an acceptance of work not done in accordance with the Contract or relieve the Contractor of liability in respect to any express warranties or responsibility for failure to comply with terms of Contract Documents. The Architect will give notice of observed noncompliance with reasonable promptness.

125. RISK OF LOSS

The Owner assumes no responsibility for the conditions of the Project Area nor for its continuance in the condition existing at the time of issuance of the Invitation for Bids thereafter. No adjustment of Contract Price or allowance for any change in conditions which may occur after the Invitation for Bids has been issued, will be made.

126. LIVE UTILITIES AND OTHER PROPERTY

a. The Contractor shall assume all responsibility for damage attributable to him to any property upon, or passing through, the Project Area, but excluded from the work or not owned by the Owner, such as utility lines, surface improvements, or like items.

b. If disconnections of underground utility services are required to be made in public thoroughfares, the Contractor shall comply with all local requirements and regulations respecting the barricading of streets, the removal and restoration of pavement, and other pertinent matters.

3. The Contractor shall develop and make all detail surveys necessary for construction, including slope stakes, batter boards, stakes for pile locations and other working points, lines and elevations. It will be the Contractor=s responsibility to engage competent workmen to payout the details of the construction work. No separate payment will be made for this time of work, the cost of such work is to be included in the various unit prices of the lump sum price bid for the construction project. The

Contractor shall have the responsibility to carefully preserve bench marks, reference points and stakes, and in the case of destruction thereof by the Contractor or resulting from his negligence, the Contractor shall be charged with the expense and damage resulting therefrom and shall be responsible for any mistakes that may be caused by the unnecessary loss or of such bench marks, references points and stakes.

127. RISKS ASSUMED BY THE CONTRACTOR

a. The Contractor solely assumes the following distinct and several risks whether they arise from acts or omissions, (whether negligent or not and whether supervisory or otherwise) of the Contractor, the Owner, the Architect, or his consultants, and each of their officers, agents or employees, of third persons or from any other cause, including unforeseen obstacles and difficulties which may be encountered in the prosecution of the work covered by the Contract, whether such risks are within or beyond the control of the Contractor and whether such risks involve a legal duty, primary or otherwise, imposed upon the Owner, the Architect or his consultants, except that the Contractor shall not be responsible for risks which arise from affirmative acts of the Owner, the Architect or his consultants committed with intent to cause the loss, damage and injuries herein below set forth:(1) The risk of loss or damage, direct or indirect, of whatever nature, to the work covered by the Contract or to any plant, equipment, tools, material or property furnished, used, installed or received by the Owner or by the Contractor or any subcontractor, materialman or workman or workmen performing services or furnishing materials for the work covered hereunder. In the event of such loss or damage, the Contractor shall forth with repair, replace and/or make good any such loss or damage without cost to the Owner.

(2) The risk of claims, just or unjust by third persons against the Contractor, the Owner, Architect, or his consultants, and each of their officers, agents or employees, on account of bodily injury (including wrongful death) and property damage (direct or consequential), and loss or damage of any kind whatsoever arising or alleged to arise out of or as a result of the work covered by the Contract (whether actually caused by or resulting from the performance of the Contract) or out of or in connection with the Contractor's operations or presence at or in the vicinity of the construction site, whether such claims are made and whether such injury, damage and loss is sustained at any time both before and after the final acceptance by the Owner of all work covered by the Contract.

b. The Contractor shall indemnify and save harmless the Owner, Architect and his consultants, and each of their officers, agents or employees, against all claims described above and for all costs and expenses incurred by them in the defense, settlement or satisfaction thereof, including attorneys' fees and court costs. If so directed, the Contractor shall at his own expense, defend against such claims.

c. The Contractor's obligations under this Section 127 shall not be deemed waived, limited or discharged by the enumeration or procurement of any insurance for

liability for damages.

d. Neither the final acceptance of the work to be performed hereunder, nor the making of any payment shall release the Contractor from his obligations under this Section 127. The enumeration elsewhere in the Contract of particular risks assumed by the Contractor or particular claims for which he is responsible shall not be deemed to limit the effect of the provisions of this Section 127 or to imply that he assumes or is responsible for only risks or claims of the type enumerated; and neither the enumeration in this Section 127 nor the enumeration elsewhere in the Contract of particular risks assumed by the Contractor or particular claims for which he is responsible shall be deemed to limit the risks which the Contractor would assume or the claims for which he would be responsible in the absence of such enumeration.

e. The obligations of the Contractor under this Section 127 shall not extend to the liability of the Architect or his consultants, their officers, agents or employees for property damage or bodily injuries arising out of the rendering of or the failure to render professional services by such insured or indemnitee, including:

(1) The preparation or approval of maps, plans, opinions, reports, surveys, designs or specifications and

(2) Supervisory, inspection or architecting services.

f. The obligations of the Contractor under this Section 127 shall not extend to the liability of the Owner, Architect, their consultants, officers, agents ad employees for property damage or bodily injury arising out of the sole negligence of the indemnitee.

g. It is intended by this Section 127 that the Contractor's responsibility to indemnify the Owner, Architect, his consultants and their officers, agents or employees, is in addition to all other obligations of the Contractor set forth in the Contract Documents and should this Section 127 be deemed inconsistent for any reason then this Section 127 will supersede in those instances.

h. No provision of this Contract which, directly or indirectly, imposes upon the Contractor the responsibility, in whole or in part, for preventing injury to person or damage to property, or which specified in whole or in part the means to be used by the Contractor to prevent such injury or damage or which imposes upon the Contractor directly or indirectly, the risk or loss or damage and/or liability for or the obligation to hold the Owner, the Architect, his consultants, or their officers, agents and employees harmless as to such injury and damage, shall create or give to third parties, any claim or right of action against the Contractor, Owner, Architect, his consultants or their officers, agents or employees beyond such as may legally exist irrespective of such provision or provisions.

128. RESPONSIBILITIES OF THE ARCHITECT

The Architect shall decide questions which may arise as to the quality and acceptability of materials furnished, work performed, rate of progress of work, interpretation of Drawings and Specifications and all questions as to the acceptable fulfillment of the Agreement on the part of the Contractor. The duties and responsibilities of the Architect as set forth herein shall not be extended except through written consent of the Architect and the Owner.

a. Observation of the Work: All materials and each part or detail of the work shall be subject at all times to observation by the Architect and the Owner, and the Contractor will be held strictly to the intent of the Contract Documents in regard to the Contract. Observations may be made at the site or at the source of material supply, whether mill, plant or shop. The Architect shall be allowed access to all parts of the work and shall be furnished with such information and assistance by the Contractor as is required to make his observations and construction review.

b. Acceptability of Work: The Architect's decision as to the acceptability or adequacy of the work shall be final and binding upon the Contractor. The Contractor agrees to abide by the Architect's decision relative to the performance of the work.

c. Architect's Decisions: All claims of the Owner or the Contractor shall be presented to the Architect for decision which shall be final.

d. Where a Shop Drawing or sample is required by the Specifications, no related Work shall be commenced until the submittal has been reviewed by the Architect.

e. Architect's review of Shop Drawings or samples shall not relieve Contractor from responsibility for any deviations from the Contract Documents unless Contractor has in writing called Architect's attention to such deviation at the time of submission and Architect has given written concurrence and approval to the specific deviation, nor shall any concurrence or approval by Architect relieve Contractor from responsibility for errors or omissions in the Shop Drawings.

129. REJECTED WORK AND MATERIALS

Any defective work whether the result of poor workmanship, use of defective materials, damage through carelessness or any other cause shall be removed at the Contractor's expense within ten days after written notice is given by the Owner, and the work shall be re-executed by the Contractor. The fact that the Architect may have previously overlooked such defective work shall not constitute an acceptance of any part of it.

130. CHARACTER OF WORKMEN

The Contractor shall at all times be responsible for the conduct and discipline of his employees and/or any Subcontractor or persons employed by Subcontractors. All

workmen must have sufficient knowledge, skill and experience to perform properly the work assigned to them. Any foreman or workman employed by the Contractor or subcontractor who does not perform his work in a skillful manner or appears to be incompetent or to act in a disorderly or intemperate manner shall, at the written request of the Owner, be discharged immediately and shall not be employed again in any portion of the work without the approval of the Owner.

131. SHOP DRAWINGS

The Contractor shall provide electronic (or a min. of 3 hard) copies of all shop drawings, setting schedules and such other drawings as may be necessary for the prosecution of the work in the shop and in the field as required by the Drawings, Specifications or the Architect's instructions. Deviations from the Drawings and Specifications shall be called to the attention of the Architect at the time of the first submission of shop drawings and other drawings for consideration. The Architect's review of any drawings shall not release the Contractor from responsibility for such deviations. Shop drawings shall be submitted according to a schedule prepared jointly by the Contractor and the Architect.

a. Contractor's Certification: When submitted for the Architect's review, shop drawings shall bear the Contractor's certification that he has reviewed, checked and approved the shop drawings, that they are in harmony with the requirements of the Project and with the provisions of the Contract Documents, and that he has verified all field measurements and construction criteria, materials, catalog numbers and similar data. Contractor shall also certify that the work represented by the shop drawings is recommended by the Contractor and the Contractor's guaranty will fully apply.

c. Architect will review with reasonable promptness Shop Drawings and samples, but Architect's review shall be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents and shall not extend to means, methods, sequences, techniques or procedures of construction or to safety precautions or programs incident thereto. The review of a separate item as such will not indicate approval of the assembly in which the item functions. Contractor shall make any corrections required by Architect and shall return the required number of corrected copies of Shop Drawings and resubmit new samples for review. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Architect on previous submittals. Contractor's stamp of approval on any Shop Drawing or sample shall constitute a representation to Owner and Architect that Contractor has either determined and verified all quantities, dimensions, field construction criteria, materials, catalog numbers, and similar data or assumes full responsibility for doing so, and that Contractor has reviewed or coordinated each Shop Drawing or sample with the requirements of the Work and the Contract Documents.

132. EXEMPTION FROM SALES AND COMPENSATING USE TAXES OF NEW YORK STATE AND OF CITIES AND COUNTIES

The Owner is exempt from payment of sales and compensating use taxes of New York State, and of cities, and counties, on all supplies and materials which are to become an integral component part of a structure, building, or real property, pursuant to this Contract. This exemption does not, however apply to tools, machinery, equipment, or other property purchased by, leased by or to the Contractor or a subcontractor or to supplies or materials not incorporated into the complete project.

The above exemption does not, however, apply to tools, machinery, equipment or other property purchased by, leased by or to the Contractor or a subcontractor or to supplies or materials not incorporated into the completed Project. The Contractor and his subcontractors shall be responsible for and pay any and all applicable taxes, including sales and compensating use taxes, on such tools, machinery, equipment or other property or such unincorporated supplies and materials, and the provisions set forth below will not be applicable to such tools, machinery, equipment, property, supplies or materials.

It shall be the Contractor's responsibility to comply with all requirements of New York State.

133. O.S.H.A. REQUIREMENTS

It is the Contractors responsibility to meet the minimum guidelines of the Occupational Safety and Health Act, in particular, Part 1926, the Safety and Health Regulations for construction. The Village of Johnson City has the authority to issue a Stop Work Order if the applicable O.S.H.A. regulations are violated. The Stop Work Order will remain in effect until such violations of the O.S.H.A. regulations are violated. The Stop Work Order will remain in effect until such violations of the O.S.H.A. regulations have been rectified.

SPECIAL CONDITIONS - PART II

201. PROJECT AREA

645 Winsor Ave, Elmira, NY 14902

202. TIME FOR COMPLETION

The work which the Contractor is required to perform under this Contract shall be commenced at the time stipulated by the Owner in the "Notice to Proceed" to the Contractor and shall be fully completed within 180 calendar days after Notice to Proceed. See project dates below:

Bid Due Date:	12/02/2025
Construction Start Date:	12/16/2025
Construction End Date:	06/15/2026

203. RESPONSIBILITIES OF CONTRACTOR

Except as otherwise specifically stated in the Contract Documents and Technical Specifications, the Contractor shall provide and pay for all materials, labor, tools, equipment, water, light, heat, power, transportation, superintendence, temporary construction of every nature, charges, levies, fees or other expenses incurred and all other services and facilities of every nature whatsoever necessary for his performance of the Contract within the specified time.

204. COMMUNICATIONS

a. All Notices, demands, requests, instructions, approvals, proposals and claims must be in writing.

b. Any notice to or demand upon the Contractor shall be sufficiently given, if delivered at the office of the Contractor stated on the signature page of the Agreement or at such other office as the Contractor may from time to time designate in writing to the Owner, or if deposited in the United States mail in a sealed, postage-prepaid envelope, or delivered with charges prepaid to any telegraph company for transmission, in each case addressed to such office.

c. All papers required to be delivered to the Owner shall, unless otherwise specified in writing to the Contractor, be delivered to the Friends of the Elmira Civil War Prison Camp, 645 Winsor Ave, Elmira, NY 14902, and any notice to or demand upon the Friends of the Elmira Civil War Prison Camp shall be sufficiently given if so delivered, or if deposited in the United States mail in a sealed, postage-prepaid envelope or delivered with charges prepared to any telegraph company for transmission to said Friends of the Elmira Civil War

Prison Camp at such address, or to any other representatives of the Friends of the Elmira Civil War Prison Camp or to such other address as the Friends of the Elmira Civil War Prison Camp may subsequently specify in writing to the Contractor for such purpose.

d. Any such notice shall be deemed to have been as of the time of actual delivery of (in the case of mailing) when the same should have been received in due course of post, or in the case of telegrams, at the time of actual receipt, as the case may be.

205. WORK NOT INCLUDED IN CONTRACT

The following are not included in the Contract:

a. Work noted on the drawings or mentioned in the Technical Specifications, or both, as not being a part of the Contract.
b. There shall be no HVAC work as part of the Contract

206. CONTRACT DOCUMENTS AND DRAWINGS

The Owner will furnish the Contractor without charge two (2) copies of the Contract Documents including drawings. Additional copies requested by the Contractor will be furnished at cost.

207. EXISTING UTILITIES; UTILITY SERVICES

The Contractor shall notify all utility customers before interrupting their service. A permanent, first-class replacement of the cutout portion of the original service connection shall be installed and inspected by the owner of the utility before backfilling.

The Contractor shall protect all utilities and subsurface structures encountered in the work. Because he may encounter some utilities and subsurface structures not shown on the plans, the Contractor shall proceed with caution in executing this work. Insofar as feasible, the Contractor shall not disturb existing utilities but shall support and sustain them. The Contractor shall repair all damage to any utilities including service connections encountered in the course of the work, regardless of character, function, condition, size, location, materials, construction, ownership, or interference with the alignment of any work to be built, whether such existing utilities, structures, or service connections are shown or not shown.

The Contractor is held responsible for all damage to all utility or other underground or surface structures, whether or not they are shown on the Contract Drawings, and he shall pay all costs for protecting them or for repairing and/or replacing them if they are damaged.

208. CARE OF PUBLIC AND PRIVATE PROPERTY

The Contractor shall take all necessary precautions to prevent damage to structures above and below ground and to protect and preserve property within and adjacent to the work.

Special care shall be exercised to minimize injury to trees and any damaged branches shall be properly pruned and all wounds covered with approved tree paint. This repair work shall be done on a daily basis without exception. Roots may be cut and removed up to 25 per cent of the estimated root area. Where more than 25 per cent may be required, the Engineer shall decide whether the tree shall be removed. When it becomes absolutely necessary to remove a tree, it will be completely removed including stump.

209. TEMPORARY SERVICE

The Contractor shall notify concerned property owners at least forty eight (48) hours in advance of his intention to open a trench, or for any reason whereby any public service might be interrupted. The Contractor shall again notify each property owner affected at least three hours in advance of his contemplated operation.

In the event that it is necessary to install temporary services, the Contractor shall cooperate fully with the utility company concerned. All work done in this regard for the convenience of the Contractor's operations shall be at his own expense.

210. MATERIAL

Unless otherwise indicated on the plans all material incorporated in the work shall be new and of the specified grade or better; it shall be neatly stored and protected, if necessary, until its incorporation in the work. Rejected material shall be immediately removed from the work.

When requested by the Engineer, the Contractor shall submit samples for laboratory inspection, or shall submit certificates from the Manufacturer that the material conforms to specifications.

211. CONSTRUCTION REVIEW

The Owner's representatives assigned to the Project for construction review shall have the authority to reject unsuitable material and to require the reinstallation of work improperly installed. These representatives do not have the authority to modify or relax any provisions of the plans. The acceptance of any work by the Engineer or his representatives during the course of construction is not in any way a final acceptance and does not relieve the Contractor of any responsibility for his work should any inferior workmanship or material

become evident.

212. REFERENCE SPECIFICATIONS

When in these specifications reference is made to American Society of Testing Materials (ASTM), American National Standards Institute (ANSI), American Concrete Institute (ACI), American Institute of Steel Construction (AISC), American Iron and Steel Institute (AISI), American Welding Society (AWS), or Association of Official Agricultural Chemists (AOAC) specifications or standards, reference is made to the current edition of the noted specifications or standard revised to date of receipt of bids.

215. ENVIRONMENTAL CONSERVATION

No work shall be done before 7:00 a.m. or after 6:00 p.m., local time on a working day, on Sundays, or on legal holidays, except as necessary for the proper care and protection of work already performed, or during emergencies. The Contractor shall observe local ordinances regarding working hours.

The Contractor shall make every effort to minimize noise caused by his operations. Equipment shall be equipped with silencers or mufflers designed to operate with the least possible noise. The Contractor shall not permit the use of loud, abusive, obnoxious or profane language by his employees or by the employees of his subcontractors. The Contractor shall observe local ordinances regarding noise standards.

The Contractor shall minimize the introduction of noxious fumes into the air. Motor equipment shall be kept in repair and equipped with anti-pollution devices to cut down on exhaust emissions. The Contractor shall take active measures to control dust and air-borne debris resulting from his operations. Burning as a method of clearing or disposal will not be permitted.

The Contractor shall conduct his operations to minimize damage to natural watercourses, and shall not permit petroleum products or excessive amounts of silt, clay, or mud to enter any drainage system. The bed of natural watercourses shall be restored to normal gradient and cross section after being disturbed.

The Contractor shall not dispose of debris, refuse, or sanitary wastes in an open dump or in a natural watercourse, whether on public or private property, or in such places that undesirable wastes can eventually be exposed or carried to a natural watercourse.

The Contractor shall restrict his operations as nearly as possible to the immediate site. Unnecessary cutting of vegetation adjacent to the site is prohibited. Every effort shall be made to minimize erosion during and after construction and the site shall be returned to its original condition, except where improvements are indicated or required.

The Contractor shall not erect, or permit the erection of advertising signs. Only minimal identification and direction signs shall be permitted on the site. Unnecessary or obnoxious posters, pictures, signs, symbols, drawings or writing on work, material or equipment, resulting from vandalism or other causes, shall be covered or removed by the Contractor.

The Contractor shall take affirmative action to prevent the misuse of our natural environment, wasting of our natural resources, or destruction of natural values

216. SPECIAL NOTES - PROHIBITION OF USE OF LEAD-BASED PAINT AND ELIMINATION OF LEAD-BASED PAINT HAZARD:

The Contractor shall comply with the Lead-Based Paint Poisoning Prevention Act as reads below:

A. Purpose.

This subpart A implements the provisions of 42 CFR Part 90, which are applicable to Federal agencies and which prohibit use of lead-based paint in residential structures constructed or rehabilitated by the Federal Government or with Federal assistance.

B. Definitions.

(a) "Lead-based paint", as defined in section 501(3), of the Lead-Based Paint Poisoning Prevention Act (84 Stat. 2080; 42 U.S.C. 4841 (3)), means any paint containing more than 1 percent lead by weight (calculated as lead metal) in the total nonvolatile content of liquid paints or in the dried film of paint already applied.

(b) "Applicable surfaces" means all interior surfaces and those exterior surfaces, such as stairs, decks, porches, railings, windows, and doors, which are readily accessible to children under 7 years of age (42 CFR 90.2 (g)).

(c) "Residential structure" means any house, apartment, or structure intended for human habitation, including any institutional structure where persons reside, such as an orphanage, boarding school dormitory, day care center or extended care facility (42 CFR 90.2(f)), and including nursing homes, intermediate care facilities, college housing, hospitals, group practice facilities, and community facilities.

(d) "Federally assisted construction or rehabilitation" means work financed with any form of Federal financial assistance, including grants, loans, advances, or proceeds of a HUD-guaranteed loan or a HUD - insured mortgage. For purposes of this part, "rehabilitation" and "rehabilitated" also include routine maintenance work which is financed by any of the foregoing forms of Federal financial assistance.

(e) "Health hazard" means cracking, scaling, peeling, and loose lead-based paint on applicable surfaces.

(f) "HUD-associated properties" means residential structures (as defined above when they are being constructed, purchased, leased, rehabilitated (as defined above), modernized, or improved, with any form of Federal financial assistance whether grant, loan, advance, or proceeds of a HUD-guaranteed loan or a HUD-insured mortgage.

C. Applicability.

(a) No office of the Department of Housing and Urban Development shall, in the construction or rehabilitation of any residential structure, use or permit the use of lead-based paint on applicable surfaces.

(b) The use of lead-based paint on applicable surfaces of any residential structure undergoing federally assisted construction or rehabilitation under any program under the jurisdiction of the Department of Housing and Urban Development is prohibited. Every Contract and Subcontract including painting, pursuant to which such federally assisted construction or rehabilitation is performed shall include appropriate provisions prohibiting such use of lead-based paint. Such provisions shall include any provisions necessary for the enforcement of that prohibition.

217. SPECIAL NOTES - NATIONAL HISTORIC PRESERVATION ACT OF 1966

The Contractor agrees to contribute to the preservation and enhancement of structures and objects of historical, architectural or archaeological significance when such items are found and/or unearthed during the course of project construction and to consult with the State Historic Preservation Officer for recovery of the items. (Reference: National Historic Preservation Act of 1966 (80 Stat 915, 16 USC 470) and Executive Order No. 11593 of May 31, 1971.)

218. SPECIAL NOTES - CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT:

The Clean Air Act, as amended (42 USC 1857) and Executive Order 11288; and the Federal Water Pollution Control Act, as amended (33 USC 1251); and all applicable standards, orders, and regulations issued pursuant thereto. The Grantee agrees to report all violations thereof to the Environmental Protection Agency and to HUD and specifically to comply with the following:

(1) For the purpose of this paragraph, the term "facility" means (a) any building,

installation, structure, location or site or operations, (b) owned, leased, or supervised (c) by the Grantee or its Contractors and latter's subcontractors (d) for the construction, supply and service contracts entered into by the Grantee for the purpose of accomplishing this project.

(2) The Grantee agrees to comply with the Clean Air Act and the Federal Water Pollution Control Act during the accomplishment of this project and specifically agrees to the following:

(a) That any facility to be utilized in the accomplishment of this project is not listed on the Environmental Protection Agency's list of Violating Facilities pursuant to 40 CFR, Part 15.20;

(b) that in the event a facility utilized in the accomplishment of this project becomes listed on the EPA List, the Government may, inter alia, cancel, terminate for default, or suspend for such failure, in whole or in part, the Agreement;

(c) that it will comply with all other requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act, as amended, relating to inspection monitoring, entry, reports, and information, as well as all other requirements specified in Section 114 and Section 308, respectively, and all regulations and guidelines issued thereunder;

(d) that it will promptly notify the Government of the receipt of any notice from the Director, Office of Federal Activities, Environmental Protection Agency, indicating that any facility utilized or to be utilized in the accomplishment of this project is under consideration for listing on the EPA List of Violating Facilities; and

(e) that it will insert in any of its contracts and require insertion in subcontracts entered into for the purpose of accomplishing this project, unless otherwise exempted pursuant to the EPA regulations implementing the Clean Air Act and the Federal Water Pollution Control Act (CFR 40, Part 15.5e) provisions which shall include the criteria and requirements set forth in this paragraph, including this subparagraph (e).

219. RECORD MAINTENANCE:

The Grantee shall establish, maintain and preserve, and require each of its contractors and subcontractors to establish, maintain and preserve property management, project performance, financial management payrolls and reporting documents and systems, and such other books, records and other data pertinent to the Project as the Government may require. While such records shall be retained for a period of three years following receipt of final

payment by the Grantee, detailed exceptions are stated in 13 CFR 309.9.

SECTION 07 31 16 - STEEL SHINGLES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Steel wall shingles including the following:
   1. ArrowLine Shingle-Shake wall panels.

1.2 RELATED SECTIONS

A. Section 06 10 00 - Rough Carpentry.

B. Section 07 62 00 – Sheet Metal Flashing.

1.3 REFERENCES

A. ASTM International (ASTM):
   1. ASTM A653 - Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process.
   2. ASTM D2244 - Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates.
   3. ASTM D4214 - Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films.

B. Underwriters Laboratory (UL):
   1. UL 2218 - Hail Impact, Class 4 Rating

1.4 SUBMITTALS

A. Submit under provisions of Section 01 30 00 - Administrative Requirements.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Materials, underlayment, flashings, fasteners and accessories.
   3. Dimensions, physical properties, and typical details.
   4. Storage and handling requirements and recommendations.
   5. Installation methods.

C. Shop Drawings:
   1. Show layout, methods of attachment, provisions for movement, flashing, trim, edge and field conditions, interface with adjacent materials, locations of cutouts or special shapes, existing construction, and details.
   2. Submit overall layout of panels with small scale details, and large scale details of edge conditions, joints, fastener and sealant placement, flashings, penetrations, and special conditions.
   3. Distinguish between factory and field assembled work.

D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors.

E. Installer qualifications.

F. Closeout submittals:

1. Maintenance and cleaning instructions.
2. Warranty.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: Minimum 5 years experience manufacturing similar products.

B. Installer Qualifications: Minimum 2 years experience installing similar products.

C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
1. Finish areas designated by Architect.
2. Do not proceed with remaining work until workmanship is approved by Architect.
3. Refinish mock-up area as required to produce acceptable work.
4. Accepted mock-up may be included in the completed work and will set the standard of acceptance for workmanship and aesthetics for remaining work.

1.6 PRE-INSTALLATION MEETINGS

A. Convene at the Project site minimum two weeks prior to starting work of this section. The General Contractor, Subcontractor, and major Suppliers shall attend to review the following:
1. Installation procedures and manufacturer's recommendations.
2. Coordination with work by others.
3. Product availability.
4. Preparation, substrates, penetrations, and details.
5. Project logistics and schedule.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
1. Organize package contents to minimize sorting on site.
2. Verify quantities and condition immediately upon receipt. Remove damaged products from the site, coordinate with the manufacturer to replace with new materials to meet specified requirements.

B. Store products off the ground, within manufacturer's temperature and environmental limits, away from moisture, protected from traffic and construction activities. Minimize on-site storage prior to installation.

C. Handling: Handle materials to avoid damage.

1.8 PROJECT CONDITIONS

A. Field Measurement: Verify field conditions prior to shop drawings or fabrications.

B. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

C. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.9 WARRANTY

A. Provide manufacturer's lifetime, non-prorated, transferrable warranty including:
1. Lifetime material warranty.
2. Lifetime hail protection warranty.

3. Finish warranty:
   a. Warranty against cracking, chipping, flaking, peeling, will not fade or change color in the excess of 5 NBS Hunter units as a result of natural weathering or ultraviolet exposure for 30 years.
   b. Color measurement in accordance with ASTM D2244.
   c. Will not chalk in excess of number 8 rating when measured per ASTM D4214, Method A, for a period of 30 years.

B. Provide installers 2 year total system warranty including underlayment, flashing, trim, and other components and accessories against water penetration and weather tightness.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: EDCO Products, Inc., which is located at: 8700 Excelsior Blvd.; Hopkins, MN 55343; Toll Free Tel: 800-333-2580; Tel: 952-945-2680 ; Fax: 952-938-4950; Email:request info (sales@edcoproducts.com); Web:www.edcoproducts.com

B. Substitutions: Architect approved equal.

C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

2.2 ARROWLINE SHINGLE SHAKE PANELS

A. Shingle-Shake R: ArrowLine Shingle-Shake panels stamped to simulate traditional shake shingles. Shingle tops coated with polyvinylidene fluoride (PVDF) finish, the underside finished with manufacturer's standard corrosion-resistant coating.

B. Shake Panels: Fabricated from No. 30 gauge, 0.012 inch (0.304 mm) base metal thickness, galvanized steel sheets complying with ASTM A653, with G90 zinc coating and finish system specified below. Panels are approximately 50.7 inches (1288 mm) long by 12.8 inches (325 mm) wide, with exposure of 50 inches (1270 mm) by 12 inches (305 mm).
   1. Attachments: 4-way interlocking system secured to wall with clips and fasteners.

2.3 Accessories

A. Fasteners:
   1. Minimum No. 10-12 by minimum 1 inch (25 mm) long, hex washerhead (HWH), self-tapping, corrosion-resistant steel screws, long enough to penetrate 3/4 inch (19 mm) into or through the thickness of sheathing to comply with local jurisdiction's uplift requirements.

B. Underlayment:
   1. Self-adhering butyl rubber based adhesive backed by a layer of high density cross laminated polyethylene.
   2. Minimum one layer of asphalt-saturated felt complying with ASTM D226, Type II (No. 30).

C. Flashing: As specified in Section 07 60 00 - Flashing and Sheet Metal.

2.4 FINISHES

A. System Layers and Finishes (Top to Bottom):
   1. Double embossed texture with Trinar PVDF finish.
   2. Trinar polyester corrosion resistant primer.
   3. Bonderite 1402W conversion coat.
   4. G-90 galvanized coating.
   5. Solid steel core.

6. G-90 galvanized coating.
7. Bonderite 1402W conversion coat.
8. Corrosion resistant backer coat.

B. ArrowLine Enhanced Shake Colors:
1. Charcoal Gray Blend.
2. Royal Brown Blend.
3. Classic Red Blend.
4. Hartford Green Blend.
5. T-Tone Blend.
6. Statuary Bronze Blend.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine substrates with installer present. Inspect for tolerances and conditions that could adversely affect installation.

B. Do not begin installation until substrates have been properly prepared.

C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

A. Install in accordance with manufacturer's instructions, which must be available on the Project site at all times for inspection.
1. New Panels:
a. Install system over structural sheathing complying with the local building code.
b. Cover sheathing with underlayment, with minimum 3-12 inch (89 mm) side laps and 6 inch (150 mm) end laps.
c. Install flashing materials:
1) Linear components: Form in longest possible lengths with 8 feet (2.5 m) as minimum.
2) Counter Flashings: Extend 4 inches (102 mm) minimum up vertical surfaces and 4 inches (102 mm) minimum under shingles.
d. Secure panels to the decking with manufacturer's clips and accessories with a minimum of five clips per panel to meet uplift resistance requirements.
e. Stagger and space in accordance with the manufacturer recommendations.

3.4 FIELD QUALITY CONTROL

A. Inspect units as they are installed. Do not install cracked, broken, twisted, or damaged units.

B. Do not scratch or mar installed units. Units damaged during installation shall be immediately removed and replaces, remove damaged units from the project site.

C. After approximately 200 units have been installed, inspect from ground with the Architect or Owner. Verify proper layout and appearance. Repeat inspection every 200 shingles.

D. Inspect complete installation to ensure that it is weather tight in accordance with the manufacturers instructions.

3.5 CLEANING

A. Remove excess materials and debris from the project site.

3.6 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

SECTION 074100 - FACTORY MANUFACTURED PREFORMED METAL ROOF PANELS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK

1. This section covers the pre-finished, pre-fabricated hidden fastener snap-loc metal roof and wall system. All metal trim, accessories, fasteners, insulation and sealants indicated on the drawings as part of this section.
2. Drawings and general provisions of the Contract, including general and Supplementary Conditions and Division 01 Specifications, apply to this section.

1.2 SUMMARY

1. Section Includes
    1. Factory formed hidden fastener snap-loc metal roof and wall panels
2. Related work specified elsewhere. (Note: select from the below or add appropriate sections)
    1. Section 07600 - Flashing and Sheet Metal

1.3 DEFINITIONS

1. Metal Roof/Wall Panel Assembly: Metal roof/ panels, attachment system components, miscellaneous metal framing, thermal, and accessories necessary for a complete weathertight roofing system.
2. References:
    1. American Society for Testing and Materials (ASTM)
        1. ASTM A 653: Steel Sheet, Zinc Coated by the Hot Dip Process
        2. ASTM A 792: Steel Sheet, Aluminum-Zinc Alloy Coated by the Hot Dip Process
        3. ASTM B 209: Aluminum and Aluminum Alloy Sheet and Plate
        4. ASTM B370 Standard Specification for Copper Sheet and Strip for Building Construction
    2. Sheet Metal and Air Conditioning Contractors National Association (SMACNA)
        1. SMACNA Architectural Sheet Metal Manual, 1993 edition
    3. American Iron and Steel Institute (AISI)
        1. AISI Cold Formed Steel Design Manual
    4. Aluminum Association
        1. Aluminum Design Manual
    5. Metal Construction Association
        1. Preformed Metal Wall Guidelines
    6. Code References
        1. ASCE, Minimum Loads for Buildings and Other Structures
        2. BOCA National Building Codes
        3. UBC Uniform Building Code
        4. SBC Standard Building Code

1.4 QUALITY ASSURANCE

1. Manufacturer and erector shall demonstrate experience of a minimum of five (5) years in this type of project.

2. Panels shall be factory-produced only. No portable, installer-owned or installer-rented machines will be permitted.

1.5 SUBSTITUTIONS

1. The material, products and equipment specified in this section establish a standard for required function, dimension, appearance and quality to be met by any proposed substitution.

1.6 SYSTEM DESCRIPTION

1. Material to comply with:
    1. ASTM A792/A792M Standard Specification for Sheet Steel, 55% Aluminum-Zinc Alloy Coated by the Hot-Dip process

1.7 ROOF SYSTEM PERFORMANCE TESTING

1. General Performance: Metal roof/wall panels shall comply with performance requirements without failure due to defective manufacture, fabrication, installation or other defects in construction.
2. Roof System shall be designed to meet Standard Building Code Wind Load requirements.
3. Panels to meet:
    1. Roof/Wall System shall be designed to meet applicable Local Building Code and the System shall have tested by the Manufacturer per ASTM E-1592 and have the applicable Load Tables published from this testing for loads.

1.8 WARRANTIES

A. Finish warranty: Manufacturer's standard form in which manufacturer agrees to repair finish or replace standing seam metal roof panels that show evidence of deterioration of factory-applied finish within specified warranty period.
    1. Exposed Panels Finish - deterioration includes the following:
        a. Color fading more than 5 hunter units when tested according to ASTM D 2244
        b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214
        c. Cracking, checking, peeling or failure of a paint to adhere to a bare metal.
    2. Warranty Period: 20 Years from the date of substantial completion
B. Applicator shall furnish written warranty for a two (2) year period from date of substantial completion of building covering repairs required to maintain roof and flashings in watertight condition.

1.9 SUBMITTALS

1. Furnish detailed drawings showing profile and gauge of exterior sheets, location and type of fasteners, location, gauges, shape and method of attachment of all trim locations and types of sealants, and any other details as may be required for a weather-tight installation.
2. Provide finish samples of all colors specified.
3. Shop drawings: Show fabrication and installation layouts of metal roof panels, metal wall panels or metal soffit panels, details of edge conditions, side-seam joints, panel profiles, corners, anchorages, trim, flashings, closures and accessories, and special details. Distinguish between factory and field-assembled work
4. Coordination Drawings: Roof plans, drawn to scale, on which the following are shown and coordinated with each other, based on input from installer of the items involved:
    1. Roof panels and attachments
    2. Wood trusses, bracings and supports
    3. Roof-mounted items including snow guards and items mounted on roof curbs.

1.10 DELIVERY, STORAGE AND HANDLING

1. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
2. Deliver components, sheets, metal roof panels and other manufactured items so as not to be damaged or deformed. Package metal roof/wall panels for protection during transportation and handling.
3. Unload, store and erect metal roof panels in a manner to prevent bending, warping, twisting and surface damage.
4. Stack metal roof panels on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal roof/wall panels to ensure dryness. Do not store metal roof panels in contact with other materials that might cause staining, denting or other surface damage.
5. Protect strippable protective coating on any metal coated product from exposure to sunlight and high humidity, except to the extent necessary for material installation.

1.11 PROJECT CONDITIONS

1. Weather Limitations: proceed with installation only when existing and forecasted weather conditions permit metal roof panel work to be performed.
2. Field Measurements: Verify actual dimensions of construction contiguous with metal roof panels by field measurements before fabrication.

1.12 COORDINATION

1. Coordinate sizes and locations of roof curbs, equipment supports and roof penetrations with actual equipment provided.
2. Coordinate metal roof panels with rain drainage work, flashing, trim and construction of decks, and other adjoining work to provide a leakproof, secure and noncorrosive installation.

PART 2 - PRODUCTS

2.1 PANEL DESIGN

1. General: Provide factory-formed, prefinished, lappable snap-loc hidden fastener, structural ribbed metal roof/wall panel system, that has been pretested and certified by manufacturer to comply with specified requirements under installed conditions.
2. Total coverage of Roof panels when installed shall be 16".
3. Structural Requirements: Engineer panels for structural properties in accordance with latest edition of American Iron and Steel Institute's Cold Formed Steel Design Manual using effective width concept and Aluminum Associations Aluminum Design Manual.
4. Forming: Use continuous end rolling method. No end laps on panels. No portable rollforming machines will be permitted on this project, no installer-owned or installer-rented machines will be permitted. It is the intent of the Architect to provide Factory-Manufactured panel systems only for this project.
5. Panels shall be directly fastened to the substrate.
6. The panel shall have an overlapping sidelap feature.

2.2 ACCEPTABLE MANUFACTURERS

1. This project is detailed around the roofing product of Ideal Roofing; Junior H-F, 1418 Michael Street, Ottawa, ON, Canada. Tel: 613-746-3206, Email: info@idealroofing.ca

2.3 MATERIALS AND FINISHES

1. Product: Junior-HF, Hidden fastener system.
2. Preformed roofing panels shall be fabricated of 29 GA Steel
3. Color shall be selected by Architect from manufacturers standard colors.
4. Texture: Panel shall be smooth.
5. Finish shall be painted AZ50 galvalume with a top side film thickness of 0.70 to 0.90 mil over a 0.25 to 0.3 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil, to meet AAMA 621. Bottom side shall be coated with a primer with a dry film thickness of 0.25 mil. Finish shall conform to all tests for adhesions, flexibility and longevity as specified by Kynar 500 or Hylar 5000 finish supplier.
6. If Strippable coating to be applied on the pre-finished panels to the top side to protect the finish during fabrication, shipping and handling, film shall be removed before installation.
7. Trim: Trim shall be fabricated of the same material and finish to match the profile, and will be press broken in lengths of 10 to 12 feet. Trim shall be formed only by the manufacturer of their approved dealer. Trim to be erected in overlapped condition. Use lap strips only as indicated on drawings. Miter conditions shall be factory welded material to match the sheeting. Trim to be fabricated in accordance with standard SMACNA procedure and details.
8. Closures: shall be pre-molded polyethylene to match the profile of the exposed fastener panel and shall be in lengths as supplied by the panel manufacturer.
9. Accessories/Fasteners: Fasteners shall be of type, material, size, corrosion resistance, holding power and other properties required to fasten miscellaneous framing members to substrates. Accessories and their fasteners shall be capable of resisting the specified design wind uplift forces and shall allow for thermal movement of the roof panel system.
10. Substrate shall be Plywood
11. Caulking: Shall be a polyurethane where it is exposed and there is no thermal movement. All caulking and sealing shall be done in a neat manner with excess caulking or sealant removed from exposed surfaces.
12. Vapor Retarder: retarder with a permeance of 0.05 or less as determined by ASTM 98.

2.4 FABRICATION

1. Comply with dimensions, profile limitations, gauges and fabrication details shown and if not shown, provide manufacturer's standard product fabrication.
2. Fabricate components of the system in factory, ready for field assembly.
3. Fabricate components and assemble units to comply with fire performance requirements specified.
4. Apply specified finishes in conformance with manufacturer's standard, and according to manufacturer's instructions.
5. Panels are lappable. It is recommended that individual aluminum roof panels not exceed 16' in length and steel roof panels not exceed 32' in length for thermal movement reasons.
6. Panels shall be roll formed on a stationary industrial type rolling mill to gradually shape the sheet metal. Portable rollformers rented or owned by the installer, are not acceptable.

PART 3 - EXECUTION

3.1 INSPECTION

1. Examine alignment of structural steel and related supports, primary and secondary roof framing, solid roof sheathing, prior to installation. Components should comply with shop drawings and be smooth, even, sound and free of depressions.
2. For the record, prepare written report, endorsed by installer, listing conditions detrimental to performance of the Work.
3. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 FASTENERS

1. Secure units to supports
2. Place fasteners as indicated in manufacturer's standards.

3.3 INSTALLATION

1. Panels shall be installed plumb and true in a proper alignment and in relation to the structural framing. The erector must have at least five years successful experience with similar applications.
2. Install metal panels, fasteners, trim and related sealants in accordance with approved shop drawings and as may be required for a weather-tight installation. Conform to standards set forth in SMACNA architectural sheet metal manuals and approved shop drawings for this project.
3. Remove all strippable coating and provide a dry-wipe down cleaning of the panels as they are erected.
4. Install panel system so it is watertight, without waves, warps, buckles or distortions, and allow for thermal movement considerations.
5. Abrasive devices shall not be used to cut on or near roof or wall panel system.
6. Apply sealant tape or caulking as necessary at flashing and panel joints to prevent water penetration.
7. Remove any strippable film immediately upon exposure to direct sunlight.
8. Vapor retarder: The joints, perimeter, and all openings shall be sealed per the manufacturer's instructions to provide a continuous vapor retarder.
9. Underlayment (solid substrate):
    1. Provide one layer of 30# felt with horizontal overlaps and endlaps staggered between layers.
    2. Provide ice and water shield membrane at all valley and eave conditions.
    3. Lay parallel to ridge line with 2 1/2" horizontal laps and 6" vertical laps

3.4 DAMAGED MATERIAL

1. Upon determination of responsibility, repair or replace damaged metal panels and trim to the satisfaction of the Architect and Owner.

END OF SECTION

SECTION 07 42 13.1 – FLAT METAL WALL PANELS

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes: **Concealed Fastener Metal Soffit and Wall Panel**

1.2 REFERENCES

A. General: Standards listed by reference form a part of this specification section. Standards listed are identified by issuing authority, abbreviation, designation number, title or other designation. Standards subsequently referenced in this Section are referred to by issuing authority abbreviation and standard designation.

B. ASTM International:

1. ASTM A 653 – Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
2. ASTM A 792 – Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.

C. Underwriters Laboratories (UL):

1. UL 263 - Fire Tests of Building Construction and Materials.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meetings: Conduct preinstallation meeting to clarify Project requirements, substrate conditions, manufacturer’s installation instructions and manufacturer’s warranty requirements.

1.4 ACTION SUBMITTALS

A. Product Technical Data: For each type of product required, including manufacturer's preparation recommendations, storage and handling requirements, and recommended installation methods.

B. Shop Drawings: Showing methods of installation, plans, sections, elevations and details of roof and wall panels, specified loads, flashings, vents, sealants, interfaces with all materials not supplied by the metal panel system manufacturer, and identification of proposed component parts and their finishes. Do not proceed with fabrication prior to approval of shop drawings.

C. Samples: Selection and verification samples for finishes, colors and textures. Submit two complete sample sets of each type of panel, trim, clip and fastener required.

D. Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics, criteria and physical requirements.

E. Qualifications Statements: For manufacturer and installer.

F. Design Submittal: Comply with performance requirements and design criteria, including analysis data and calculations signed and sealed by a qualified professional engineer.

1.5 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For installed products including maintenance methods and precautions against cleaning materials and methods detrimental to finishes and performance.

B. Warranty: Warranty documents required in this section.

1.6 MAINTENANCE MATERIAL

A. Extra Materials: Deliver to Owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 01 Closeout Submittals Section.

1. Delivery, Storage and Protection: Comply with Owner’s requirements for delivery, storage and protection of extra materials.

1.7 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Provider of advanced installer training.
2. Minimum of ten years of experience in manufacturing metal wall panel systems.
3. Provider of products produced in a permanent factory environment with fixed roll-forming equipment.

B. Installer Qualifications:

1. At least five years of experience in the installation of metal wall panels.
2. Experience on at least five projects of similar size, type and complexity as this Project that have been in service for a minimum of two years with satisfactory performance of the wall panel system.
3. Employer of workers for this Project who are competent in techniques required by manufacturer for installation indicated and who shall be supervised at all times when material is being installed.

C. Mock-Ups: Install at Project site a mock-up using required products and manufacturer's approved installation methods. Obtain Owner and Architect approval of finish, color, texture, pattern, trim, fasteners and quality of installation before proceeding with further work.

1. Size: **2’x2’**.
2. Maintenance: Maintain mock-up during construction for quality comparison. Remove and lawfully dispose of mock-up construction when no longer required.
3. Incorporation: Mock-up may be incorporated into final construction upon Owner approval.

1.8 DELIVERY, STORAGE AND HANDLING

A. General: Comply with manufacturer’s current printed product storage recommendations.

B. Delivery: Deliver materials in manufacturer’s original, unopened, undamaged containers with identification labels intact.

C. Storage: Store materials above ground, under waterproof covering, protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer. Provide proper ventilation of metal panel system to prevent condensation build-up between each panel and trim or flashing component. Tilt stack to drain in wet conditions. Remove strippable plastic film before storage under high-heat conditions. Store products in manufacturer's unopened packaging until just prior to installation.

D. Handling: Exercise caution in unloading and handling metal panel system to prevent bending, warping, twisting and surface damage.

1.9 WARRANTY

A. Special Exposed Panel Finish Warranty: Manufacturer's standard form System Warranty for Chalk rating and fade rating in which manufacturer agrees to repair or replace panels that show evidence of deterioration within specified warranty period.

1. Deterioration shall include but is not limited to:

a. Color fading of more than 5 Hunter units when tested according to ASTM D 2244.
b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
c. Cracking, checking, peeling or failure of paint to adhere to bare metal.

2. Warranty Period: Chalk and fade rating for 30 years, and perforation for 50 years from date of Substantial Completion.
3. Manufacturer’s warranty may exclude surface deterioration due to physical damage and exposure to salt air environments.

PART 2 PRODUCTS

2.1 METAL WALL PANELS

A. Basis of Design Product: Subject to compliance with requirements provide Central States; Precision-Loc concealed fastener metal soffit and wall panel.

B. Substitution Limitations: Architect Approved Equal

C. Product Options:

1. Panel coverage width: 12 inches (880.5 mm).
2. Rib Height: 1 inch (22.2 mm).
3. Material: 0.023 inches Steel Panel with Galvalume AZ50
4. Attachment: Hidden direct fastened panel.
5. Surface Finish: Galvalume AZ50
6. Color: **As selected by Architect from manufacturer's standard colors.**

2.6 SOURCE QUALITY CONTROL

A. Source: Obtain metal wall panels, trim and other accessories from a single manufacturer.

B. Quality Control: Obtain metal wall panels, trim and other accessories from a manufacturer capable of providing on-site technical support and installation assistance.

PART 3 EXECUTION

3.2 PREPARATION

A. Miscellaneous Framing: Install furring, angles, subpurlins, and other miscellaneous wall panel support members and anchorage according to metal wall panel manufacturer's recommendations.

3.4 METAL WALL PANEL INSTALLATION

A. General: Comply with panel manufacturer’s installation instructions including but not limited to special techniques, interface with other work, and integration of systems.

B. Fasten metal wall panels to supports with concealed clips at each standing-seam joint at location, spacing, and using proper fasteners as recommended by panel manufacturer.

3.5 ACCESSORY INSTALLATION

A. General: Install accessories using techniques recommended by manufacturer and which will assure positive anchorage to building and weather tight mounting. Provide for thermal movement. Coordinate installation with flashings and other components.

B. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and the SMACNA "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and install units to true level. Install work with laps, joints, and seams that will be permanently watertight.

3.7 CLEANING

A. Remove temporary coverings and protection of adjacent work areas.

B. Repair or replace any installed products that have been damaged.

C. Clean installed panels in accordance with manufacturer’s instructions prior to Owner’s acceptance.

D. Remove and lawfully dispose of construction debris from Project site.

3.8 PROTECTION

A. Protect installed product and finish surfaces from damage during construction.

END OF SECTION 07 42 13 – METAL WALL PANELS

ELMIRA CIVIL WAR VISITOR CENTER
PHASE I

ELMIRA, NEW YORK

CONTRACT NOTES

1. CONTRACTORS SHALL NOT PERFORM WORK DIFFERENT THAN DRAWINGS AND SPECIFICATIONS WITHOUT FIRST RECEIVING WRITTEN PERMISSION FROM ARCHITECT. IF CONTRACTOR DOES NOT RECEIVE WRITTEN PERMISSION FROM ARCHITECT AND A CHANGE IS REQUIRED THEY AGREE TO MAKE THE CHANGE AT THEIR OWN EXPENSE.
2. GENERAL CONTRACTOR SHALL BE IN CHARGE OF COORDINATING MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION CONTRACTORS.
3. ELECTRIC CONTRACTOR SHALL BE RESPONSIBLE FOR RUNNING POWER TO ALL MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.
4. MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION CONTRACTORS SHALL MAKE FINAL ELECTRIC CONNECTIONS; UNLESS OTHERWISE AGREED UPON.

DRAWING INDEX

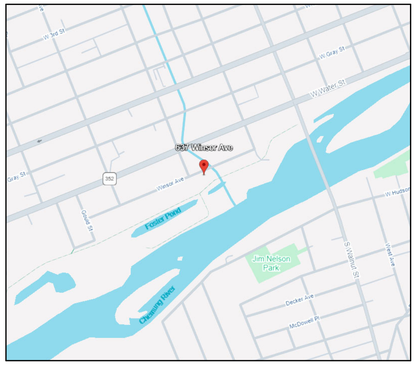
PROJECT LOCATION MAPS

STATE/COUNTY

ELMIRA, CHEMUNG, NEW YORK

LOCATION MAP

637-639 WINSOR AVE, ELMIRA, NY 14901



BASE BID

- CONCRETE FOUNDATION AND SLAB
- FRONT & REAR SIDEWALK SLAB AND ENTRY COVERING
- ALL EXTERIOR WALLS AND ROOF
- INTERIOR WALLS @ BATHROOMS/ HALLWAY
- STAIRS TO LOFT SPACE
- LOFT ABOVE BATHROOMS AND HALLWAY
- UNDERSLAB PIPING WITH STUB UP TO ALL FIXTURES
- POWER TO EXTERIOR WALL OUTLETS
- INTERIOR LIGHTING IN MAIN SPACE
- EXTERIOR LIGHTING AT ENTRANCES

PROJECT ALTERNATIVES

ADD ALTERNATE #1 - PROVIDE RESTROOMS, STAIRS, AND JANITOR CLOSET ON FIRST FLOOR WITH ELECTRICAL AND MECHANICAL LOFT SPACE ABOVE. INCLUDE ASSOCIATED ELECTRICAL, MECHANICAL, AND PLUMBING.

ADD ALTERNATE #2 - PROVIDE BUSINESS OFFICE AND EXECUTIVE OFFICE ON FIRST FLOOR AND EXTEND ELECTRICAL AND MECHANICAL LOFT SPACE ABOVE. INCLUDE ASSOCIATED ELECTRICAL AND MECHANICAL.

FUTURE AREA (NOT IN CURRENT SCOPE/ PHASE TWO) - PROVIDE RECEPTION, GIFT SHOP, GALLERY, ARCHIVE, WORKSPACE, AND CLASSROOM. INCLUDE ASSOCIATED ELECTRICAL AND MECHANICAL.

PRELIMINARY
NOT FOR CONSTRUCTION

NOT APPROVED
THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISIONS UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

	ISSUED / REVISIONS	DATE
0	ISSUED FOR BID	11-10-25

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OWNER/CLIENT
FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT
ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING
COVER SHEET

DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
CS

SITEWORK

SYMBOL	DESCRIPTION
	CONTROL POINT
	UTILITY POLE W ANCHOR
	SIGN
	EXG. WATER VALVE
	NEW WATER VALVE
	UTILITY POLE W/ LIGHT
	STREET LIGHT
	EXG. FIRE HYDRANT
	NEW FIRE HYDRANT
	CATCH BASIN / DRYWELL
	CURB BOX VALVE
	EXISTING DECIDUOUS TREE
	EXISTING CONIFEROUS TREE
X 941.5	EXG. ELEVATION
+ 941.5	NEW ELEVATION
	EXISTING MANHOLE
	NEW MANHOLE
	EDGE OF STREAM OR SWALE
	SHRUBBERY, WOODS
	EXISTING CULVERT
	NEW CULVERTS WITH END SECTION
TP-*	TEST PIT
TH-*	TEST HOLE
	RIP RAP
	COORDINATE POINT LOCATION
	5/8" REBAR W/ SURVEY CAP SET
	*LINES SHOWN AS SCREENED (GRAY) DENOTE EXISTING
	NEW CONTOUR*
E E	EXISTING ELECTRIC*
W W	WATER LINE*
SAN SAN	SANITARY LINE*
T T	TELEPHONE LINE*
ST ST	STORM SEWER*
OE OE	OVERHEAD ELECTIC*
UE UE	UNDERGROUND ELECTRIC*
	ROAD CENTER LINE*
G G	GAS LINE
	ORIGINAL LOT LINE
	DEED LINE
	PROPERTY LINE
X X	EXISTING FENCE
	NEW FENCE
	GUARD RAIL
	EASEMENT LINE
	CONCRETE MONUMENT
	EXISTING IRON ROD
	EXISTING IRON PIPE
	UTILITY POLE

PLUMBING

SYMBOL	DESCRIPTION
VD	VOLUME DAMPER
	NATURAL GAS PIPING
	BELOW SLAB SANITARY PIPING
	ABOVE SLAB SANITARY PIPING
ST	BELOW SLAB STORM (ROOF DRAINAGE) PIPING
RD	ABOVE SLAB STORM (ROOF DRAINAGE) PIPING
V (V)	SANITARY VENT PIPING
CD (CD)	CONDENSATE DRAIN PIPING
	EXISTING PIPING TO REMAIN
	EXISTING PIPING & EQUIP. TO BE REMOVED
	CHECK VALVE
	FLOOR PENETRATION
AW	ACID WASTE
AV	ACID VENT
	HOT WATER SUPPLY PIPING
	HOT WATER RETURN PIPING
C	CONDENSATE DRAIN PIPING
RS	REFRIGERANT SUCTION PIPING
RL	REFRIGERANT LIQUID PIPING
	EXG. PIPING & EQUIPMENT TO REMAIN
(OR)	SHUT-OFF VALVE
	TOP PIPE CONNECT
	BOTTOM PIPE CONNECT
	BALANCING VALVE/ AUTO. FLOW CONTROL FITTING/ SPRINKLER UPRIGHT
	DOMESTIC COLD WATER PIPING
	DOMESTIC HOT WATER PIPING
	DOMESTIC RECIRCULATING WATER PIPING
	POINT OF CONNECTION

HVAC

SYMBOL	DESCRIPTION
	DUCT W/ MANUAL VOLUME DAMPER
	SUPPLY AIR DIFFUSER
	GRILLE OR REG.
FD	FIRE DAMPER
T	THERMOSTAT
TG	THERMOSTAT W/ GUARD
S	SENSOR
	MITERED ELBOW W/ TURNING VANES
10/8	FIRST # IS DUCT WIDTH SIZE
	POINT OF CONNECTION
	DUCT DOWN
	DUCT UP
	DUCT PENETRATION THRU FLOOR OR ROOF ABOVE SUPPLY
	DUCT PENETRATION THRU FLOOR OR ROOF ABOVE EXHAUST OR RETURN
AAD	AUTOMATIC DAMPER
D-1 100	DIFFUSER NUMBER CFM
G-1 300	GRILLE NUMBER CFM
R-1 500	REGISTER NUMBER CFM

ELECTRICAL & TECHNOLOGY

SYMBOL	DESCRIPTION	MFC./NO. & REMARKS
S	CEILING MOUNT SPEAKER	INTERIOR: BOSCH LBC3086/41 EXTERIOR: POLY PLANER MA4056-6*
S	WALL MOUNT SPEAKER	
OS	CEILING MOUNTED OCCUPANCY SENSOR	
$	SINGLE POLE SWITCH	PASS & SEYMOUR CS20ACI
$3	3 WAY SWITCH	PASS & SEYMOUR CS20AC3
$4	4 WAY SWITCH	PASS & SEYMOUR CS20AC4
$OC	OCCUPANCY SENSOR SWITCH	SENSOR SWITCH WSD-PDT
$LV	LOW VOLTAGE SWITCH	DUAL TECHNOLOGY
	DUPLEX RECEPTACLE	PASS & SEYMOUR PS5362 20A RATING
GFI	GFI RECEPTACLE	PASS & SEYMOUR PS2095 20A RATING, 120V
WP	WEATHERPROOF RECEPTACLE	PASS & SEYMOUR PS2094 20A RATING, INSTALLED W/ WATER TIGHT HOUSING
	QUADPLEX	PASS & SEYMOUR PS5262
	SPECIAL PURPOSE RECEPTACLE	PROVIDE 30A RECEPTACLE FOR DRYER
	FUSED DISCONNECT	CULTER-HAMMER/ SQUARED
J	JUNCTION BOX	
	MOTOR	SEE ELECTRICAL EQUIPMENT SCHEDULE
	DATA/TELEPHONE NETWORK JACK	PROVIDE BOX & 3/4" CONDUIT TO 6" ABOVE FIN. CEILING/ CONCEALED SPACE
#	DATA #=QUANTITY DATA DROPS	CATEGORY 6 DATA OUTLET
WAP	WIRELESS ACCESS POINT	PROVIDE 3/4" SLEEVE AND BACK BOX IN WALL.
CR	CARD/PROXIMITY READER	MOUNT AT 4'-6" AFF. PROVIDE CONDUIT & BACK BOX.
DC	DOOR CONTACT	REFER TO DOOR HARDWARE SPECIFICATIONS
ES	ELECTRIC STRIKE	
REX	REQUEST TO EXIT DEVICE	
TV	COAXIAL CABLE TV OUTLET	PROVIDE BOX & 3/4" CONDUIT TO 6" ABOVE FIN. CEILING/ CONCEALED SPACE
	3 BUTTON DOOR OPENER	
	360° CAMERA DOME CEILING MOUNT	PROVIDE 3/4" SLEEVE & BACK BOX AT EXTERIOR WALL LOCATIONS
	POLE MOUNTED EXTERIOR CAMERA	PROVIDE 3/4" SLEEVE & BACK BOX AT EXTERIOR WALL LOCATIONS
VS	FA AUDIO-VISUAL DEVICE CEILING MOUNTED	SIMPLEX 4906-9101
#	FA VIDEO AUDIO DEVICE	SIMPLEX 4906-9127, # 15 DECIBEL LEVEL
	2' x 2' SUPPLY AIR DIFFUSER	
	2' x 2' RETURN AIR DIFFUSER	
	1'-0" x 1'-0" SUPPLY AIR DIFFUSER	
	1'-0" x 1'-0" EXHAUST GRILL	
	CLG MOUNT EXIT SIGN	NI-CAD W/ SELF DIAGNOSTICS, PROVIDE 90 MINUTE BATTERY BACKUP
	CABLE TRAY	
FO	FIBER OPTICAL CABLING	
	MULTI COMPARTMENT POWER POLE	
FB	FLOOR BOX	
PB	PULL BOX	

SYMBOL	DESCRIPTION	MFC./NO. & REMARKS
	MULTI COMPARTMENT SURFACE RACEWAY	
W	WALL MOUNT STYLE CAT. 6 TELEPHONE OUTLET	
W(#)	CATEGORY 6 TELEPHONE OUTLET # = QTY. OF OUTLETS IF GREATER THAN ONE	
####	IP TELEPHONE LOCATION #### = PHONE TYPE	
	HORN TYPE SPEAKER	
VC	SPEAKER VOLUME CONTROL	
C S	CLOCK / SPEAKER	
C	CLOCK	
TV	TELEVISION OUTLET	
PROJ	PROJECTOR	
INTERACTIVE BOARD	INTERACTIVE BOARD	
AV	AUDIO / VIDEO CONNECTIONS TO PROJECTOR	
#	SECURITY CAMERA # = CAM NUMBER	
IC	INTERCOM	
	LIGHTING ARRESTOR	
CR	COMMUNICATIONS RACEWAY DEVICE LOCATION	
CB	COMMUNICATIONS BACKBOX LOCATION	
	EMERGENCY LIGHTING	SEE LIGHTING FIXTURE SCHEDULE
	HIGH BAY PENDANT MOUNT	SEE LIGHTING FIXTURE SCHEDULE
	2x2 FLAT PANEL RECESSED MOUNT	SEE LIGHTING FIXTURE SCHEDULE
	WALL PACK LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE
	OVER DOOR WALL PACK MOUNT	SEE LIGHTING FIXTURE SCHEDULE
	EXIT SIGN LED W/ DUAL HEADLIGHTS	SEE LIGHTING FIXTURE SCHEDULE
	EXIT SIGN LED	SEE LIGHTING FIXTURE SCHEDULE
	INDUSTRIAL LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE
	FLOOD LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE
	SCONCE LIGHT FIXTURE	SEE LIGHTING FIXTURE SCHEDULE

ARCHITECTURAL

SYMBOL	DESCRIPTION
	ROOM NAME, #, & APPROXIMATE AREA
A5.1 A5.1	BUILDING SECTION CALLOUT
A5.1	WALL SECTION / DETAIL SECTION
A5.1 3 3	INTERIOR ELEVATION CALLOUT
A5.1 2	EXTERIOR ELEVATION CALLOUT
A5	DETAIL / TITLE NUMBER
A	COLUMN GRID LINE
	CUT LINE
	MATCH LINE
	CENTERLINE
FIN. 1ST FLOOR 0' - 0"	ELEVATION INDICATOR
DOOR N	CASEWORK NUMBER & TYPE - REFER TO CASEWORK SCHEDULE
100-A	WINDOW NUMBER
100-1	DOOR NUMBER
1A	WALL PARTITION TYPE
D1	DEMOLITION KEYNOTE
3	DRAWING KEYNOTE
G	MARKERBOARD AND TACKBOARD TYPES
T	TOILET ACCESSORY TAG
FEC	FIRE EXTINGUISHER CABINET
	ELEVATION MARK OR COORDINATE POINT
RD	ROOF DRAIN
	SLOPE
V	VENT PIPE
	EXHAUST HOOD
	EXISTING WALL / CONSTR. TO REMAIN
	DEMOLITION WORK
	NEW MASONRY WALL CONSTRUCTION
	NEW STUD WALL CONSTRUCTION

SYMBOL	DESCRIPTION
	EARTH / COMPACT FILL
	POROUS FILL / GRAVEL
	CONCRETE / STRUCTURAL CONCRETE
	SAND / ARCHITECTURAL PRECAST CONCRETE
	BRICK / BRICK PAVERS
	CONCRETE MASONRY
	STEEL
	FINISH WOODWORK
	NOMINAL CUT LUMBER, CONTINUOUR BLOCKING
	BLOCKING, SHIM
	PLYWOOD / PARTICLEBOARD
	PLASTIC / SOLID SURFACE
	BATT INSULATION
	RIGID INSULATION
	FIREPROOFING
	GLAZING
	LATH AND PLASTER
	CARPET
	TERRAZZO
	CERAMIC TILE - SECTION
	GYPSUM WALL BOARD

GENERAL SYMBOL ANNOTATIONS:

"E" = EXISTING TO REMAIN
"R" = EXISTING TO BE REPLACED
"RE" = EXISTING TO BE RELOCATED
"WG" = PROVIDE WIRE GUARD
"W-MT" = WALL MOUNT

FIRE & LIFE SAFETY

SYMBOL	DESCRIPTION	
S	HARD WIRED SMOKE DETECTOR	NI-CAD W/ SELF DIAGNOSTICS
C	CARBON MONOXIDE DETECTOR	NI-CAD W/ SELF DIAGNOSTICS
H	HEAT DETECTOR	NI-CAD W/ SELF DIAGNOSTICS
	RECESSED SPRINKLER HEAD	
	SEMI-RECESSED SPRINKLER HEAD	
FA	AUDIO ALARM DEVICE	
FA	AUDIO/VISUAL DEVICE	
F	FIRE ALARM PULL BOX STATION	SIMPLEX 4099-9001
FACP	FIRE ALARM CONTROL PANEL	
#	EGRESS CAPACITY	
	ACCESSIBLE ENTRANCE	
	EXIT SIGN W/DOOR HEAD EMERGENCY LIGHTS	
	WALL MOUNTED EXIT SIGN, ARROW INDICATING DIRECTION	
	DUAL HEAD EMERGENCY LIGHT	
	EXTERIOR REMOTE HEAD EMERGENCY LIGHT	
FE	WALL MOUNTED PORTABLE FIRE EXTINGUISHER W/SIGNAGE	
	1 HR RATED FIRE WALL	
	2 HR RATED FIRE WALL	
	3 HR RATED FIRE WALL	
	EGRESS PATH	
	ALTERNATE EGRESS PATH	
	FUTURE AREA NOT IN PROJECT	
FACP	FIRE ALARM CONTROL PANEL	SIEMENS CERBERUS PRO FC922 (OR EQUAL)

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ISSUED / REVISIONS	DATE
0 ISSUED FOR BID	11-10-25

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OWNER/CLIENT
FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT
ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING
SYMBOLS

DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
G-1.1

PRELIMINARY
NOT FOR CONSTRUCTION

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ABBREVIATIONS

A

A	AREA
A/C	AIR CONDITIONING
AB	ANCHOR BOLT
ABV	ABOVE
AC	ALTERNATING CURRENT
ACT	ACOUSTIC CEILING TILE
ACW	ALUMINUM CLAD WOOD
AD	AREA DRAIN
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
ADO	AUTOMATIC DOOR OPENER
AESS	ARCH EXPOSED STRUCTURAL STEEL
A.F.F.	ABOVE FINISH FLOOR
A.F.G.	ABOVE FINISH GRADE
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AMP	AMPERAGE
ANC	ANCHOR(AGE)
ANOD.	ANODIZED
APPROX.	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASB	ASBESTOS
ASBC	ASBESTOS CONTRACTOR
ASPH	ASPHALT
AWG	AMERICAN WIRE GAGE
AWN	AWNING
AUX	AUXILARY

B

BCU	BLOWER CONTROL UNIT
BCJ	BRICK CONTROL JOINT
BCNYS	BUILDING CODE OF NEW YORK STATE
BD	BOARD
BEJ	BRICK EXPANSION JOINT
BEL	BELOW
BEV	BEVELED
BEF	BOARD FEET
BEL	BELOW
BF	BOARD FEET
BIT	BITUMINOUS
BL	BUILDING LINE
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BENCH MARK
BO	BOTTOM OF
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BPL	BEARING PLATE
BRD	BOARD
BRG	BEARING
BRK	BRICK
BRM	BEDROOM
BS	BOTH SIDES
BUR	BUILT-UP ROOF
BW	BOTH WAYS

C

C	CHANNEL
C-C	CENTER TO CENTER
CAB	CABINET
CAP	CAPACITY
CB	CATCH BASIN
CBF	HUNDRED BOARD FEET
CD	COLD DRAIN
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FOOT
CFLG	COUNTER FLASHING
CFM	CUBIC FEET PER MINUTE
CFMF	COLD-FORMED METAL FRAMING
CFS	CUBIC FEET PER SECOND
CH	CABINET HEATER
CHBD	CHALKBOARD
CI	CAST IRON
CIP	CAST-IN-PLACE CONCRETE
CIR	CIRCLE
CJ	CONTROL JOINT
CK	CAULK(ING)
CL	CENTERLINE
CLAD	ALUMINUM CLAD
CLG	CEILING
CLO	CLOSET
CLR	CLEAR(ANCE)
CLS	CLOSURE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT, COMPANY
COL	COLUMN
COMB	COMBINATION
COMP	COMPACT(ED)
CONC	CONCRETE
CON	CONNECTOR, CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CONTR	CONTRACT(OR)
COORD	COORDINATE
CP	CLAY PIPE
CPG	COPING
CPR	COPPER
CPT	CARPET(ED)
CR	COLD ROLLED
CRS	COURSE(S)
CS	COVER SHEET
CSMT	CASEMENT
CST	CAST STONE
CT	CERAMIC TILE
CTR	COUNTER
CU	CUBIC
CULV	CULVERT
CV	CHECK VALVE
CW	COLD WATER
CY	CUBIC YARD

D

DBL	DOUBLE
DC	DIRECT CURRENT
DEG	DEGREE
DEMO	DEMOLISH, DEMOLITION
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA, Ø	DIAMETER
DIAG	DIAGONAL, DIAGRAM
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DLV	DOOR LOUVER
DMPR	DAMPER
DN	DOWN
DOZ	DOZEN
DP	DAMP-PROOFING
DR	DOOR
DS	DOWNSPOUT
DT	DRAIN TILE
DTA	DOVETAIL ANCHOR
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING

E

EBCNYS	EXISTING BUILDING CODE OF NEW YORK STATE
EC	ELECTRICAL CONTRACTOR
EF	EACH FACE
EIFS	EXTERIOR INSULATED FASCIA SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENC	ENCLOSE, ENCLOSURE
ENG	ENGINEER
ENT	ENTRANCE
EOC	EVERY OTHER COURSE
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
ES	EACH SIDE
EST	ESTIMATE(D)
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWF	ELECTRIC WALL FAN
EXC	EXCAVATE
EXG	EXISTING
EXH	EXHAUST
EXP	EXPOSED
EXT	EXTERNAL, EXTERIOR

F

FA	FIRE ALARM, FRESH AIR
FAB	FABRICATE
FAI	FRESH AIR INTAKE
FAS	FASTENER
FB	FACE BRICK
FBO	FINISHED BY OTHERS
FBR	FIBERBOARD
FC	FAN COIL
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FDN	FOUNDATION
FDR	FOLDING DOOR
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FINISH FLOOR ELEVATION
FG	FIBERGLASS
FGL	FIBERGLASS
FIG	FIGURE
FIN	FINISH(ED)
FLCO	FLOOR CLEANOUT
FLEX	FLEXIBLE
FLG	FLASHING
FLOUR	FLOURESCENT
FLR	FLOOR(ING)
FO	FRAMED OPENING
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FP	FIRE PROOF
FPL	FLOOR PLATE
FR	FRAME(D), FRAMING
FRT	FIRE-RETARDANT
FS	FRAME SIZE
FT	FOOT, FEET
FTG	FOOTING
FUR	FURRED, FURRING
FURN	FURNITURE
FXT	FIXTURE

G

G	GAS
GA	GAGE, GAUGE
GALV	GALVANIZD
GB	GRAB BAR
GC	GENERAL CONTRACT(OR)
GCMU	GLAZED CMU
GD	GRADE, GRADING
GF	GRANULAR FILL
GFI	GROUND FAULT INTERRUPTER
GI	GALVANIZED IRON
GL	GLASS, GLAZING
GP	GALVANIZED PIPING
GPM	GALLONS PER MINUTE
GSS	GALVANIZED STEEL SHEET
GST	GLAZED STRUCTURAL TILE
GVL	GRAVEL
GWB	GYPSUM WALL BOARD
GYP	GYPSUM

H

HB	HOSE BIB
HC	HVAC CONTRACTOR
HCP	HANDICAP
HD	HEAVY DUTY
HDJT	HEAD JOINT
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HH	HANDHOLE
HI	HEIGHT OF INSTRUMENT
HK	HOOK(S)
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HORSEPOWER
HR	HANDRAIL
HS	HARDWARE SET
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HTX	HEAT EXCHANGE
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HW	HOT WATER
HWH	HOT WATER HEATER
HYD	HYDRANT

I

ID	INSIDE DIAMETER
IN	INCH(")
INCIN	INCINERATOR
INCL	INCLUDE(D), INCLUDING
INFO	INFORMATION
INS	INSULATE(D)
INSMTL	INSULATED METAL
INT	INTERIOR
INTERM	INTERMEDIATE
INV	INVERT (ELEVATION)
IP	IRON PIPE / IRON PIPE SIZE

J

JC	JANITOR'S CLOSET
JF	JOINT FILLER
JNT	JOINT
JST	JOIST

K

KIT	KITCHEN
KO	KNOCKOUT
KPL	KICKPLATE

L

L	LENGTH
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATED
LAT	LATITUDE, LATITUDINAL
LAV	LAVATORY
LBL	LABEL
LED	LIGHT EMITTING DIODE
LF	LINEAR FOOT
LGMF	LIGHT GAUGE METAL FRAMING
LH	LEFT HAND
LIC	LICENSE(D)
LIN	LINEAR
LINO	LINOLEUM
LIQ	LIQUID
LKR	LOCKER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMS	LIMESTONE
LONG	LONGITUDE, LONGITUDINAL
LP	LIGHT PLATE
LPT	LOW POINT
LRG	LARGE
LS	LANDSCAPE
LT	LIGHT
LTG	LIGHTING
LTL	LINTEL
LVL	LAMINATED VENEER LUMBER, LEVEL
LVR	LOUVER

M

MACH	MACHINE
MAH	MAHOGANY
MAINT	MAINTENANCE
MANUF	MANUFACTURER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBF	MEMBER
MC	MECHANICAL CONTRACT(OR)
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MED	MEDIUM
MECH	MECHANICAL
MEM	MEMBRANE
MFD	MANUFACURED
MFG	MANUFACTURING
MFR	MANUFACTUR(ER)
MGMT	MANAGEMENT
MGR	MANAGER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MKBD	MARKERBOARD
MLD	MOULDING, MOLDING
MMB	MEMBRANE
MO	MASONRY OPENING
MOD	MODULAR
MON	MONUMENT
MOV	MOVABLE
MRB	MARBLE
MRD	METAL ROOF DECKING
MNT	MOUNT
MTFR	METAL FURRING
MTL	METAL
MUL	MULLION
MULT	MULTIPLE
MWK	MILLWORK

N

NA	NOT AVAILABLE, NOT APPLICABLE
NAT	NATURAL
NEC	NATIONAL ELECTRICAL CODE, NECESSARY
NEG	NEGATIVE
N/F	NOW OR FORMERLY
NIC	NOT IN CONTRACT
NL	NAILABLE
NMT	NONMETALLIC
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NS	NEAR SIDE
NTS	NOT TO SCALE

O

OA	OVERALL
OBS	OBSCURE
OC	ON CENTER(S)
OD	OUTSIDE DIAMETER
OFF	OFFICE
O/H	OVERHEAD
OHG	OVERHANG
OPG	OPENING
OPH	OPPOSITE HAND
OPP	OPPOSITE
OPS	OPPOSITE SURFACE
ORIG	ORIGINAL
OWSJ	OPEN-WEB STEEL JOIST

P

P	PLUMBING
PA	PUBLIC ADDRESS
PAR	PARALLEL
PART	PARTITION
PB	PANIC BAR
PBD	PARTICAL BOARD
PLBG	PLUMBING
PC	PLUMBING CONTRACT(OR)
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PE	PORCELAIN ENAMEL
PEN	PENETRATION
PERF	PERFORATE(D)
PERI	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PFB	PRE FABRICATE(D)
PFN	PREFINISHED
PG	PLATE GLASS
PKG	PARKING
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAST	PLASTER
PLF	POUNDS PER LINEAR FOOR
PLS	PLASTIC
PLT	PLATE
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT(ED)
POB	POINT OF BEGINNING
POL	POLISHED
POS	POSITIVE
PR	PAIR
PREP	PREPARE
PRF	PREFORMED
PROJ	PROJECT
PRT	PRESERVATIVE TREATED
PSC	PRE-STRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTOR
PUR	POLYURETHANE
PV	PAVE(D), PAVING
PVC	POLYVINYL CHLORIDE
PVCP	PVC PIPE
PVMT	PAVEMENT
PWD	PLYWOOD
PWR	POWER

Q

QA	QUALITY ASSURANCE
QC	QUALITY CONTROL
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY

R

R	RISE(R)
RA	RETURN AIR
RAD	RADIUS
RBR	RUBBER
RBT	RABBET
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RCP	REFLECTED CEILING PLAN
REF	REFERENCE
REFR	REFRIGERATE(D), REFIRGERATOR
REG	REGISTER
REINF	REINFORCE(D), REINFORCING
REQ	REQUIRED
RES	RESILIENT
RET	RETURN
REV	REVISED, REVISION(S)
RFG	ROOFING
RFH	ROOF HATCH
RFL	REFLECT(ED), (IVE), (OR)
RH	RIGHT HAND
RIM	RIM (ELEVATION)
RL	RAIL(ING)
RM	ROOM
RMV	REMOVE
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RP	RADIANT PANEL
RPM	REVOLUTIONS PER MINUTE
RS	RIENFORCING STEEL
RT	RUBBER TILE
RTE	ROUTE
RWC	RAINWATER CONDUCTOR

S

SAN	SANITARY (SEWER)
SB	SPLASHBLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SCN	SCREEN
SD	SMOKE DETECTOR
SDG	SIDING
SEC	SECTION
SF	SQUARE FOOT
SFGL	SAFETY GLASS
SFR	STORE FOR REUSE
SGT	STRUCTURAL GLAZED TILE
SH	SILL HEIGHT
SHT	SHEET
SHTG	SHEATHING
SHWR	SHOWER
SIM	SIMILAR
SKL	SKYLIGHT
SL	SLIDING
SNT	SEALANT
SP	SOUND PROOF
SPC	SPACER
SPEC	SPECIFICATION(S)
SPKR	SPEAKER
SPL	SPECIAL
SQ	SQUARE
SSK	SERVICE SINK
SS	STAINLESS STEEL
ST	STREET
STA	STATION
STC	SOUND TRANSMISSION COEFFICIENT
STD	STANDARD
STL	STEEL
STN	STAIN(ED)
STND	STANDARD
STOR	STORAGE
STR	STRUCTURAL
SUBSTR	SUBSTRUCTURE
SUP	SUPPLY
SUPT	SUPERINTENDENT
SURF	SURFACE
SUSP	SUSPENDED
SW	SWITCH
SY	SQUARE YARD
SYS	SYSTEM

T

T	TREAD
TRM	TOILET ROOM
T&B	TOP & BOTTOM
T&G	TONGE & GROOVE
TAB	TABULATE
TC	TERRA COTTA
TEL	TELEPHONE
TEMP	TEMPORARY, TEMPERATURE
TF	TRANSPARENT FINISH
THK	THICK(NESS)
THR	THRESHOLD
TKBD	TACKBOARD
TKS	TACKSTRIP
TL	TILE
TMBR	TERMINATION BAR
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOPO	TOPOGRAPHY, TOPOGRAPHIC
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TR	TRANSOM
TV	TELEVISION, CABLE
TWP	TOWNSHIP
TYP	TYPICAL
TPTN	TOILET PARTITION
TZ	TERRAZZO

U

U/G	UNDERGROUND
UC	UNDERCUT
UN	UNLESS NOTED
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UNP	UNPAINTED
UR	URINAL
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORIES
UNEX	UNEXCAVATED
UV	UNIT VENTILATOR

V

V	VENT, VOLT, VOLTAGE
VB	VINYL/RUBBER BASE
VCP	VITRIFIED CLAY PIPE
VCT	VINYL COMPOSITION TILE
VENT	VENTILATOR
VERT (V)	VERTICAL
VEST	VESTIBULE
VF	VINYL FABRIC
VIF	VERIFY IN FIELD
VIN	VINYL
VJ	V-JOINT(ED)
VOL	VOLUME
VWC	VINYL WALL COVERING
VAR	VARIABLE, VARIES
VAV BOX	VARIABLE AIR VOLUME BOX
VTR	VENT THROUGH ROOF

W

W	WIDE, WIDTH, WASTE, WATT, WEST
W/	WITH
W/O	WITHOUT
WB	WOOD BASE, WET BULB
WC	WATER CLOSET (TOILET)
WD	WOOD
WF	WALL FIN RADIATION
WG	WIRE(D) GLASS
WH	WATER HEATER, WALL HYDRANT
WHB	WHEEL BUMPER
WI	WROUGHT IRON
WM	WIRE MESH
WCO	WALL CLEANOUT
WDW	WINDOW
WP	WATERPROOF(ED), (ING)
WR	WATER REPELLENT
WS	WATERSTOP
WSCT	WAINSCOT
WT	WEIGHT
WTW	WALL TO WALL
WV	WALL VENT
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

X

X	BY (BETWEEN DIMENSIONS)
XSECT	CROSS SECTION

Y

YD	YARD
YR	YEAR

Z

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FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT
ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING
ABBREVIATIONS

DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
G-1.2

FIRE & LIFE SAFETY GENERAL NOTES

1. VERIFY LOCATIONS OF NEW WORK REQUIRED FOR CONSTRUCTION.
2. THIS CONTRACTOR IS RESPONSIBLE FOR CUTTING & PATCHING MADE NECESSARY BY THEIR WORK. PATCHING & FINISHING SHALL MATCH ADJACENT SURFACES.
3. ALL DEBRIS & ITEMS SHALL BE REMOVED FROM THE JOB SITE & PROPERLY DISPOSED OF, EXCEPT AS DIRECTED BY THE OWNERS REPRESENTATIVE.
4. COORDINATE ALL WORK WITH THE FUNCTIONS OF ADJACENT AREAS. PROVIDE SLAB CUTTING & PATCHING AS NECESSARY TO MAKE CONNECTIONS.
5. DO NOT INSTALL ANY FIRE PROTECTION WORK ABOVE ELECTRICAL PANELS.
6. SLEEVE & SEAL ALL PIPE PENETRATIONS OF WALLS & FLOORS. PACK VOID BETWEEN PIPE & SLEEVE WITH INSULATION IN NON-RATED WALLS & FLOORS. PACK VOID BETWEEN PIPE & SLEEVE WITH INSULATION IN FIRE-RATED WALLS & FLOORS; APPLY INTUMESCENT FIRE SAFING COMPOUND AT PENETRATION, MAINTAINING INTEGRITY & RATING OF FIRE SEPARATION. SLEEVES THROUGH FLOORS SHALL EXTEND 2" ABOVE FLOOR, BE GROUTED INTO PLACE & WATERPROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED & SEALED WEATHER TIGHT.
7. COVERAGE SHALL MEET OR EXCEED THE REQUIREMENTS OF NFPA-13. FIELD CONDITIONS MAY DICTATE ADDITIONAL HEADS BE PROVIDED. CONTRACTOR SHALL MAKE PROVISIONS FOR SUCH CIRCUMSTANCES. NO ADDITIONAL COSTS WILL BE ALLOWED FOR SUCH SITUATIONS.
8. CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR CIRCUMSTANCES ARISING OUT OF CONTRACTORS FAILURE TO PERFORM THIS EXAMINATION.
9. FIRE PROTECTION CONTRACTOR TO INSTALL SPRINKLERS AND TEST SYSTEM PER NFPA-13.
10. THE ENTIRE INSTALLATION OF THE FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH "NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE", THE LATEST EDITION OF N.F.P.A. PAMPHLET #13 AND THE OWNER'S INSURANCE CARRIER, AS WELL AS THE LOCAL FIRE DEPARTMENT REGULATIONS.
11. THE SPRINKLER HEADS INDICATED ON THE PLANS ARE SHOWN FOR BIDDING AND APPROVAL PURPOSES ONLY. THE PIPING SYSTEM MUST BE DESIGNED HYDRAULICALLY BY THE CONTRACTOR TO PROVIDE THE PRESCRIBED DENSITY OVER THE MOST REMOTE SPECIFIED AREA. ANY CHANGES IN LAYOUT REQUIRED BY THE FINAL DESIGN PROCEDURE SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. THE FOLLOWING ARE DESIGN STANDARDS FOR SPRINKLER WORK. THE CONTRACTOR SHALL VERIFY THESE STANDARDS WITH OWNER'S INSURANCE CARRIER.
12. ALL AREAS: LIGHT HAZARD GROUP, .10 GPM/SQ. FT. OVER 1500 SQ. FT., 225 SQ. FT. PER HEAD MAXIMUM COVERAGE, WET SYSTEM.

FIRE & LIFE SAFETY SYMBOLS

	EXIT SIGN W/DOOR HEAD EMERGENCY LIGHTS		OPEN TO BELOW, UNEXCAVATED, OR VERTICAL SHAFT
	WALL MOUNTED EXIT SIGN ARROW INDICATING DIRECTION		ACCESSIBLE ENTRANCE
	DUAL HEAD EMERGENCY LIGHT	F	FIRE PULL
	EXTERIOR REMOTE HEAD EMERGENCY LIGHT	F	FIRE ALARM W/STROBE
FE	WALL MOUNTED PORTABLE FIRE EXTINGUISHER W/SIGNAGE	S	HARD WIRED SMOKE DETECTOR
	EGRESS PATH	C	CARBON MONOXIDE DETECTOR
	ALTERNATE EGRESS PATH	H	HEAT DETECTOR
F	AUDIO/VISUAL DEVICE		RECESSED SPRINKLER HEAD
F	FIRE ALARM PULL BOX STATION		SEMI-RECESSED SPRINKLER HEAD
FACP	FIRE ALARM CONTROL PANEL		DENOTES FUTURE PHASE WALLS

PROJECT CODE INFORMATION

THE BUILDING SHALL BE IN COMPLIANCE WITH THE MOST RECENT VERSION OF THE FOLLOWING CODES:

- 2020 BUILDING CODE OF NEW YORK STATE (NYSBC)
- 2020 ENERGY CONSERVATION CODE OF NY YORK STATE (NYSECC)
- 2020 FIRE CODE OF NEW YORK STATE (NYSFC)
- 2020 MECHANICAL CODE OF NEW YORK STATE (NYSMC)
- 2020 PLUMBING CODE OF NEW YORK STATE (NYSPC)
- 2014 NATIONAL ELECTRICAL CODE (NEC)
- 2013 ICC/ANSI A117.1
- CURRENT NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

EXISTING BUILDING INFO	NOTES		SECTION
DESCRIPTION	NEW CONSTRUCTION OF A VISITOR CENTER FOR THE PRISON CAMP		
CLASSIFICATION OF WORK	NEW CONSTRUCTION	--	

OCCUPANCY CLASS AND SQUARE FOOTAGE				
OCCUPANCY	CLASS	SQ. FT.	NOTES	SECTION
ASSEMBLY (A-3)	A-3	6,369		NYSBC 302-312
		15,898	TOTAL BUILDING	

CONSTRUCTION TYPE			
OCCUPANCY	CONST. TYPE	NOTES	SECTION
A-3	VB	--	NYSBC 602

CONSTRUCTION TYPE REQUIREMENTS				
BUILDING ELEMENT	RATING	CONST. TYPE	NOTES	SECTION
STRUCTURAL FRAME	0	VB		NYSBC TABLE 601
BEARING WALLS (EXT.)	0	VB		
BEARING WALLS (INT.)	0	VB		
NON-BEARING WALLS (EXT.)	0	VB		NYSBC TABLE 602
NON-BEARING WALLS (INT.)	0	VB		NYSBC TABLE 601
ROOF CONSTRUCTION	0	VB		

ALLOWABLE HEIGHTS AND AREA				
REQUIREMENT	ALLOWABLE	ACTUAL	NOTES	SECTION
BUILDING HEIGHT				NYSBC TABLE 504.3
ASSEMBLY (A-3)	60 FT	32 FT 1 IN		
NUMBER OF STORIES				NYSBC TABLE 504.4
ASSEMBLY (A-3)	3 STORIES	2 STORIES		
SQUARE FOOTAGE				NYSBC TABLE 506.2
ASSEMBLY (A-3)	18,000	6,369		

FIRE PROTECTION SYSTEMS				
ELEMENT	REQUIRED	PROVIDED	NOTES	SECTION
SPRINKLER SYSTEM	NO	NO		NYSBC 903
YARD HYDRANTS	N/A	NO		NYSBC 903
STANDPIPE SYSTEMS	NO	NO		NYSBC 905
PORTABLE FIRE EXTINGUISHERS	YES	YES		NYSBC 906
FIRE ALARM/DETECTION SYSTEMS	NO	YES	SMOKE ALARMS PROVIDED	NYSBC 907
SMOKE AND HEAT VENTS	NO	NO		NYSBC 910

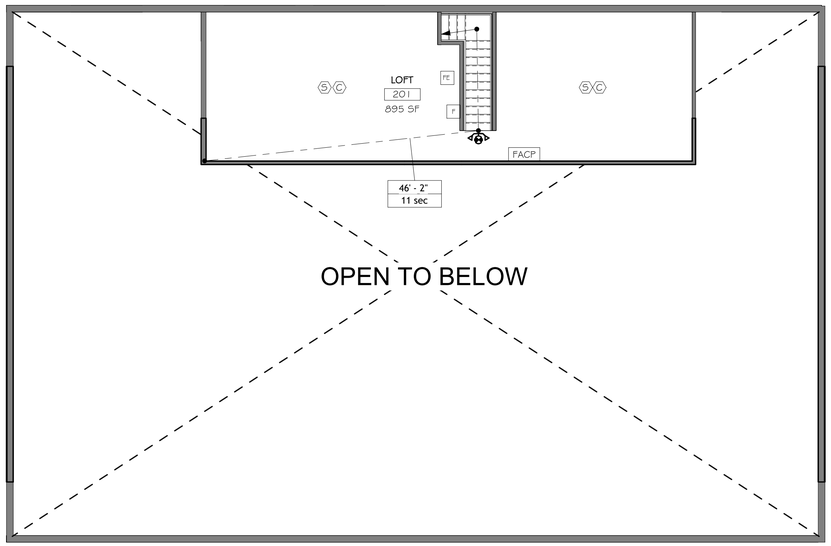
CORRIDORS AND INCIDENTAL USE AREAS			
ELEMENT	RATING	NOTES	SECTION

OCCUPANT LOAD					
FUNCTION OF SPACE	SQ. FT.	RATIO	OCCUPANTS	NOTES	SECTION
ASSEMBLY, A-3	4,446	30 NET	143		NYSBC TABLE 1004.5
BUSINESS	366	150 GROSS	3		
MECHANICAL	858	300 GROSS	3		
		TOTAL OCCUPANTS	149		

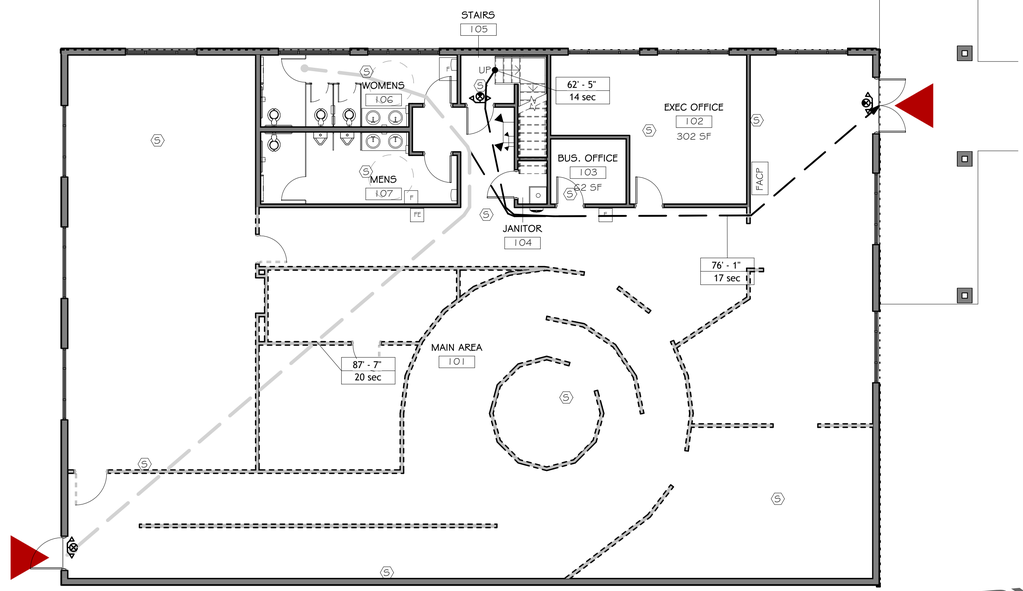
MEANS OF EGRESS			
ELEMENTS	REQUIREMENT	NOTES	SECTION
OCCUPANTS	149	RE: OCCUPANT LOAD ABOVE	
DOORS & CORRIDORS	0.2" x OCC LOAD	36" WIDTH MINIMUM REQUIRED	NYSBC 1005 NYSBC 1010 NYSBC 1011.2
STAIRS	0.3" x OCC LOAD		
TRAVEL DISTANCE	200 FT MAX		NYSBC TABLE 1017.2
TOTAL EXITS			
FIRST FLOOR EXITS	2		NYSBC 1006.3
SECOND FLOOR EXITS	1		

PLUMBING FIXTURES					
OCCUPANTS	REQUIRED		PROVIDED		SECTION
ASSEMBLY (A-3)	MALE - 57	FEMALE - 57	MALE	FEMALE	NYSPC TABLE 403.1
WATER CLOSETS (1 PER 75)	1	2	1 & 2 URINAL	3	
LAVATORIES (1 PER 200)	1	1	2	2	
DRINKING FOUNTAIN (1 PER 500)	1		1		
SERVICE SINK	1		1		

ENERGY COMPLIANCE				
APPLICABILITY	CHANGE IN OCCUPANCY	MUST COMPLY WITH IECC		IECC 101
CLIMATE ZONE	5A			NYSECC TABLE 301.1
BUILDING ELEMENT	TYPE OF CONSTRUCTION	INSULATION REQUIREMENT	NOTES	SECTION
ROOF	ATTIC AND OTHER	R38		NYSECC 502
WALLS, ABOVE GRADE	WOOD FRAMED	R-13 + R-3.8 CI OR R20		
WALLS, BELOW GRADE	BELOW GRADE WALL	R-7.5 CI		
FLOORS	JOIST/FRAMING	R-30		
SLAB-ON-GRADE FLOORS	UNHEATED	R-10 FOR 24" BELOW		
OPAQUE DOORS	SWING	U-.37		



3 LOFT LIFE SAFETY PLAN
1/8" = 1'-0"



2 FIRST FLOOR LIFE SAFETY PLAN
1/8" = 1'-0"

PRELIMINARY
NOT FOR CONSTRUCTION

NOT APPROVED
THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISIONS UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

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OWNER/CLIENT

FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT
ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
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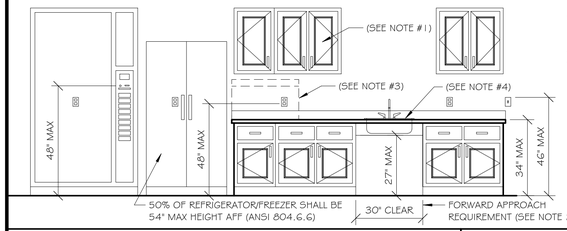
TITLE OF DRAWING
CODE REVIEW, LIFE SAFETY, AND SPECIFICATIONS

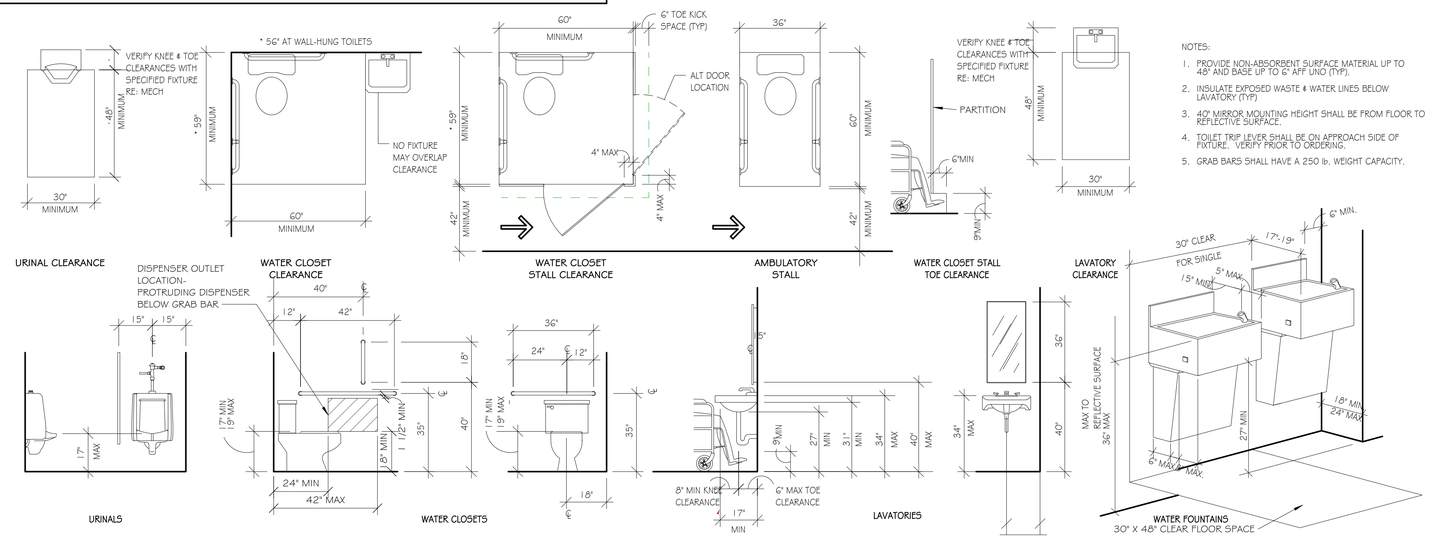
DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
C-1.1

CASEWORK & APPLIANCES



NOTES:
1. 50% OF ALL STORAGE SHALL BE ACCESSIBLE AND MEET REACH REQUIREMENTS (ANSI 804.5) FORWARD APPROACH KNEE AND TOE
2. CLEARANCE NOT REQUIRED FOR KITCHEN SINKS WHERE A COOK TOP OR RANGE IS NOT PROVIDED OR AT WET BARS. (ANSI 606.2)
3. APPLIANCES SHALL BE ACCESSIBLE (ANSI 804.6)
4. LAVATORY, SINK AND OTHER FIXTURES SHALL NOT EXCEED 34" IN HEIGHT. VERIFY EXACT FIXTURE DIMENSIONS PRIOR TO FABRICATION & INSTALLATION OF CABINETRY AND COUNTERTOP

TOILET ROOM FIXTURE HEIGHTS & CLEARANCES

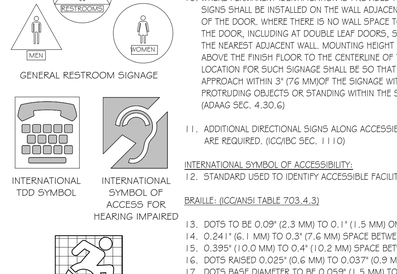


NOTES:
1. PROVIDE NON-ABSORBENT SURFACE MATERIAL UP TO 48" AND BASE UP TO 6" AFF UNO (TYP).
2. INSULATE EXPOSED WASTE & WATER LINES BELOW LAVATORY (TYP)
3. 40" MIRROR MOUNTING HEIGHT SHALL BE FROM FLOOR TO REFLECTIVE SURFACE.
4. TOILET TRIP LEVER SHALL BE ON APPROACH SIDE OF FIXTURE. VERIFY PRIOR TO ORDERING.
5. GRAB BARS SHALL HAVE A 250 lb. WEIGHT CAPACITY.

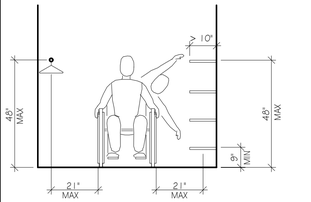
DOOR AND HARDWARE

DOOR TYPE:
1. MINIMUM 10" HIGH SMOOTH SURFACE AT DOOR BOTTOM, EITHER ATTACHED PANEL OR BOTTOM RAIL.

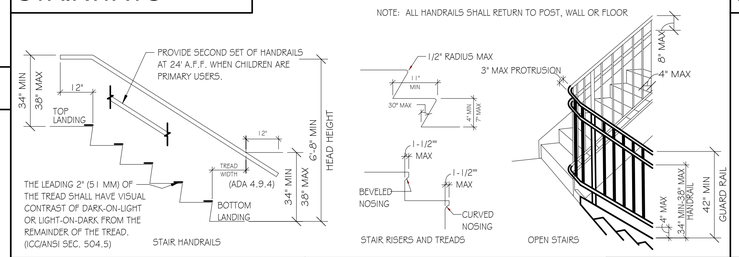
HARDWARE:
1. OPENABLE FROM INSIDE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2. OPENABLE BY SINGLE EFFORT LEVER-TYPE DEVICE (NOT REQUIRING GRASPING).
3. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE HARDWARE TO BE MOUNTED AT 34" TO 48" AFF.
4. MAXIMUM 8.5 LBS. EFFORT TO OPERATE EXTERIOR DOOR, 5 LBS. FOR INTERIOR.



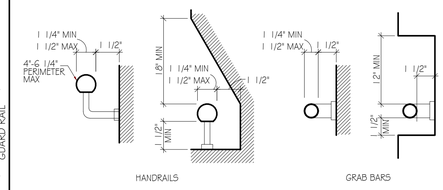
SHELVES & CLOSETS



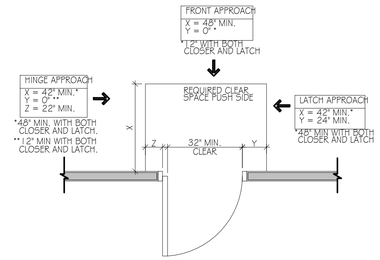
STAIRWAYS



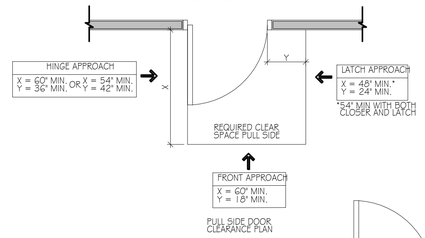
HANDRAIL AND GRAB BAR/MOUNTING



DOOR CLEARANCES



PUSH SIDE DOOR CLEARANCE PLAN



PULL SIDE DOOR CLEARANCE PLAN

TACTILE SIGNAGE AND SYMBOLS

TACTILE SIGNAGE MOUNTING HEIGHTS

INTERNATIONAL SYMBOLS FOR ACCESSIBILITY

RAISED

GENERAL RESTROOM SIGNAGE

INTERNATIONAL TDD SYMBOL

INTERNATIONAL SYMBOL OF ACCESS FOR HEARING IMPAIRED

PROPORTIONS FOR INTERNATIONAL SYMBOLS FOR ACCESSIBILITY

LETTERS AND NUMBERS:

1. LETTERS AND NUMERALS SHALL BE RAISED 1/32" (0.8 MM) MINIMUM, UPPERCASE, SANS-SERIF OR SIMPLE SERIF AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8" (16 MM) HEIGHT, BUT NO HIGHER THAN 2" (50 MM). PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSIONS OF THE PICTOGRAM SHALL BE 6" (152 MM) MINIMUM IN HEIGHT. (ADAAG SEC. 4.30.4)
4. LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10. (ADAAG SEC. 4.30.2)
5. THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. (ADAAG SEC. 4.30.5)
6. CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. (ADAAG SEC. 4.30.3)
7. BRAILLE SHALL BE CONTRACTED (GRADE 2) BRAILLE AND SHALL COMPLY WITH SECTION 703.4. (ICC/ANSI SEC. 703.4.1)
8. BRAILLE SHALL BE BELOW THE CORRESPONDING TEXT. IF TEXT IS MULTILINED, BRAILLE SHALL BE PLACED BELOW THE ENTIRE TEXT. BRAILLE SHALL BE SEPARATED 3/8" (9.5 MM) MIN. FROM ANY OTHER TACTILE CHARACTERS AND 3/8" (9.5 MM) MIN. FROM RAISED BORDERS AND DECORATIVE ELEMENTS. BRAILLE PROVIDED ON ELEVATOR CAR CONTROLS SHALL BE SEPARATED 3/16" (4.8 MM) MIN. EITHER DIRECTLY BELOW OR ADJACENT TO THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS. (ICC/ANSI SEC. 703.4.4)

SIGN LOCATIONS:

9. ALL BUILDING ENTRANCES THAT ARE ACCESSIBLE TO AND USABLE BY PERSONS WITH DISABILITIES AND AT EVERY MAJOR JUNCTION ALONG OR LEADING TO AN ACCESSIBLE ROUTE OF TRAVEL SHALL BE IDENTIFIED WITH A SIGN DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, TO BE VISIBLE TO PERSONS ALONG APPROACHING PEDESTRIAN WAYS. (ICC/IBC SEC. 1110)
10. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACE ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60" (1525 MM) ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3" (76 MM)OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. (ADAAG SEC. 4.30.6)
11. ADDITIONAL DIRECTIONAL SIGNS ALONG ACCESSIBLE PATH OF TRAVEL ARE REQUIRED. (ICC/IBC SEC. 1110)

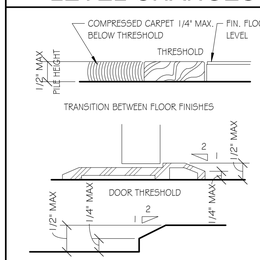
INTERNATIONAL SYMBOL OF ACCESSIBILITY:

12. STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES.

BRAILLE: (ICC/ANSI TABLE 703.4.3)

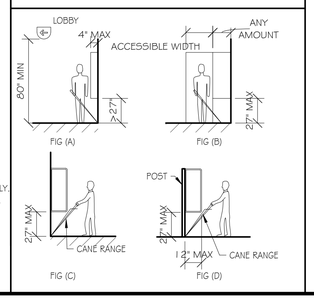
13. DOTS TO BE 0.09" (2.3 MM) TO 0.1" (1.5 MM) ON CENTER IN EACH CELL.
14. 0.241" (6.1 MM) TO 0.3" (7.6 MM) SPACE BETWEEN CELLS HORIZONTALLY.
15. 0.395" (10.0 MM) TO 0.4" (10.2 MM) SPACE BETWEEN CELLS HORIZONTALLY.
16. DOTS RAISED 0.025" (0.6 MM) TO 0.037" (0.9 MM) ABOVE BACKGROUND.
17. DOTS BASE DIAMETER TO BE 0.059" (1.5 MM) TO 0.063" (1.6 MM).

THRESHOLD & LEVEL CHANGES

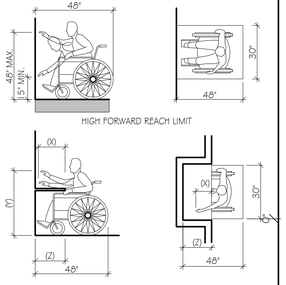


NOTES:
1. 1/2" MAXIMUM TOTAL HEIGHT WITH 1/4" MAXIMUM VERTICAL CHANGE AT EDGE.
2. 1:2 SLOPED BEVEL REQUIRED IF LEVEL CHANGE IS OVER 1/4" VERTICAL.
3. LEVEL CHANGES OF MORE THAN 1/2" MUST BE RAMPED AND COMPLY WITH RAMP REQUIREMENTS.

PROTRUDING OBJECTS



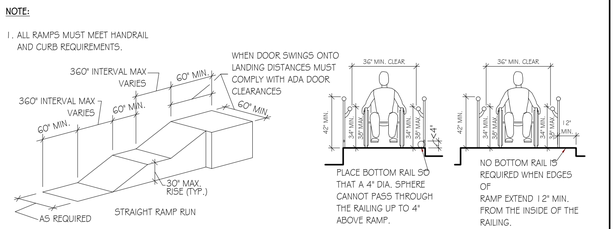
REACH REQUIREMENTS

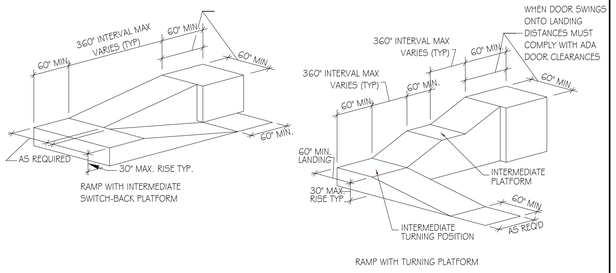


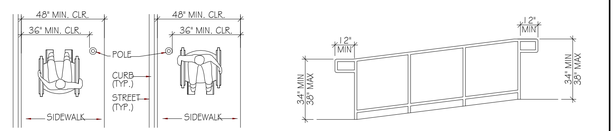
RAMPS

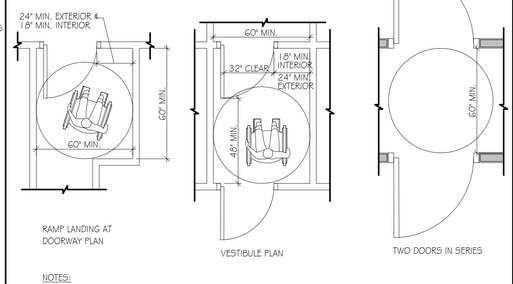
NOTE:

1. ALL RAMPS MUST MEET HANDRAIL AND CURB REQUIREMENTS.









NOTES:
1. CLEAR SPACES MUST BE LEVEL TO PREVENT WHEELCHAIRS FROM ROLLING WHEN THE OCCUPANT RELEASES THE WHEEL GRIPS TO REACH FOR THE DOOR. 1/4" PER FOOT IS ALLOWED FOR DRAINAGE.
2. WHERE DOORS OPEN ONTO, BUT NOT INTO A CORRIDOR, THE REQUIRED LEVEL AREA BEYOND THE DOORS MAY BE A MINIMUM OF 48".
3. THIS DRAWING IF FOR REFERENCE. NOT ALL DETAILS MAY BE APPLICABLE TO THIS PROJECT.

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FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT
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TITLE OF DRAWING
ADA COMPLIANCE DETAILS

DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
C-1.2

ARCHITECTURAL SPECIFICATIONS

DIVISION 1 / GENERAL REQUIREMENTS

1.1 RE: CIVIL, STRUCT, MECH & ELEC FOR SPECIFICATIONS IN ADDITION TO THOSE DESCRIBED BELOW:

1.2 THE LOCALLY ADOPTED STATE BUILDING CODE W/LATEST AMENDMENTS, BULLETINS, AND INTERPRETATIONS AN ALL ADOPTED & REFERENCED SUB CODES, PUBLICATIONS, REPORTS (THE "CODE") APPLIES TO ALL CONSTRUCTION ACTIVITIES (THE "WORK") OF A NATURE AND INTENT INDICATED BY THESE CONSTRUCTION DRAWINGS, SPECIFICATIONS, ADDENDA, ETC. (THE "DOCUMENTS") AT THE STRUCTURE, BUILDING, AND/OR PROJECT/SITE (THE "WORK AREA") REFERENCED HEREIN. THE GENERAL CONTRACTOR (THE "CONTRACTOR" OR "G.C.") SHALL VERIFY ALL CODE REQUIREMENTS BEFORE COMMENCEMENT OF WORK AND BRING ANY DISCREPANCIES BETWEEN CODE REQUIREMENTS AND THE CONSTRUCTION DOCUMENTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER. ALL TRADES, I.E. MECHANICAL, ELECTRICAL, AND PLUMBING SUBCONTRACTORS OR INDEPENDENTLY CONTRACTED INDIVIDUAL TRADE CONTRACTORS (THE "CONTRACTORS"), SHALL PERFORM ALL WORK IN ACCORDANCE WITH ANY AND ALL APPLICABLE CODES CURRENTLY IN EFFECT AT THE TIME OF CONSTRUCTION. CONSTRUCTION "ELEMENTS" OR "COMPONENTS" ARE SPECIFIC PORTIONS OF THE PROJECT SCOPE OF WORK OR SITE CONDITIONS ADDRESSED BY THE DRAWING NOTATION.

1.3 OSHA REGULATIONS SHALL APPLY WHERE REQUIRED DURING THE COURSE OF THE WORK AS IT APPLIES TO WORKER SAFETY. CONTRACTOR SHALL DESIGNATE A "SAFETY DIRECTOR" WHO SHALL BE RESPONSIBLE FOR ALL OSHA SAFETY REQUIREMENTS. NOTHING CONTAINED IN THESE DOCUMENTS IN ANY WAY REQUIRES THE ARCHITECT, ENGINEER, OR OWNER TO BE RESPONSIBLE FOR ANY ASPECT OF SAFETY DURING CONSTRUCTION OR TO ENSURE THAT THE CONTRACTOR FOLLOWS WHATEVER SAFETY REGULATIONS MAY BE APPLICABLE.

1.4 ALL WORK SHALL BE IN CONFORMANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND ACTS, MANUFACTURER'S RECOMMENDATIONS AND INDUSTRY STANDARDS OF GOOD PRACTICE.

1.5 ALL MATERIALS SHALL BE AS SPECIFIED AND/OR DETAILED, AND STORED AND INSTALLED IN A WORKMANLIKE MANNER, IN ACCORDANCE WITH APPLICABLE CODES, MANUFACTURER'S RECOMMENDATIONS, AND INDUSTRY STANDARDS OF GOOD PRACTICE ("AS REQUIRED").

1.6 ALL CONTRACTOR SHALL MAINTAIN THE PREMISES CLEAN AND FREE OF ALL TRASH, DEBRIS AND SHALL PROTECT ALL ADJACENT WORK FROM DAMAGE, SOILING, PAINT OVER SPRAY, ETC. ALL FIXTURES, EQUIPMENT, GLAZING, FLOORS, ETC., SHALL BE LEFT CLEAN AND READY FOR OWNER'S INTENDED USE UPON COMPLETION OF THE PROJECT.

1.7 THE CONTRACTORS SHALL BRING ERRORS AND OMISSIONS WHICH MAY OCCUR IN CONTRACT DOCUMENTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND INSTRUCTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH AFFECTED WORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR RECTIFYING UNACCEPTABLE RESULTS OF ANY ERRORS, DISCREPANCIES, OR OMISSIONS IN THE CONTRACT DOCUMENTS WHICH CAN READILY OR REASONABLY BE DETERMINED AND FOR WHICH THE CONTRACTOR FAILED TO NOTIFY THE ARCHITECT/ENGINEER BEFORE CONSTRUCTION AND/OR FABRICATION OF SUBJECT WORK. THE GENERAL CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS WITHIN THE CONTRACT LIMITS. DEVIATIONS FROM THE CONTRACT DOCUMENTS NECESSITATED BY FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF AND REVIEWED BY THE ARCHITECT/ENGINEER AND INSTRUCTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH WORK.

1.8 CONTRACTOR TO COORDINATE ALL DIMENSIONS ON PREFABRICATED ITEMS WITH MANUFACTURER'S INSTRUCTIONS.

1.9 CONTRACTOR RESPONSIBLE FOR SUPPLYING ALL RELATED ITEMS REQUIRED FOR CONSTRUCTION, UNLESS OTHER ARRANGEMENTS ARE MADE WITH OWNER. SPECIFIC ITEMS TO BE FURNISHED BY OWNER OR OTHERS ARE NOTED IN THESE DOCUMENTS.

1.10 CIVIL ENGINEERING AND SITE IMPROVEMENTS, GEOTECHNICAL, ENVIRONMENTAL, TELECOM, AUDIO-VISUAL, COMPUTER, AND SECURITY SYSTEMS, INTERIOR DESIGN & DOCUMENTATION PROVISIONS ARE NOT INCLUDED AS PART OF THE SCOPE OF THESE CONSTRUCTION DOCUMENTS UNLESS SPECIFICALLY NOTED HEREIN. THE GENERAL CONTRACTOR SHALL CONSULT WITH THE OWNER REGARDING THE COORDINATION OF THESE PROVISIONS WITH THE SCOPE OF WORK IDENTIFIED BY THESE DOCUMENTS AND ANY OTHER WORK REQUIRED BY THE OWNER RELATED TO THIS PROJECT AND/OR SUPPLEMENTAL OWNER PROVIDED DOCUMENTATION.

1.11 THE ARCHITECT, ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR WORK COMPLETED BY CONTRACTOR(S) THAT DEVIATES FROM ADOPTED APPLICABLE CODES, OR THE INTENT OF THESE DOCUMENTS. THE G.C. SHALL RECTIFY ALL NON-CONFORMANCE ISSUES IN ORDER TO COMPLY WITH CODE AND THE INTENT OF THESE DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER, ATTAINMENT OF A CERTIFICATE OF OCCUPANCY FOR THE OWNER IS REQUIRED BUT MAY NOT REPRESENT THE ENTIRETY OF THE SCOPE OF WORK THAT IS TO BE COMPLETED BY THE G.C. FOR THIS PROJECT.

1.12 ENLARGED DRAWINGS/DETAILS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.

1.13 DO NOT SCALE DRAWINGS. MATERIALS, GRAPHIC CONDITIONS AND DISTANCES SHOWN SHALL BE SUPERSEDED BY WRITTEN TEXT AND DIMENSIONS.

1.14 DETAILS AND SECTIONS ON THE DRAWINGS ARE TAKEN AT SPECIFIC LOCATIONS AND ARE INTENDED TO SERVE AS A REPRESENTATION OF TYPICAL CONSTRUCTION METHODOLOGY FOR ALL SIMILAR CONDITIONS. MODIFICATIONS SHALL BE MADE BY THE CONTRACTORS TO ACCOMMODATE MINOR VARIATIONS. IF MAJOR VARIATIONS FROM TYPICAL DETAILS AND SECTIONS ARE REQUIRED, G.C. SHALL NOTIFY ARCHITECT PRIOR TO PERFORMING SUCH WORK.

1.15 CONTRACTOR TO INSURE STABILITY AND SAFETY OF STRUCTURE AT ALL TIMES DURING THE CONSTRUCTION PERIOD. CONTRACTOR SHALL NOT OCCUPY ADJACENT PROPERTIES WITHOUT FIRST OBTAINING WRITTEN PERMISSION FROM PROPERTY OWNERS AND SUBMITTING A RECORD OF THIS PERMISSION TO THE OWNER FOR REVIEW AND APPROVAL.

1.16 SPECIAL PROVISIONS FOR RADON CONTROL HAVE NOT BEEN INCLUDED IN THE DESIGN OF THIS PROJECT. CONTRACTOR TO NOTIFY OWNER IF SITE CONDITIONS WARRANT THE INCLUSION OF POSITIVE RADON CONTROL SYSTEM IN THE SCOPE OF WORK FOR THIS PROJECT.

1.17 THE GENERAL CONTRACTOR SHALL SECURE AND REMIT THE COST OF ALL REQUIRED PERMITS AND INSPECTIONS FOR THIS PROJECT AND SHALL COORDINATE ALL INSPECTIONS IN ORDER TO OBTAIN A CERTIFICATE OF OCCUPANCY PERMIT UPON COMPLETION OF THE WORK, UNLESS OTHERWISE AGREED BY THE OWNER.

1.18 CONTRACTOR IS TO PROVIDE AN ENTIRELY FINISHED PRODUCT UPON COMPLETION OF CONSTRUCTION INCLUDING ANY FINAL REPAIRS OR WORK IDENTIFIED BY PUNCHLIST ITEMS TO THE SATISFACTION OF THE OWNER AND ENGINEER/ARCHITECT.

1.19 THE GENERAL CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR MINIMUM OR AS OTHERWISE AGREED BY THE OWNER.

DIVISION 2 / SITE CONSTRUCTION

2.1 RE: CIVIL & STRUCTURAL FOR SPECIFICATIONS IN ADDITION TO THOSE DESCRIBED BELOW:

2.2 CONSULT THE CIVIL ENGINEERING DOCUMENTS CREATED FOR THIS SPECIFIC PROJECT. FOR ADDITIONAL SITE UTILITIES CONSTRUCTION INFORMATION, WHERE INFORMATION CONTAINED THEREIN DIFFERS FROM INFORMATION PROVIDED ON THESE DOCUMENTS, CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CIVIL ENGINEER, NOTIFY THE ARCHITECT/ENGINEER, AND CONTINUE TO PERFORM THE WORK IN ACCORDANCE WITH THE MOST STRINGENT REQUIREMENTS UNLESS OTHERWISE DIRECTED.

2.3 GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES AND SERVICES USING ONE-CALL PROTOCOLS OR OTHER METHODS AS PER LOCAL JURISDICTION. UTILITIES SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND THE G.C. SHALL COORDINATE THE CONNECTION INTO, REMOVAL OF AND/OR RELOCATION OF ABOVE-GROUND OR UNDERGROUND UTILITIES WITH OWNER AND LOCAL MUNICIPAL UTILITY AUTHORITIES / PUBLIC UTILITY COMPANIES AS REQUIRED TO MEET THE INTENT OF THIS PROJECT.

DIVISION 3 / CONCRETE

3.1 RE: STRUCTURAL

DIVISION 4 / MASONRY

4.1 RE: STRUCTURAL

DIVISION 5 / METALS

5.1 RE: STRUCTURAL FOR SPECIFICATIONS IN ADDITION TOT THOSE DESCRIBED BELOW:

5.2 WHERE ALUMINUM IS ADJACENT TO STEEL, PROVIDE ADEQUATE BARRIER TO PREVENT OXIDATION OF ALUM.

DIVISION 6 / WOOD, PLASTICS, AND COMPOSITES

6.1 RE: STRUCTURAL FOR SPECIFICATIONS IN ADDITION TO THOSE DESCRIBED BELOW:

6.2 ALL MISCELLANEOUS WOOD SHALL BE DRY LUMBER (SEASONED TO A MOISTURE CONTENT OF 19% OR LESS), UNLESS PRESERVATIVE PRESSURE-TREATED. ALL WOOD PRODUCTS AND MATERIALS SHALL BE STORED, STAGED, AND INSTALLED DRY AND SHALL BE PROTECTED FROM MOISTURE TO GREATEST EXTENT PRACTICABLE. STANDING WATER SHALL BE IMMEDIATELY REMOVED FROM WOOD MATERIALS EXPOSED TO MOISTURE DURING CONSTRUCTION. PRESERVATIVE PRESSURE-TREATED LUMBER SHALL BE "ARSENIC-FREE".

6.3 ALL METAL AND/OR WOOD FRAMING MATERIALS SHALL BE FREE OF VISUALLY OBSERVABLE WARPING, CUPPING, CHECKING, AND OTHER SUBSTANTIVE IMPERFECTIONS THAT ADVERSELY AFFECT STRUCTURAL PERFORMANCE OR THE PROVISION OF PLUMB AND TRUE CONNECTIONS WITH OTHER FRAMING MEMBERS.

6.4 ALL WOOD TRIM EXPOSED TO THE ELEMENTS, OR IN CONTACT WITH EARTH, CONCRETE, OR MASONRY, SHALL BE OF ARSENIC-FREE PRESSURE-TREATED LUMBER.

6.5 THE CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORTS AND/OR BACKING MATERIAL IN NEW OR EXISTING WALLS FOR EQUIPMENT AND/OR ACCESSORIES ATTACHED THERETO.

DIVISION 7 / THERMAL & MOISTURE PROTECTION

7.1 INSTALL EXTERIOR PAINTABLE URETHANE SEALANTS AND INTERIOR PAINTABLE SILICONE CAULKING (WITH BACKER ROD AND PRIMER TAPE WHERE INDICATED) AT ALL JOINTS WHERE SHOWN ON THE DRAWINGS AND ELSEWHERE AS REQUIRED (UNLESS NOTED OTHERWISE) TO PROVIDE A POSITIVE BARRIER AGAINST MOISTURE AND PASSAGE OF AIR. ELASTOMERIC SEALANTS SHALL COMPLY WITH ASTM C920 AND ASTM C 1 93.

7.2 BACKPAINT METAL FLASHINGS WITH BITUMINOUS PAINT WHERE IN CONTACT WITH CEMENTITIOUS MATERIALS OR DISSIMILAR METALS.

7.3 PROVIDE INSULATION AS INDICATED ON DRAWINGS AS MANUFACTURED BY OWENS CORNING. POSITION FACED INSULATION SO THAT FACING / VAPOR BARRIER FACES INWARD TOWARDS THE CONDITIONED SIDE OF THE WALL OR CEILING ASSEMBLY OR SPACE. FACED INSULATION IS TO BE INSTALLED ONLY WHERE IN SUBSTANTIAL DIRECT CONTACT WITH AN APPROVED FINISH SURFACE. IF EXPOSED, USE UNFACED INSULACING OR FSK-FACED FIRE-RATED FACINGS. INSTALL COMPLETELY IN DESIGNATED LOCATIONS WITHOUT GAPS OR VOIDS - FILL SPACES BETWEEN DOOR AND WINDOW UNITS AND ADJACENT FRAMING - FIT INSULATION INTO ALL SPACES BEHIND MECHANICAL, PLUMBING, AND ELECTRICAL SERVICES / EQUIPMENT LOCATED WITHIN THE PLANE OF INSULATION. FASTEN INSULATION TO SUBSTRATE / FRAMING MEMBERS AND OTHERWISE INSTALL ALL INSULATION IN COMPLETE ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

7.4 PROVIDE AND INSTALL VAPOR/MOISTURE RETARDER AS PER CODE, AS INDICATED ON DRAWINGS AND AS PER MANUFACTURER'S INSTRUCTIONS WITH CLASS A FLAME SPREAD AND SMOKE DEVELOPED VALUES.

7.5 EXTRUDED POLYSTYRENE BOARD INSULATION SHALL CONFORM TO ASTM C 578, OF TYPE IV, 1.6LB/CU.FT. DENSITY WITH A MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED INDICES OF 75 AND 450 RESPECTIVELY.

7.6 FIBERGLASS BLANKET INSULATION SHALL CONFORM TO ASTM C 665, TYPE I WITH MAXIMUM FLAME SPREAD AND SMOKE DEVELOPED INDICES OF 25 AND 50 RESPECTIVELY, PASSING ASTM E 136 FOR COMBUSTION CHARACTERISTICS.

7.7 PROTECT ALL INSULATION MATERIALS FROM PHYSICAL DAMAGE FROM DETERIORATION BY MOISTURE, SOILING, AND OTHER SOURCES. STORE INSIDE AND IN A DRY LOCATION.

7.8 CONCEALED INSULATION SHALL HAVE A FLAME SPREAD INDEX OF NO MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 450 IN ACCORDANCE WITH ASTM E 84.

7.09 METAL GUTTER AND RAINWATER CONDUCTOR COMPONENTS SHALL BE PROVIDED AND INSTALLED AS INDICATED ON DRAWINGS, AS PER CODE AND AS PER MANUFACTURER DIRECTIONS. ALL GUTTERS SHALL BE INSTALLED SO AS TO POSITIVELY DIRECT WATER TO CONDUCTORS. INSTALL LONGEST GUTTER LENGTHS AS PRACTICABLE AND PROVIDE APPROPRIATE SEALANTS AT SEAMS. POSITION GUTTERS SO THAT ICE THAT MAY SLIDE FROM ADJACENT SLOPED ROOFING BYPASSES TOP LEADING EDGE OF GUTTER.

7.10 PROVIDE AND INSTALL RAINWATER CONDUCTORS PLUMB AND TRUE AND FASTEN TO SUBSTRATE AS REQUIRED FOR SECURE ATTACHMENT CONSIDERING POTENTIAL DYNAMIC THRUST CREATED BY STORMWATER FLOW AND VOLUME. ALL FASTENERS AND SUPPORT ACCESSORIES SHALL BE OF THE SAME MATERIAL AS THE CONDUCTOR AND SHALL BE PROVIDED TO ELIMINATE THE POSSIBILITY OF GALVANIC CORROSION DUE TO DISSIMILAR METALS, PROVIDE PROTECTION OF CONDUCTOR AT BOTTOM RUNOUT WHERE ADJACENT TO PAVING AS PER PLUMBING CODE PROVISIONS IN A METHOD ACCEPTABLE TO OWNER. COORDINATE LOCATION OF CONDUCTORS WITH UNDERGROUND STORMWATER PIPING SYSTEMS AS PER THE CIVIL ENGINEERING DESIGN AS APPLICABLE.

7.11 BLOWN-IN INSULATION SHALL BE MANUFACTURED BY OWENS CORNING "INSUL SAFE 3" AND INSTALLED BY A CERTIFIED CONTRACTOR 90 DAYS AFTER SUBSTANTIAL CONSTRUCTION COMPLETION. BLOWN-IN INSULATION TO COVER ENTIRE ATTIC AREA FOR A COMPLETE THERMAL BARRIER. RE: DWGS.

DIVISION 8 / DOORS AND WINDOWS

8.1 DOOR UNITS AND FRAMES SHALL BE PROTECTED DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL REPAIR/REPLACE ANY DAMAGE TO SUCH MATERIALS AND PRODUCTS AT NO ADDITIONAL COST TO THE OWNER.

8.2 ALL DOOR HEIGHTS TO BE AS INDICATED ON DOOR SCHEDULE. DOOR HEIGHT TO BE MODIFIED BY G.C. AS REQUIRED TO ACCOMMODATE VARIOUS FLOOR FINISHES, THRESHOLDS, ROUGH OPENINGS AND MECHANICAL DESIGN UNDERCUTS.

8.3 CONTRACTOR SHALL CONFORM TO THE ADOPTED ENERGY CODE AND VERIFY THAT MAXIMUM WINDOW AND DOOR INFILTRATION RATES ARE NOT EXCEEDED.

8.4 ALL DOORS, WINDOW, TRANSOMS, SIDELIGHTS, ETC. OPENING TO THE EXTERIOR OR TO UNCONDITIONED AREAS SHALL BE FULLY WEATHER STRIPPED, GASKETED OR OTHERWISE TREATED TO LIMIT AIR INFILTRATION.

8.5 GLAZING IN LOCATIONS WHICH MAY BE SUBJECT TO HUMAN IMPACT SUCH AS GLASS ENTRANCE DOORS, FIXED GLASS PANELS, DOOR LIGHTS, ETC. SHALL MEET THE REQUIREMENTS SET FORTH IN THE ADOPTED CONSTRUCTION CODE AND THE SAFETY STANDARD FOR ARCHITECTURAL GLAZING MATERIALS (16 CFR 1201). ALL GLAZED PANELS LOCATED WITHIN 12" OF A DOOR SHALL BE TEMPERED GLASS UNLESS SUCH PANELS ARE PROVIDED WITH A HORIZONTAL MEMBER 1-1/2" MINIMUM WIDTH LOCATED BETWEEN 24" AND 36" ABOVE THE ADJACENT WALKING SURFACE.

8.6 PROTECT ALL GLAZING MATERIALS ACCORDING TO MANUFACTURER'S WRITTEN SPECIFICATIONS AND AS REQUIRED TO PREVENT DAMAGE FROM CONDENSATION, TEMPERATURE CHANGES, DIRECT EXPOSURE TO SUN, OR ANY OTHER HARMFUL CONDITIONS.

8.7 GLAZING SHALL BE AS NOTED OR SCHEDULED ON THE DRAWINGS AND SHALL BE INSTALLED AS PER MANUFACTURER'S INSTRUCTION AND COORDINATED WITH THE ALUMINUM DOOR AND GLAZING FRAMING SYSTEMS. USE TEMPERED SAFETY GLAZING AS PER CODE. PROVIDE WINDLOAD DESIGN SUPPORT DATA FROM GLASS MANUFACTURER FOR ARCHITECT REVIEW PRIOR TO ORDERING GLAZING FOR THIS PROJECT. ALL EXTERIOR GLAZING SHALL BE INSULATED TYPE, FULLY GASKETED.

8.8 ALL EXTERIOR DOOR HARDWARE TO COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) "ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAAG)" AND NFPA 101.

8.9 REFER TO DRAWINGS FOR DOOR TYPES, SIZES, FRAME DETAILS, AND HARDWARE SET DESIGNATIONS.

8.10 ALL DOORS SHALL BE STORED IN A THERMALLY CONTROLLED ENVIRONMENT ON SITE UNTIL INSTALLED. STORE DOORS UPRIGHT WITH HEADS UP AND BLOCKING BETWEEN DOORS TO PREVENT DAMAGE OR WARPING.

8.11 ALL LOCKS AND LOCKSETS SHALL BE COORDINATED WITH THIRD PARTY SECURITY CONTRACTOR AND/OR OWNER. VERIFY KEY QUANTITIES AND COPIES NEEDED AND ADHERE TO OWNER'S SECURITY POLICY FOR DOOR LOCKING ACCESSORIES.

8.12 ALL ALUMINUM STOREFRONT DOORS SHALL BE MANUFACTURED BY KAWNEER OR APPROVED EQUAL.

8.13 INTERIOR AND EXTERIOR STL DOORS SHALL BE MANUFACTURED BY STEELCRAFT OR APPROVED.

DIVISION 9 / FINISHES AND FINISH TREATMENTS

9.1 PRIOR TO PAINT APPLICATION, CLEAN WALL AND ENSURE ALL SURFACES ARE SOUND. LIGHTLY SAND AND PREPARE SURFACES AS NECESSARY.

9.2 APPLICATION OF PAINT OR OTHER COATING SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. READY-MIXED PAINT SHALL NOT BE THINNED, EXCEPT AS PERMITTED IN THE APPLICATION INSTRUCTIONS.

9.3 ALL SURFACE TO BE FINISHED SHALL BE CLEAN AND FREE OF FOREIGN MATERIALS (DIRT, GREASE, ASPHALT, RUST, ETC.). APPLICATION SHALL BE IN A WORKMANLIKE MANNER PROVIDING A SMOOTH SURFACE. APPLICATION RATE SHALL BE THAT RECOMMENDED BY THE MANUFACTURER. APPLICATION MAY BE BY BRUSH OR ROLLER OR BY SPRAY IF PAINT IS FORMULATED FOR SPRAY APPLICATION. EXPOSED STEEL TO BE FINISHED AS INDICATED ON DRAWINGS.

9.4 SOLVENT-BASED COATINGS (IF APPLICABLE) - MANUFACTURER TO BE SELECTED BY OWNER - USE VOC-COMPLIANT MATERIALS THAT CONFORM TO THE LAWS IN THE JURISDICTION WHERE THE PROJECT IS LOCATED - CONTRACTOR TO PROVIDE AND INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

9.5 GENERAL PAINT USAGE PER SUBSTRATE:
DOORS: EXTERIOR FACES OF HOLLOW METAL FRAMES AND DOORS: 2 COATS SPRAY-APPLIED LOW VOC SOLVENT-BASED SEMI-GLOSS ENAMEL TOPCOAT ON FACTORY-PRIMED COATING.
INTERIOR FACES OF HOLLOW METAL FRAMES AND DOORS: 2 COATS SPRAY-APPLIED LATEX SEMI-GLOSS ENAMEL TOPCOAT ON FACTORY-PRIMED COATING.
LATEX MATERIAL: USE "SHERWIN-WILLIAMS" "SUPERPAINT" (OR APPROVED EQUAL) - G.C. TO PROVIDE AND INSTALL AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
STRUCTURAL STEEL: ONE COAT OF SHOP APPLIED APPROVED PRIME PAINT.

9.6 FLOOR COVERING MATERIALS TO BE TESTED BY AN APPROVED AGENCY PER NFPA 253. MATERIAL TO BE PROVIDED WILL TAG TO IDENTIFY MANUFACTURER & FLOOR COVERING CLASSIFICATION AND MUST COMPLY WITH ALL STANDARDS.

9.7 CEILING AND WALL FINISHES TO BE CLASS 'C' IN ACCORDANCE WITH ASTM E 84, AT MINIMUM.

9.8 PROVIDE GYPSUM WALL BOARD AS INDICATED ON DRAWINGS AS MANUFACTURED BY AMERICAN GYPSUM CO. (OR APPROVED EQUAL) COMPLYING WITH ASTM C 36/C 36M OR ASTM 1396/C 1396M, AS APPLICABLE TO TYPE OF GYPSUM BOARD INDICATED AND WHICHEVER IS MORE STRINGENT ALONG WITH JOINT COMPOUND PER MANUFACTURER'S RECOMMENDATIONS. FOR TILE BACKING AREAS, PROVIDE GLASS-MAT, WATER RESISTANT BACKING BOARD COMPLYING WITH ASTM C 1178/C 1178M WITH JOINT COMPOUND PER MANUFACTURERS RECOMMENDATIONS.

9.9 STORE GYPSUM WALL BOARD PANELS IN THERMALLY CONTROLLED ENVIRONMENT, INDOORS, AND AWAY FROM DAMP AREAS UNTIL READY FOR USE. ALL GYPSUM WALL BOARD PANELS SHALL BE DRY AND FREE OF MOISTURE OR CONDENSATION FROM STORAGE PRIOR TO INSTALLATION.

9.10 ALL JOINTS IN GYPSUM WALL BOARD PANELS SHALL BE JOINT TAPED WITH JOINT COMPOUND PER MANUFACTURER'S RECOMMENDATIONS.

9.11 ALL FINISHES SPECIFIED SHALL BE INSTALLED AND/OR APPLIED PER MANUFACTURER'S SPECIFICATIONS. PROVIDE ANY AND ALL RELATED ACCESSORIES OR MATERIALS AS NEEDED FOR PROPER AND COMPLETE INSTALLATION.

9.12 FRP WALL COVERINGS SHALL BE INSTALLED AS SHOWN ON DRAWINGS. APPLY WITH MANUFACTURER'S RECOMMENDED ADHESIVE ONLY. NO MECHANICAL FASTENERS, SCREWS, OR HEADS SHALL BE VISIBLE ON THE SURFACE.

DIVISION 10 / SPECIALTIES

10.1 TOILET ROOM ACCESSORIES SHOWN ARE BASIS OF DESIGN AS MANUFACTURED BY BOBRICK. (OR APPROVED EQUAL). ALL FIXTURES AND ACCESSORIES SHALL BE PROVIDED AND INSTALLED BY G.C. UNLESS NOTED OTHERWISE. ACCESSORIES TO BE PROVIDED BY OWNER SHALL BE INSTALLED BY G.C. IN ACCORDANCE WITH 2017 ICC/ANSI A117.1 AND 2020 IBC.

10.2 PROVIDE AND INSTALL WHITE, ANTIMICROBIAL, MOLDED VINYL UNDERLAVATORY GUARDS AS MANUFACTURED BY BROCAR PRODUCTS, INC. (OR APPROVED EQUAL). GUARDS SHALL BE INSTALLED ON DRAIN PIPING ASSEMBLIES FOR BATHROOM LAVATORIES AS INDICATED ON DRAWINGS. PROVIDE COMPONENTS AS REQUIRED WITH FLIP TOPS AT VALVES TO ALLOW SERVICE ACCESS WITHOUT REMOVING COVERINGS.

10.3 PROVIDE FIRE EXTINGUISHERS DURING CONSTRUCTION AND AS OTHERWISE REQUIRED BY CODE FOR PERMANENT INSTALLATION AFTER CONSTRUCTION IS COMPLETE AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL FIRE OFFICIAL.

10.5 PROVIDE COLOR CHARTS AND SAMPLES FOR ACRYLIC SHEET ADA TACTILE SIGNAGE A INDICATED ON THE DRAWINGS. ALL SIGNS SHALL BE TEXT, SYMBOL, AND BRAILLE TYPE OBTAINED FROM A SINGLE MANUFACTURER AND MEET THE MINIMUM REQUIREMENTS OF 2017 ICC/ANSI A117.1 AND 2020 IBC. COMPLY WITH MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION AND MOUNTING.

DIVISION 11 / EQUIPMENT

11.1 NO SPECIALIZED EQUIPMENT IS PROPOSED UNDER THIS CONTRACT. COORDINATE WITH OWNER OR THIRD PARTY CONTRACTORS AND RELATED N.I.C. EQUIPMENT FOR ANY SCHEDULING OR CONTRACTIBILITY CONCERNS AS NEEDED.

DIVISION 12 / FURNISHINGS / CASEWORK

12.1 CASEWORK SHALL BE PROVIDED IN UNIT DIMENSIONS AND PRODUCT SIZES AND MOUNTED AT HEIGHTS AS INDICATED ON THE DRAWINGS.

12.2 SUBMIT PRODUCT DATA FOR CABINETS, PLASTIC LAMINATE COUNTERTOPS, AND CABINET HARDWARE AS APPLICABLE. SUBMIT SHOP DRAWINGS FOR CABINETS AND COUNTERTOPS INCLUDING PLANS, ELEVATIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK. SHOW MATERIALS, FINISHES, FILLER PANELS, HARDWARE, EDGE AND BACKSPLASH PROFILES, AND METHODS OF COUNTERTOP ATTACHMENT. ALSO INCLUDE COLOR SAMPLES FOR SELECTION BY OWNER AND ARCHITECT INCLUDING SELECTIONS OF UNITS SHOWING FULL RANGE OF COLORS, TEXTURES, AND PATTERNS AVAILABLE FOR EACH TYPE OF MATERIAL EXPOSED TO VIEW.

12.3 CASEWORK SHALL NOT BE DELIVERED, STORED, OR INSTALLED ON SITE UNTIL BUILDING IS ENCLOSED., WET-WORK IS COMPLETE, AND HVAC SYSTEM IS OPERATIONAL AND WILL MAINTAIN TEMPERATURE AND RELATIVE HUMIDITY FOR THE REMAINDER OF THE CONSTRUCTION PERIOD.

12.4 FIELD VERIFY ALL NEW CONSTRUCTION FINISH CONDITIONS PRIOR TO CASEWORK INSTALLATION. NOTIFY ARCHITECT OF ANY CONCERNS REGARDING PROPER INSTALLATION DUE TO UNFORESEEN CONFLICTS WITH ADJACENT WALLS, FLOORS, OR EQUIPMENT.

12.5 EXPOSED MATERIALS SHALL BE OAK OF COMPATIBLE COLOR AND GRAIN. DO NOT USE TWO ADJACENT SURFACES THAT ARE NOTICEABLY DISSIMILAR IN COLOR, GRAIN, FIGURE, OR NATURAL CHARACTER MARKINGS. STAIN SELECTION BY OWNER AND ARCHITECT FROM MANUFACTURER'S FULL RANGE.

12.6 SEMI-EXPOSED MATERIALS SHALL BE PLYWOOD UNLESS NOTED OTHERWISE WITH GRACE C FACES AND NOT LESS THAN GRADE 3 BACKS OF SAME SPECIES AS FACES. FACE VENEERS OF SAME SPECIES AS EXPOSED SURFACES OR STAINED TO BE COMPATIBLE WITH EXPOSED SURFACES.

12.7 CONCEALED MATERIALS SHALL BE SOLID WOOD OR PLYWOOD, OF ANY HARDWOOD OR SOFTWOOD SPECIES WITH NO DEFECTS, AFFECTING STRENGTH OR UTILITY; PARTICLEBOARD, MDF, OR HARDBOARD.

12.8 HINGES SHALL BE CONCEALED EUROPEAN STYLE CLOSING HINGES. CASEWORK PULLS SHALL BE SELECTED BY OWNER AND ARCHITECT. PROVIDE PRODUCT DATA SUBMITTALS FOR FULL RANGE OF MANUFACTURER'S PRODUCT LINE. DRAWER GUIDES SHALL BE EPOXY COATED METAL, SELF CLOSING, WITH BALL BEARING ROLLERS.

DIVISION 22 / PLUMBING

RE: PLUMBING

DIVISION 23 / HVAC - MECHANICAL

RE: MECHANICAL

DIVISION 26 / ELECTRICAL

RE: ELECTRICAL

PRELIMINARY
NOT FOR CONSTRUCTION

NOT APPROVED
THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISIONS UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

	ISSUED / REVISIONS	DATE
0	ISSUED FOR BID	11-10-25

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ANY LICENSEE WHO ALTERS THIS DOCUMENT IS REQUIRED BY LAW TO AFFIX TO THE DOCUMENT HIS SEAL OR STAMP, THE NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND THE SPECIFIC DESCRIPTION OF THE ALTERATIONS.

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OWNER/CLIENT: FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT: ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING: ARCHITECTURAL SPECIFICATIONS

DRAWING SCALE: AS NOTED
ISSUE DATE: 11.10.25
PROJECT NO.: 25-086
DRAWING NO.: C-1.3

1. GENERAL

1.1 BUILDING CODES & STANDARDSS

A. NYS BUILDING CODE - INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION

B. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) - MINIMUM DESIGN LOADS FOR BUILDINGS & OTHER STRUCTURES, 2010 EDITION (ASCE 7).

1.4 GENERAL REQUIREMENTS

C. VERIFY EXISTING CONDITIONS & DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF RECORD (SER) OF ANY DISCREPANCIES BEFORE PROCEEDING WITH ANY PHASE OF WORK.

D. DO NOT SCALE DRAWINGS FOR THE PURPOSE OF ESTABLISHING DIMENSIONS.

E. DETAILS LABELED "TYPICAL DETAILS" ON DRAWINGS APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SUCH DETAILS APPLY WHETHER OR NOT DETAILS ARE REFERENCED AT EACH LOCATION. NOTIFY SER OF CONFLICT REGARDING APPLICABILITY OF "TYPICAL DETAILS".

F. DO NOT LOAD THE SLAB ON GRADE OR SUPPORTED SLAB WITH ERECTION CRANES OR ERECTION EQUIPMENT. THE SLABS HAVE NOT BEEN DESIGNED FOR CRANE LOADS & WILL REQUIRE AN INCREASE IN THICKNESS &/OR REINFORCEMENT. OBTAIN SER APPROVAL ON PROPOSED CRANE SUPPORT PLAN FOR SLABS PRIOR TO COMMENCING WORK.

G. DO NOT STORE OR STACK CONSTRUCTION MATERIALS ON POURED OR ERECTED FLOORS/ROOFS IN EXCESS OF 80 PERCENT OF LIVE LOAD. GENERAL CONTRACTOR SHALL ENSURE THAT ALL SUB-CONTRACTORS ARE INFORMED OF LOADING RESTRICTIONS. AVOID IMPACT WHEN PLACING MATERIALS ON POURED OR ERECTED FLOORS OR ROOF.

H. BEFORE PROCEEDING WITH ANY WORK WITHIN THE PROJECT AREA, THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH EXISTING STRUCTURE & OTHER CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACINGS, SHORINGS & OTHER AFE GUARDS TO MAINTAIN ALL PARTS OF EXISTING STRUCTURES & FACILITIES IN A SAFE CONDITION DURING THE PROCESS OF DEMOLITION & CONSTRUCTION & TO PROTECT FROM DAMAGE THOSE PORTIONS OF EXISTING STRUCTURES & FACILITIES WHICH ARE TO REMAIN.

I. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF MATERIALS INDICATED ON THE DRAWINGS & FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN LOADS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS & TO PROVIDE PROPER DESIGN & CONSTRUCTION OF FALSE WORK, STAGINGS, BRACING, SHEETING & SHORING, ETC

1. .THE CONTRACT STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS & METHODS OF CONSTRUCTION. PROVIDE ALL MEASURES REQUIRED TO PROTECT THE STRUCTURE, WORKMEN, & OTHER PERSONS DURING CONSTRUCTION; INCLUDING BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS & SCAFFOLDING, SHORING OF RETAINING WALLS & OTHER TEMPORARY SUPPORTS AS REQUIRED. COMPLY WITH APPLICABLE REQUIREMENTS OF OSHA & OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.
2. IMPLEMENTING JOB SITE SAFETY & CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL PROVIDE DRAWINGS & CALCULATIONS SIGNED & SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF NEW YORK FOR THE FOLLOWING ASSEMBLIES. THE DESIGN OF THESE ASSEMBLIES IS THE RESPONSIBILITY OF THE ENGINEER WHO HAS SIGNED & SEALED THESE DRAWINGS & CALCULATIONS.
   a. WOOD TRUSS ROOF SYSTEM IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO TRUSSES, PURLINS, & BRACING. THESE ASSEMBLIES SHALL BE DESIGNED TO SUPPORT ALL GRAVITY & LATERAL LOADS REQUIRED IN THE DRAWINGS & INTERNATIONAL BUILDING CODE.

J. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON DRAWINGS. COORDINATE WITH THE ARCHITECTURAL & MECHANICAL DRAWINGS FOR THE REQUIRED OPENINGS & PROVIDE FOR REQUIRED OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT, VERIFY SIZE & LOCATION OF OPENINGS WITH THE MECHANICAL CONTRACTOR. DEVIATIONS FROM THE OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS MUST BE APPROVED BY THE SER PRIOR TO IMPLEMENTING THE CHANGES.

K. LOADINGS FOR MECHANICAL EQUIPMENT ARE BASE ON THE UNITS SHOWN ON THE MECHANICAL DRAWINGS. ANY CHANGES IN TYPE, SIZE, OR NUMBER OF PIECES OF EQUIPMENT SHALL BE REPORTED TO THE SER FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.

L. SEE ARCHITECTURAL DRAWINGS FOR STRUCTURE ELEVATIONS NOT INDICATED ON STRUCTURAL DRAWINGS & FOR ADDITIONAL INFORMATION FOR ALL SLAB DEPRESSIONS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE SER PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

1.5 SPECIAL INSPECTIONS

A. SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE GOVERNING BUILDING CODE & THE STATEMENT OF REQUIRED SPECIAL INSPECTIONS PREPARED BY THE DESIGN PROFESSIONAL.

B. WHERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF OTHER SPECIFIED TESTING, DUPLICATE INSPECTIONS SHALL NOT BE REQUIRED.

2. EARTHWORK & FOUNDATIONS

2.1 DESIGN DATA

A. FOUNDATION DESIGN IS BASED UPON IBC TABLE 1806.2 & AN ASSUMED ALLOWABLE BEARING CAPACITY OF 1,500 PSF.

B. ALL EXTERIOR FOUNDATIONS SHALL BEAR A MINIMUM OF 4'-0" BELOW GRADE.

C. BUILDING SPREAD FOOTINGS SHALL BEAR ON UNDISTURBED SOILS ON PROPERLY PLACED & COMPACTED STRUCTURAL FILL WITH AN ASSUMED ALLOWABLE BEARING PRESSURE OF 1,500 PSF

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2.2 DESIGN DATA

A. CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION & PROTECTING ALL EXISTING UTILITIES, EXISTING STRUCTURES, ETS., WHETHER INDICATED OR NOT, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS

C. BEARING ELEVATIONS INDICATED ON THE DRAWINGS ARE ESTIMATED FROM EXPECTED SITE CONDITIONS. AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER SHALL MAKE DETERMINATION OF FINAL BEARING ELEVATIONS & VERIFICATION OF ALLOWABLE BEARING PRESSURE.

D. CONCRETE FOR FOUNDATIONS SHALL BE POURED ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE GEOTECHNICAL ENGINEER.

E. FOLLOWING REQUIRED STRIPPING OPERATIONS, ANY PROOFROLLING SHALL BE AS DIRECTED BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER. THE PURPOSE OF THE PROOFROLLING WILL BE TO LOCATE ANY ISOLATED AREAS OF SOFT OR LOOSE SOILS REQUIRING IMPROVEMENT OR REPLACEMENT. SOFT AREAS SHALL BE UNDERCUT & REPLACED BY PROPERLY COMPACTED MATERIALS.

F. ALL SHORING, SHEETING, & DEWATERING SHALL BE THE TOTAL RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR'S ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION SHALL DESIGN SHEETING & SHORING. ALL SUBMITTALS SHALL BEAR THE ENGINEERS'S SEAL & SIGNATURE.

2.3 THE CONTRACTOR SHALL PROVIDE & OPERATE DEWATERING EQUIPMENT & BE RESPONSIBLE FOR MAINTAINING EXCAVATIONS & WORK AREAS IN A DRY CONDITION SATISFACTORY TO THE SER. WATER SHALL BE DISCHARGED TO A LOCATION SUITABLE TO THE SER & IN ACCORDANCE WITH APPLICABLE LOCAL STATE & FEDERAL LAWS & REGULATIONS.

2.4 ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR CUT & FILL OPERATIONS & PERFORM FIELD DENSITY & MOISTURE CONTENT TEST TO VERIFY COMPACTION & APPROVE FOOTING SUBGRADES PRIOR TO PLACING CONCRETE.

2.5 BACKFILL

A. ALL BACKFILL & TRENCHING OPERATIONS SHALL COMPLY WITH ALL CURRENT & APPLICABLE LOCAL, STATE, & FEDERAL SAFETY CODES, INCLUDING THE OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION.

B. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE SHORING OF THE NEW & EXISTING CONSTRUCTION DURING CONSTRUCTION OPERATIONS IN ORDER TO PREVENT ANY DAMAGE DUE TO BACKFILLING & TRENCHING.

C. ALL BACKFILL SHALL BE ACCOMPLISHED USING MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER, WITH OPTIMUM MOISTURE CONTENT FOR COMPACTING & SHALL BE FREE OF DEBRIS.

D. WHERE THE FINAL GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS WITHIN 10" ON BOTH SIDES AT ANY TIME.

2.6 STRUCTURAL FILL

A. COMPACTED STRUCTURAL FILL SHALL MEET N.Y.S. D.O.T. TYPE 4 REQUIREMENTS. INSPECTION OF THE PLACEMENT OF COMPACTED STRUCTURAL FILL SHALL BE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER.
1. COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PENNDOT) PUBLICATION 408 SPECIFICATIONS (PUB 408), LATEST EFFECTIVE VERSION.

B. INSPECTION OF THE PLACEMENT OF COMPACTED STRUCTURAL FILL SHALL BE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER.
1. GENERAL AGGREGATE....PENNDOT NO. 2A
2. CONTROLLED LOW STRENGTH MATERIAL... TYPE C (PUB 408) SECTION 220)

C. EXECUTION
1. AFTER ACHIEVING FINISHED SUBGRADE IN CUT AREAS & PRIOR TO PLACING STRUCTURAL FILL IN AREAS BELOW FINISHED SUBGRADE, THE EXPOSED SUBGRADE SHALL BE EVALUATED BY THE GEOTECHNICAL ENGINEER OF RECORD TO CONFIRM THAT ALL UNSUITABLE OR UNSTABLE MATERIALS HAVE BEEN REMOVED.
2. ALL STRUCTURAL FILL SHALL BE PLACED IN HORIZONTAL LIFTS NOT EXCEEDING EIGHT (8) INCHES IN LOOSE THICKNESS & WITHIN TWO (2) PERCENT OF OPTIMUM MOISTURE FOR COMPACTION. THE STRUCTURAL FILL SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR (ASTM D1557).
3. MAINTAIN SUBGRADE & STRUCTURAL FILL MOISTURE CONTENT UNTIL FOUNDATIONS ARE PLACED.
4. PROVIDE CLASS "B" REINFORCEMENT SPLICES FOR CONTINUOUS REINFORCEMENT. REINFORCEMENT SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE UNLESS NOTED OTHERWISE.

2.7 GRANULAR BASE MATERIAL

A. A MINIMUM OF SIX (6) INCHES OF GRANULAR SUBBASE SHALL BE PLACED UNDER ALL CONCRETE SLABS-ON-GRADE.

2.8 FOUNDATIONS

A. ALL BEARING AREAS FOR FOUNDATIONS SHALL HAVE BEEN INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER OF RECORD PRIOR TO ANY PLACEMENT OF CONCRETE. IF BEARING AREAS ARE NOT SUITABLE, AS DETERMINED BY THE GEOTECHNICAL ENGINEER, THE CONTRACTOR MAY BE REQUESTED TO CARRY THE EXCAVATION DEEPER TO MORE SUITABLE BEARING MATERIAL. SUCH ADDITIONAL EXCAVATION WILL BE PAID FOR BY A LUMP SUM OR UNIT PRICE BASIS.

B. DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING FREE WATER, FROST OR ICE.

C. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2 INCH EXPANSION MATERIAL. LOWER CONTINUOUS FOOTINGS AND GRADE BEAMS PERPENDICULAR TO PIPE RUNS TO ALLOW PIPES TO PASS ABOVE THE FOOTINGS. ALTERNATIVELY, PROVIDE A CONCRETE JACKET IF PIPES AND CONDUITS ARE LOW ENOUGH TO BE PLACED BELOW THE FOOTINGS. LOWER FOOTINGS PARALLEL TO PIPE RUNS TO AVOID SURCHARGE ONTO ADJACENT TRENCH EXCAVATIONS.

D. COORDINATE WITH ELECTRICAL CONTRACTOR AND ELECTRICAL ONE-LINE DIAGRAM FOR PROPER BONDING OF THE FOOTING REINFORCEMENT TO THE GROUNDING SYSTEM.

3. CONCRETE

3.1 FORMWORK

A. STANDARDS
1. AMERICAN CONCRETE INSTITUTE (ACI) - GUIDE TO FORMWORK FOR CONCRETE, ACI 347-04
2. ACI - FORMWORK FOR CONCRETE SP-4, FIFTH EDITION.

B. FORMWORK MAY BE OMITTED FOR FOUNDATIONS PROVIDED EARTH IS FIRM AND STABLE AND CONCRETE SURFACES WILL NOT BE EXPOSED TO PUBLIC VIEW. EXCAVATIONS SHALL BE CUT NEAT AND ACCURATE TO SIZE. LOOSE AND UNSTABLE MATERIALS SHALL BE COMPACTED OR REMOVED. PROVIDE TWO (2) INCHES ADDITIONAL CONCRETE COVER AT SIDES FOR EARTH FORMS WHEN USED IN LIEU OF TEMPORARY FORMWORK.

C. INSULATED CONCRETE FORMWORK (ICF) SHALL BE MANUFACTURED BY THE NUDURA CORPORATION OR APPROVED EQUAL. INSTALL ICF PER THE MANUFACTURER'S REQUIREMENTS AND SPECIFICATIONS.

3.2 REINFORCING

A. STANDARDS
1. ACI 301-16 - SPECIFICATIONS FOR STRUCTURAL CONCRETE.
2. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) - MANUAL OF STANDARD PRACTICE, EIGHTH EDITION.
3. WIRE REINFORCEMENT INSTITUTE, INC. (WRI) - DESIGN OF SLAB-ON-GROUND FOUNDATIONS, WRI/CRSI-81 WITH 1996 UPDATE.
4. ACI DETAILING MANUAL - SP-66 (04)

B. MATERIALS
1. DEFORMED AND PLAIN BARS.....ASTM A615 GRADE 60
2. WELDED WIRE REINFORCEMENT (WWR).............ASTM A185. PLAIN, 65,000 PSI YIELD STRESS IN FLAT SHEETS.

C. EXECUTION
1. UNLESS NOTED OTHERWISE MAINTAIN THE FOLLOWING CONCRETE COVER FOR REINFORCEMENT.
   a. CONCRETE CAST AGAINST EARTH.........3 INCHES
   b. CONCRETE EXPOSED TO THE WEATHER:
      - #5 AND SMALLER BARS............1 1/2 INCHES
      - #6 AND LARGER BARS....................2 INCHES
   c. CONDITIONS OTHER THAN ABOVE:
      - #11 AND SMALLER BARS.............3/4 INCHES
      - #14 AND #18 BARS.......................2 INCHES
2. ALL REINFORCEMENT SHALL BE SUPPORTED AND HELD IN PLACE BY MANUFACTURED STEEL WIRE BAR SUPPORTS IN ACCORDANCE WITH CRSI. USE OF ANY OTHER MATERIALS WITHOUT WRITTEN AUTHORIZATION BY THE SER IS PROHIBITED.
3. PROVIDE STANDARD 90° HOOKS IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE.
4. PROVIDE CLASS "B" REINFORCEMENT SPLICES FOR CONTINUOUS REINFORCEMENT. REINFORCEMENT SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE UNLESS NOTED OTHERWISE.

TENSION SPLICES (IN)

BAR SIZE	TOP BARS	OTHER BARS	COMPRESSION SPLICES (IN)
#3	21	16	12
#4	28	21	15
#5	35	27	19
#6	46	35	23
#7	62	48	26
#8	82	63	30
#9	90	104	34
#10	131	101	38
#11	162	125	42

COMPRESSION DOWEL EMBEDMENT SHALL BE 22 BAR DIAMETERS. SPLICES FOR WELDED WIRE FABRIC SHALL BE TWO (2) INCHES IN ADDITION TO ONE SPACING OF CROSS WIRES.

5. PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCEMENT WITH 90° BENDS & EXTENSIONS AT CORNERS & INTERSECTIONS AS SHOWN ON TYPICAL REINFORCEMENT DETAILS.
6. ALL RE-ENTRANT CORNERS FOR SLAB-ON-GRADE CONSTRUCTION SHALL BE REINFORCED WITH ONE (1) #4 BY 2'-0" LONG (MIN) AT 45° FROM THE SLAB EDGES & AT SLAB MID-DEPTH.
7. WHERE REQUIRED & UNLESS NOTED OTHERWISE, PROVIDE DOWELS TO MATCH SIZE & SPACING OF MAIN REINFORCEMENT.
8. DO NOT WELD OR BEND REINFORCEMENT IN THE FIELD UNLESS SPECIFICALLY SHOWN OR APPROVED BY STRUCTURAL ENGINEER.
9. PRIOR TO FABRICATION, CONTRACTOR SHALL SUBMIT STEEL REINFORCEMENT SHOP DRAWINGS FOR SER'S REVIEW & APPROVAL. SHOP DRAWINGS SHALL BE CREATED IN ACCORDANCE WITH SP-66 (04).

3.3 CAST - IN - PLACE CONCRETE

A. STANDARDS
1. ACI 301-16 - SPECIFICATIONS FOR STRUCTURAL CONCRETE.
2. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. ACI 318-08 & COMMENTARY, ACI 318R-08.
3. RECOMMENDED PRACTICE FOR CONCRETE FLOOR & SLAB CONSTRUCTION, ACI 302.2-06.

B. MATERIALS
1. PRIOR TO THE PLACEMENT OF ANY CONCRETE, CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN(S) PERFORMED BY A QUALIFIED TESTING LABORATORY FOR SER'S REVIEW & APPROVAL. NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CHLORIDES SHALL BE USED IN ANY CONCRETE. MIX MATERIALS SHALL COMPLY WITH THE FOLLOWING:
   a. PORTLAND CEMENT...........................ASTM C150
   b. FLY ASH.....................ASTM C618 CLASS C OR F
   c. SILICA FUME................................ASTM C1240
   d. NORMAL WEIGHT AGGREGATE ASTM C33 CLASS 3S
   e. WATER...............................ASTM C94 POTABLE
   f. AIR-ENTRAINING..............................ASTM C260
   g. WATER-REDUCING..................ASTM C494 TYPE A
   h. RETARDING.........................ASTM C494 TYPE B
   i. WATER-REDUCING/RETARDING..ASTM C494 TYPE D
   j. PLASTICIZING/RETARDING.......ASTM C1017 TYPE II
2. CONCRETE MIXTURES SHALL BE THE NORMAL WEIGHT TYPE (145 PCF) & THE FOLLOWING FOR INDIVIDUAL BUILDING ELEMENTS:
   a. ALL BUILDING ELEMENTS, UNLESS NOTED OTHERWISE:
      1. PORTLAND CEMENT...TYPE I (GRAY)
      2. COMPRESSIVE STRENGTH @ 28 DAYS.....
         - WALLS............ 4000psi
         - FOOTINGS.......3000psi
         - SLABS............3500psi
      3. WATER/CEMENT RATIO...0.59 (MAX)
      4. COARSE AGGREGATE SIZE..1 1/2 INCHES (MAX)
      5. FINE AGGREGATE... FREE OF ANY MATERIALS THAT NEGATIVELY REACT TO THE ALKALI CONTENT IN CEMENT
      6. SLUMP LIMIT..4 INCHES (+/- 1 INCH)
      7. AIR CONTENT
         - EXPOSED TO WEATHER.............4% TO 6%
         - NOT EXPOSED TO WEATHER.................6% (+/- 1 1/2%)
         - TROWELED FINISHED SLABS..........3% MAX
3. CONCRETE SURFACES SHALL BE CURED A MINIMUM OF SEVEN (7) DAYS PER THE USE OF THE FOLLOWING:
   a. ABSORPTIVE COVER.........AASHTO M182 CLASS 2
   b. MOISTURE-RETAINING COVER.............ASTM C171
   c. MEMBRANE-FORMING CURING COMPOUND....ASTM C309 TYPE 1 CLASS B
   d. MEMBRANE-FORMING CURING/SEALING COMPOUND............ASTM C1315 TYPE 1 CLASS A
4. ACCESSORIES:
   a. BONDING AGENT/DOWEL & ANCHOR GROUT: SIKADUR 32 HI-MOD AS MANUFACTURED BY SIKA CORP. OF LYNDHURST, NJ OR APPROVED EQUAL.
   b. CONTRACTION OR CONSTRUCTION JOINT SEALANT: SIKADUR 51 SL AS MANUFACTURED BY SIKA CORP. OF LYNDHURST, NJ OR APPROVED EQUAL.
   c. ISOLATION JOINT SEALANT: SKIAFLEX - 1a AS MANUFACTURED BY SIKA CORP. OF LYNDHURST, NJ OR APPROVED EQUAL.
   d. VAPOR RETARDER: ASTM E1745 CLASS A
   e. PREMOLDED EXPANSION JOINT FILLER (PMF): HOMEX 300 AS MANUFACTURED BY HOMASOTE COMPANY, WEST TRENTON, NJ OR APPROVED EQUAL.
   f. UNDERSLAB INSULATION: EXTRUDED-POLYSTYRENE PER ASTM C578 TYPE IV, 25 PSI COMPRESSIVE STRENGTH, WITH MAXIMUM FLAME-SPREAD & SMOKE-DEVELOPED INDICES OF 75 & 450, RESPECTIVELY, PER ASTM E 84.
   g. WATERSTOP: VOLCLAY WATERSTOP-RX AS MANUFACTURED BY CETCO, ARLINGTON HEIGHTS, IL OR APPROVED EQUAL.
   h. ANCHORING SYSTEM:ADHESIVE REINFORCING HILTI HY-150 SYSTEM OR APPROVED EQUAL EXPANSION BOLTS HILTI KWIK BOLT II OR APPROVED EQUAL

C. EXECUTION
1. COORDINATE PLACEMENT OF CAST-IN-PLACE EMBEDMENTS & ANCHOR RODS WITH A TEMPLATE. SECURELY ATTACH EMBEDMENT ITEMS TO FORMWORK OR REINFORCING.
2. PLACE CONCRETE IN ONE LAYER OR IN HORIZONTAL LAYERS OF SUCH THICKNESS SO THAT NO NEW CONCRETE WILL BE PLACED ON CONCRETE THAT HAS HARDENED ENOUGH TO CAUSE SEAMS OF PLANES OF WEAKNESS (COLD JOINTS).
3. PROVIDE CONSTRUCTION, CONTRACTION & ISOLATION JOINTS AS INDICATED ON DRAWINGS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED OR APPROVED BY THE SER. PROPOSED JOINT LOCATIONS THAT ARE DIFFERENT OR IN ADDITION TO THE JOINT LOCATIONS INDICATED ON THE DRAWINGS MUST BE REVIEWED & APPROVED BY THE SER.
   a. CONSTRUCTION JOINTS & CONTROL JOINTS IN SLABS ON GRADE SHALL BE ARRANGED TO LIMIT MAXIMUM LENGTH BETWEEN JOINTS TO 15'-0" IN ANY DIRECTION. ALLOW A MINIMUM OF 48 HOURS TIME BETWEEN PLACEMENT OF ADJACENT SECTIONS.
4. UNLESS NOTED OTHERWISE, CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4 INCH.
5. ALL INTERIOR SLABS-ON-GRADE SHALL BE PLACED OVER A 10 MIL (MIN) VAPOR RETARDER. ALL EDGES OF THE VAPOR RETARDER SHALL BE LAPPED A MINIMUM OF 6 INCHES & TAPED TO PREVENT ANY & ALL PASSAGE OF MOISTURE.
6. BEGIN CURING PROCEDURES IMMEDIATELY AFTER COMPLETING PLACEMENT. CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES & MECHANICAL INJURY. METHODS OF CURING SHALL BE AS FOLLOWS:
   a. MATS, PADS & SLABS SHALL BE COVERED WITH WATERPROOF SHEETING FOR AT LEAST SEVEN (7) ACCEPTABLE DAYS. A DAY ON WHICH THE "CURING" TEMPERATURE DROPS BELOW 50° IS NOT CONSIDERED TO BE AN ACCEPTABLE DAY. THE "CURING TEMPERATURE" IS CONSIDERED TO BE THE TEMPERATURE OF AIR IMMEDIATELY ADJACENT TO THE CONCRETE.
   b. PROVIDE A CONTINUOUS, UNIFORM MEMBRANE BY SPRAY APPLYING TWO (2) COATS OF A CURING COMPOUND TO ALL FORMED SURFACES. APPLY FIRST COAT IMMEDIATELY AFTER STRIPPING FORMS & AFTER ACCEPTANCE OF THE CONCRETE FINISH. APPLY THE SECOND AFTER THE FIRST APPLICATION HAS SET (+/-3 DAYS).
7. ALUMINUM MATERIALS ARE NOT PERMITTED TO BE EMBEDDED IN CONCRETE.
8. DEPOSIT CONCRETE IN HORIZONTAL LAYERS OF DEPTH NOT TO EXCEED FORMWORK DESIGN PRESSURES & IN A MANNER TO AVOID INCLINED CONSTRUCTION.
9. CONSOLIDATE PLACED CONCRETE WITH MECHANICAL VIBRATING EQUIPMENT ACCORDING TO ACI 301.
10. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE INSIDE FORMS. INSERT AND WITHDRAW VIBRATORS VERTICALLY AT UNIFORMLY SPACED LOCATIONS TO RAPIDLY PENETRATE PLACED LAYER AND AT LEAST 6 INCHES INTO PRECEDING LAYER. DO NOT INSERT VIBRATORS INTO LOWER LAYERS OF CONCRETE THAT HAVE BEGUN TO LOSE PLASTICITY. AT EACH INSERTION, LIMIT DURATION OF VIBRATION TO TIME NECESSARY TO CONSOLIDATE CONCRETE AND COMPLETE EMBEDMENT OF REINFORCEMENT AND OTHER EMBEDDED ITEMS WITHOUT CAUSING MIXTURE TO SEGREGATE.

4. MASONRY

4.1 STANDARDS

A. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530-08.

B. STANDARDS SPECIFICATION FOR MASONRY JOINT REINFORCEMENT, ASTM A951-02.

4.2 MATERIALS

A. LOAD-BEARING CONCRETE MASONRY UNITS (CMU).......ASTM C90 TYPE 1 GRADE N, NET AREA COMPRESSIVE STRENGTH..........2,000 PSI

B. NON-LOAD-BEARING CMU................................ASTM C129

C. MORTAR
1. NET AREA COMPRESSIVE STRENGTH = 2,000 PSI.
2. CMU CONSTRUCTION BELOW FINISHED GRADE.......ASTM C270 TYPE S
3. CMU CONSTRUCTION ABOVE FINISHED GRADE...........ASTM C270 TYPE S

D. GROUT..........ASTM C476 28 DAY MINIMUM COMPRESSIVE STRENGTH = 2,500 PSI

E. REINFORCEMENT:
1. DEFORMED & PLAIN BARS............ASTM A615 GRADE 60
2. CARBON STEEL WIRE..................................ASTM A82
3. MASONRY STEEL ANCHORS, GALVANIZED PER........ASTM A153

F. ASSEMBLY...f'm = 1,500 PSI

4.3 EXECUTION

B. ALL LOAD BEARING CMU WALLS REQUIRE INSPECTION. INSPECTION CONTROL SHALL BE ESTABLISHED TO ASSURE THAT THE MASONRY MATERIALS & CONSTRUCTION PRACTICES COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

C. ALL CMU WALLS ARE TO BE LAID IN RUNNING BOND. ALIGN ALL CELLS VERTICALLY TO MAINTAIN A CLEAR, UNOBSTRUCTED SYSTEM OF FLUES.

D. WHEN PLACING CMU, FULLY MORTAR FACE SHELLS OF BED & HEAD JOINTS, EXCEPT AT FIRST COURSE ON TOP OF FOUNDATION WALL OR FOOTING, WHICH SHALL BE FULLY BEDDED IN MORTAR AT LEAST 1/4 INCH THICK BUT NOT MORE THAN 3/4 INCH THICK. TOOL ALL JOINTS, INSIDE & OUTSIDE. TO A CONCAVE, DENSE SMOOTH SURFACE.

E. ALL CMU WALLS SHALL HAVE GALVANIZED, STANDARDS WEIGHT (MINIMUM) TRUSS TYPE REINFORCEMENT SPACED VERTICALLY AT 16" OC MAXIMUM. PROVIDE CORNER & "TEE" SECTIONS OF REINFORCEMENT AT ALL WALL INTERSECTIONS. LAP ALL JOINT REINFORCEMENT 8 INCHES MINIMUM.

F. ALL CMU WALLS SHALL BE REINFORCED AS SHOWN ON THE DRAWINGS FOR THE FULL HEIGHT OF THE WALL. ALL LAP SPLICES SHALL HAVE A MINIMUM LAP EQUAL TO 40 TIMES THE BAR DIAMETER. AVOID LAP SPLICES AT POINTS OF MAXIMUM STRESS. GROUT ALL VERTICALLY REINFORCED CELLS SOLID BY PLACING GROUT IN LIFTS NOT EXCEEDING FIVE (5) FEET HIGH. REINFORCING SHALL BE LOCATED IN CENTER OF CELLS UNLESS NOTED OTHERWISE ON DRAWINGS. POSITION & HOLD REINFORCING IN PLACE BY THE USE OF PREFABRICATED STEEL WIRE BAR POSITIONERS. CONSOLIDATE GROUT WHEN PLACING BY USING A MECHANICAL VIBRATOR. RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS & SETTLEMENT HAS OCCURRED.

G. LINTELS BEARING ON CMU SHALL HAVE A MINIMUM BEARING LENGTH OF (8) INCHES, UNLESS OTHERWISE NOTED. A MINIMUM OF TWO (2) MASONRY COURSES, 24 INCHES WIDE SHALL BE FULLY GROUTED FOR LINTEL BEARING.

H. ALL BOND BEAMS INDICATED ON DRAWINGS SHALL BE GROUTED SOLID.

I. FOR MASONRY OPENINGS EQUAL TO & GREATER THAN TWO (2) FEET IN EITHER DIRECTION, PROVIDE TWO (2) #5 BARS, FULLY GROUTED ON ALL SIDES OF THE OPENING. BARS SHALL EXTEND A MINIMUM OF TWO (2) FEET BEYOND EDGE OF OPENING. MECHANICAL OPENINGS THROUGH CMU WALLS FOR EQUIPMENT, PIPES, ETC. ARE TO BE PROVIDED WITH STEEL PIPE SLEEVES OR LINTELS, WHICH ARE PRE-INSTALLED IN THE CMU WALLS.

J. PROVIDE ADJUSTABLE MASONRY-VENEER ANCHORS THAT ALLOW VERTICAL ADJUSTMENT BUT RESIST TENSION & COMPRESSION FORCES PERPENDICULAR TO THE PLANE OF THE WALL, FOR ATTACHMENT OVER SHEATHING TO WOOD OR METAL STUDS.

K. FOR CMU WALL ANCHORS TO STRUCTURAL STEEL MEMBERS, PROVIDE A HOMANN & BARNARD 351, 352 WIRE ANCHORS AT A MAXIMUM OF 32 INCHES O.C.

L. ALL EXPOSED MASONRY SHALL BE THOROUGHLY CLEANED & LEFT FREE OF MORTAR SPOTS & DROPPINGS. MASONRY WORK SHALL BE PROTECTED FROM DAMAGE DURING SUBSEQUENT CONSTRUCTION OPERATIONS. ALL COSTS NECESSARY TO REPAIR DAMAGED WALLS SHALL BE BORNE BY THE CONTRACTOR & SHALL BE DONE TO THE SATISFACTION OF THE SER.

5. METALS

SECTION NOT USED

6. WOOD

6.1 CODES

A. "DESIGN SPECIFICATIONS." TIMBER CONSTRUCTION MANUAL, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION

B. "NATIONAL DESIGN SPECIFICATIONS OF WOOD CONSTRUCTION", AMERICAN FOREST & PAPER ASSOCIATION, AMERICAN WOOD COUNCIL.

C. "PERFORMANCE STANDARDS & POLICIES FOR STRUCTURAL USE PANELS," PRP-108, AMERICAN PLYWOOD ASSOCIATION (APA).

6.2 MATERIALS

A. SAWN LUMBER ALL SAWN LUMBER SHALL HAVE 19% MAXIMUM MOISTURE CONTENT & SHALL BE SURFACE DRY SOUTHERN PINE WITH THE FOLLOWING MIN. DESIGN VALUES:

CEILING JOISTS / RAFTER / BEAMS: NUMBER 1 OR BETTER

Fb = 875 psi Fa (PAR) = 1150 psi Fv = 135 psi

Ft = 450 psi Fc (PERP) = 425 psi E = 1,400,000 psi

B. APA PERFORMANCE RATED PLYWOOD PANELS

(1) PLYWOOD WALL SHEATHING
19/32" THICK, EXPOSURE 1, SPAN RATING 32/16

(2) PLYWOOD ROOF SHEATHING
19/32" THICK, EXPOSURE 1, SPAN RATING 40/20

(3) PLYWOOD SUBFLOOR23/32" THICK, EXPOSURE 1, SPAN RATING 40/20

6.3 SAWN LUMBER

A. MEMBERS SHALL BE SET WITH CROWN UP & HAVE A MINIMUM OF 3" BEARING

B. MEMBERS FRAMING TO BEAMS, HEADERS, ETC. SHALL BE SECURED WITH SIMPSON STRONG-TIE FRAMING ANCHORS OR APPROVED EQUAL, UNLESS OTHERWISE NOTED OR SHOWN

C. ALL JOISTS & RAFTERS SHALL BE RIGIDLY BRIDGED AT INTERVALS NOT EXCEEDING 8'-0".

D. PROVIDE CONTINUOUS SOLID BLOCKING UNDER CONCENTRATED LOADS DOWN THROUGH ROOF FRAMING TO EXISTING BEARING WALLS.

E. DESIGN OF TRUSSES, TRUSS BRACING & DETAILING OF TRUSS CONNECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL BE BY THE FABRICATOR'S ENGINEER REGISTERED IN THE PROJECTS JURISDICTION

F. ALL BOLTS & LAG BOLTS SHALL BE FITTED WITH GALVANIZED, MALLEABLE IRON OR STEEL PLATE WASHERS.

G. CONNECTION DETAILS SHOW ARRANGEMENT OF STRUCTURAL MEMBERS ONLY. DESIGN OF CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE BUILDER/FABRICATOR.

H. MANUFACTURED WOOD BEAMS UTILITY MICROLAM FRAMING MEMBERS SHALL BE "1.9E MICROLAM", "PARALLAM", OR APPROVED EQUAL WITH THE FOLLOWING MECHANICAL PROPERTIES & MINIMUM STRENGTH VALUES:

MICROLLAM

Fb = 2600 psi Fc (PER) = 2310 psi Fv = 285 psi

Fc (PERP) = 750 psi E - 2,000,000 psi

SIZE	SHEAR	MOMENT
1-3/4" x 9-3/4"	3075 LBS	5600 FT/LBS
1-3/4" x 11-7/8"	3950 LBS	8925 FT/LBS

6.4 PLYWOOD PANELS

A. FACTORY-MARK EACH CONSTRUCTION PANEL WITH APA TRADEMARK EVIDENCING COMPLIANCE WITH GRADE REQUIREMENTS

B. INSTALL PANELS WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTING MEMBERS, UNLESS SHOWN OTHERWISE.

6.5 WOOD PRESERVATIVE TREATMENT

A. WHERE LUMBER OR PLYWOOD IS INDICATED AS "TREATED" OR "PRESSURE TREATED", COMPLY WITH APPLICABLE REQUIREMENTS OF AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) STANDARDSS C2 (LUMBER) & C9 (PLYWOOD) & WITH AWPB STANDARDSS LISTED BELOW. MARK EACH TREATED ITEM WITH THE AWPB QUALITY MARK REQUIREMENTS.

B. PRESSURE TREAT ABOVE-GROUND ITEMS WITH WATER-BORNE PRESERVATIVES TO COMPLY WITH AMERICAN WOOD PRESERVERS BUREAU (AWPB) LP-2. AFTER TREATMENT, KILN-DRY LUMBER & PLYWOOD TO A MAXIMUM MOISTURE CONTENT, RESPECTIVELY, OF 10 PERCENT & 15 PERCENT.

C. TREAT INDICATED ITEMS & WOOD SILLS, SLEEPERS, BLOCKING, & SIMILAR CONCEALED MEMBERS IN CONTACT WITH MASONRY OR CONCRETE.

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OWNER/CLIENT
FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT
ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING
STRUCTURAL SPECIFICATIONS

DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
S-0.1

FOUNDATION PLAN KEYNOTES

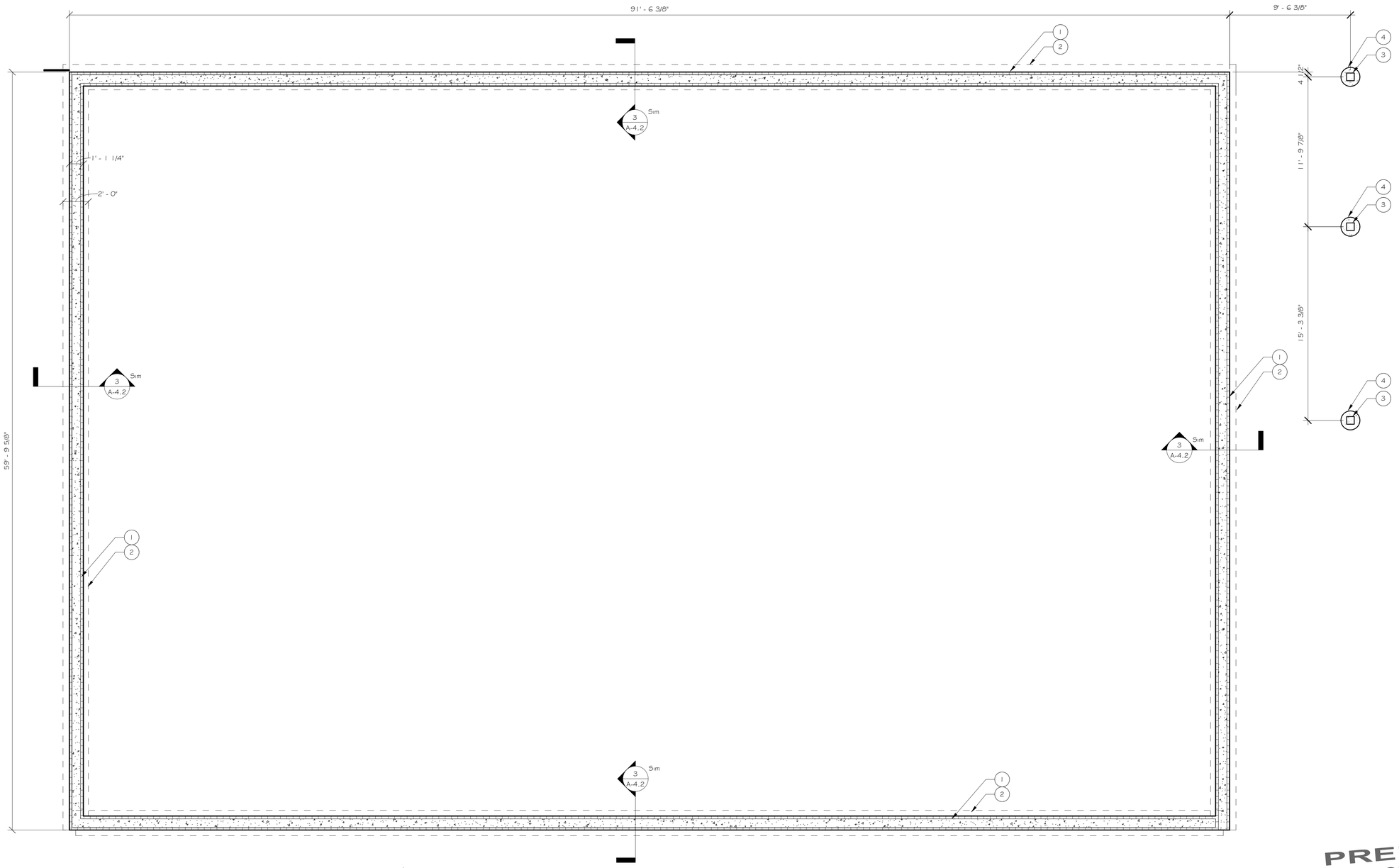
1. 8" CONC. ICF FOUNDATION WALL WITH #4 BAR VERTICAL @48" O.C. AND # 4 BAR HORIZONTAL @24" O.C.
2. CONCRETE FOOTING 12" DEEP BY 24" WIDE WITH (3) #4 BAR CONTINUOUS
3. 8 X 8 P.T. POST
4. 18" SONOTUBE 4'-0" DEEP MIN.

GENERAL FOUNDATION NOTES

1. ALL DIMENSIONS ARE TO FACE OF ICF FOUNDATION WALL.
2. BOTTOM OF FOOTING SHALL BE A MINIMUM OF 4'-0" BELOW FINISHED GRADE ELEVATION.
3. FOUNDATIONS SHALL NOT BE CONSTRUCTED OVER EXISTING FILL MATERIALS UNLESS SPECIFICALLY APPROVED BY A GEOTECHNICAL ENGINEER.
4. ALL FOOTINGS SHALL BEAR ON PROPERLY PLACED STRUCTURAL FILL OR ON FIRM NATURALLY OCCURRING SOIL WITH A MINIMUM BEARING CAPACITY OF 1,500 PSI.
5. FINISHED FIRST FLOOR ELEVATION SHALL BE 100'-0".
6. TYPICAL 8" CONCRETE ICF WALL REINFORCEMENT SHALL BE #4 BARS AT 48" O.C. VERTICAL AND #4 BARS AT 24" O.C. HORIZONTAL. PROVIDE STIRRUPS OF #3 REINFORCEMENT BARS AS INDICATED ON DRAWINGS. PROVIDE LINTEL REINFORCEMENT AS SCHEDULED.

SIMPSON STRONG TIE SCHEDULE

MODEL #	USE	MEMBER SIZE(S)	REMARKS
LU28	FACE MOUNT JOIST HANGER	2X8, 2X10	
LU210	FACE MOUNT JOIST HANGER	2X10, 2X12, 2X14	
LB28	TOP MOUNT JOIST HANGER	2X8	
LB210AZ	TOP MOUNT JOIST HANGER	2X10	
LB212AZ	TOP MOUNT JOIST HANGER	2X12	
IUS1.81/11.88	FACE MOUNT JOIST HANGER	1 3/4 X 11 7/8 I-JOIST	
ITS1.81/11.88	TOP MOUNT JOIST HANGER	1 3/4 X 11 7/8 I-JOIST	
IUS3.56/11.88	FACE MOUNT BEAM/ HEADER HANGER	(2) PLY 1 3/4 X 11 7/8 BEAM/HEADER	UP TP 1430 LBS
ITS3.56/11.88	TOP MOUNT BEAM/ HEADER HANGER	(2) PLY 1 3/4 X 11 7/8 BEAM/HEADER	UP TO 1735 LBS
TB27	JOIST CROSS BRACING	2X8-2X12 AND 9 1/2-12 I-JOISTS	
ABU44Z	POST BASE	4X4	
ABU66Z	POST BASE	6X6	
ABU88Z	POST BASE	8X8	
LCC4.5-3.5	COLUMN CAP	(3) PLY 2X10, 2X12 TO 3 1/2 COLUMN	
LCC3.5-3.5	COLUMN CAP	(3) PLY 1 3/4XALL LVL TO 3 1/2 COLUMN	
LCC5.25-3.5	COLUMN CAP	(3) PLY 1 3/4XALL LVL TO 3 1/2 COLUMN	
H2.5A	TRUSS/ RAFTER BEARING STRAP	TRUSS AND RAFTER	
ST18	RAFTER RIDGE STRAP	RAFTER	
PL400	ADHESIVE WOOD TO WOOD	SUBFLOOR TO JOIST, LEDGER TO WALL	
PL100	ADHESIVE GWB TO WOOD	GWB TO STUD	
PL300	ADHESIVE FOAMBOARD TO WOOD,GWB	FOAMBOARD TO SHEATHING	



1 FOUNDATION CONSTRUCTION PLAN - T.O. FOOTING

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TITLE OF DRAWING
FOUNDATION PLAN

DRAWING SCALE
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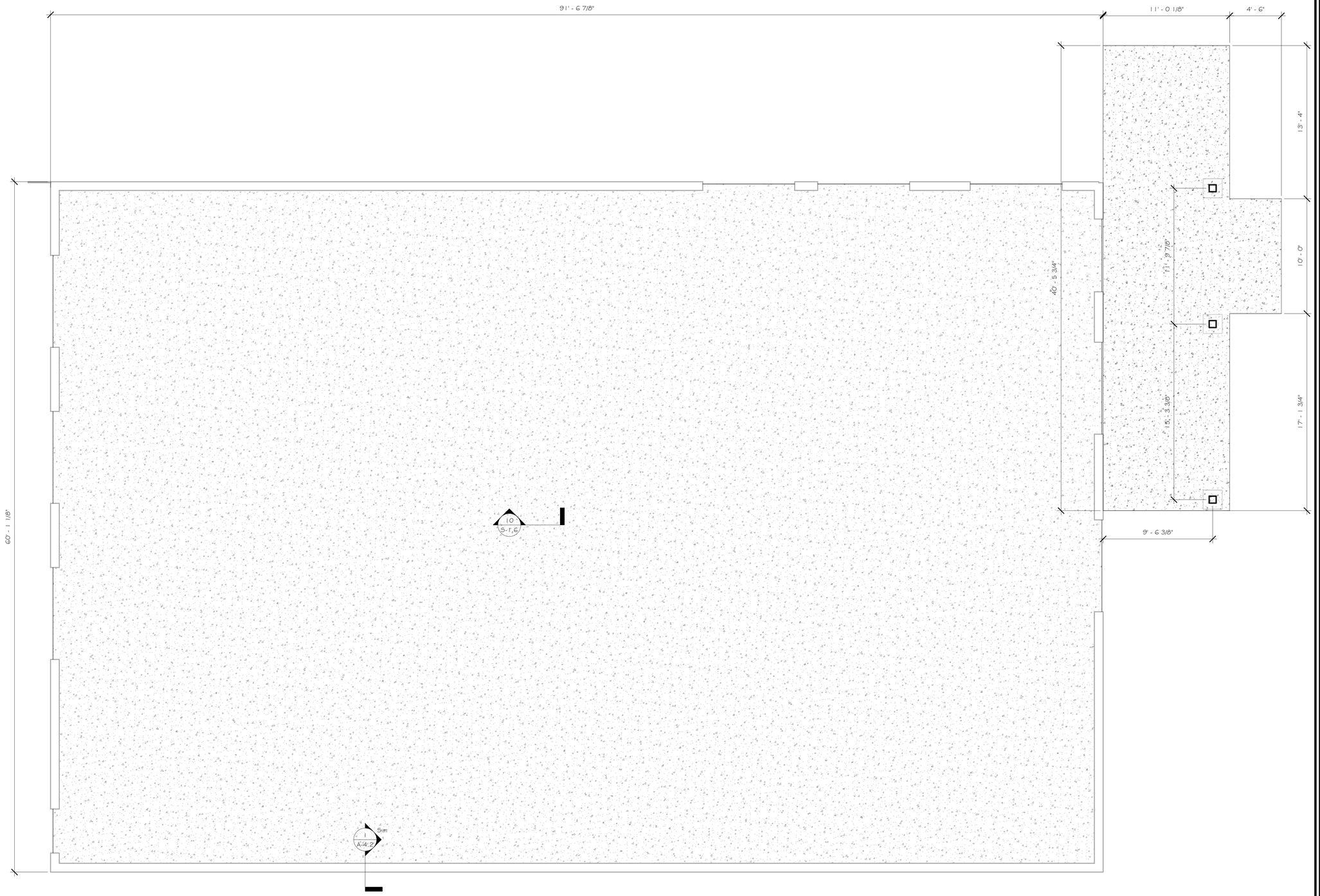

1 FIRST FLOOR FRAMING PLAN
1/4" = 1'-0"

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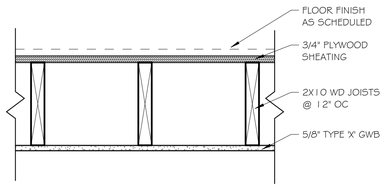
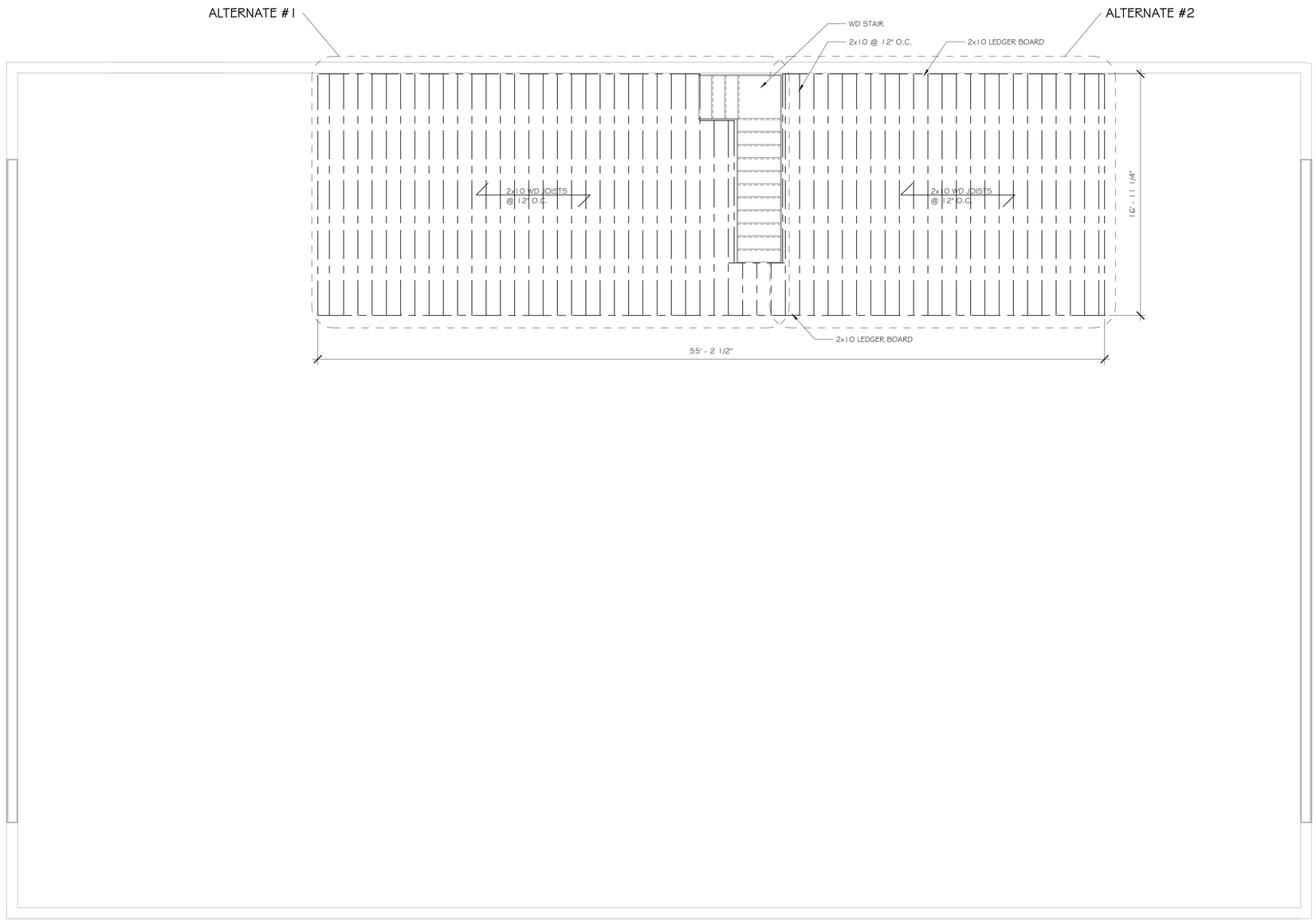


2 TYP DETAIL @ LOFT FLOOR
1 1/2" = 1'-0"



1 LOFT FRAMING PLAN
1/4" = 1'-0"

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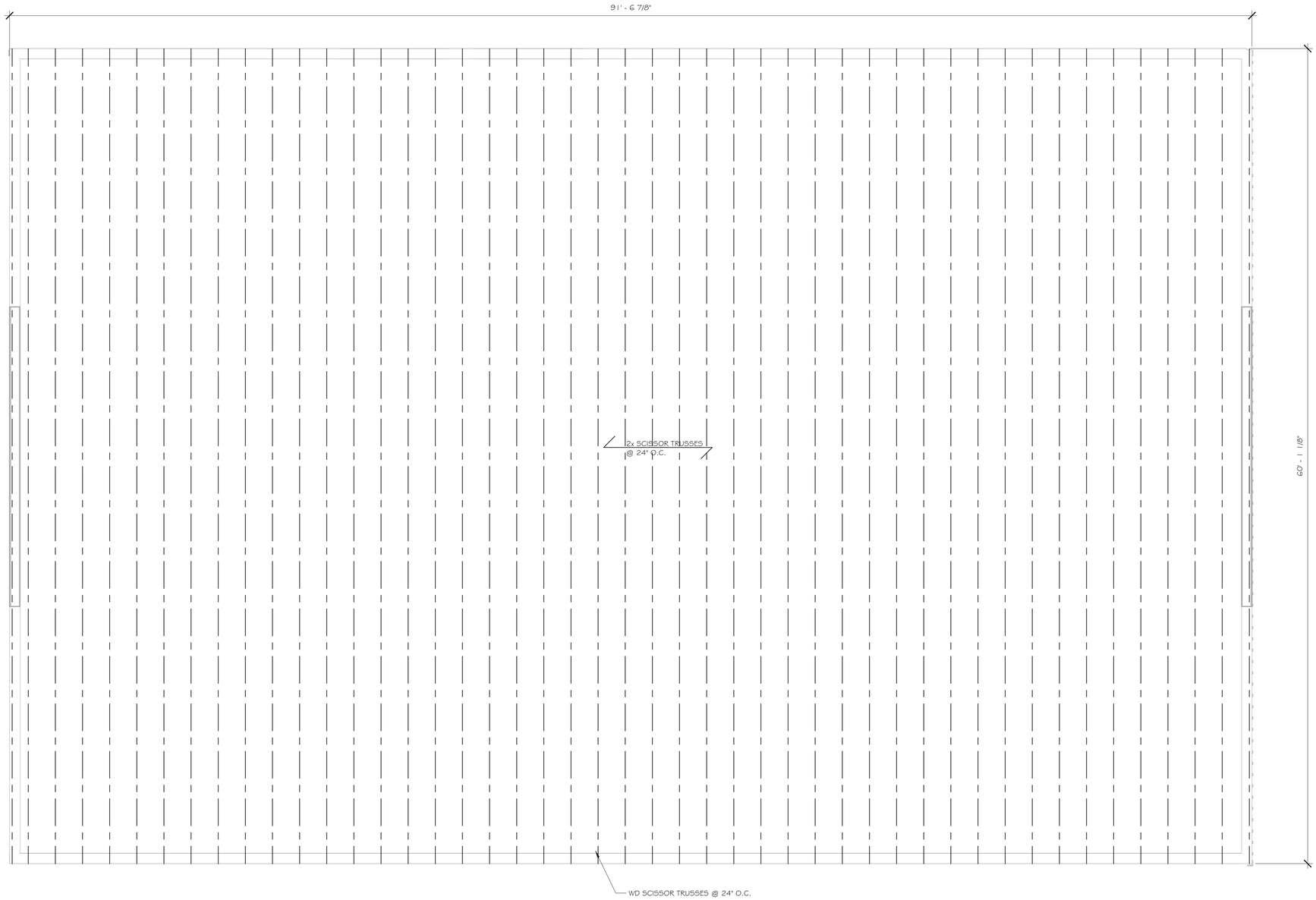

1 ROOF FRAMING PLAN
1/4" = 1'-0"

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ROOF FRAMING PLANS

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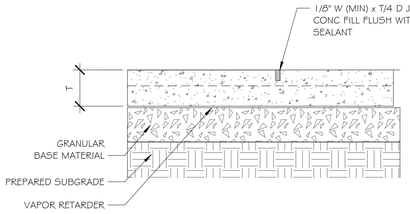
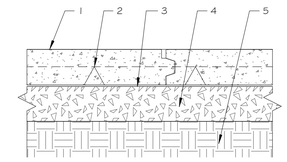
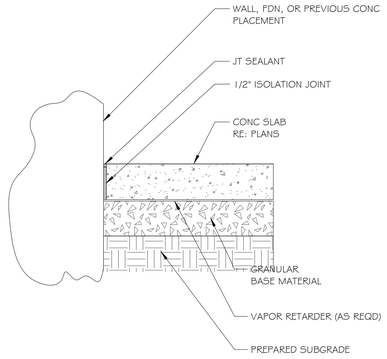


6 TYP. CONTROL JOINT
1" = 1'-0"

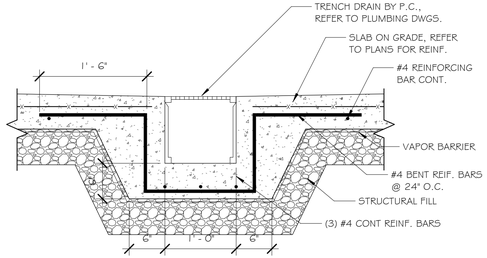


1. CONC SLAB, RE: PLAN FOR THK.
2. REINF, RE: PLAN FOR SIZE AND SPACING.
3. VAPOR RETARDER: 10 MIL THK(NOT REQD AT EXT)
4. 6" GRANULAR BASE MATERIAL.
5. PREPARED SUBGRADE.

10 TYP. SLAB CONSTRUCTION
1" = 1'-0"

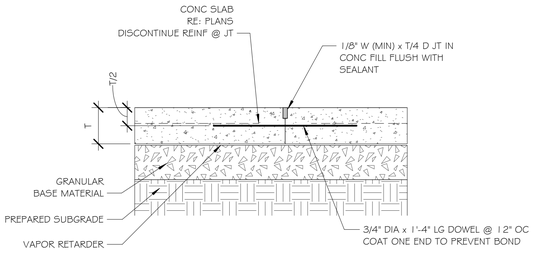


9 TYP. ISOLATION JOINT (IJ)
1" = 1'-0"

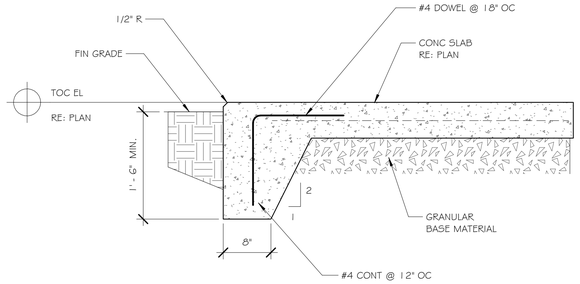


NOTE: COORDINATE CONCRETE INSTALLATION WITH TRENCH DRAIN TO ENSURE PROPER ANCHORING OF TRENCH DRAIN

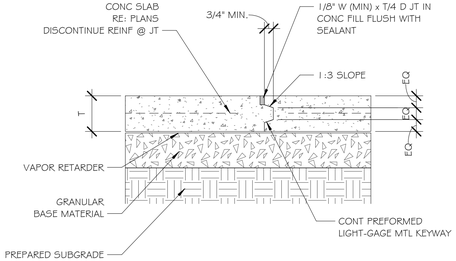
2 TYP. TRENCH DRAIN SECTION
1" = 1'-0"



7 TYP. DOWELED CONSTRUCTION JOINT (CJ)
1" = 1'-0"

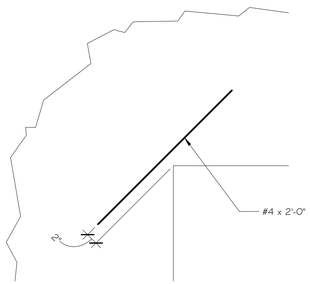


13 TYP. TURN-DOWN SLAB DETAIL
1" = 1'-0"

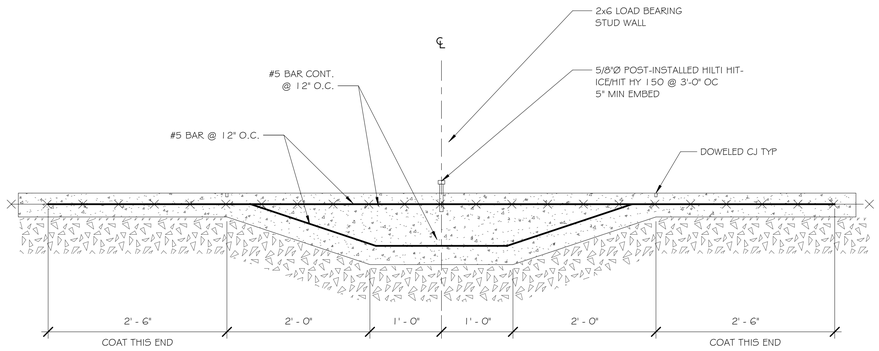


NOTE: LOCATE CJ TO CONFORM WITH SLAB JOINTING PATTERN.

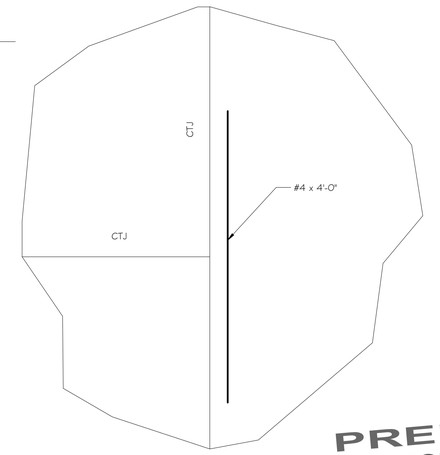
5 TYP. CONSTRUCTION JOINT (CJ)
1" = 1'-0"



11 TYP. SLAB RE-ENTRANT CORNER DETAIL
1" = 1'-0"



3 THICKENED SLAB DETAIL
1" = 1'-0"



1 CONTRACTION JOINT (CTJ) @ DISCONTINUOUS JOINT
1" = 1'-0"

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TITLE OF DRAWING
FOUNDATION DETAILS

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25-086
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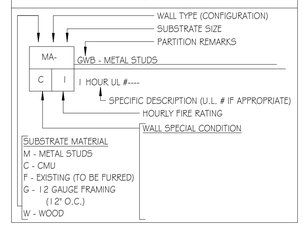
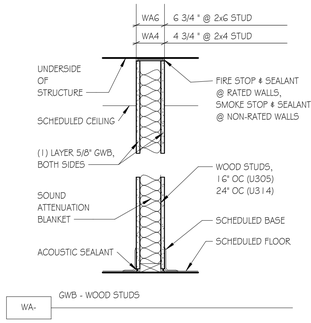
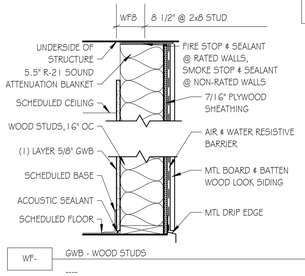
PARTITION NOTES

A. GYPSUM BOARD (GWB):
1. ALL DIMENSIONS ARE NOMINAL TO FACE OF GWB. WHERE CERAMIC TILE IS SCHEDULED, DIMENSIONS ARE TO FACE OF GWB.
2. ALL METAL FRAMING TO BE 3 5/8" UNLESS OTHERWISE NOTED. METAL STUDS TO BE PLACED 16" ON CENTER. WHERE REQUIRED STUD WIDTH CANNOT BE INSTALLED, PROVIDE STUD WIDTH, FRAMING OF SUITABLE GAGE AND STYLE TO SUIT JOB CONDITION.
3. ALL GYPSUM BOARD (GWB) TO BE 5/8" TYPE-X 1 HOUR FIRE RATED. AT WET AREAS, ALL GWB (CEILINGS OR PARTITIONS) TO BE MOISTURE RESISTANT TYPE. AT CERAMIC TILE AREAS PROVIDE CEMENT BACKER UNIT (CEMENT BOARD) IN LIEU OF GWB TO RECEIVE CERAMIC TILE.
4. PROVIDE ACOUSTICAL SEALANT AT ALL PARTITIONS, PERIMETERS, RUNNERS, ELECTRICAL OUTLETS, PENETRATIONS AND OPENINGS. TO MINIMIZE SOUND TRANSMISSION, ELECTRICAL OUTLETS SHALL BE SEPARATED BY MINIMUM ONE STUD, BACK TO BACK RECEPTACLES ARE NOT ACCEPTABLE.
5. ALL PARTITIONS TO RECEIVE 3" SOUND ATTENUATION BLANKET UNLESS INDICATED IN PARTITION REMARKS SECTION OF PARTITION SYMBOL.
6. PROVIDE FIRE RATED PARTITIONS WHERE INDICATED. FIRE STOPPIRE SAFE & SMOKE STOP ALL PENETRATIONS THROUGH PARTITIONS, GAPS & JOINTS. ALL FIRE RATED PARTITION ASSEMBLIES SHALL EXTEND FULL HEIGHT FROM FLOOR TO UNDERSIDE OF METAL DECK ABOVE. ALL OTHER PARTITIONS TO EXTEND FULL HEIGHT UNLESS OTHERWISE NOTED. FIRE RATED PARTITION TERMINATIONS SHALL BE FIRE STOPPED/FIRE SAFED TO PROVIDE THE SCHEDULED FIRE RESISTANCE RATING. REFER TO BUILDING CODE REVIEW PLAN(S).
7. WHERE GWB PARTITION EDGE ALIGNS WITH CMU PARTITION EDGE, ADJUST ALIGNMENT SO THAT GWB SURFACE LAMINATES OVER CMU, EXTENT GWB TO CORNER.
8. METAL STUDS IN CHASE PARTITIONS TO BE BRACED TO EACH OTHER AT 1/3 POINTS.
9. GWB CONSTRUCTION SHALL BE ISOLATED WITH CONTROL JOINTS WHERE:
   A. PARTITIONS OR CEILINGS OF DISSIMILAR CONSTRUCTION MEET AND REMAIN IN THE SAME PLANE.
   B. WHERE WINGS OF 'L', 'U' & 'T' SHAPED CEILING AREAS ARE JOINED.
   C. EXPANSION OR CONTROL JOINTS OCCUR IN THE BUILDING STRUCTURE OR WALL CONSTRUCTION. PROVIDE CONTROL JOINTS IN THE FACE OF GWB PARTITIONS AND CEILINGS WHEN THE SIZE OF THE SURFACE EXCEEDS THE FOLLOWING CONTROL JOINT SPACINGS:
      1. PARTITIONS: 30' MAXIMUM IN EITHER DIRECTION.
      2. INTERIOR CEILINGS: 50' MAX IN EITHER DIRECTION (W/ PERIMETER RELIEF). 30' MAX IN EITHER DIRECTION (W/O PERIMETER RELIEF).
10. PROVIDE SOLID BLOCKING AT ALL WALLS RECEIVING WALL MOUNTED EQUIPMENT AND/OR ACCESSORIES. COORDINATE WITH ALL TRADES & OWNERS EQUIPMENT/FURNITURE LAYOUTS.
11. ALL RECESSED ITEMS SUCH AS ELECTRICAL PANELS, FIRE HOSE AND EXTINGUISHER CABINETS, ETC., LOCATED IN FIRE RATED PARTITION ASSEMBLIES SHALL BE BACKED W/ GWB AS REQUIRED TO MAINTAIN FIRE RESISTANCE RATING.
12. PARTITION TYPES ARE INDICATED ON FLOOR PLANS. EACH PARTITION TYPE SCHEDULED PROVIDES A COMPLETE ASSEMBLY DESCRIPTION INCLUDING METAL STUD SIZE, THICKNESS AND NUMBER OF LAYERS OF GWB REQUIRED, SOUND ATTENUATION BLANKET, AND OTHER DATA. WHERE PARTITION TYPES ARE NOT INDICATED ON FLOOR PLANS, PROVIDE THE FOLLOWING: 3 5/8" METAL STUDS, (MIN GAUGE OF 20), (1) LAYER 5/8" GWB (BOTH SIDES), SOUND ATTENUATION BLANKET IN STUD CAVITY.
13. WHERE INSULATION EXTENDS FULL HEIGHT AND IS NOT CONCEALED BY GYPSUM BOARD, PROVIDE COMPRESSION RODS OR SUITABLE FRAMING TO SUPPORT INSULATION.

PARTITION LEGEND







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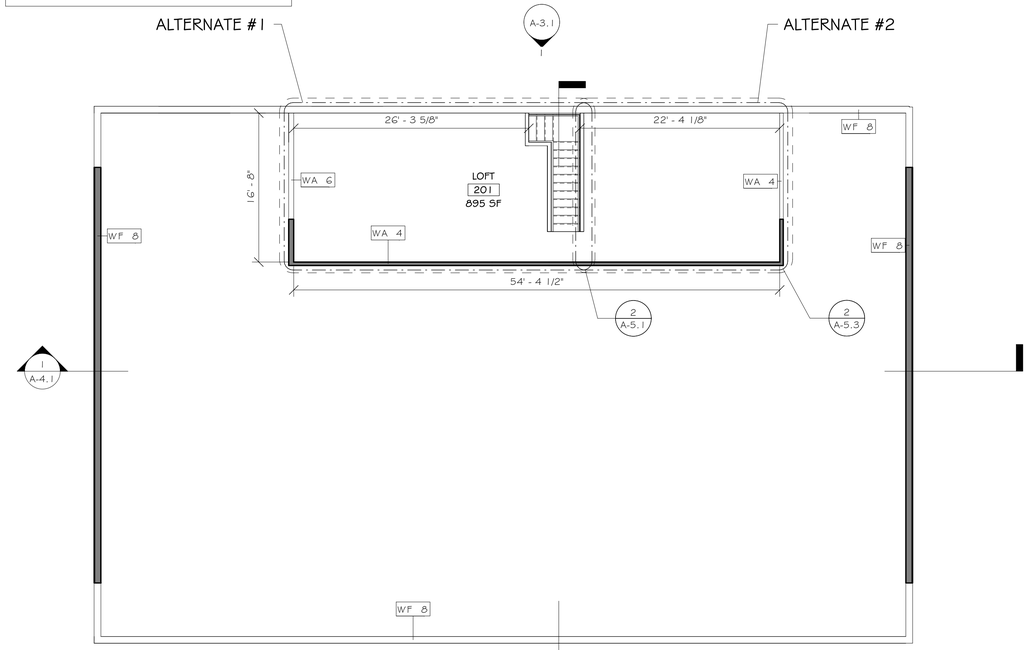
1. ALL WORK INDICATED ON THE ARCHITECTURAL, SITE, & STRUCTURAL DRAWINGS IS TO BE BY THE GENERAL TRADES CONTRACTOR UNLESS NOTED OTHERWISE. THE GENERAL TRADES CONTRACTOR IS RESPONSIBLE FOR ALL WORK REQUIRED TO IMPLEMENT THE WORK OF THE GENERAL TRADES CONTRACT, REGARDLESS OF WHETHER SPECIFICALLY INDICATED OR NOT, UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE FROM THE SURFACE OF SHEATHING, UNLESS NOTED OTHERWISE.
3. ITEMS SHOWN ARE INTENDED TO GIVE APPROXIMATE QUANTITY, LOCATION AND TYPE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ACTUAL QUANTITY & EXISTING FIELD CONDITIONS.
4. THE OWNER RESERVES THE RIGHT TO RETAIN ANY REMOVED ITEMS AFTER CONTRACTOR REMOVAL. THE CONTRACTOR SHALL REMOVE FROM THE SITE, & DISPOSE OF ANY ITEMS THE OWNER DOES NOT WISH TO RETAIN.
5. THE CONTRACTOR SHALL RESTORE ALL EXCAVATIONS TO EXISTING GRADE ELEVATION UNLESS NOTED OTHERWISE.
6. VERIFY WITH THE OWNER THE EXACT SIZE OF ALL EQUIPMENT FURNISHED BY OWNER FOR PROPER FIT WITH CONTRACTOR SUPPLIED COMPONENTS.
7. PROVIDE AN APPROVED GALVANIC BARRIER BETWEEN ALL DISSIMILAR METALS IN CONTACT WITH ONE ANOTHER.
8. VERIFY WITH THE OWNER THE EXACT SIZE OF ALL EQUIPMENT FURNISHED BY OWNER FOR PROPER FIT WITH CONTRACTOR SUPPLIED COMPONENTS.
9. THE WHEELCHAIR SYMBOL INDICATES HANDICAPPED ACCESSIBLE MOUNTED FIXTURE ELEVATION AND SHALL CONFORM WITH CABO/ANSI A117.1 & ADAAG REQUIREMENTS.
10. THE HVAC, PLUMBING, & ELECTRICAL TRADES CONTRACTORS SHALL COORDINATE ROOF & WALL OPENINGS WITH THE GENERAL TRADES CONTRACTOR. THE GENERAL TRADES CONTRACTOR SHALL PROVIDE ALL ROOF & WALL OPENINGS FOR DUCTWORK/HVAC EQUIPMENT UNLESS NOTED OTHERWISE.
11. THIS CONTRACT REQUIRES COMPLETE & WORKABLE SYSTEMS & ALL COMPONENTS NECESSARY FOR SUCH SYSTEMS. ALL MATERIALS & LABOR SHALL BE PROVIDED AS INDICATED & REASONABLY INFERRED BY THE CONTRACT DOCUMENTS.
12. CONTRACTORS SHALL NOT SCALE DRAWINGS FOR CONSTRUCTION PURPOSES. IN THE EVENT OF OMISSION OF NECESSARY DIMENSIONS OR INFORMATION THE CONTRACTOR SHALL NOTIFY THE ARCHITECT.
13. THE CONTRACTOR SHALL COORDINATE THE WORK OF THIS CONTRACT WITH THE WORK OF OTHER TRADES. VERIFY SIZE & LOCATION OF ALL OPENINGS FOR MECHANICAL & ELECTRICAL EQUIPMENT & RELATED WORK WITH CONTRACTORS INVOLVED PRIOR TO INSTALLATION.
14. THE GENERAL TRADES CONTRACTOR SHALL PROVIDE ALL BLOCKING FOR THE SUPPORT OF ALL ITEMS OR EQUIPMENT SHOWN OR SPECIFIED.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCING ANY WORK & NOTIFY THE ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.
16. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION REQUIRED TO IMPLEMENT THE WORK OF THEIR RESPECTIVE CONTRACT, REGARDLESS OF WHETHER SPECIFICALLY INDICATED OR NOT, UNLESS NOTED OTHERWISE.
17. ALL PENETRATIONS & PERIMETER OF FIRE RATED PARTITIONS ARE TO BE SEALED WITH APPROVED U.L. FIRE RATED ASSEMBLIES.
18. THE GENERAL TRADES CONTRACTOR SHALL BE RESPONSIBLE FOR SEALANT AT THE PERIMETER OF ALL MECHANICAL, PLUMBING, & ELECTRICAL PENETRATIONS. EACH RESPECTIVE TRADE SHALL BE RESPONSIBLE FOR PROPER WATER SEALS AT PENETRATIONS REQUIRING SEALS IN EXCESS OF CAULKING.
19. FINISHED DOOR OPENINGS SHALL BE NOMINAL 6" FROM FINISHED CORNER OF ROOM AT HINGE SIDE, EXCEPT WHERE DIMENSIONED OTHERWISE. DOOR STRIKES SHALL BE 1'-6" MINIMUM FROM A PERPENDICULAR WALL ON THE PULL SIDE OF A DOOR AND 1'-0" ON THE PUSH SIDE OF A DOOR WITH BOTH A CLOSER AND LATCH.
20. ALL EXTERIOR CONCRETE SLABS SHALL SLOPE AWAY FROM BUILDING AT 1/8 INCH PER FOOT UNLESS OTHERWISE NOTED.
21. DASHED WALLS DENOTE FUTURE PHASE NOT IN PROJECT SCOPE.

GENERAL PLAN NOTES:

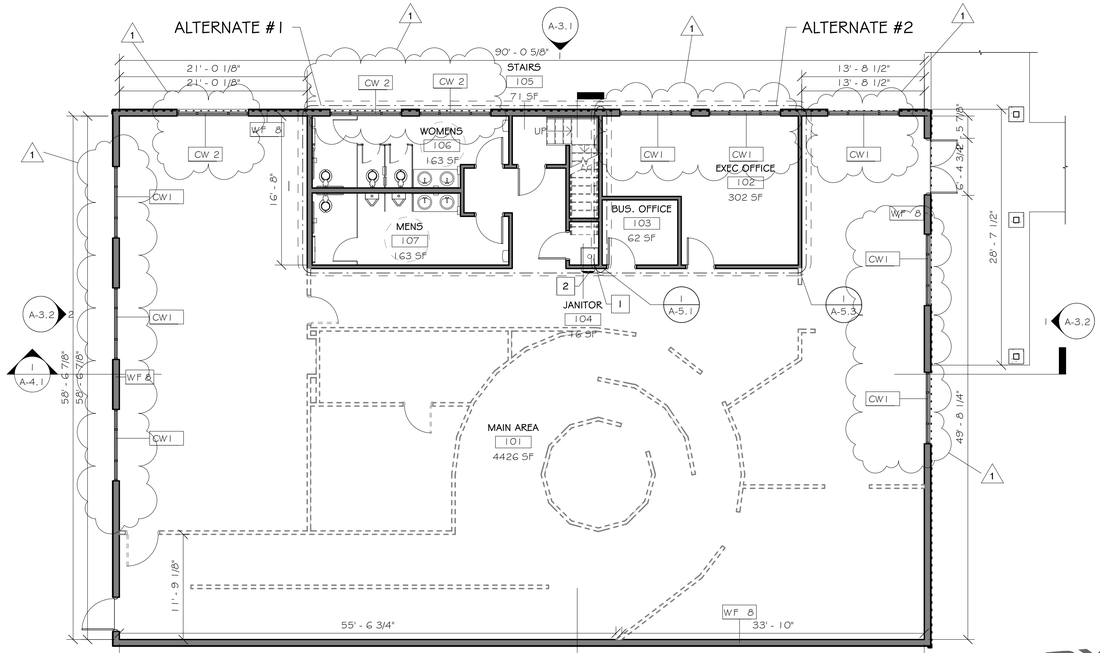
1. ALL INTERIOR PARTITIONS SHALL BE ASSEMBLY MA3, UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE TO FACE OF GYPSUM WALL BOARD UNLESS NOTED OTHERWISE.
3. ALL PARTITIONS SHALL BE BRACED TO STRUCTURE ABOVE.
4. SEE SHEET C-1.1 FOR BUILDING CODE COMPLIANCE AND SPECIFICATIONS.
5. SEE ACCESSIBILITY COMPLIANCE ON SHEET C-1.2 FOR CODE COMPLIANCE AND STANDARDS
6. GENERAL NOTES SHALL APPLY TO ALL CONTRACTORS. SEE SHEET A-1.0 FOR GENERAL NOTES & BUILDING ASSEMBLIES.
7. PROVIDE A MINIMUM OF 6" OF CLEAR SPACE AT THE HINGE SIDE OF DOORS, UNLESS NOTED OR INFEASIBLE.

FLOOR PLAN KEYNOTES

1. PROVIDE MOP SINK COMPLETE.
2. PROVIDE DRINKING FOUNTAIN COMPLETE.
3. BATHROOM TOILET AND URINAL PARTITIONS & STALLS TO BE BOBRICK BUDGET METROSERIES HPL, COLOR TBD, SELECTION BY OWNER FROM GENERAL COLOR PALLETE.



2 LOFT CONSTRUCTION PLAN
1/8" = 1'-0"



1 FIRST FLOOR CONSTRUCTION PLAN
1/8" = 1'-0"

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1	ADDENDUM 1	11-19-25

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PROJECT
ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING
FIRST FLOOR AND LOFT CONSTRUCTION PLANS

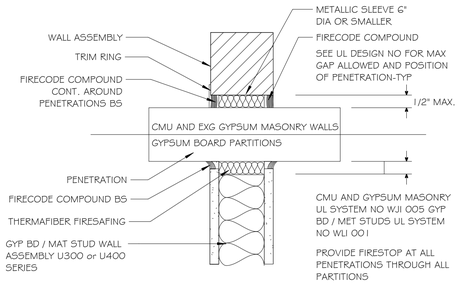
DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
A-1.1

ROOF PLAN KEYNOTES

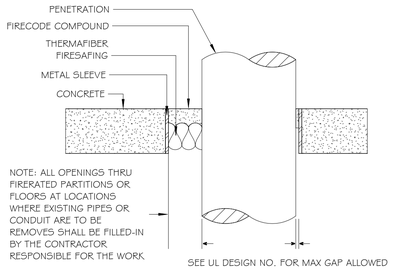
1. PROVIDE METAL ROOF COMPLETE
2. PROVIDE CUPOLA COMPLETE
3. PROVIDE GUTTERS AND DOWNSPOUTS COMPLETE
4. PROVIDE ENTRY COVERING COMPLETE

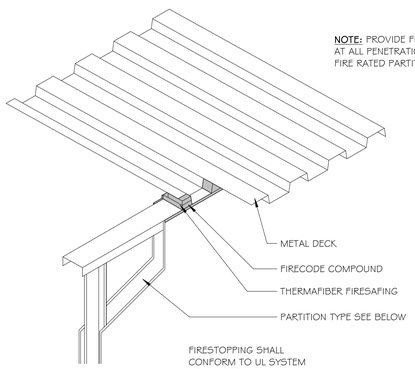
GENERAL ROOFING NOTES

1. ALL WORK SHALL CONFORM TO THE NEW YORK STATE BUILDING CODE AND ADOPTED REFERENCE STANDARDS.
2. THE GENERAL TRADES CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY ROOFING TO ENSURE WEATHER TIGHT CONDITIONS UNTIL SUCH TIME THE PERMANENT ROOFING SYSTEM IS INSTALLED.
3. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MATERIALS TO MAKE SMOOTH TRANSITIONS AT ROOF EDGES AND INTERSECTIONS. TAPERED EDGE STRIPS ARE REQUIRED AT PERIMETER.
4. THE GENERAL TRADES CONTRACTOR SHALL REFER TO THE HVAC DRAWINGS AND COORDINATE WITH THE HVAC CONTRACTOR FOR QUANTITY AND LOCATIONS OF PENETRATIONS THROUGH ROOF FOR EQUIPMENT RAILS, CURBS, AND BOOTS.
5. THE GENERAL TRADES CONTRACTOR SHALL PROVIDE FLASHING AT ALL PENETRATIONS.
6. THE GENERAL TRADES CONTRACTOR IS TO PROVIDE ANY ADDITIONAL BLOCKING, AND ANY ASSOCIATED ACCESSORIES REQUIRED.

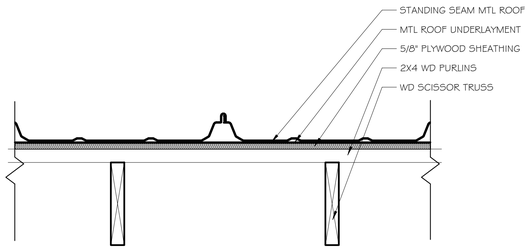


5 DETAIL - TYPICAL PENETRATIONS
1/8" = 1'-0"

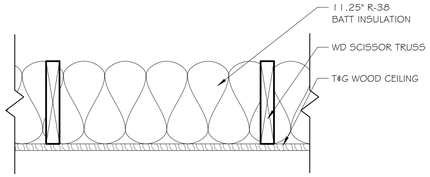




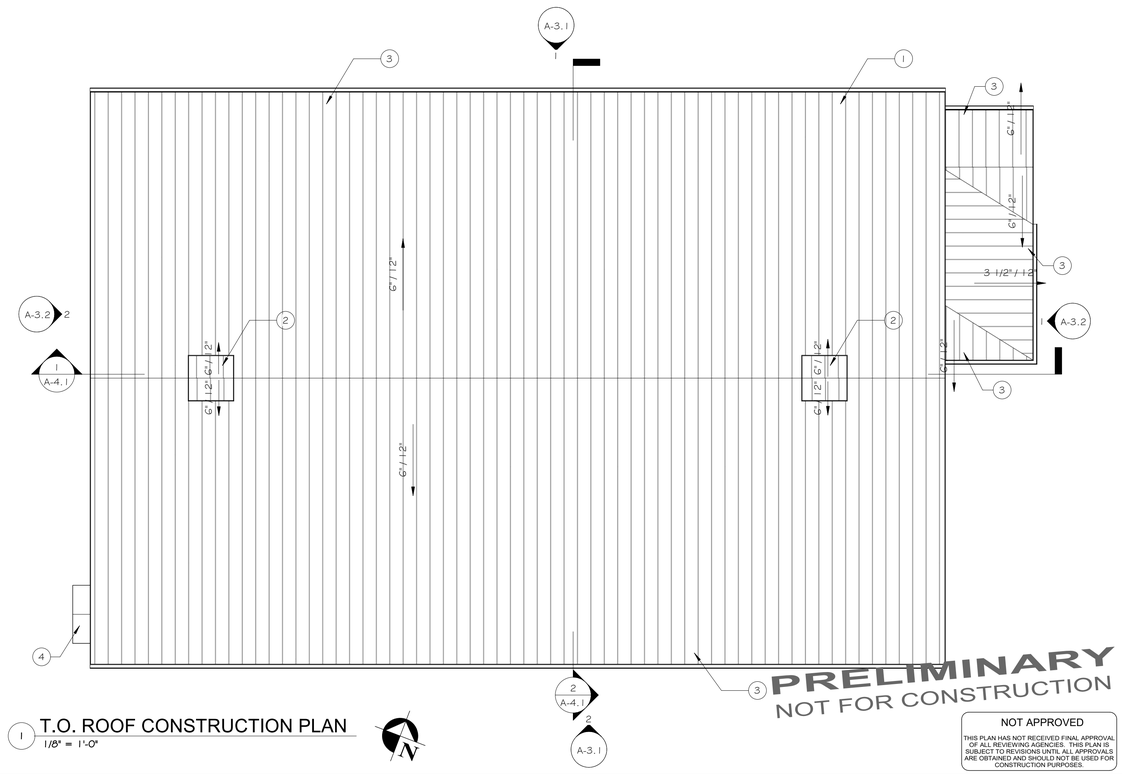
4 DETAIL - TYPICAL FIRESTOPPING
1/8" = 1'-0"



3 DETAIL - TYPICAL METAL ROOF
1 1/2" = 1'-0"



2 DETAIL - TYPICAL VAULTED CEILING
1 1/2" = 1'-0"



1 T.O. ROOF CONSTRUCTION PLAN
1/8" = 1'-0"

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637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING
ROOF CONSTRUCTION PLAN

DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
A-1.4

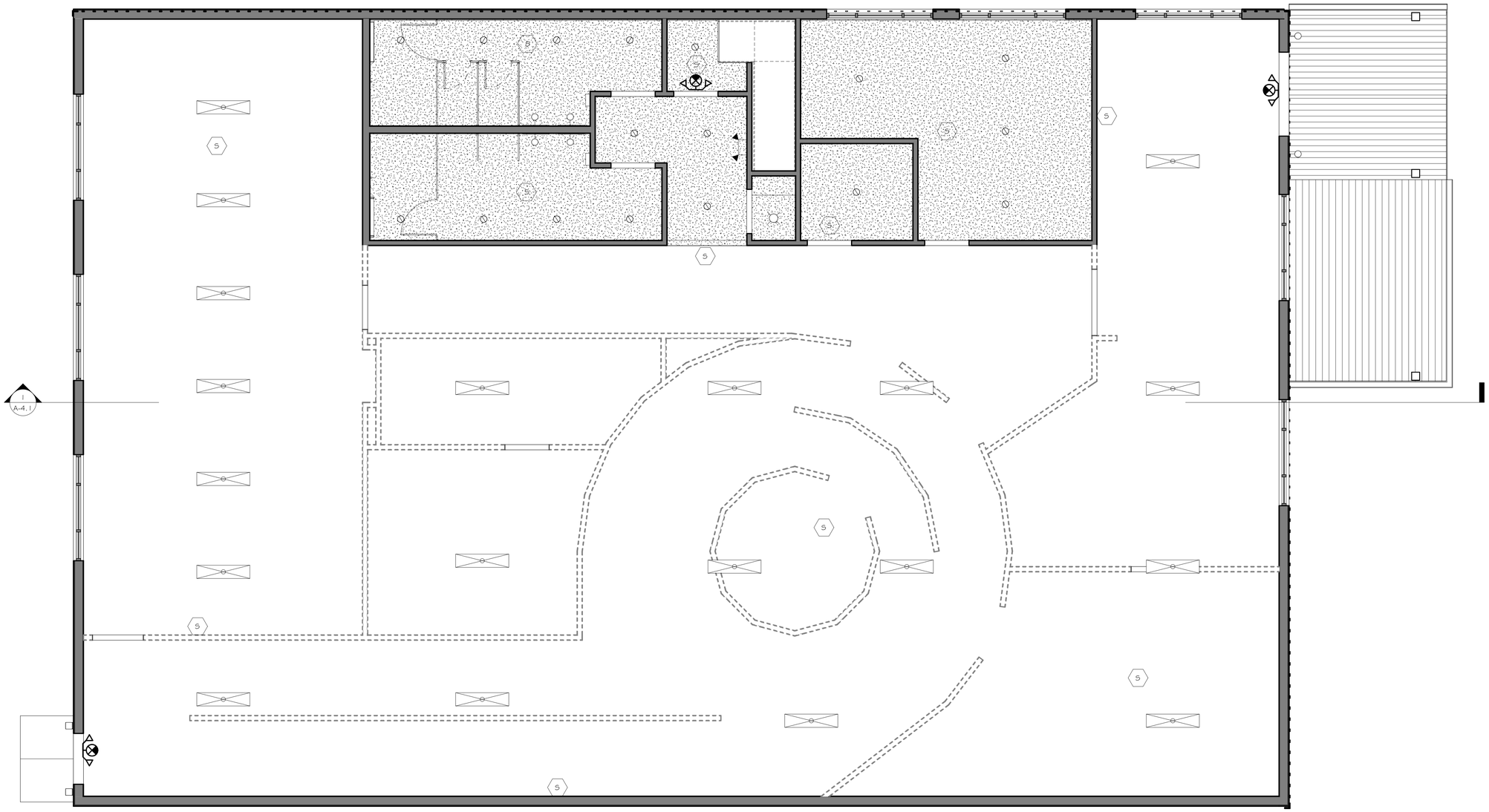
REFLECTED CEILING / LIGHTING LEGEND

	GYPSUM BOARD CEILING, 1 LAYER 5/8"	S	HARD WIRED SMOKE DETECTOR		SURFACE MOUNTED CEILING FIXTURE
	OPEN TO ABOVE	C	CARBON MONOXIDE DETECTOR		WALL MOUNT LIGHT
	EMERGENCY LIGHTING	F	AUDIO ALARM DEVICE		RECESSED CEILING FIXTURE
	EXIT SIGNAGE	F	FIRE ALARM PULL BOX		RECESSED SPRINKLER HEAD
	EXIT SIGNAGE WITH 2-HEAD EMERGENCY LIGHT W/ BATTERY BACK-UP	F	AUDIO/VISUAL DEVICE		SEMI-RECESSED SPRINKLER HEAD
	TOUNGE & GROOVE WOOD CEILING		LINEAR LIGHT		

NOTE: SEE ELECTRICAL PLANS FOR LIGHTING AND POWER LAYOUTS

REFLECTED CEILING PLAN NOTES:

A. ALL CEILINGS SHALL BE AT 8'-0" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
B. ALL GWB CEILINGS AND SOFFITS ARE 1/2" GWB, UNLESS NOTED OTHERWISE, ALL VERTICAL FACES OF SOFFITS ARE 1/2" GWB, UNLESS NOTED OTHERWISE.
C. REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC LIGHT FIXTURE TYPES, EXIT SIGNS, SMOKE DETECTORS AND ALARMS. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL PENETRATIONS.
D. ALL FIRE PROTECTION AND LIFE SAFETY SHALL BE IN ACCORDANCE WITH 2020 FIRE CODE OF NEW YORK STATE AND NFPA 72.



1 FIRST FLOOR REFLECTED CEILING PLAN
1/4" = 1'-0"

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ELMIRA, NY 14901

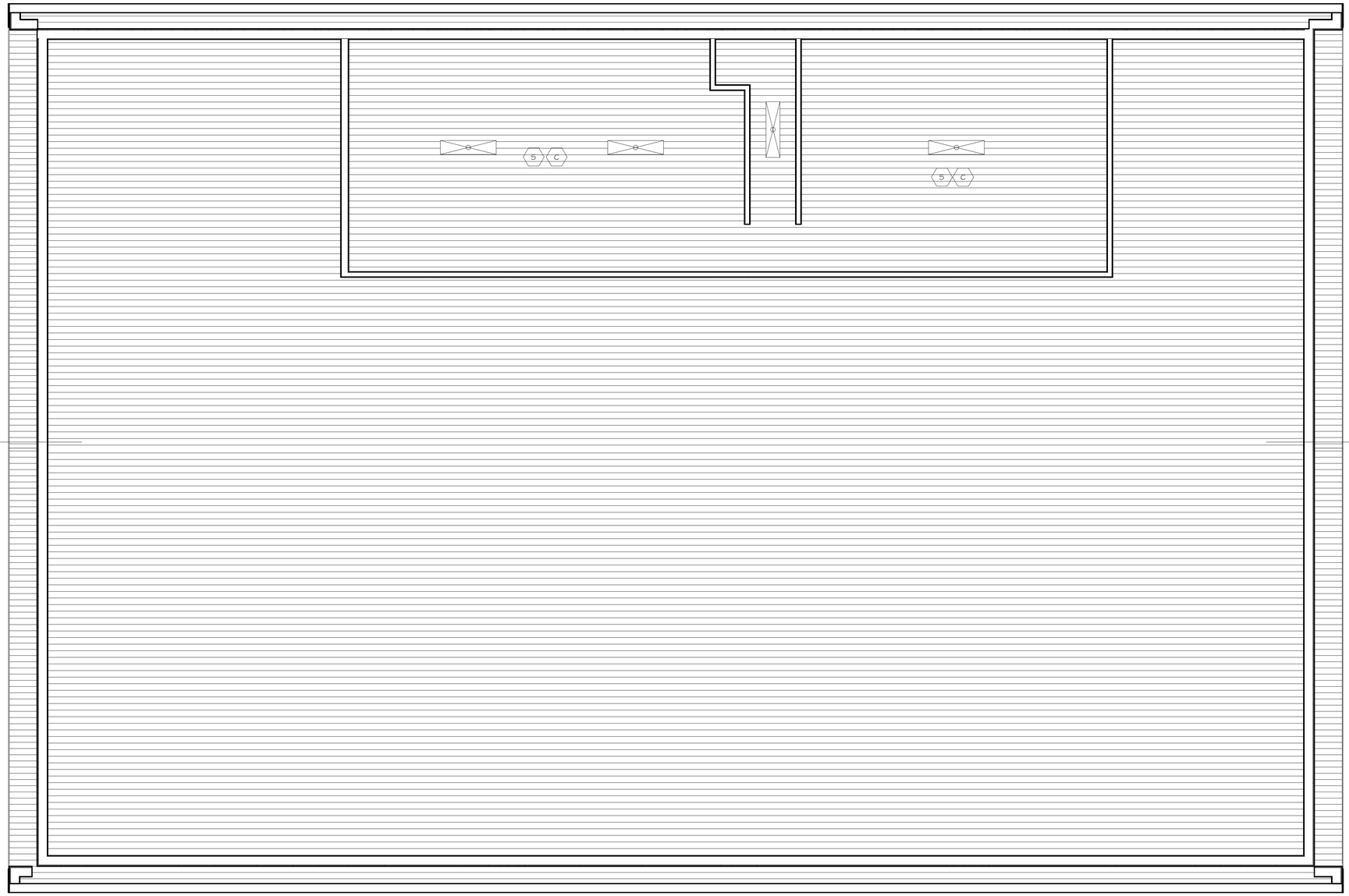
TITLE OF DRAWING
FIRST FLOOR REFLECTED CEILING PLAN

DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
A-2.1

REFLECTED CEILING / LIGHTING LEGEND

	GYPSUM BOARD CEILING, 1 LAYER 5/8"	S	HARD WIRED SMOKE DETECTOR		SURFACE MOUNTED CEILING FIXTURE
	OPEN TO ABOVE	C	CARBON MONOXIDE DETECTOR		WALL MOUNT LIGHT
	EMERGENCY LIGHTING	F	AUDIO ALARM DEVICE		RECESSED CEILING FIXTURE
	EXIT SIGNAGE	F	FIRE ALARM PULL BOX	•	RECESSED SPRINKLER HEAD
	EXIT SIGNAGE WITH 2-HEAD EMERGENCY LIGHT W/ BATTERY BACK-UP	F	AUDIO/VISUAL DEVICE		SEMI-RECESSED SPRINKLER HEAD
	TOUNGE & GROOVE WOOD CEILING		LINEAR LIGHT		

NOTE: SEE ELECTRICAL PLANS FOR LIGHTING AND POWER LAYOUTS



1 LOFT REFLECTED CEILING PLAN
1/4" = 1'-0"

REFLECTED CEILING PLAN NOTES:

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C. REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC LIGHT FIXTURE TYPES, EXIT SIGNS, SMOKE DETECTORS AND ALARMS. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL PENETRATIONS.
D. ALL FIRE PROTECTION AND LIFE SAFETY SHALL BE IN ACCORDANCE WITH 2020 FIRE CODE OF NEW YORK STATE AND NFPA 72.

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TITLE OF DRAWING
LOFT REFLECTED CEILING PLAN

DRAWING SCALE
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25-086
DRAWING NO.
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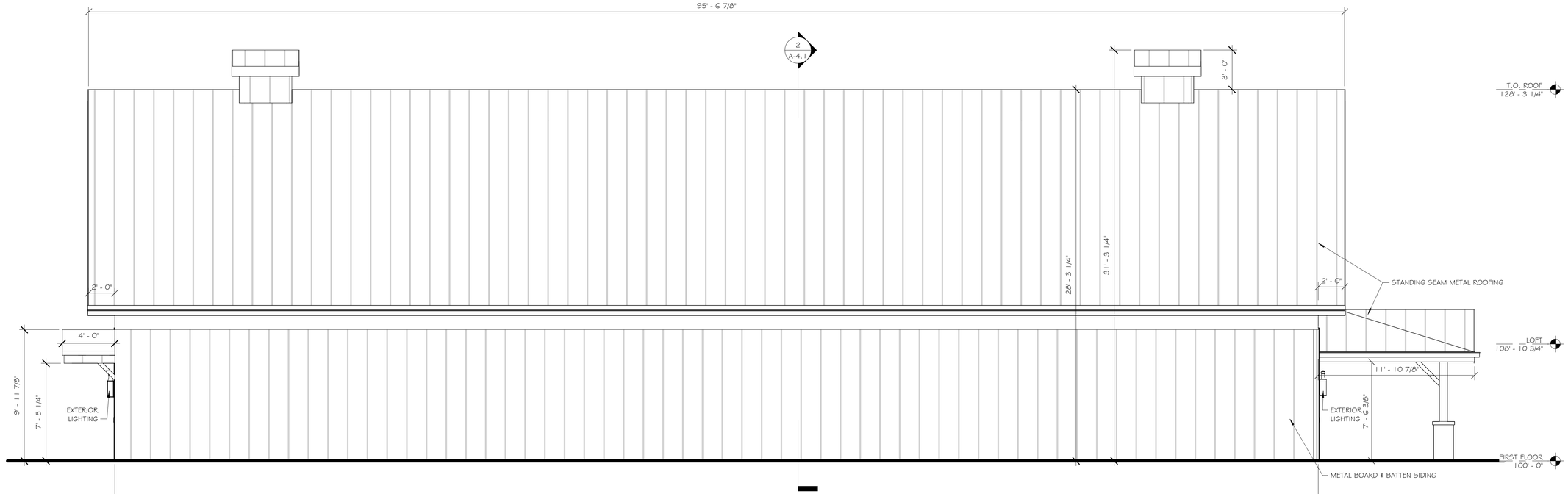
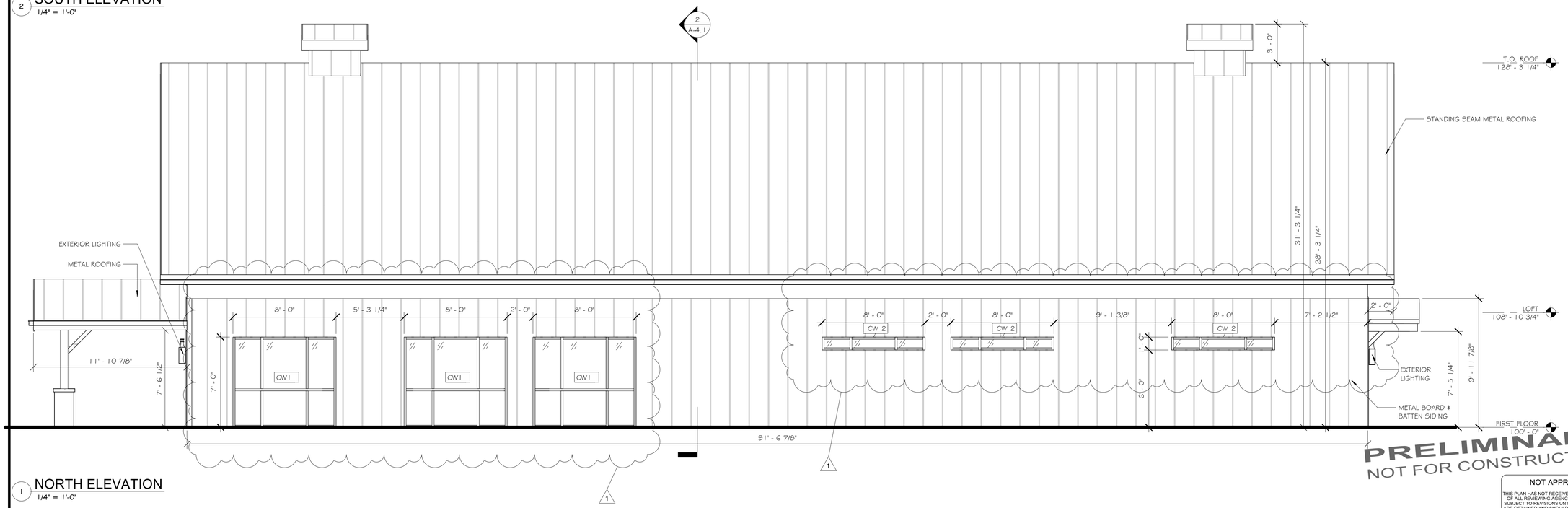


2 SOUTH ELEVATION
1/4" = 1'-0"



1 NORTH ELEVATION
1/4" = 1'-0"

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TITLE OF DRAWING
EXTERIOR ELEVATIONS - NORTH/ SOUTH

DRAWING SCALE
AS NOTED
ISSUE DATE:
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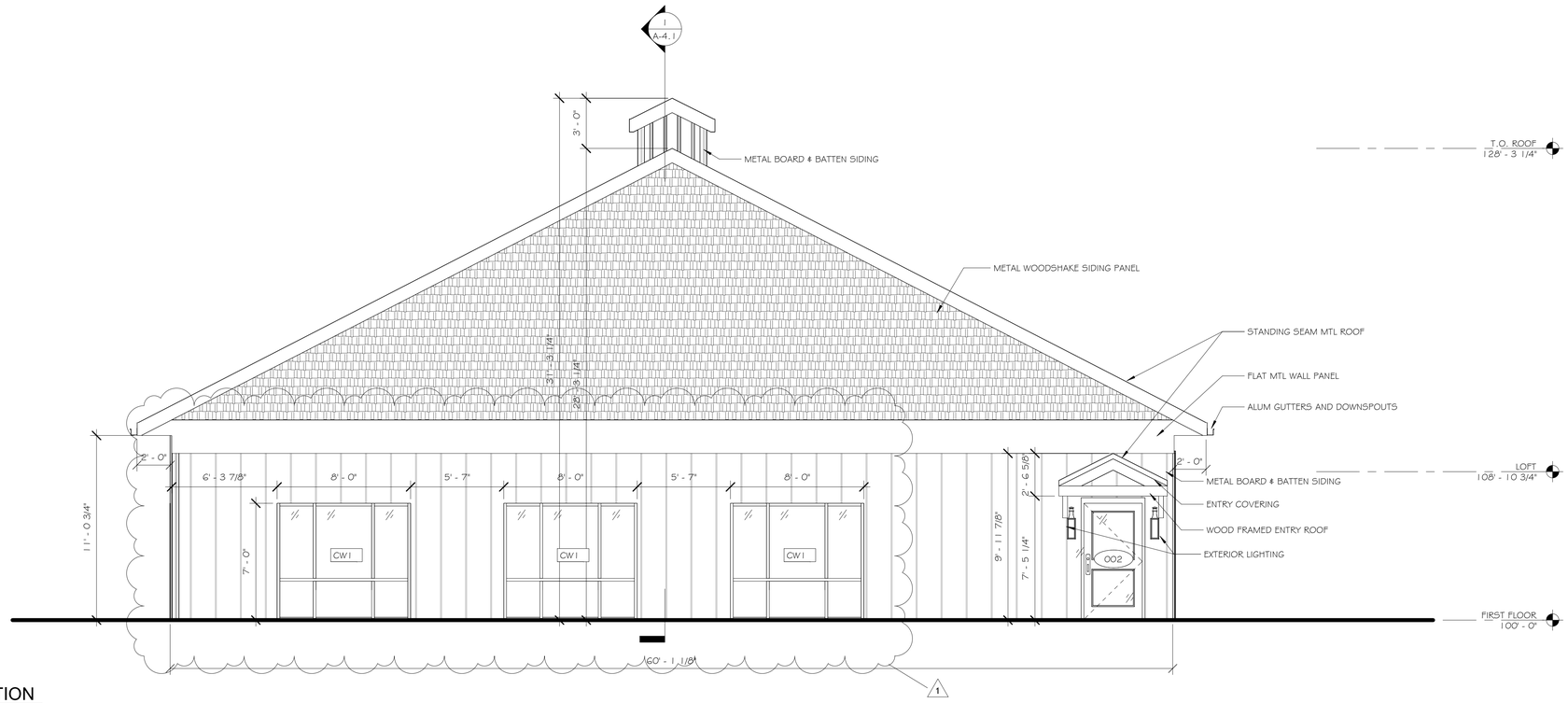
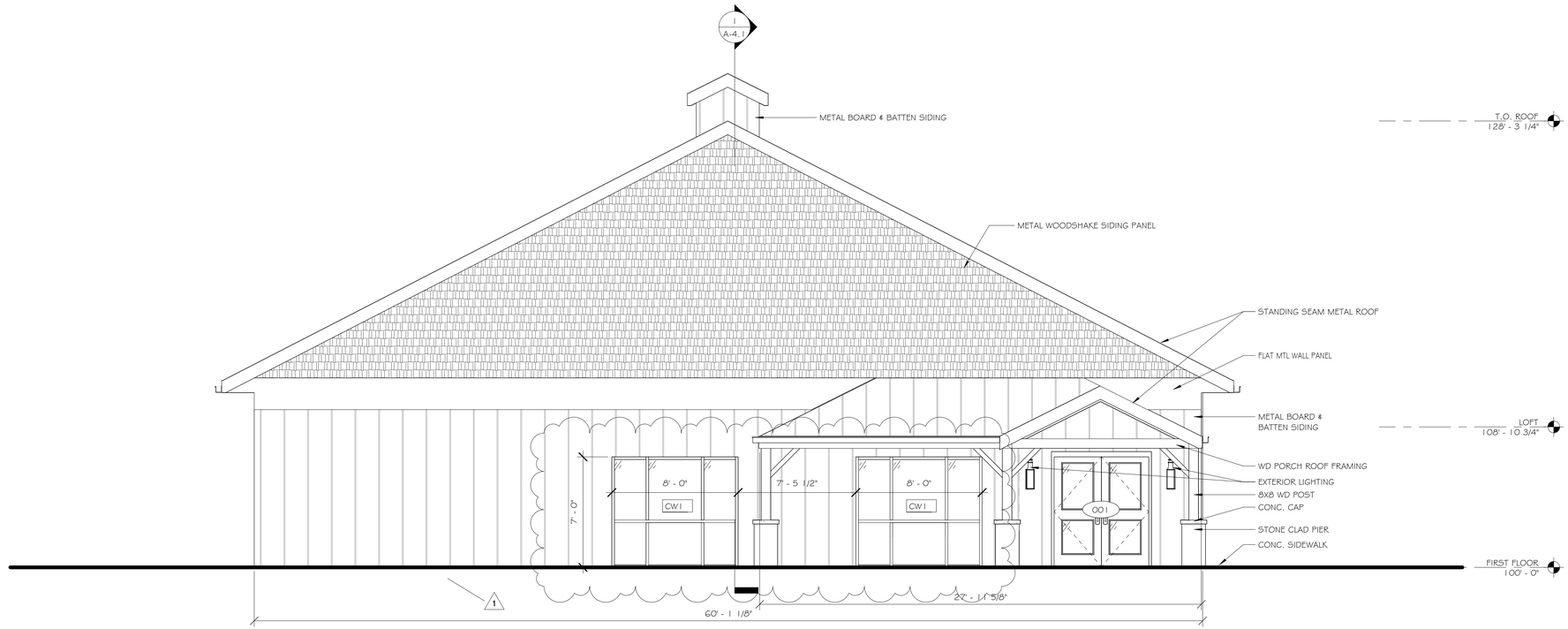
25-086
DRAWING NO.
A-3.1



2 WEST ELEVATION
1/4" = 1'-0"



1 EAST ELEVATION
1/4" = 1'-0"

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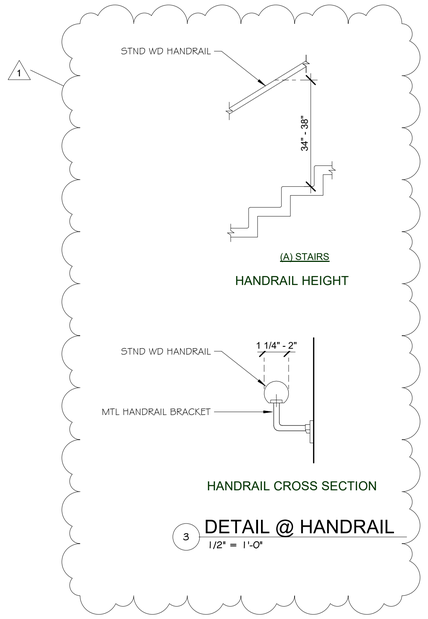
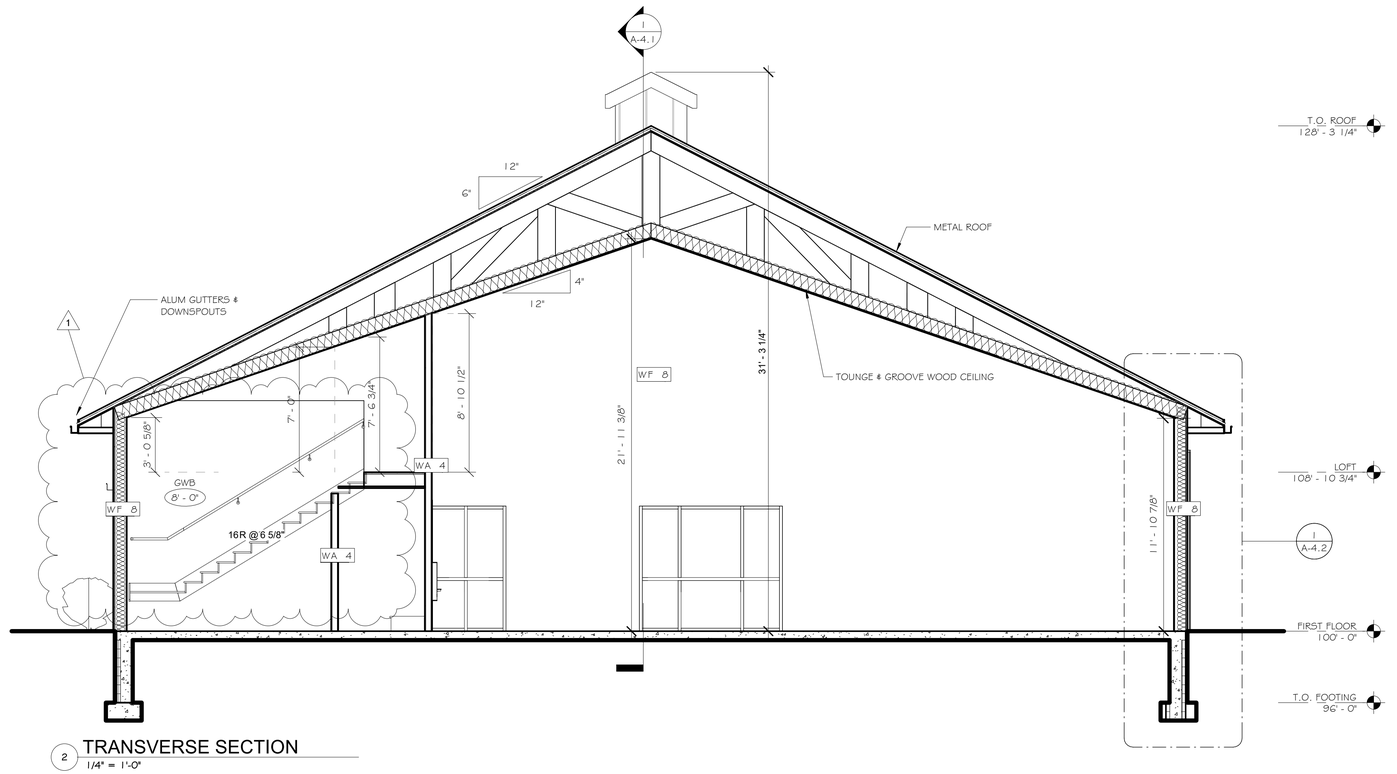
ELMIRA, NY 14901

TITLE OF DRAWING
EXTERIOR ELEVATIONS - EAST/WEST

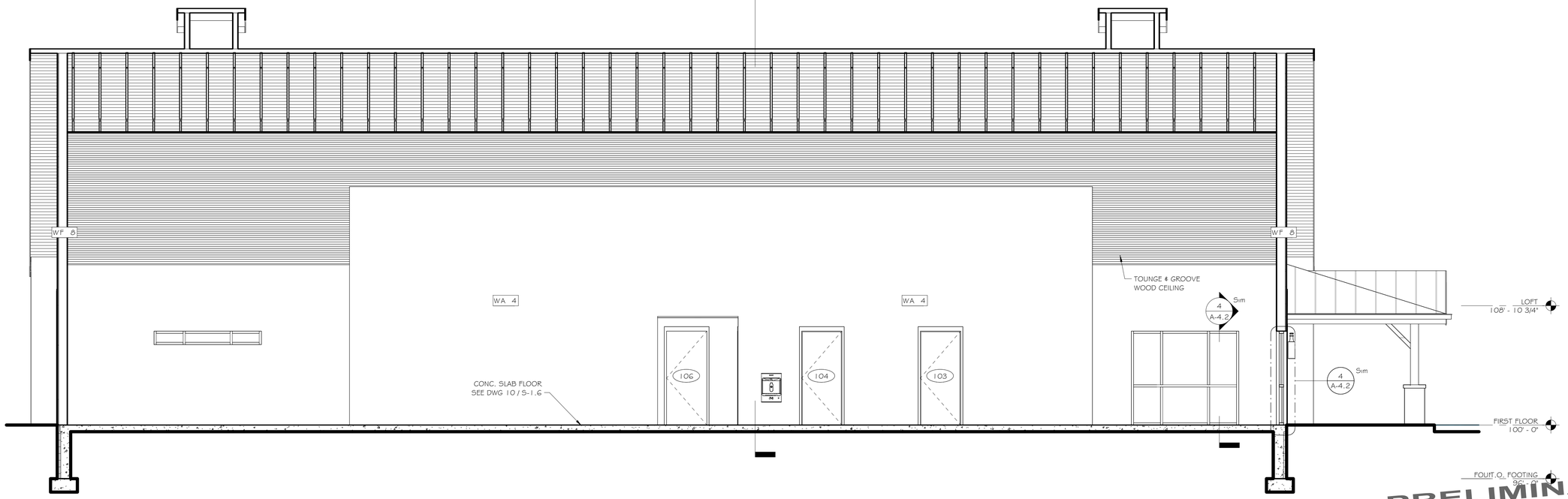
DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
A-3.2



3 DETAIL @ HANDRAIL
1/2" = 1'-0"



2 TRANSVERSE SECTION
1/4" = 1'-0"



1 LONGITUDINAL SECTION
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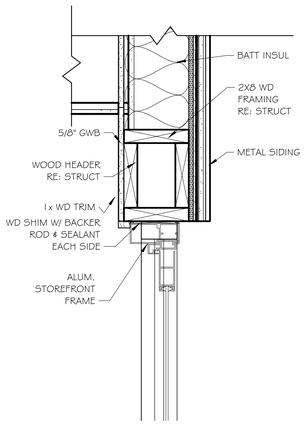
PH: (607) 737- 4638 WEB:AJH-DESIGN.COM

OWNER/CLIENT
FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

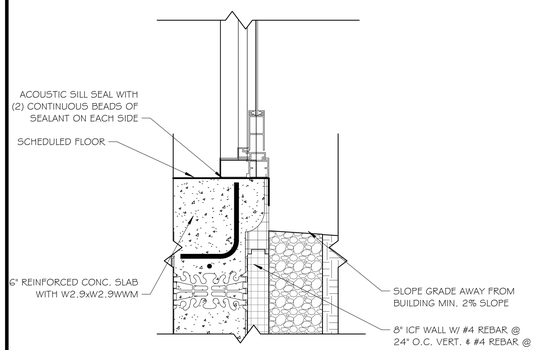
PROJECT
ELMIRA CIVIL WAR VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING
BUILDING SECTIONS

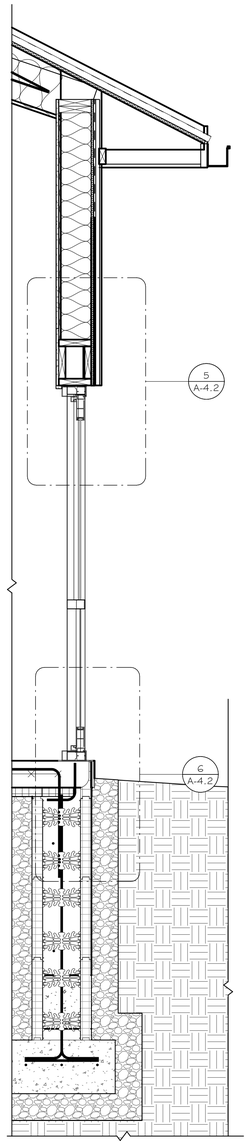
DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
A-4.1



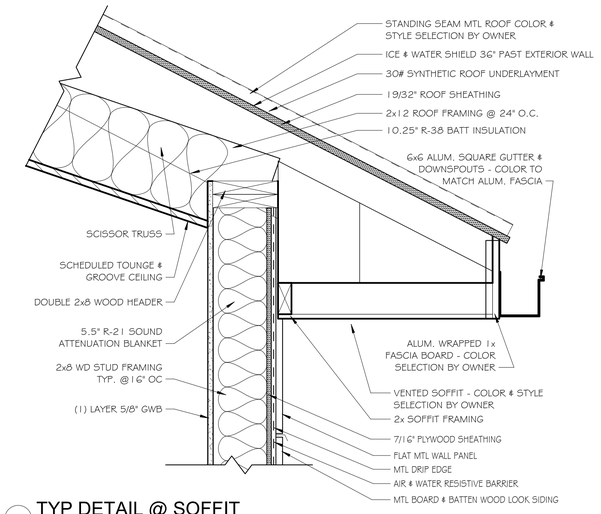
5 TYP. DETAIL @ CURTAIN WALL HEADER
1 1/2" = 1'-0"



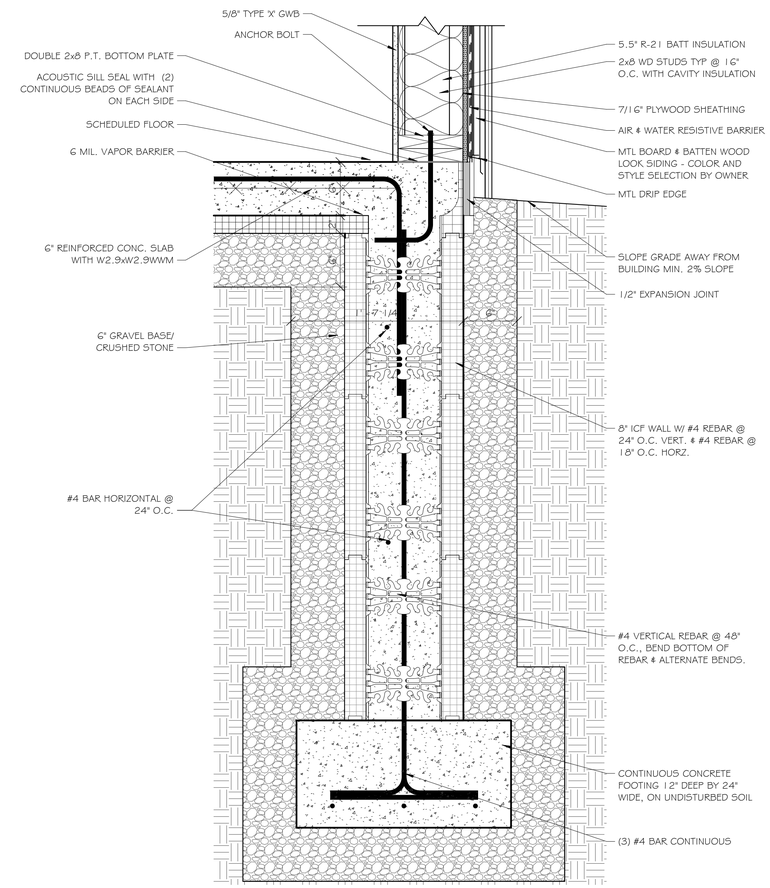
6 TYP. DETAIL @ EXTERIOR CURTAIN WALL BASE
1 1/2" = 1'-0"



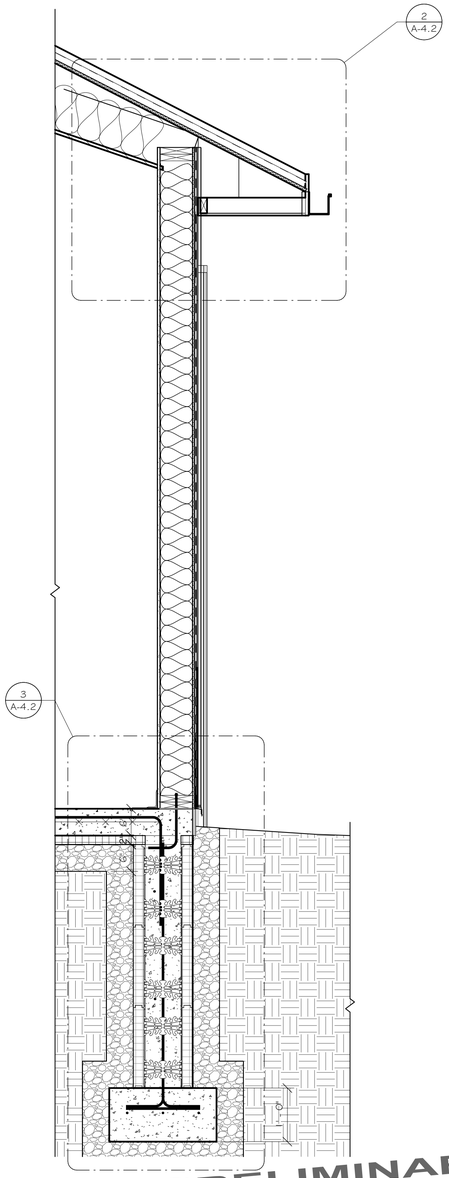
4 WALL SECTION @ CURTAIN WALL
3/4" = 1'-0"



2 TYP DETAIL @ SOFFIT



3 TYP DETAIL @ EXTERIOR WALL BASE
1 1/2" = 1'-0"



1 TYP WALL SECTION
3/4" = 1'-0"

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ISSUED / REVISIONS	DATE
0 ISSUED FOR BID	11-10-25

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TITLE OF DRAWING
WALL SECTIONS

DRAWING SCALE
AS NOTED
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DRAWING NO.
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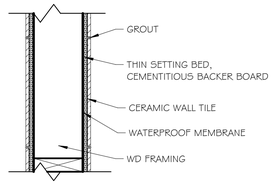
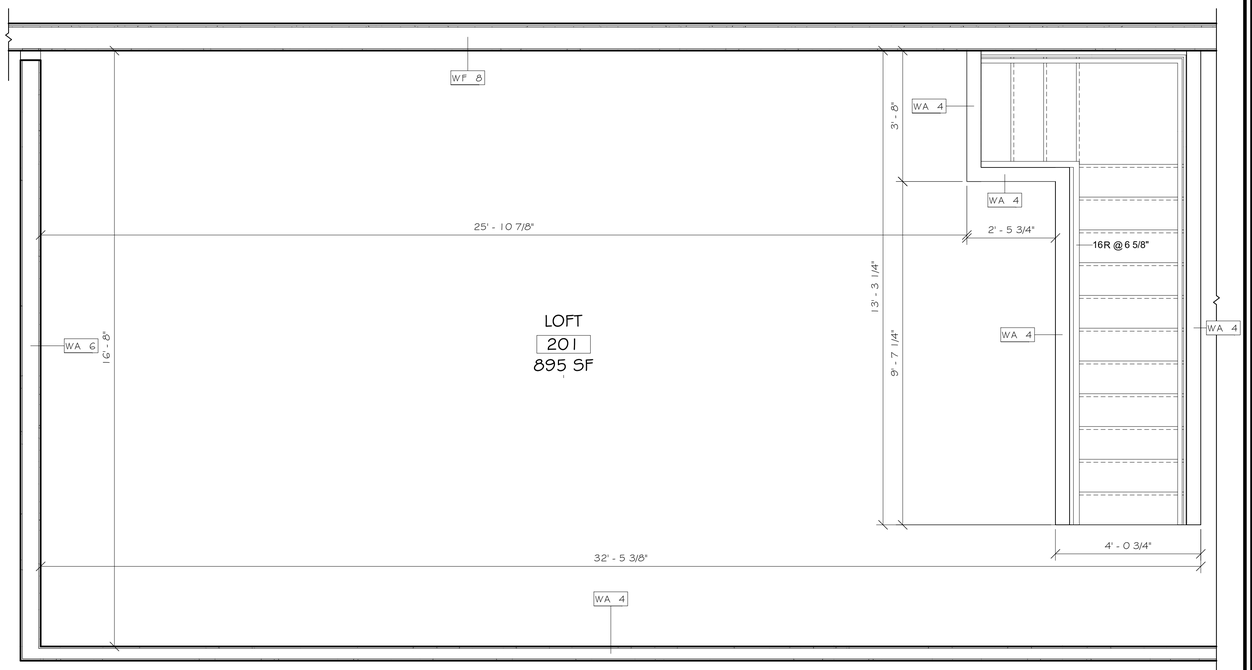
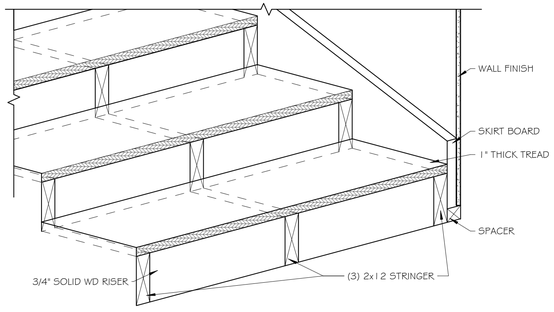


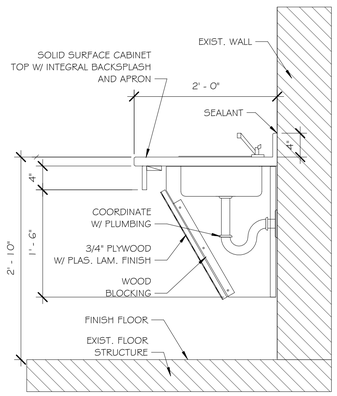
5 DETAIL - CERAMIC TILE WALL FINISH



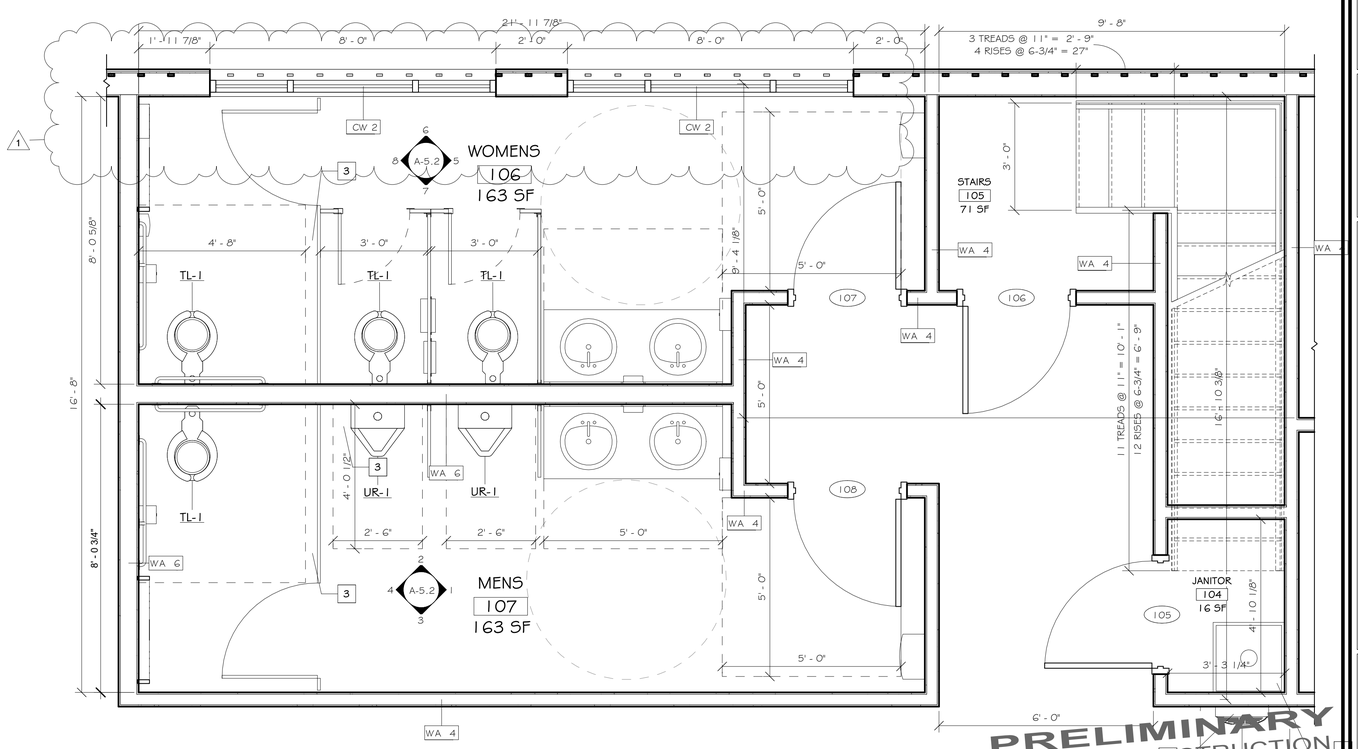
2 LOFT CONSTRUCTION PLAN - CALLOUT (ADD ALTERNATE #1)
1/2" = 1'-0"



4 DETAIL - WD FRAMED STAIRS
1 1/2" = 1'-0"



3 DETAIL - ADA - LAVATORY SECTION DETAIL



1 FIRST FLOOR CONSTRUCTION PLAN - CALLOUT (ADD ALTERNATE #1)
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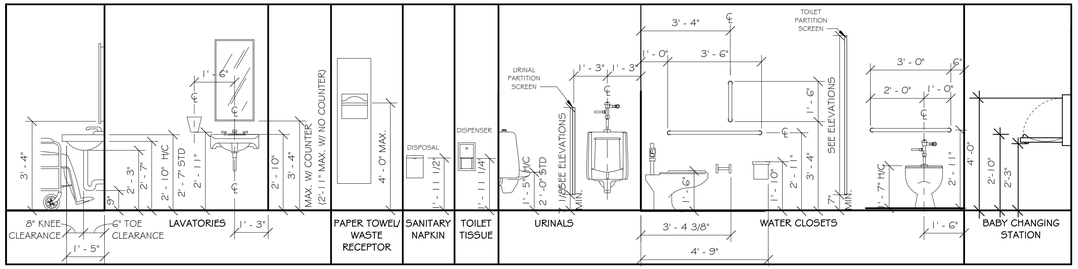

RESTROOM ACCESSORY MOUNTING HEIGHTS

N.T.S.

RESTROOM ACCESSORY SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
A	FAUCET	BOBRICK	K-97060-4	SINGLE-HANDLE BATHROOM SINK FAUCET, ADA COMPLIANT, STAINLESS STEEL POLISHED
B	PAPER TOWEL DISPENSER	BOBRICK	B-262	SURFACE MOUNTED, ADA COMPLIANT, STAINLESS STEEL POLISHED
C	WASTE RECEPTOR	BOBRICK	B-277	SURFACE MOUNTED, ADA COMPLIANT, CONTURA SERIES, STAINLESS STEEL POLISHED
D	TOILET PAPER DISPENSER-1	BOBRICK	B-4288	SURFACE MOUNTED MULTI-ROLL, ADA COMPLIANT, STAINLESS STEEL POLISHED
E	TOILET PAPER DISPENSER-2	BOBRICK	B-386	DUAL SIDED MULTI-ROLL PARITION MOUNTED, STAINLESS STEEL POLISHED
F	SOAP DISPENSER	BOBRICK	B-4112	SURFACE MOUNTED, STAINLESS STEEL POLISHED
G	SANITARY NAPKIN DISPOSAL-1	BOBRICK	B-270	SURFACE MOUNTED, STAINLESS STEEL POLISHED
H	SANITARY NAPKIN DISPOSAL-2	BOBRICK	B-354	DUAL SIDED PARITION MOUNTED, STAINLESS STEEL POLISHED
J	GRAB BAR - HORIZONTAL 36"	BOBRICK	B-9806x36	STAINLESS STEEL GRAB BARS WITH CONCEALED FLANGE, STAINLESS STEEL POLISHED
K	GRAB BAR - HORIZONTAL 42"	BOBRICK	B-9806x42	STAINLESS STEEL GRAB BARS WITH CONCEALED FLANGE, STAINLESS STEEL POLISHED
L	GRAB BAR - VERTICAL 18"	BOBRICK	B-9806x18	STAINLESS STEEL GRAB BARS WITH CONCEALED FLANGE, STAINLESS STEEL POLISHED
M	CHANGING TABLE	KOALA KARE	B3111-SSRE	VERTICAL STAINLESS STEEL RECESSED-MOUNTED, STAINLESS STEEL POLISHED
N	MIRROR	BOBRICK	B-165 2436	24"x36" CHANNEL FRAME STAINLESS STEEL POLISHED FINISH

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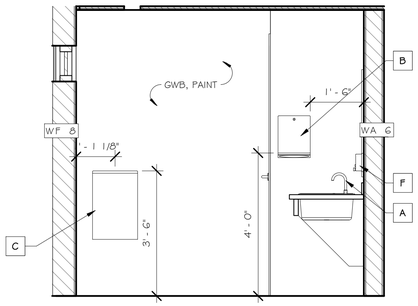
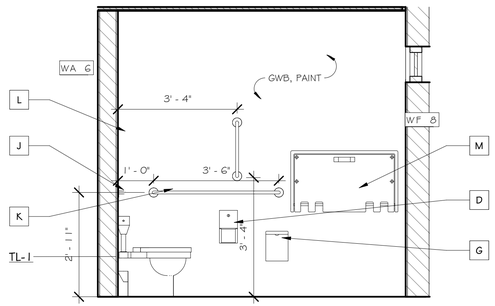
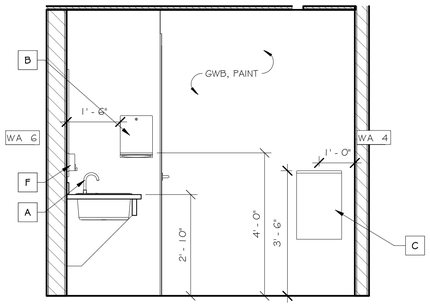


5 ELEVATION - WOMENS RESTROOM EAST
1/2" = 1'-0"



8 ELEVATION - WOMENS RESTROOM WEST
1/2" = 1'-0"



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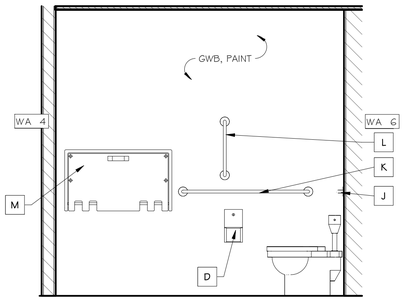
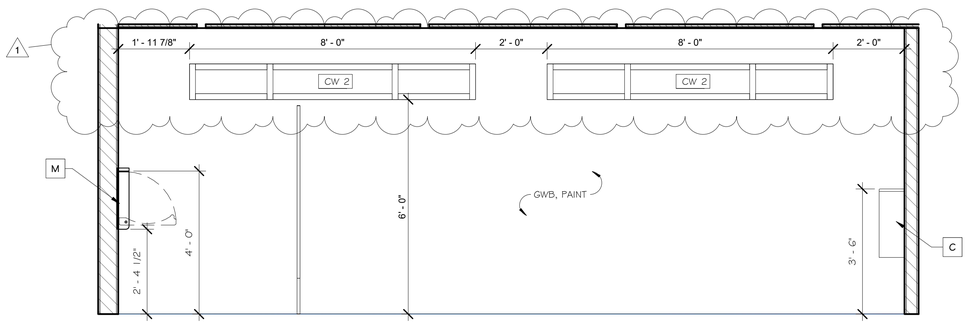
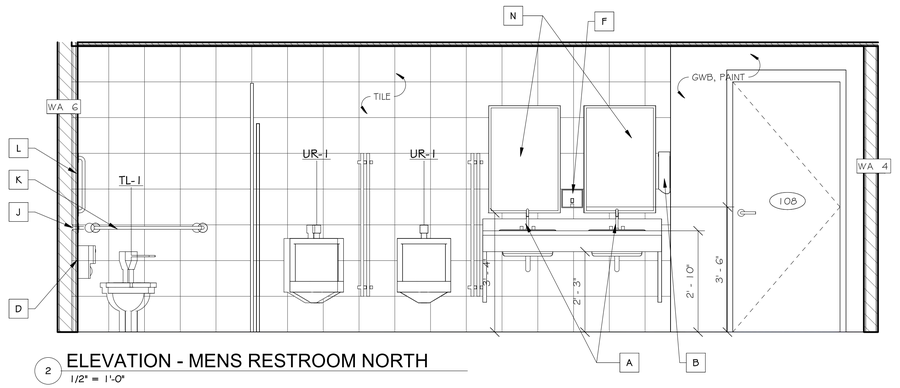


4 ELEVATION - MENS RESTROOM WEST
1/2" = 1'-0"



6 ELEVATION - WOMENS RESTROOM NORTH
1/2" = 1'-0"



2 ELEVATION - MENS RESTROOM NORTH
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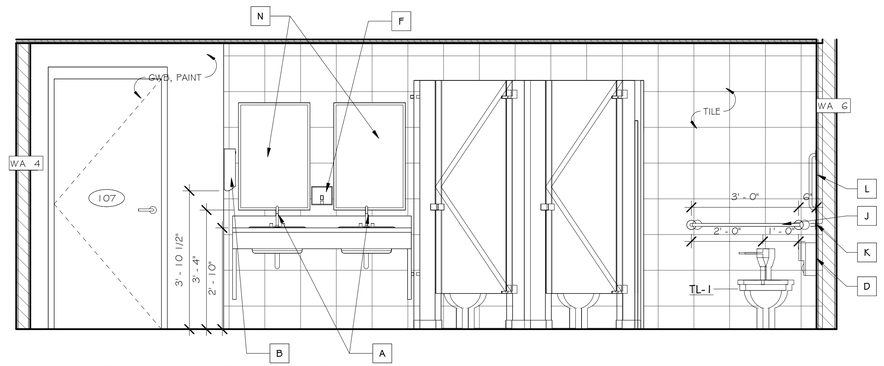
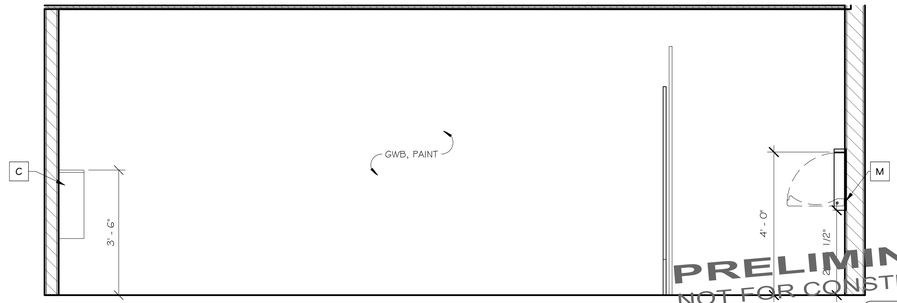


7 ELEVATION - WOMENS RESTROOM SOUTH
1/2" = 1'-0"



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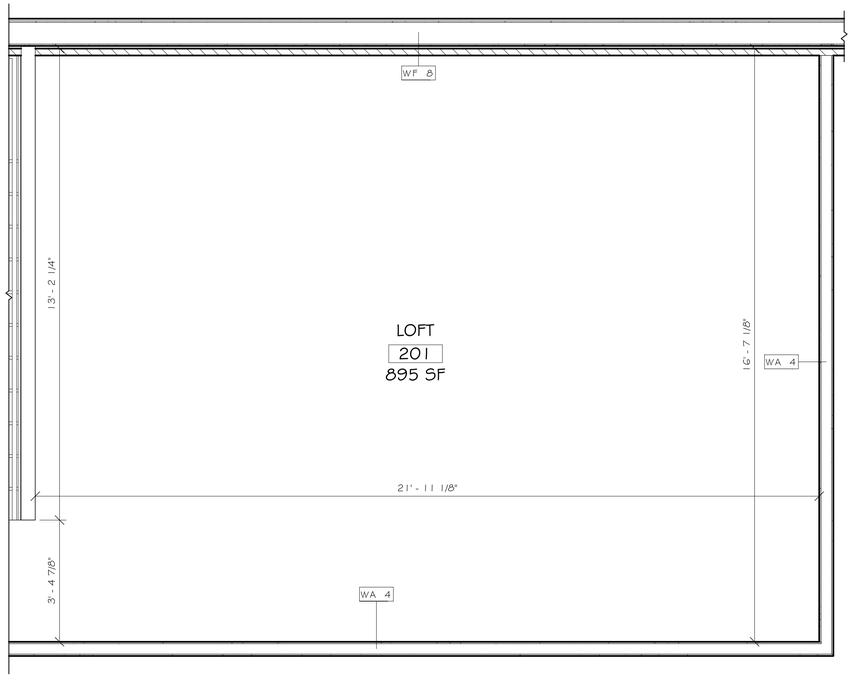
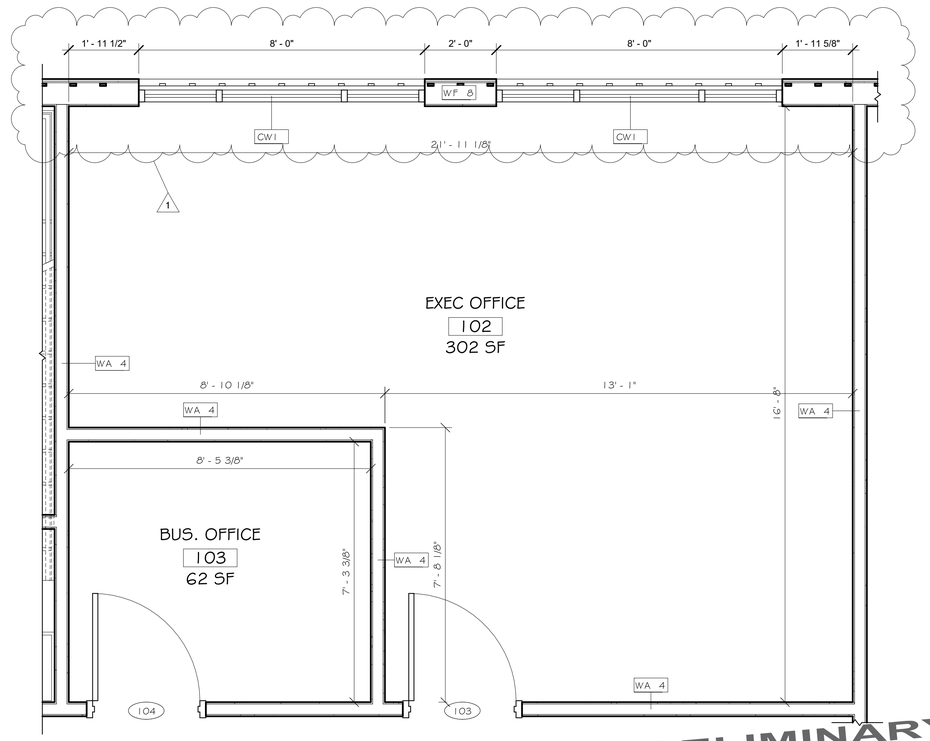


2 LOFT CONSTRUCTION PLAN - CALLOUT (ADD ALTERNATE #2)



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DOOR SCHEDULE

TAG	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR SIZE THK	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	GLASS	FRAME TYPE	FRAME MAT	FRAME FINISH	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	FIRE RATING	HARDWARE SET	REMARKS
101	6' - 0"	7' - 0"	0' - 1 3/4"	1	ALUM	PNT-1	*	A	ALUM	PNT-1				---	1	EXTERIOR: STOREFRONT ENTRY - DOUBLE DOORS
102	3' - 6"	7' - 0"	0' - 1 3/4"	2	ALUM	PNT-1	*	B	ALUM	PNT-1				---	2	EXTERIOR: STOREFRONT ENTRY - SINGLE DOOR
103	3' - 0"	7' - 0"	0' - 1 3/4"	3	WD	STN-1	---	C	WD	STN-1				---	3	INTERIOR: FLUSH PANEL - SINGLE DOOR
104	3' - 0"	7' - 0"	0' - 1 3/4"	3	WD	STN-1	---	C	WD	STN-1				---	3	INTERIOR: FLUSH PANEL - SINGLE DOOR
105	3' - 0"	7' - 0"	0' - 1 3/4"	3	WD	STN-1	---	C	WD	STN-1				---	3	INTERIOR: FLUSH PANEL - SINGLE DOOR
106	3' - 0"	7' - 0"	0' - 1 3/4"	3	WD	STN-1	---	C	WD	STN-1				---	3	INTERIOR: FLUSH PANEL - SINGLE DOOR
107	3' - 0"	7' - 0"	0' - 1 3/4"	4	WD	STN-1	---	C	WD	STN-1				---	4	INTERIOR: FLUSH PANEL W/ LOUVER - SINGLE DOOR
108	3' - 0"	7' - 0"	0' - 1 3/4"	4	WD	STN-1	---	C	WD	STN-1				---	4	INTERIOR: FLUSH PANEL W/ LOUVER - SINGLE DOOR

* 1" INSULATED LOW-E CATEGORY II TEMPERED SAFETY GLASS
--- NOT APPLICABLE

CURTAIN WALL SCHEDULE

TYPE	MARK	SIZE WIDTH	SIZE HEIGHT	TYPE	MAT	GLASS	THERMAL	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	COLOR	MFR	COUNT	REMARKS
Curtain Wall: CW-1	CW1	8' - 0"	7'-0"	A	ALUM	*					BLACK		8	
Curtain Wall: CW-2	CW2	8' - 0"	1'-0"	B	ALUM	*					BLACK		3	

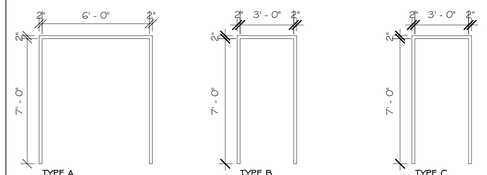
* 1" INSULATED LOW-E GLAZING

ROOM FINISH SCHEDULE

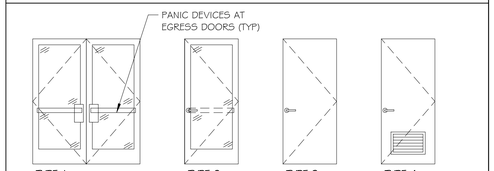
RM. NO.	ROOM NAME	FLOOR MAT	BASE MAT	WALLS NORTH MAT	WALLS NORTH FIN	WALLS EAST MAT	WALLS EAST FIN	WALLS SOUTH MAT	WALLS SOUTH FIN	WALLS WEST MAT	WALLS WEST FIN	CEILINGS MAT	CEILINGS FIN	CEILINGS HEIGHT	NOTES
101	MAIN AREA	CONC.-1	---	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	UNDERSIDE ROOF	
102	EXEC OFFICE	CONC.-1	---	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	8'-0"	
103	BUS. OFFICE	CONC.-1	---	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	8'-0"	
104	JANITOR	CONC.-2	VB-1	GWB-2	PNT-1 & FRP-1 &	GWB-2	PNT-1 & FRP-1 &	GWB-2	PNT-1 & FRP-1 &	GWB-2	PNT-1 & FRP-1 &	GWB-1	PNT-1	8'-0"	
105	STAIRS	CONC.-1	---	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	GWB-1	PNT-1	UNDERSIDE ROOF	
106	WOMENS	CONC.-2	CT.B-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-1	PNT-1	8'-0"	
107	MENS	CONC.-2	CT.B-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-2	PNT-1	GWB-1	PNT-1	8'-0"	
201	LOFT	PLY.-1	---	PNT-1	---	GWB-1	---	GWB-1	---	GWB-1	---	GWB-1	PNT-1	UNDERSIDE ROOF	

NOTES:
1. COORDINATE PAINT COLOR SELECTION WITH OWNER.
2. ALL NEWLY PAINTED SURFACES SHALL RECEIVE (1) COAT PRIMER AND (2) FINISH COATS.
3. ALL GWB SOFFITS SHALL BE PAINTED WITH SW CEILING PAINT.

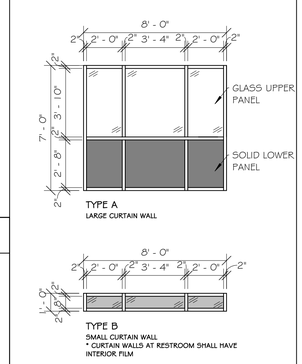
DOOR FRAME TYPES:



DOOR TYPES:



CURTAIN WALL TYPES:



DOOR HARDWARE SETS:

HARDWARE SET 1 (EXTERIOR - DOUBLE DOOR)
- (2) 1 1/2 PAIR OF HINGES
- (2) PANIC EXIT DEVICE (INTERIOR)
- KEYED CYLINDER LOCKSET
- SURFACE-MOUNTED CLOSER
- SURFACE-MOUNTED STOP AND BUMP
- SILENCERS
- DOOR GASKETING
- ADA THRESHOLD
- (2) EXTERIOR PULL HANDLES
- (2) KICK PLATES

HARDWARE SET 2 (EXTERIOR)
- 1 1/2 PAIR OF HINGES
- PANIC EXIT DEVICE (INTERIOR)
- KEYED CYLINDER LOCKSET
- SURFACE-MOUNTED CLOSER
- SURFACE-MOUNTED STOP AND BUMP
- SILENCERS
- DOOR GASKETING
- ADA THRESHOLD
- EXTERIOR PULL HANDLES
- KICK PLATES

HARDWARE SET 3 (OFFICES, JANITOR, & STAIRS)
- 1 1/2 PAIR OF HINGES
- PRIVACY LOCKSET
- SURFACE-MOUNTED CLOSER
- SURFACE-MOUNTED STOP AND BUMP
- SILENCERS
- LEVER HANDLES

HARDWARE SET 4 (RESTROOMS)
- 1 1/2 PAIR OF HINGES
- SURFACE-MOUNTED CLOSER
- SURFACE-MOUNTED STOP AND BUMP
- SILENCERS
- ADA THRESHOLD
- PULL HANDLES (INTERIOR)
- EXTERIOR PUSH PLATES (EXTERIOR)
- KICK PLATES

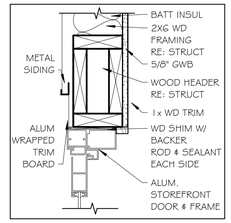
GENERAL DOOR NOTES:

1. INSTALL ADA APPROVED HARDWARE FOR ALL INTERIOR & EXTERIOR DOORS
2. LOCATE DOORS HANDLES BETWEEN 35" & 48" ABOVE FLOOR LEVEL.
3. DOORS SHALL HAVE 6" MINIMUM CLEAR SPACE @ THE HINGE SIDE, WHILE THE REMAINDER SHALL BE AT THE PUSH/ PULL SIDE, UNLESS OTHERWISE NOTED OR TECHNICALLY INFEASIBLE.
4. ANY DOORS THAT OPEN PARALLEL TO A WALL SHALL HAVE A DOOR STOP.
5. SEE DOOR, FINISH, & MATERIAL SCHEDULES FOR FINISH AND MATERIAL TYPES.

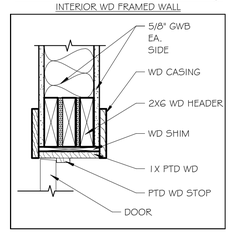
GENERAL CURTAIN WALL NOTES:

1. CURTAIN WALL ASSEMBLY SHALL HAVE A WATER-TIGHT SEAL. THE EXTERIOR SHALL BE CAULKED WITH MANUFACTURER APPROVED CAULK, COLOR SHALL MATCH WINDOW.
2. ALL GLAZING LOWER THAN 1'-6" SHALL BE TEMPERED.
3. ALL CURTAIN WALL SHIMS SHALL BE LOW EXPANSION FOAM.

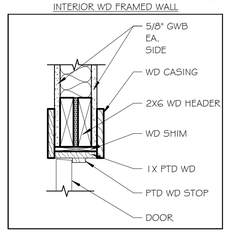
HEADER DETAIL - STOREFRONT @ WD STUD EXTERIOR WALL W/ METAL SIDING



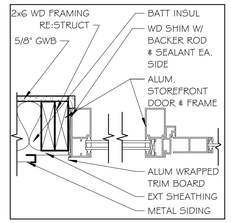
HEADER DETAIL - WD DOOR W/ WD CASING @ INTERIOR WD FRAMED WALL



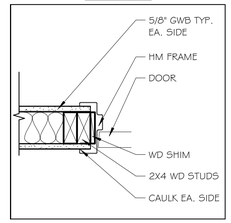
HEADER DETAIL - WD DOOR W/ WD CASING @ INTERIOR WD FRAMED WALL



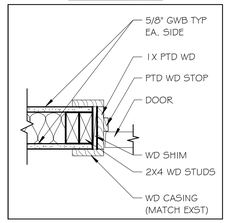
JAMB DETAIL - STOREFRONT @ WD STUD EXTERIOR WALL W/ METAL SIDING



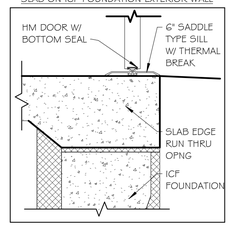
JAMB DETAIL - HM DOOR @ WD STUD INTERIOR WALL



JAMB DETAIL - WD DOOR & WD CASING @ WD STUD INTERIOR WALL



SILL DETAIL - STOREFRONT @ CONCRETE SLAB ON ICF FOUNDATION EXTERIOR WALL



2 DETAIL - DOOR - HEAD AND JAMB DETAILS

INTERIOR FINISH & MATERIAL SCHEDULE

KEY	MATERIAL	DESCRIPTION MANUFACTURER	DESCRIPTION STYLE: COLOR	DESCRIPTION DIMENSION	LOCATION	ADDITIONAL INFORMATION
CONC.-1	CONCRETE SEALED				MAIN AREA, STAIRS, & OFFICES	
CONC.-2	CONCRETE W/ EPOXY FINISH	SHERWIN WILLIAMS	RESUFLOR DECO QUARTZ 5D (COLOR TBD: SELECTION BY OWNER FROM GENERAL COLOR PALETTE)		RESTROOMS & JANITOR CLOSET	
CT.B-1	CERAMIC TILE - BASE-1	DALTILE	COLOR: TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETEE		RESTROOM WET WALL	
CT.C-1	CERAMIC TILE - CAP-1	DALTILE	COLOR: TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETEE		RESTROOM WET WALL	
CT.W-1	CERAMIC TILE - WALL-1	DALTILE	COLOR: TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETEE		RESTROOM WET WALL	
D-1	DOOR-1	404 VT DOOR TYPE, PC-HPDL-5 HIGH PRESSURE DECORATIVE LAMINATE BONDED PARTICLE BOARD CORE 5-PLY CONSTRUCTION, NO-RATED OR 20 MIN	FINISH: PLASTIC LAMINATE, NEVAMAR W2200 1 SANTA ROSA PLUM TREE, MATTE FINISH			***RATING AS REQUIRED
FRP-1	FIBER REINFORCED POLYMER PANELS	PANOLAM SURFACE SYSTEMS	COLOR/FINISH: TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETEE	UP TO 4'-0" A.F.F.	JANITOR CLOSET	
GWB-1	GYPSUM WALL BOARD					
KP-1	DOOR KICK PLATE	ACROVYN	16GA 5/5 KICK PLATE/ 304 STAINLESS STEEL ALLOY	16 GAUGE		CONTACT: CONSTRUCTION SPECIALTIES
LTG-1	LIGHTING					
P-1	PRIMER	SHERWIN WILLIAMS	MULTI-PURPOSE INTERIOR/ EXTERIOR LATEX PRIMER/ SEALER		GENERAL WALLS, CEILING SOFFITS, COLUMNS	
PLY-1	PLYWOOD				LOFT FLOORING	
PNT-1	PAINT-1				ALL WALLS	1 COAT @ PRIMER, 2 COATS OF FINISH
SS-1	SOLID SURFACE-1	WILSONART	QUARTZ - COLOR TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETEE		RESTROOM COUNTERS	
VB-1	VINYL BASE-1	JOHNSONITE	COLOR: TBD - SELECTION BY OWNER FROM GENERAL COLOR PALETEE			

PRELIMINARY
NOT FOR CONSTRUCTION

NOT APPROVED
THIS PLAN HAS NOT RECEIVED FINAL APPROVAL OF ALL REVIEWING AGENCIES. THIS PLAN IS SUBJECT TO REVISIONS UNTIL ALL APPROVALS ARE OBTAINED AND SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

	ISSUED / REVISIONS	DATE
0	ISSUED FOR BID	11-10-25
1	ADDENDUM 1	11-19-25

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PROJECT
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ELMIRA, NY 14901

TITLE OF DRAWING
DOOR AND WINDOW SCHEDULES AND DETAILS

DRAWING SCALE
AS NOTED
ISSUE DATE:
11.10.25
PROJECT NO.
25-086
DRAWING NO.
A-7.1

HVAC GENERAL NOTES

1. COORDINATE HVAC AND PLUMBING WORK WITH ALL OTHER TRADES.
2. ALL DIMENSIONS AND PIPE SIZES ARE IN INCHES, UNLESS OTHERWISE NOTED.
3. INSTALL DUCTWORK IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS. PRESSURE CLASSIFICATION OF DUCT WORK IS TO BE AS FOLLOWS: a. SUPPLY 1", b. RETURN 1", c. EXHAUST 1" PROVIDE TURNING VANES IN ALL MITERED ELBOWS, OR PROVIDE ELBOWS WITH CENTER LINE.
4. INSTALL ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
5. REFLECTED CEILING PLANS FOR ANY AND ALL AREAS PREPARED BY THE ARCHITECT SHOWING THE LOCATION OF AIR INTAKES AND OUTLETS SHALL TAKE PRECEDENCE OVER THE LOCATION OF THOSE SHOWN ON THE HVAC DRAWINGS OF THIS CONTRACT SET OF DRAWINGS. THE CONTRACTOR SHALL INSTALL THE AIR INTAKES AND OUTLETS IN ANY GIVEN AREA TO AGREE WITH THE ARCHITECTS REFLECTED CEILING PLANS.
6. ALL SCHEDULED MOTOR DATA AND ELECTRICAL CHARACTERISTICS ARE MAXIMUM. WHERE EQUIPMENT IS SUPPLIED WITH TARGET MOTORS OR ELECTRICAL CHARACTERISTICS THE HC IS TO COORDINATE WITH THE EC AND PAY FOR ALL CHANGES AS A RESULT INCREASED CAPACITY.
7. INSTALL ALL EQUIPMENT AND MATERIALS IN STRICT ACCORDANCE WITH RESPECTIVE MANUFACTURER'S WRITTEN INSTRUCTIONS.
8. ALL EQUIPMENT - MECHANICAL CONTRACTOR MUST REVIEW THE EQUIPMENT SCHEDULES, SPECIFICATIONS, AND DRAWINGS IN ALL CONTRACT DOCUMENTS AND SUBSEQUENT SHOP DRAWINGS. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE AND OPERABLE SYSTEM AS PART OF THE CONTRACT. FAILURE TO REVIEW DOES NOT RELIEVE THE CONTRACTOR OF FULFILLING THE CONTRACTUAL OBLIGATIONS.
9. REFER TO ARCHITECTURAL DRAWINGS AND SHOP DRAWINGS FOR FINAL EXACT LOCATIONS AND CONNECTIONS AND FOR ALL WORK REQUIRED FOR EQUIPMENT NOT FURNISHED UNDER THIS CONTRACT.
10. MECHANICAL CONTRACTOR TO FIELD MEASURE AND/OR REVIEW ALL PERTINENT DOCUMENTS TO ASSURE LAYOUTS SHOWN ON HVAC DRAWINGS ARE COMPATIBLE WITH AVAILABLE SPACE AND WORK OF OTHER TRADES. DRAWINGS ARE IN ACCORDANCE WITH LAYOUTS SHOWN ON GENERAL CONTRACT ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION PRIOR TO SUBMITTING EQUIPMENT SHOP DRAWINGS.
11. MECHANICAL CONTRACTOR IS CAUTIONED THAT LIMITED SPACE IS AVAILABLE IN CEILING CAVITY. ALL DUCTWORK MUST BE COORDINATED WITH SPACE AND EQUIPMENT. PROVIDE ALL OFFSETS REQUIRED TO ACCOMMODATE WORK OF OTHER TRADES.
12. PROVIDE FLEXIBLE CONNECTIONS AT UNIT SUPPLY AND RETURN CONNECTIONS. OFFSET AND TRANSITION SUPPLY AND RETURN DUCTWORK AS REQUIRED TO AVOID STRUCTURE. PROVIDE MITERED ELBOWS WITH TURNING VANES AT BOTTOM OF SUPPLY AND RETURN DUCT DROPS.
13. 4" HIGH CONCRETE HOUSEKEEPING PAD BY MECHANICAL CONTRACTOR.
14. DO NOT INSTALL ANYTHING WITHIN THE EQUIPMENT TROUBLESHOOTING SPACE. COORDINATE WITH OTHER TRADES TO KEEP THIS SPACE CLEAR. COORDINATE WITH TRUSSES IN SUCH A MANNER THAT EQUIPMENT SHALL CLEAR TRUSS WORK.
15. DUCTWORK TO BE INSULATED WITH FIBERGLASS FLEXIBLE BLANKET INSULATION UNLESS OTHERWISE NOTED ON DRAWING OR DETAILS. JACKETS SHALL BE NOTED ON THE DRAWINGS.
16. FOR ALL BRANCH DUCT CONNECTIONS TO MAIN TRUNK, PROVIDE 45 DEGREE TRANSITION FITTING OR CONICAL TAP FOR ROUND DUCT. BUTT FITTINGS ARE NOT PERMITTED. PROVIDE MANUAL VOLUME DAMPER WITH LOCKING QUADRANT IN ALL BRANCH RUN OUTS TO GRILLES AND DIFFUSER.
17. PROVIDE TURNING VANES IN ALL MITERED ELBOWS, OR PROVIDE ELBOWS WITH CENTERLINE RADIUS EQUAL TO 1.5 TIMES DUCT WIDTH.
18. SLEEVE AND SEAL ALL PIPE, OR DUCT PENETRATIONS OF WALLS AND FLOORS. PACK VOID BETWEEN PIPE, OR DUCT AND SLEEVE WITH INSULATION IN NON-RATED WALLS AND FLOORS. PACK VOID BETWEEN PIPE, OR DUCT AND SLEEVE WITH INSULATION IN FIRE-RATED WALLS AND FLOORS, APPLY INTUMESCENT FIRE SAFING COMPOUND AT PENETRATION, MAINTAINING INTEGRITY AND RATING OF FIRE SEPARATION. SLEEVES THROUGH FLOORS SHALL EXTEND 2" ABOVE FLOOR, BE GROUTED INTO PLACE AND WATERPROOFED. PIPING THROUGH EXTERIOR WALLS SHALL BE SLEEVED AND SEALED WEATHER TIGHT.
19. AS APPLICABLE AND AS INDICATED, PIPE DROPS ARE TO BE ON WALL, IN WALL, OR IN ENCLOSED SPACE PROVIDED BY THE GENERAL CONTRACTOR.
20. CONCEALED PIPING DROPS IN WALLS OR ENCLOSED SPACES SHALL BE INSULATED WITH 1/2" THICK UN-SLIT FLEXIBLE UNICELLULAR INSULATION.
21. IF, FOR ANY REASON, IT IS NECESSARY TO RUN PIPING THROUGH FINISHED AREAS IN A MANNER THAT PIPING WOULD BE VISIBLE, THE CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE AN APPROVED TYPE OF ENCLOSURE FOR CONCEALMENT, AT NO ADDITIONAL COST. CONTACT ARCHITECT IF THIS SITUATION OCCURS.
22. PROVIDE OPENINGS THROUGH WALLS 1" DIAMETER LARGER THAN PIPE. SET SLEEVE AND PACK OPENING WITH FIBERGLASS TO PREVENT RUBBING OR NOISE TRANSFER.

MECHANICAL SPECIFICATIONS

1. BASIC HVAC MATERIALS AND METHODS

A. ALL WORK TO BE DONE AND MATERIALS FURNISHED COMPLYING WITH APPLICABLE LAWS AND REGULATIONS, INCLUDING THE INTERNATIONAL BUILDING, MECHANICAL, PLUMBING, FUEL AND FIRE SAFETY CODES. OBTAIN AND PAY FOR REQUIRED PERMITS AND FEES.
B. ALL MATERIALS USED SHALL BE NEW AND UNDAMAGED.
C. ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH CURRENT CONSTRUCTION INDUSTRY STANDARDS AND WORKMANSHIP.
D. MARK ALL NEW PIPING RUNS, IDENTIFYING TYPE AND DIRECTION OF FLOW.
E. FURNISH ACCESS DOORS (RATED OR NON-RATED AS REQUIRED) WHERE VALVES OR EQUIPMENT ARE CONCEALED BEHIND A NON-ACCESSIBLE CEILING OR WALL. FURNISH ACCESS DOORS TO GENERAL CONTRACTOR FOR INSTALLATION.
F. FURNISH STEEL PIPE SLEEVES WHERE PIPES PENETRATE RATED WALLS. PROVIDE SEALANT MATERIALS AND SYSTEM TO MAINTAIN THE WEATHER TIGHT WALL PENETRATION.
G. CONTRACTOR SHALL ARRANGE TO MEET AND INSTRUCT THE OWNER IN THE USE AND MAINTENANCE OF SYSTEMS AND EQUIPMENT. THIS INSTRUCTION SHALL BE FOR A MINIMUM OF (4) HOURS.
H. ALL MANUFACTURED EQUIPMENT, ACCESSORIES AND MATERIALS SHALL BE USED AS INTENDED BY THE MANUFACTURER IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION, OPERATION, AND MAINTENANCE INSTRUCTIONS.
I. CONTRACTOR SHALL PROVIDE IN ADDITION TO ANY OTHER WARRANTIES SPECIFIED, A ONE YEAR FULL LABOR AND MATERIAL WARRANTY ON ALL WORKMANSHIP, MATERIAL AND EQUIPMENT FURNISHED FOR THIS PROJECT.

2. VALVES

A. GATE VALVES OR BALL VALVES SHALL BE CLASS 150 WITH ENDS AND MATERIALS TO MATCH PIPING SYSTEMS.
B. BALL VALVES 2" AND SMALLER SHALL HAVE BRONZE BODY, STAINLESS STEEL BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLE AND BALANCING STOPS, ENDS TO MATCH PIPING SYSTEM.
C. STOP-CHECK VALVES SHALL BE BRASS ALLOY WITH A PRESSURE CLASS OF 150.

3. SUPPORTS AND ANCHORS

A. FURNISH PIPE AND DUCT HANGERS, WHERE REQUIRED, FIRMLY SUPPORTED FROM BUILDING STRUCTURE. SUPPORT PIPING SYSTEMS SECURELY WHILE ALLOWING FOR PIPE AND BUILDING EXPANSION AND CONTRACTION. PROVIDE COPPER PLATED HANGERS FOR COPPER PIPE. USE ADJUSTABLE CLEVIS HANGERS OR ADJUSTABLE STEEL BAND HANGERS. MAXIMUM SPACING SHALL BE 5'-0" FOR 1/2" PIPING, 7'-0" FOR 3/4" TO 1-1/4" PIPING, 9'-0" FOR 1-1/2" TO 2" PIPING. FURNISH MECHANICAL EQUIPMENT SUPPORTS AS DETAILED OR AS REQUIRED TO SAFELY AND PERMANENTLY CARRY THE WEIGHT OF THE EQUIPMENT.

4. MECHANICAL INSULATION

A. INSULATE ABOVE FLOOR HVAC PIPING WITH FIBERGLASS PREFORMED PIPE INSULATION WITH FACTORY APPLIED PAPER BACKED ALUMINUM FOIL VAPOR BARRIER MATERIAL. INSULATE FITTINGS WITH SIMILAR MATERIAL AS PIPE AND COVER WITH PVC FITTING COVERS. ALL INSULATING MATERIALS TO HAVE FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOPMENT RATING OF 50 OR LESS AS TESTED BY ANSI/ASTM E 84 (NFPA 233) METHOD. INSULATE ALL PIPING WITH SURFACE TEMPERATURES BELOW 75 DEGREES F WITH 1/2" INSULATION. INSULATE ALL PIPING WITH SURFACE TEMPERATURES 75 DEGREES F AND HIGHER WITH 1" THICK INSULATION. WHERE PIPES ARE EXPOSED AND LESS THAN 8'-0" ABOVE FLOOR, PROVIDE HEAVY DUTY METAL JACKETING OVER INSULATION.

5.NATURAL GAS SYSTEMS

A. GAS PIPING SHALL COMPLY WITH NFPA 54 "NATIONAL GAS CODE", NFPA TO "NATIONAL ELECTRIC CODE" AND BOCA BASIC MECHANICAL CODE.
B. ABOVE GROUND GAS PIPING SHALL BE SCHEDULE 40, BLACK IRON WITH MALLEABLE IRON THREADED FITTINGS, SUPPORT PIPING WITH ADJUSTABLE BAND TYPE PIPE HANGERS, EQUAL TO ITT-GRINNEL FIG. 97. INSTALL DRIP LEG WITH UNION AND VALVE AT CONNECTION TO EACH PIECE OF EQUIPMENT. PROVIDE VALVE ON DISCHARGE OF METER. GAS VALVES SHALL BE 150 PSI, NON-SHOCK WOG, BRONZE BODY, STRAIGHT CONFIGURATION.
C. INSTALL AND TEST PIPING IN COMPLIANCE WITH UTILITY COMPANY REGULATIONS AND THE NATIONAL FUEL GAS CODE, NFPA NO. 54.

6. NATURAL GAS SYSTEMS

A. ATMOSPHERIC VENT STACKS SHALL BE TYPE B DOUBLE WALL GAS VENTS WITH UL LABEL AND MEETING NFPA 211 "STANDARDS FOR CHIMNEYS, FIREPLACES, VENTS, AND SOLID FUEL BURNING APPLIANCES" AS MANUFACTURED BY AMERICAN METAL PRODUCTS. HART & COOLEY, METAL-FAB, INC., SELKIRK.
B. VENTS AND COMBUSTION AIR PIPES FOR CLOSED COMBUSTION EQUIPMENT AND HIGH EFFICIENCY EQUIPMENT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE LISTING OF THE EQUIPMENT.

7. TEMPERATURE CONTROLS

A. THE TEMPERATURE CONTROLS SHALL BE ELECTRIC AND SHALL BE FURNISHED AS PART OF THE WORK OF THE MECHANICAL CONTRACTOR.

8. TESTING, ADJUSTING, AND BALANCING

A. THE MECHANICAL CONTRACTOR SHALL SUBCONTRACT AN AIR BALANCER TO BALANCE THE SYSTEMS DESCRIBED BELOW.
B. THE BALANCING SHALL BE COMPLETED BY AN INDEPENDENT AIR BALANCER WHO IS NOT AN EMPLOYEE OF THE MECHANICAL CONTRACTOR.
C. PER COMPLIANCE WITH ASHRAE 90.1-1999, THE BALANCER SHALL SUBMIT AN AIR BALANCE REPORT TO THE ARCHITECT AND STATE OR COUNTY INSPECTOR.
D. THE BALANCE REPORT SHALL SHOW PROOF THAT THE SYSTEM HAS BEEN BALANCED TO +/- 10% OF THE DESIGNED AIRFLOW. IT IS THE MECHANICAL CONTRACTOR AND AIR BALANCER'S DUTY TO PROVIDE ACCURATE DATA, SO AREAS OF INCORRECT FLOW MAY BE DISCLOSED TO THE ARCHITECT, INSPECTOR, AND OWNER.
E. ALL AIRSIDE SYSTEMS, COMPONENTS, ETC. INCLUDING SUPPLY, RETURN, OUTDOOR, AND EXHAUST AIR SYSTEMS SHALL BE BALANCED. THE BALANCER SHALL PROVIDE SHEAVES AND BELTS AS NEEDED TO PROPERLY BALANCE EQUIPMENT TO +/- 10% OF THE DESIGNED AIRFLOWS. ALL EQUIPMENT, SUPPLY, RETURN, AND OUTDOOR AIR FLOWRATES SHALL BE LISTED IN THE BALANCE REPORT.
F. ALL HAVAC MOTOR DATA INCLUDING FREQUENCY (RPM), AMP DRAW, HORSEPOWER, EXTERNAL STATIC PRESSURE, HEAD PRESSURE, ETC., SHALL BE INCLUDED IN THE BALANCE REPORT.

9. METAL DUCTWORK

A. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN COMPLIANCE WITH THE 2018 INTERNATIONAL MECHANICAL CODE, SECTION 603, AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS. ALL DUCTWORK SHALL BE SEALED AND INSULATED IN ACCORDANCE WITH ASHRAE 90.1 1999.
B. ROUND FLEX DUCT SHALL BE USED FOR DIFFUSER-GRILLE CONNECTIONS ABOVE LAY-IN CEILINGS. FLEX DUCT MAY BE USED IN OTHER AREAS WHERE THE DUCT AND GRILLE ARE PERMANENTLY AND REASONABLY ACCESSIBLE. MAXIMUM FLEX DUCT LENGTH IS 6'-0". PERFORMANCE OF FLEXIBLE DUCT SHALL MEET OR EXCEED THE RIGID DUCTWORK.
C. UNLESS OTHERWISE NOTED ON PLANS, ALL SUPPLY AND RETURN DUCTWORK LOCATED WITHIN (10) FEET OF THE EQUIPMENT FAN SHALL BE LINED WITH 1/2" ACOUSTICAL DUCT LINER. DUCT DIMENSIONS SHOWN ON MECHANICAL PLANS ARE INTERIOR DIMENSIONS.
D. DUCTWORK LOCATED OUTDOORS: ALL DUCTWORK LOCATED OUTDOORS SHALL BE LINED WITH 2" DUCT LINER, AND SEALED WATER-TIGHT WITH 100% SILICONE CAULK. ALL OUTDOOR DUCTWORK SHALL HAVE INSIDE DIMENSIONS AS LISTED ON THE MECHANICAL DRAWINGS. ALL DUCT LINER SHALL MEET THE 2015 INTERNATIONAL MECHANICAL CODE, SECTION 604.
E. ALL DUCT LINER SHALL HAVE A FLAME SPREAD AND SMOKE DEVELOPMENT 25 OR LESS AND 50 OR LESS WHEN TESTED BY ASTM E-84 (NFPA 255) METHOD.

EXHAUST FAN SCHEDULE

TYPE	MANUFACTURER	MODEL	DESCRIPTION	AIR FLOW CFM	EXHAUST EXTERNAL STATIC PRESSURE	ELECTRICAL			REMARKS
						VOLTS	PHASE	MCA	
EF-1	BROAN	QTXE110150DC	CEILING EXHAUST FAN	150	.125	120V	1	0.4A	ALUMINUM WALL CAP

AIR OUTLET SCHEDULE

TYPE	MANUFACTURER	MODEL	DESCRIPTION	MATERIAL & COLOR	BORDER TYPE	NECK SIZE		REMARKS
						WIDTH	HEIGHT	
D-1	PRICE	96	STEEL GYMNASIUM GRILLE	STEEL/B12 WHITE	SURFACE MOUNT	30	12	
D-2	PRICE	SPD	SQUARE PLAQUE DIFFUSER	STEEL/B12 WHITE	LAY-IN	12	12	
R-1	PRICE	96	STEEL GYMNASIUM GRILLE	STEEL/B12 WHITE	SURFACE MOUNT	30	12	
R-2	PRICE	530	SINGLE DEFLECTION LOUVERED AIR GRILLE	STEEL/B12 WHITE	LAY IN	30	30	

HEAT PUMP SCHEDULE SYSTEM #1

TYPE	MANUFACTURER	MODEL	DESCRIPTION	NOMINAL COOLING (BTU/HR)	COOLING EFFICIENCY IEER/EER [SEER]	NOMINAL HEATING (BTU/HR)	SIZE				ELECTRIC PER MODULE				NOTES & OPTIONS
							LENGTH	WIDTH	HEIGHT	WEIGHT (LBS)	VOLT	MCA 208/230	PHASE	MOCP	
CU-1	TRANE	5TWR5060A1000	OUTDOOR CONDENSER	60,000	18		35"	35"	35"	301	208-230	45	1	50	
AHU-1	TRANE	TAM9A0DGV5 1DA	VARIABLE-SPEED AIR HANDLER	60,000			25"	25"	21"	180	208-230	12.5	1	15	
F-1	TRANE	45HP9606040V21	TWO-STAGE VARIABLE-SPEED FURNACE			57,600	34"	18"	29"	140	208-230	8.3	1	15	

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OWNER/CLIENT
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PROJECT
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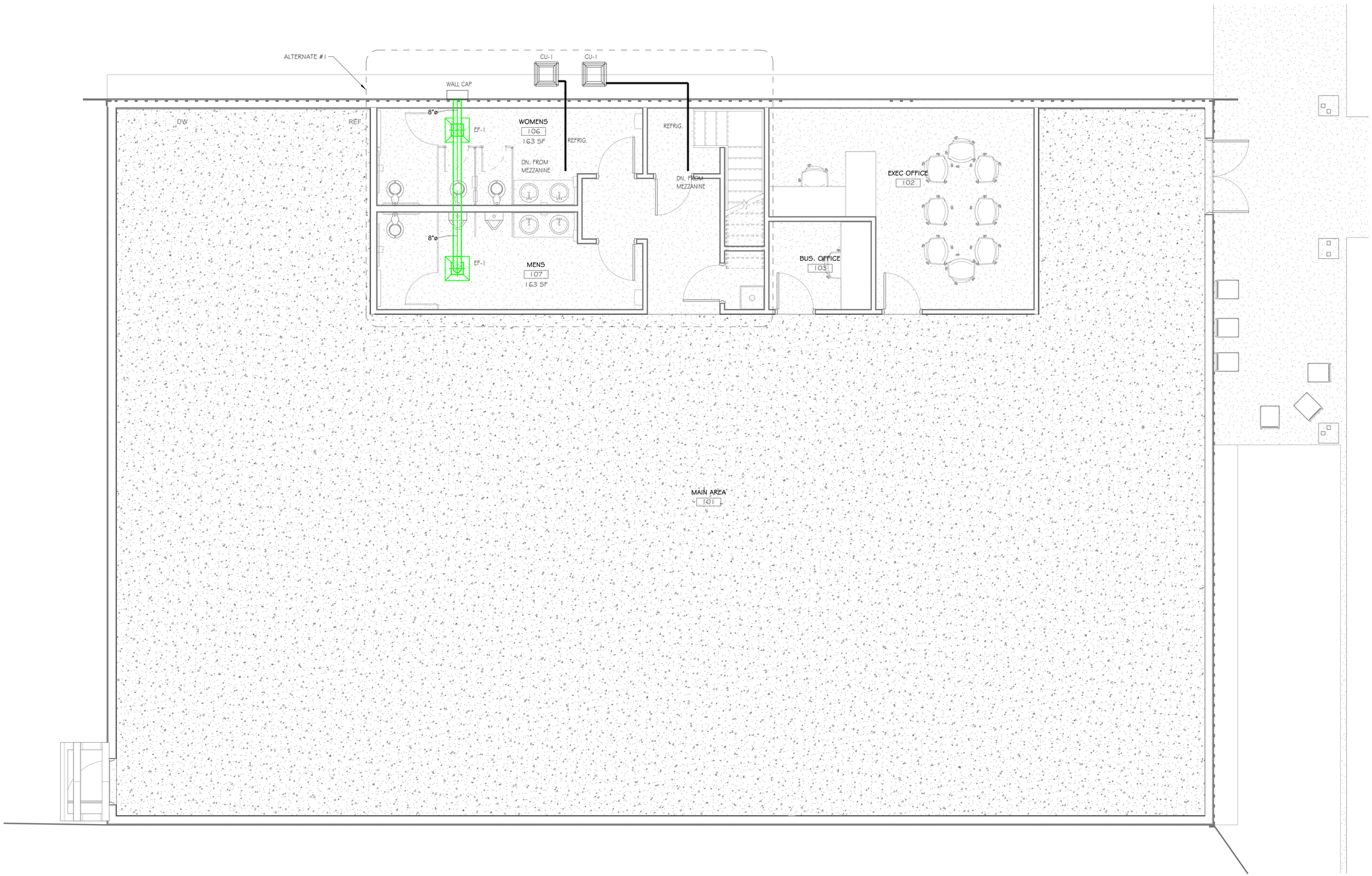
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING
MECHANICAL NOTES, LEGENDS & SCHEDULES

DRAWING SCALE
AS NOTED
ISSUE DATE:
11/10/25
PROJECT NO.
25-086
DRAWING NO.
M-1.0



1 FIRST FLOOR PLAN
1/4" = 1'-0"

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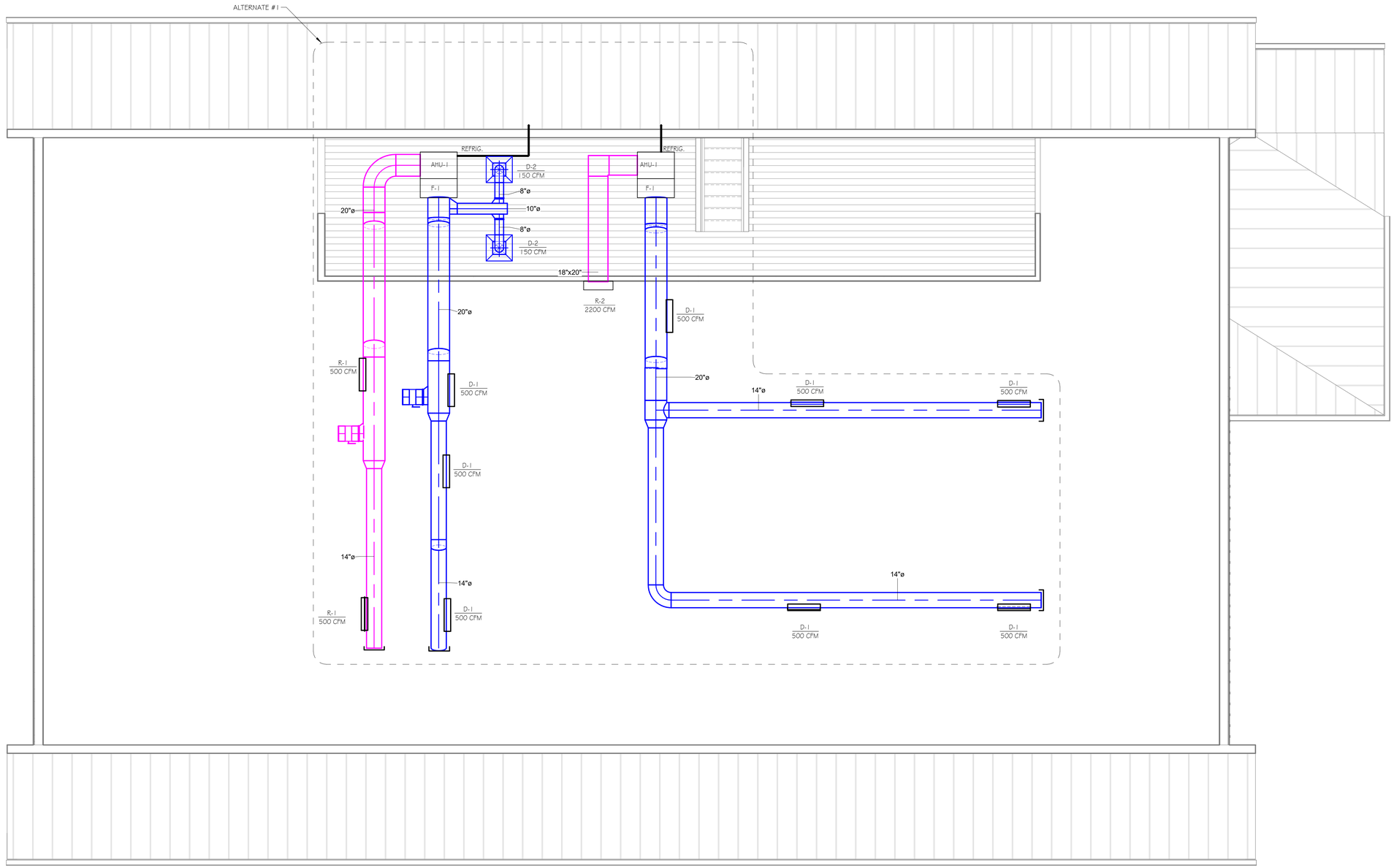

1 SECOND FLOOR PLAN
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MECHANICAL SECOND FLOOR PLAN

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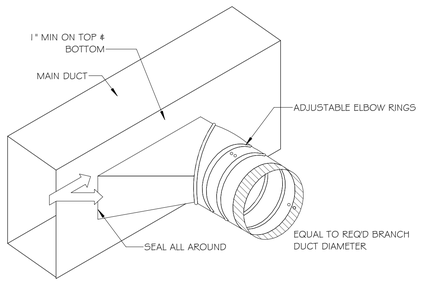

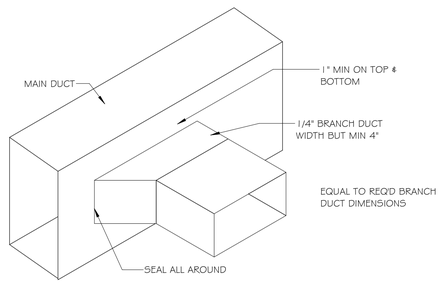

9 TYPICAL BRANCH TAKE-OFF FITTINGS
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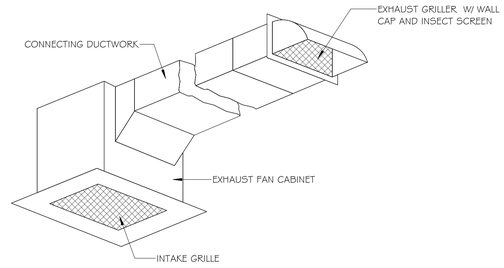

2 TYPICAL EXHAUST AIR DUCT DETAIL
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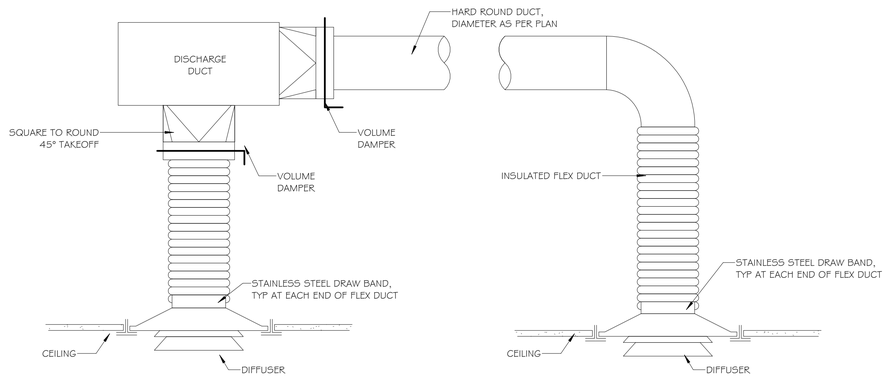

1 DUCT BRANCH FLEX PIPE DETAIL
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PLUMBING - GENERAL NOTES

1. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN FIELD BEFORE ORDERING EQUIPMENT OR FABRICATING COMPONENTS.
2. UNLESS NOTED OTHERWISE, CONSTRUCTION MATERIAL AND EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF OFF THE SITE.
3. COORDINATE WORK WITH EXISTING STRUCTURAL AND ARCHITECTURAL FEATURES AND PROVIDE OFFSETS AND FITTINGS AS REQUIRED.
4. COORDINATE WORK WITH ALL OTHER TRADES. REFER TO ARCHITECTURAL PLANS FOR CEILING ELEVATIONS.
5. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES AND PIPING BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ALL DAMAGES WHICH MIGHT OCCUR BY THE FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES
6. INSTALL ALL WORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS
7. CONTRACTOR IS REQUIRED TO NOTIFY FACILITY OWNERS NOT LESS THAN 3 AND NOT MORE THAN 10 WORKING DAYS PRIOR TO EXCAVATION OR DEMOLITION WORK WHEN USING POWERED EQUIPMENT
8. COORDINATE LOCATION OF ALL PIPING AND DEVICES BEFORE INSTALLATION WITH THE WORK OF OTHER TRADES. WHERE A CONFLICT IN AVAILABLE CLEARANCES OCCURS, OBTAIN CLARIFICATION FROM PRIME CONTRACTOR, AND PROVIDE WHATEVER ADDITIONAL PIPING, FITTINGS, ETC., ARE REQUIRED TO INSTALL PLUMBING SYSTEM WITHOUT ANY ADDITIONAL COST TO THE CONTRACT
9. VERIFY MOUNTING HEIGHTS OF EQUIPMENT FIXTURES WARCHITECT DRAWING BEFORE ROUGH-IN.
10. BUILDING STORM WATER, DOMESTIC WATER, SANITARY, & GAS PIPING SHALL BE EXTENDED TO5 FT OUTSIDE OF BUILDING.
11. THE PLUMBING CONTRACTOR SHALL MAKE COMPLETE WASTE, VENT, HOT & COLD WATER CONNECTIONS TO ALL OWNER FURNISHED EQUIPMENT.
12. INSTALL ALL EQUIPMENT AND MATERIALS IN STRICT ACCORDANCE WITH RESPECTIVE MANUFACTURER'S WRITTEN INSTRUCTIONS.
13. DIMENSIONS AND PIPE SIZES ARE IN INCHES UNLESS NOTED OTHERWISE.
14. RUN PIPING CONCEALED EXCEPT IN MECHANICAL ROOMS OR WHERE NOTED OTHERWISE.
15. ALL EXPOSED PIPING SHALL BE CLEANED AND HAVE THE SURFACE PREPARED TO RECEIVE PAINTED FINISH. PRIME AND PAINT THE EXPOSED PIPING IN COLOR AS SELECTED BY THE ARCHITECT
16. RUN 2" MINIMUM SIZE WASTE PIPING BELOW GROUND INSIDE BUILDING REGARDLESS OF SIZE NOTED ON FIXTURE SCHEDULE. SLOPE ALL SOIL, WASTE AND STORM WATER LINES PER CODE.
17. CONNECT WATER, WASTE, AND VENT PIPING TO FIXTURES IN ACCORDANCE WITH SIZES INDICATED ON FIXTURE SCHEDULE.
18. CONTRACTOR SHALL PROVIDE PIPE SLEEVES IN ALL FOUNDATION WALLS FOR PIPING PENETRATIONS.
19. MAKE ALL FINAL CONNECTIONS TO THE EQUIPMENT AS SHOWN ON THE DRAWINGS. PROVIDE SHUT-OFF VALVES IN ALL INDIVIDUAL WATER CONNECTIONS. IF APPLICABLE, PROVIDE SHUT-OFF VALVES IN ALL INDIVIDUAL GAS CONNECTIONS.
20. RUN ALL PIPING ABOVE CEILING UNDER BUILDING INSULATION OR CONCEALED IN WALLS, UNLESS NOTED OTHERWISE. ALL WASTE LINES AS SHOWN SHALL BE BELOW FLOOR, UNLESS NOTED OTHERWISE.
21. FURNISH AND INSTALL ACCESS PANELS (FIRE-RATED) WHERE REQUIRED, WHERE SHOWN, OR REQUIRED FOR ACCESS TO ALL CONCEALED VALVES, TRAPS OR OTHER EQUIPMENT FURNISHED UNDER THIS CONTRACT WHERE NO OTHER MEANS IS PROVIDED.
    A. COORDINATE ACCESS PANELS AND DOORS WITH ARCHITECT FEATURES.
22. INSTALL UNIONS ON PIPING TO PERMIT EASY DISCONNECTING.
23. CONCEAL ALL PIPING, VALVES AND FITTINGS ABOVE CEILINGS AND IN CHASES WHERE THEY OCCUR, UNLESS NOTED OTHERWISE.
24. THE CONTRACTOR SHALL RIGIDLY SUPPORT ALL EQUIPMENT.
25. ALL SANITARY AND STORM SEWER PIPING SHALL BE RUN AT 1/8" PER FOOT SLOPE UNLESS OTHERWISE NOTED. ALL SANITARY SEWER PIPING 2" AND SMALLER SHALL BE RUN AT 1/4" PER FOOT SLOPE. ALL SANITARY SEWER PIPING 3" AND LARGER SHALL BE RUN AT 1/8" PER FOOT SLOPE.
26. PROVIDE AND INSTALL ANGLE SHUTOFF VALVES AT EACH FIXTURE. WATER VALVES FOR WALL MOUNTED FIXTURES SHALL BE CHROME PLATED, THREADED, HEAVY DUTY TYPE AND HAVE LOOSE KEY STOPS. VALVES FOR COUNTERTOP FIXTURES SHALL BE 1/4 TURN BALL VALVES. PROVIDE SHUT-OFF VALVE IN ALL HOT WATER SUPPLY BRANCHES AND COMBINATION SHUT-OFF AND BALANCE VALVE IN ALL HOT WATER RETURN BRANCHES. LOCATE IN ACCESSIBLE CEILING SPACE OR IF INSIDE EQUIPMENT ENCLOSURES, PROVIDE ACCESS DOOR.
27. HOT & COLD-WATER PIPING SHALL BE COPPER/PEX.
28. SEAL ALL FLOOR AND WALL PENETRATION IN FIRE RATED CEILING & PARTITIONS TO MAINTAIN FIRE RATING.
29. PROVIDE PIPE COVERING INSULATION, 1" THICK FOR HOT WATER PIPING, AND 1/2" THICK FOR COLD WATER PIPING.

PLUMBING FIXTURE SCHEDULE

NAME	DESCRIPTION	MANUFACTURER	PIPE SIZE				REMARKS
			CW	HW	VENT	WASTE	
WC-1	WATER CLOSET, ADA	AMERICAN STANDARD	1"	-	2"	4"	MODEL 3461.528.020 MADERA ADA ELONGATED VITREOUS CHINA TOILET WITH 1.28 GPF MANUAL PISTON FLUSH VALVE.
LAV-1	LAVATORY	ACORN ENGINEERING	1/2"	1/2"	1-1/2"	1-1/2"	MODEL DUADA-3118 30-3/4" X 18-1/2" 18-GAUGE STAINLESS STEEL UNDERMOUNT DOUBLE BOWL SINK (13-1/2" X 16" X 5.5" BOWLS). REQUIRES FAUCET, 1-1/2" DRAIN ASSEMBLY, P-TRAP, MOUNTING CLIPS/BRACKETS, 3/8" TO 1/2" FLEXIBLE SUPPLY LINES, SHUT-OFF VALVES, AND SILICONE SEALANT. FITS 36" MIN. CABINET FOR ADA.
UR-1	URINAL	SLOAN	3/4"	-	1-1/2"	2"	MODEL SU-1009 VITREOUS CHINA WASHDOWN URINAL (17-1/4" W X 14-1/4" D X 25-1/2" H, 0.125–0.5 GPF). REQUIRES FLUSHOMETER VALVE, STRAINER, WALL HANGER/CARRIER, 3/4" SUPPLY LINE, 2" NPT OUTLET FLANGE, SWEAT SOLDER ADAPTER, AND SEALING COMPOUND. MEETS ADA 17" RIM HEIGHT AND FLOOR SPACE.
SK-1	SINK, SINGLE	KOHLER	1/2"	1/2"	1-1/2"	2"	MODEL K-RH20062-NA BALLAD 32" 16-GAUGE STAINLESS STEEL UNDERMOUNT DOUBLE BOWL SINK WITH SOUND-ABSORPTION
MS-1	MOP SINK	ELKAY	1/2"	1/2"	1-1/2"	2"	MODEL FLR-1X 24" X 20" X 11-1/4" 16-GAUGE STAINLESS STEEL FLOOR-MOUNTED MOP SINK (20" X 16" X 10" BOWL)
DW-1	DISHWASHER	OATEY	-	1/2"		1-1/2"	MODEL 37901 MODA 1-VALVE DISHWASHER SUPPLY BOX WITH HAMMER ARRESTOR OPTION
FD-1	FLOOR DRAIN	ZURN	-	-	-	2"	MODEL Z415B ADJUSTABLE CAST IRON FLOOR DRAIN WITH SQUARE NICKEL BRONZE STRAINER.
DF-1	DRINKING FOUNTAIN	ELKAY	1/2""		1-1/4"	1-1/2"	MODEL LZS8WSLK WALL-MOUNTED STAINLESS STEEL ADA COOLER WITH REFRIGERATION AND OPTIONAL BOTTLE FILLER
HWH-1	HOT WATER HEATER	RHEEM	3/4"	3/4"			MODEL XG50T06EC38U1 50-GAL TALL NATURAL GAS WATER HEATER (38,000 BTU)
HB-1	HOSE BIB	EVERBILT QUARTER MASTER	1/2"				1/2" FORGED BRASS MPT HOSE BIBB, MODEL# 103-053EB

PLUMBING SPECIFICATIONS

1 GENERAL NOTES

1.1 BUILDING CODES & STANDARDS
A. CONFORM TO ALL APPLICABLE CODES (LOCAL, STATE, NATIONAL CODES, NFPA, OSHA, ETC.), GOVERNMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND APPLICABLE STANDARDS.
B. ARRANGE FOR ALL REQUIRED INSPECTIONS AND APPROVALS.

1.2 GENERAL REQUIREMENTS
A. CONFORM TO ALL GENERAL AND SPECIAL CONDITIONS OF CONTRACT AS SPECIFIED BY SITE ENGINEER'S AND/OR OWNER.
B. VISIT SITE, CHECK FACILITIES AND CONDITIONS AND MAKE ALL NECESSARY OBSERVATIONS AND MEASUREMENTS. NOTE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND TAKE ALL ITEMS INTO CONSIDERATION IN SCOPE OF WORK.
C. SYSTEMS ARE TO BE COMPLETE AND WORKABLE IN ALL RESPECTS, PLACED IN OPERATION AND PROPERLY ADJUSTED.
D. CONTRACTOR SHALL PROVIDE THEIR OWN CLEAN-UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH DAILY.
E. CONTRACTOR SHALL PROTECT THEIR WORK, EXISTING AND ADJACENT PROPERTY AGAINST WEATHER.
F. CONTRACTOR SHALL PROTECT THEIR WORK, MATERIALS, APPARATUS AND FIXTURES FROM DAMAGE. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION REQUIRED SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL AT THE CONTRACTOR'S EXPENSE.
G. ARRANGE FOR AND OBTAIN OWNER'S REPRESENTATIVE'S PERMISSION FOR ANY SERVICE SHUTDOWNS.
H. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES OF CONSTRUCTION AND THE SAFETY OR WORKMEN.
I. NO PIPING, DUCTWORK, WIRING, ETC. SHALL BE INSTALLED OR ROUTED ABOVE ELECTRICAL PANELS AND EQUIPMENT.

1.3 DRAWINGS
A. THE SYSTEM AS SHOWN ON PLUMBING DRAWINGS ARE DIAGRAMMATIC. CONFIRM ALL DIMENSIONS BY FIELD MEASUREMENT.
B. THE EXACT LOCATIONS FOR FIXTURES, EQUIPMENT AND PIPING WHICH IS NOT COVERED BY DRAWINGS, SHALL BE OBTAINED FROM THE SITE ENGINEER'S OR THEIR REPRESENTATIVE IN THE FIELD AND THE WORK SHALL BE LAID OUT ACCORDINGLY.

1.4 BASE EQUIPMENT, MATERIALS AND SUBSTITUTIONS:
A. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FREE OF DEFECTS.
B. BASE BID MANUFACTURERS ARE INCLUDED IN THE SPECIFICATIONS OR LISTED IN THE NAME OR MAKE OF ANY ARTICLE, DEVICE, MATERIAL, FORM OF CONSTRUCTION, FIXTURE, ETC. ARE INCLUDED AS A BASIS OF DESIGN, WHETHER OR NOT THE WORDS 'OR APPROVED EQUAL' ARE USED, SHALL BE KNOWN AS A "STANDARD".
C. ALL PROPOSALS SHALL BE BASED ON 'STANDARDS' SPECIFIED.
D. THE EQUIPMENT SCHEDULES ON THE DRAWINGS INDICATE MANUFACTURERS EQUIPMENT MODEL NUMBERS THAT THIS DESIGN HAS BEEN BASED ON. THE USE OF OTHER MANUFACTURERS EQUIPMENT THAT IS LISTED AS ACCEPTABLE ALTERNATES AND REFLECTS ANY ADDITIONAL COST OF SUCH CHANGES SHALL BE PAID BY THE CONTRACTOR.
E. SUBSTITUTIONS ARE SUBJECT TO THE APPROVAL OF THE OWNER. IF A SUBSTITUTION IS SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION IS EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.
F. COORDINATE ALL APPROVED SUBSTITUTIONS. ANY COSTS RESULTING FROM SUBSTITUTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVED SHOP DRAWINGS DO NOT ABSOLVE THIS CONTRACTOR FROM THIS RESPONSIBILITY.

1.5 WARRANTY
A. FULLY WARRANT ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR (1) YEAR FROM DATE OF ACCEPTANCE.
B. EXTEND ALL MANUFACTURERS' WARRANTIES TO OWNER.
C. REPAIR OR REPLACE WITHOUT CHARGE TO THE OWNER ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD. IN THE CASE OF REPLACEMENT OR REPAIR DUE TO FAILURE WITHIN THE WARRANTY PERIOD, THE WARRANTY ON THAT PORTION OF THE WORK SHALL BE EXTENDED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF SUCH REPLACEMENT OR REPAIR.

2. BASIC MATERIALS AND METHODS

2.1 GENERAL
A. THIS SECTION INCLUDES BASIC PLUMBING MATERIALS AND METHODS TO COMPLEMENT OTHER SECTIONS IN THIS SPECIFICATION AND REQUIREMENTS INDICATED ON THE MECHANICAL DRAWINGS.

2.2 SUPPORTS & HANGERS
A. INSTALL HANGERS, SUPPORTS, CLAMPS AND ATTACHMENTS AS REQUIRED TO PROPERLY SUPPORT PIPING FROM BUILDING STRUCTURE. THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF MSS SP-69 AND SP-89.

2.3 ESCUTCHEONS
A. FIT ALL PIPE PASSING THROUGH WALLS, FLOORS OR CEILINGS IN FINISHED ROOMS WITH STEEL OR BRASS ESCUTCHEONS. WHERE SURFACE IS TO RECEIVE A PAINT FINISH, MAKE ESCUTCHEONS NICKEL OR CHROME PLACED. WHERE PIPING IS INSULATED, FIT ESCUTCHEONS OUTSIDE INSULATION.

2.4 IDENTIFYING DEVICES & LABELS
A. PROVIDE METAL EQUIPMENT NAMEPLATES PERMANENTLY FASTENED TO EQUIPMENT WITH OPERATIONAL DATA ENGRAVED OR STAMPED.
B. IDENTIFY ALL PIPES AND VALVES AT UNEXPOSED AREAS, AND ACCESSIBLE CEILINGS AND SHAFTS.
C. COLOR CODE IDENTIFICATION BANDS OR MARKER BACKGROUNDS TO IDENTIFY CONTENTS OF PIPE AND DIRECTION OF FLOW LOCATED NEAR EACH VALVE AND FITTING, ON BOTH SIDES OF PIPE PASSING THROUGH WALLS AND ON LONG RUNS AT NOT OVER 20 FOOT INTERVALS.

2.5 FLUES
A. FLUES SHALL BE TYPE B DOUBLE WALL TYPE. INNER PIPE SHALL BE FABRICATED OF TYPE 430M STAINLESS STEEL AND THE OUTER PIPE OF ALUMINIZED STEEL. PROVIDE VENTILATED ROOF THIMBLE, EXIT CONE AND STACK CAP.

2.6 CUTTING, PATCHING & DRILLING
A. PATCH AND FINISH TO MATCH ADJACENT AREAS THAT HAVE BEEN CUT, DAMAGED OR MODIFIED AS A RESULT OF THE INSTALLATION OF THE MECHANICAL SYSTEMS.
B. EXACT LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPLEMENTAL SUPPORT STEEL FOR EQUIPMENT AND ROOF PENETRATIONS AFTER APPROVAL OF STRUCTURAL ENGINEER.

3. INSULATION

A. PLUMBING INSULATION (AS MANUFACTURED BY OWNES CORNING, KNAUF, SCHULLER OR CERTAINTEED)
1. INSULATE ALL ABOVE GRADE HOT AND COLD WATER PIPING WITH MOLDED FIBER GLASS HAVING AN ALL SERVICE JACKET.
B. INSULATION THICKNESS SCHEDULE: 1) LESS THAN 2" DIAMETER PIPE: 1" THICK-HW AND 1/2" THICK CW; 2) 2"-5" DIAMETER PIPE: 1-1/2" THICK.
1. INSULATE ALL ABOVE-GRADE, HORIZONTAL RAIN CONDUCTORS AND ROOF DRAIN SUMPS WITH ONE (1) INCH THICK MOLDED FIBER GLASS HAVING TYPE ASJ JACKET AND MANUFACTURED BY OWENS-CORNING FIBERGLASS COMPANY.
2. INCLUDE INSULATION OF FITTINGS AND VALVES. KEEP VAPOR BARRIERS INTACT. APPLY TO MANUFACTURER'S RECOMMENDATIONS.

4. PIPING AND VALVES

4.1 GENERAL
A. LABEL ALL PIPING AND SHOW DIRECTION OF FLOW EVERY 20 FEET ON CENTER.

4.2 CONNECTIONS TO EQUIPMENT
A. PROVIDE VALVES AT ALL WATER AND/OR GAS CONNECTION FOR EQUIPMENT.
B. INCLUDE ACCESSORIES REQUIRED BY CODE, DRAWING OR MANUFACTURERS INSTRUCTIONS.

4.3 SANITARY AND STORM SEWERS
A. SANITARY AND STORM SEWERS
1. ROOF DRAINS SHALL BE PROVIDED WITH A FLASHING RING AND A 30"x30"x 4LB. LEAD FLASHING PROPERLY FASTENED TO THE FLASHING RING.
2. PVC PIPING SHALL NOT BE INSTALLED UNLESS PERMITTED BY CODE.
B. ABOVE GRADE SANITARYSTORM SEWER AND VENT MATERIAL SHALL BE AS FOLLOWS:
1. NO-HUB CAST IRON PIPE CISPI 1-301-78.
2. PVC-DWV PLASTIC ASTMD1785 WITH ASTM D2665 DWV SOLVENT WELD SOCKET FITTINGS.
C. SITE STORM AND SANITARY SEWERS
1. UP TO 15" - PVC PLASTIC ASTM D3034 SDR 35 WITH ASTM D3212 GASKET JOINTS.

4.4 DOMESTIC WATER PIPING
A. INSTALL DOMESTIC WATER PIPING AS INDICATED ON DRAWINGS. INCLUDE ALL FITTINGS, VALVES, HANGERS AND OTHER ACCESSORIES INCLUDING WATER METER AND BACKFLOW PREVENTER. EXTEND DOMESTIC WATER PIPING TO ALL FIXTURES AND EQUIPMENT REQUIRED FOR COMPLETE INSTALLATION.
B. INCLUDE UNIONS, OR OTHER DISCONNECT MEANS, STOPS OR VALVES FOR ISOLATION OF FIXTURES AND EQUIPMENT. VALVES TO BE FULLY COMPATIBLE WITH PIPING FOR SERVICE INTENDED AS MANUFACTURED BY NIBCO, CRANE OR MILWAUKEE. INCLUDE HOSE OR DRAIN VALVES AT LOW POINTS WHERE FIXTURES CANNOT BE USED FOR DRAINAGE.
C. PROVIDE WATER HAMMER ARRESTERS OF TYPE REQUIRED FOR FIXTURES AND WATER PRESSURES. THESE SHALL BE ASSE 1010 OR PDI-WH201, PISTON TYPE WITH PRESSURIZED METAL-TUBE CUSHIONING CHAMBER AS MANUFACTURED BY SIOUX CHIEF, AMTROL, JOSAM OR ZURN HANGERS ON INSULATED PIPE TO BE OUTSIDE OF INSULATION, SIZED ACCORDINGLY AND WITH A SUFFICIENT SADDLE TO PROTECT INSULATION.
D. DOMESTIC WATER PIPING SHALL BE AS FOLLOWS:
1. ABOVE GRADE:
    a. 1-1/2" NPS AND LARGER- TYPE "L" HARD COPPER ASTM B88-832 WITH WROUGHT COPPER FITTINGS ASTM B16.22 1980 AND NON-LEAD OR ANTIMONY SOLDER JOINTS.
    b. 1-1/4" NPS AND SMALLER - PEX TUBING PER ASTM F877 STANDARD GRADE HYDROSTATIC PRESSURE RATINGS 200ºF AT 80 PSI.
2. BELOW GRADE - PEX PIPING WITHOUT JOINTS. PROVIDE CPVC CONDUIT.
3. FLUSH, VENT AND SANITIZE ALL WATER PIPING WITH CHLORINE AS REQUIRED PER AWWA, LOCAL BUILDING DEPARTMENT AND HEALTH DEPARTMENT CODES.
4. DOMESTIC HOT AND COLD WATER PIPING UNDER CONCRETE FLOOR TO BE COVERED WITH 6" OF SAND SO THAT PIPING WILL NOT BECOME EMBEDDED IN THE FLOOR SLAB.
E. ALL PIPING UNDER CONCRETE FLOOR SHALL BE PEX, CONTINUOUS. NO SPLICES OR FITTINGS WILL BE ALLOWED. PROVIDE CPVC CONDUITS FOR ALL UNDERSLAB PIPING.

4.5 CONDENSATE DRAIN PIPING
A. INSTALL SCH 40 PVC CONDENSATE PIPING AT A MINIMUM 1% DOWNWARD SLOPE IN THE DIRECTION OF FLOW UNLESS OTHERWISE INDICATED.

4.6 STRAINERS
A. INSTALL SCH 40 PVC CONDENSATE PIPING AT A MINIMUM 1% DOWNWARD SLOPE IN THE DIRECTION OF FLOW UNLESS OTHERWISE INDICATED.

4.7 PRESSURE REGULATORS
A. WATER PRESSURE REDUCING VALVE SHALL HAVE AN INITIAL WORKING PRESSURE OF 150 PSI WITH AN ADJ OUT PRESSURE SETTING. VALVES 2" AND SMALLER SHALL BE OF BRONZE BODY WITH THREADED CONNECTIONS.

4.8 BACKFLOW PREVENTER.
A. DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY SHALL CONSIST OF TWO POSITIVE SEATING CHECK MODULES WITH CAPTURED SPRINGS AND RUBBER SEAT DISCS THAT ARE REPLACEABLE. IT SHALL HAVE A LOW PRESSURE DROP. BACKFLOW PREVENTER SHALL REQUIRE NO SPECIAL TOOLS FOR SERVICING. IT SHALL BE A CAST BRONZE BODY CONSTRUCTION FROM 1/2"-2" AND FUSED EPOXY COATED CAST IRON BODY FOR 2-1/2" - 3".

4.9 PIPE SUPPORTS
A. .PIPE SUPPORTS FOR HOT WATER PIPE SHALL BE ANVIL FIG. 181 OR EQUAL.
B. PIPE SUPPORTS FOR NATURAL GAS SHALL BE ANVIL FIG. 260 OR EQUAL

5. PLUMBING SYSTEMS AND EQUIPMENT

5.1 GENERAL
A. CONTRACTORS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THEIR WORK.
B. VERIFY EXACT CONDITIONS IN FIELD AND COORDINATE WITH THESE DRAWINGS AND OTHER TRADES BEFORE BEGINNING NEW WORK.
C. DETERMINE EXACT LOCATIONS FOR ALL EQUIPMENT, PIPING, CONDUITS AND DUCTWORK IN FIELD.
D. COORDINATE WORK OF THIS CONTRACT WITH OTHER TRADES. CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
E. ANY DISCREPANCIES BETWEEN WHAT IS SHOWN ON DRAWINGS OR SPECIFIED AND THE ACTUAL CONDITIONS IN THE FIELD SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER'S BEFORE PROCEEDING.
F. BUILDING AND SURFACES DAMAGED DURING INSTALLATION SHALL BE REPAIRED, REPLACED, AND/OR RESTORED TO ORIGINAL CONDITION AFTER COMPLETION OF WORK AND BEFORE ACCEPTANCE BY OWNER.

5.2 EQUIPMENT
A. PLUMBING CONTRACTOR IS TO FURNISH ALL PLUMBING EQUIPMENT INDICATED AND/OR SCHEDULED ON THE DRAWINGS COMPLETE WITH BASES, ISOLATORS, SUPPORTS AND OTHER REQUIRED ACCESSORIES.
B. INSTALL COMPLETE AND PLACE IN PROPER OPERATION PER MANUFACTURER'S RECOMMENDATIONS, LUBRICATE AND ADJUST AS REQUIRED.
C. EQUIPMENT TO BE MAKE AND MODEL AS SCHEDULED UNLESS ALTERNATE EQUIPMENT OF EQUIVALENT QUALITY AND PERFORMANCE IS SUBMITTED AS A SUBSTITUTION. ALL SUBSTITUTIONS ARE SUBJECT TO ACCEPTANCE WITHOUT QUALIFICATION BY OWNER, ENGINEER AND SITE ENGINEER.

6. PLUMBING INSTRUMENTS AND CONTROLS

6.1 GENERAL
A. AFTER INSTALLATION, CHECK ALL EQUIPMENT AND PERFORM START UP IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
B. ALL PIPING SHALL BE TESTED AND FREE OF LEAKS AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
C. WORK THAT IS SCHEDULED TO BE CONCEALED OR INSULATED SHALL REMAIN UNCOVERED UNTIL REQUIRED TESTS HAVE BEEN COMPLETED. IF THE CONSTRUCTION SCHEDULE REQUIRES, ARRANGE FOR TESTS ON SECTIONS AT A TIME.
D. BALANCE ALL SYSTEMS, CALIBRATE CONTROLS, CHECK FOR PROPER OPERATION AND SEQUENCE UNDER ALL CONDITIONS AND MAKE ALL NECESSARY ADJUSTMENTS.
E. INSTRUCT OWNER IN OPERATION OF SYSTEMS AND SUBMIT OPERATING AND MAINTENANCE MANUAL FOR ALL EQUIPMENT AND SYSTEMS.

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OWNER/CLIENT

FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT
ELMIRA CIVIL WAR PRISON CAMP VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING
SPECIFICATIONS, SCHEDULE & NOTES

DRAWING SCALE
AS NOTED
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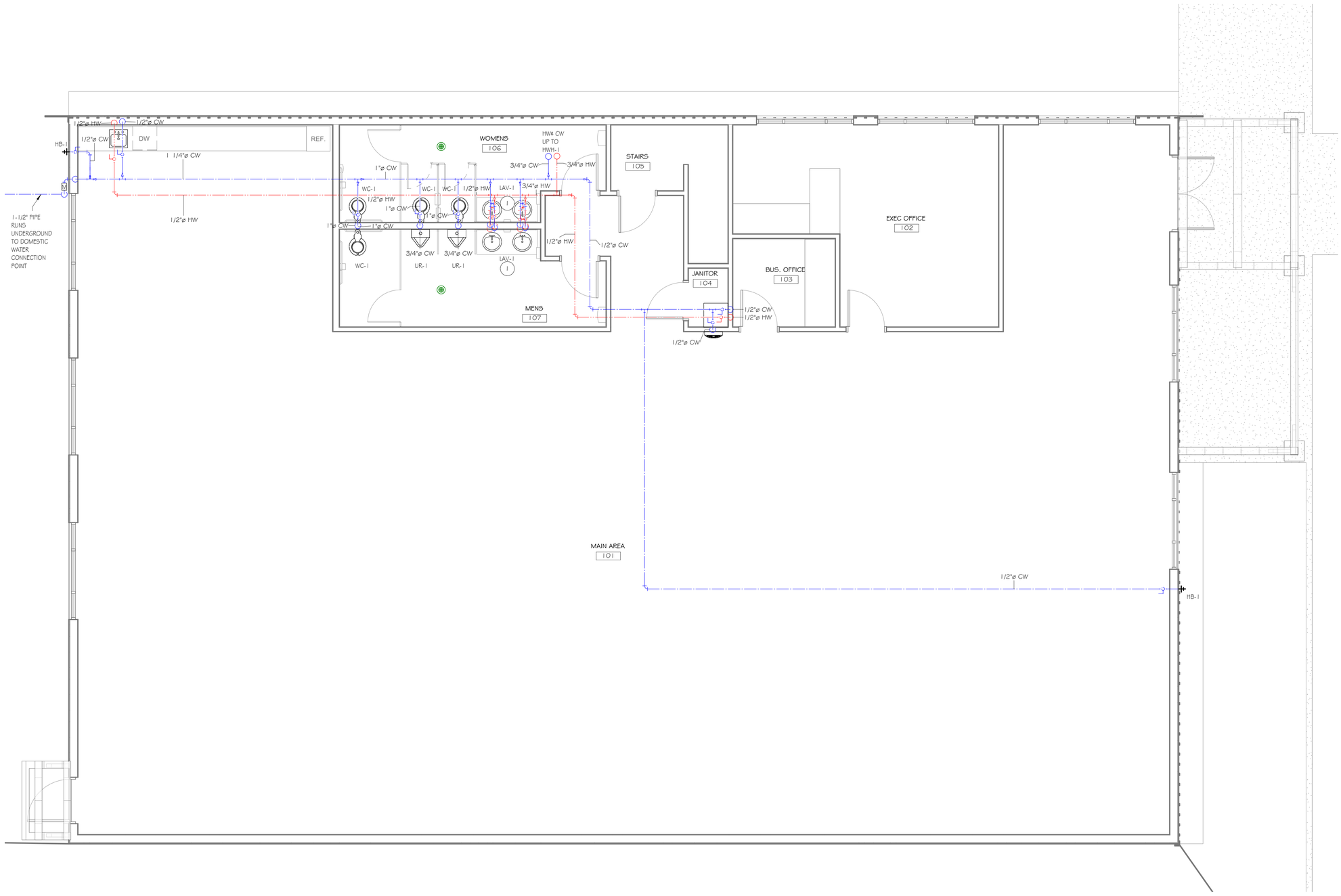
11/10/25
PROJECT NO.
25-086
DRAWING NO.
P-1.0

PLUMBING KEYNOTES

(1) EACH LAVATORY NEEDS SEPARATE 1/2" HW & CW DOMESTIC SERVICE CONNECTIONS

PLUMBING GENERAL NOTES

1. PLUMBING FIXTURES SHALL BE ALTERNATE #1
2. DOMESTIC SUPPLY PIPING SHALL BE BASE BID AND BE CAPPED IN PLACE FOR PLUMBING FIXTURE FUTURE INSTALLATION



FIRST FLOOR PLUMBING PLAN - DOMESTIC SUPPLY

1/4" = 1'-0"

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PLUMBING GENERAL NOTES

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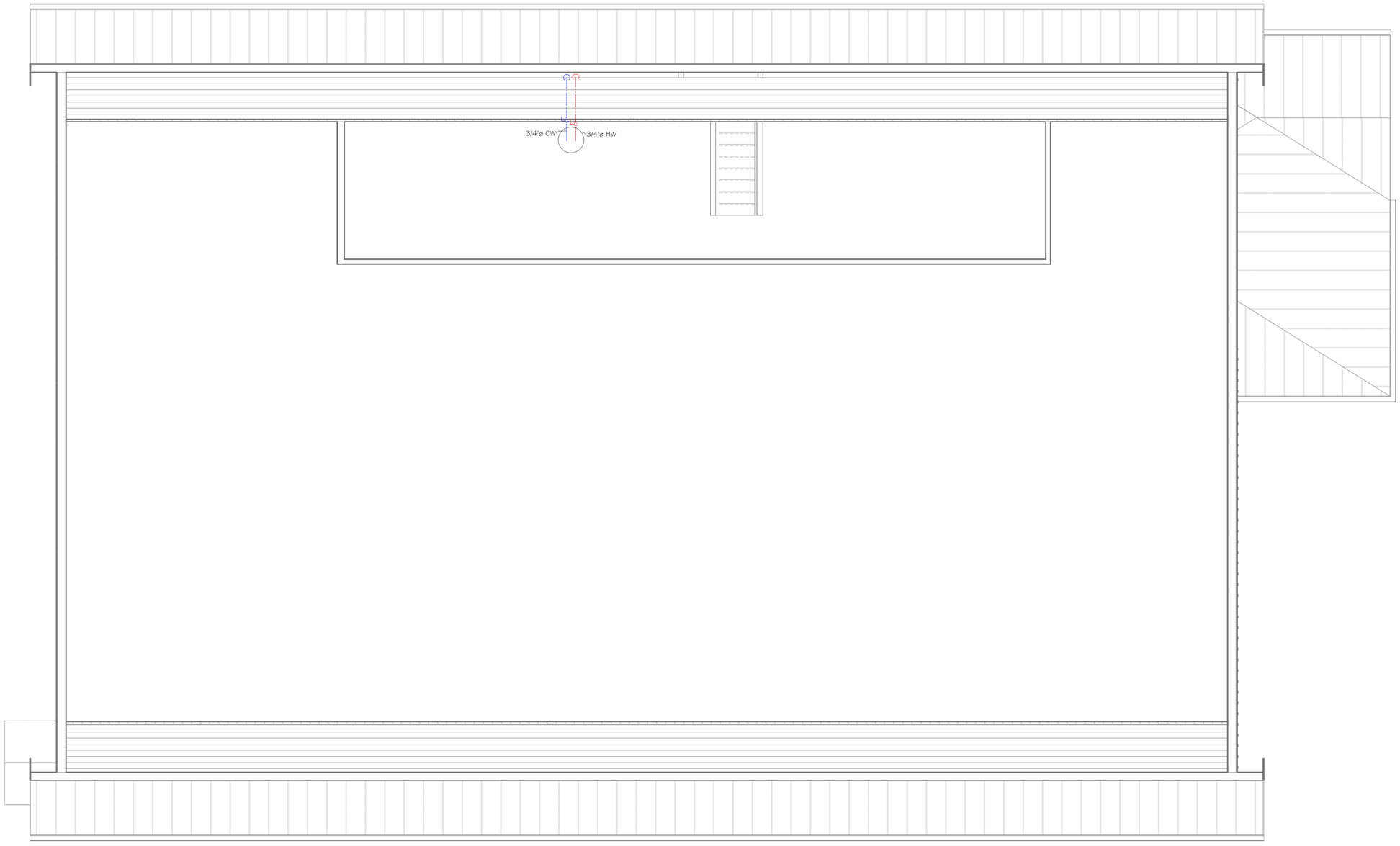

1 SECOND FLOOR PLUMBING PLAN - DOMESTIC SUPPLY
1/4" = 1'-0"

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TITLE OF DRAWING
SECOND FLOOR PLUMBING PLAN - DOMESTIC SUPPLY PIPING

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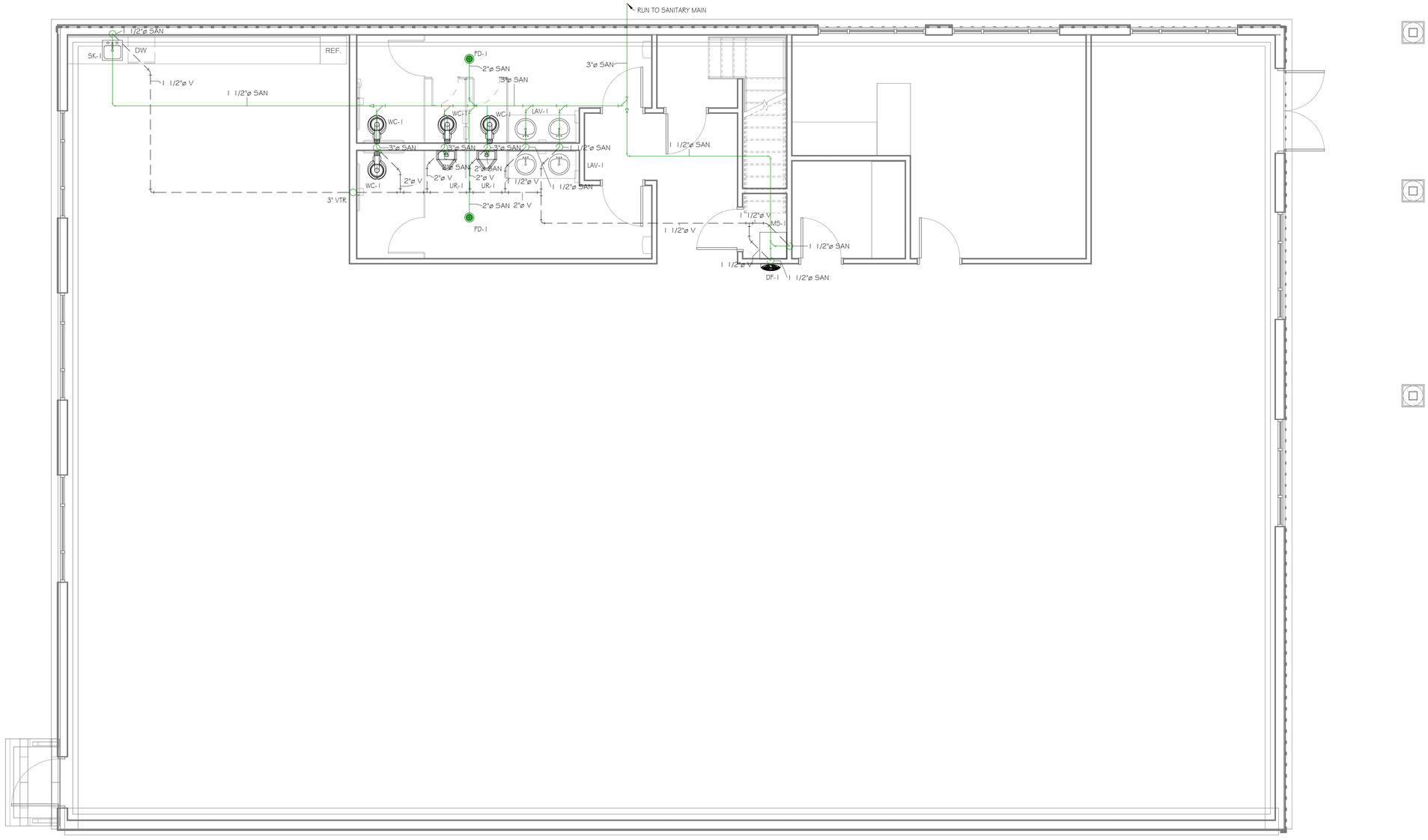
PLUMBING GENERAL NOTES

1. PLUMBING FIXTURES SHALL BE ALTERNATE #1
2. DOMESTIC SUPPLY PIPING SHALL BE BASE BID AND BE CAPPED IN PLACE FOR PLUMBING FIXTURE FUTURE INSTALLATION



1 FIRST FLOOR PLUMBING PLAN - SANITARY & VENT
1/4" = 1'-0"

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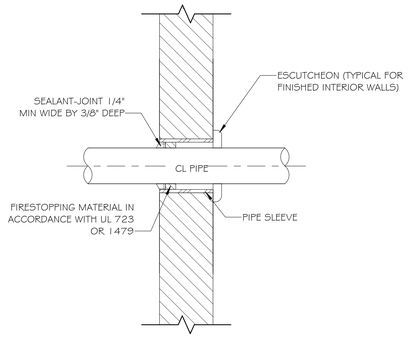
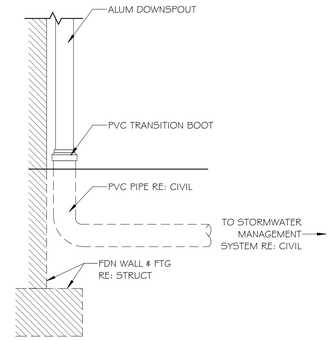


9 TYP. PIP PENETRATION THRU WALL DETAIL
N.T.S.



6 TYP. DOWNSPOUT DETAIL
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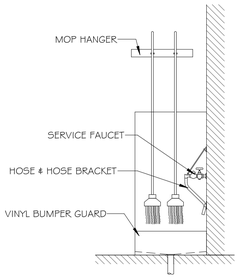

4 MOP SINK ELEVATION DETAIL
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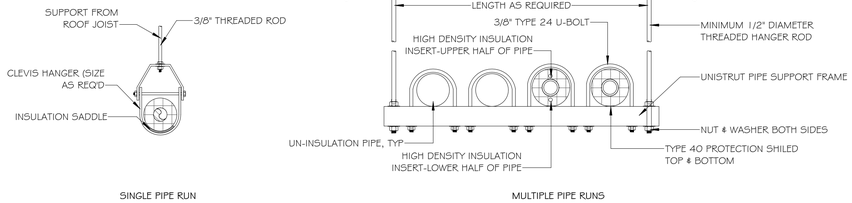

3 PIPE SUPPORT DETAILS
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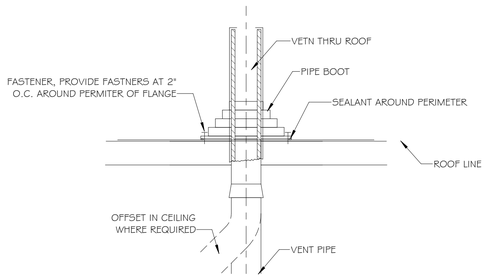
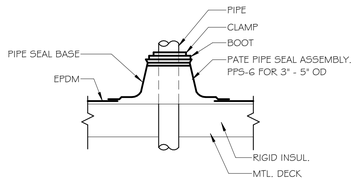


NOTE: CONTRACTOR SHALL INSTALL VENT WITH BOOT IN ACCORDANCE WITH ROOF MANUFACTURES INSTALLATION INSTRUCTIONS

7 ROOF VENT PENETRATIPN DETAIL
N.T.S.



5 TYP. PIPE PENETRATION THRU ROOF DETAIL
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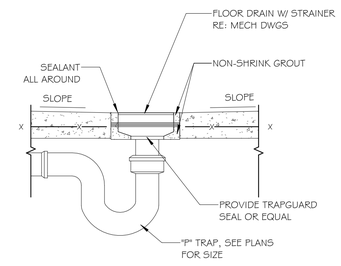
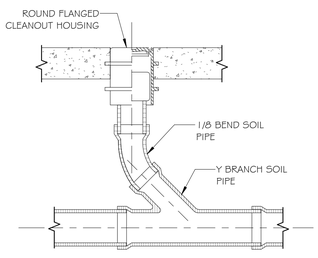


2 TYP. FLOOR DRAIN DETAIL
N.T.S.



1 TYP. FLOOR CLEANOUT DETAIL
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ELECTRICAL SPECIFICATIONS

1. GENERAL NOTES

1.1 BUILDING CODES AND STANDARDS

A. ALL ELECTRICAL WORK TO CONFORM TO:
   1. NFPA 70 (NATIONAL ELECTRIC CODE) - CURRENT VERSION.
   2. NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION) - STANDARD OF INSTALLATION.
   3. NETA ATS (INTERNATIONAL ELECTRICAL TESTING ASSOCIATION) - ACCEPTANCE TESTING SPECIFICATIONS FOR ELECTRICAL POWER DISTRIBUTION EQUIPMENT AND SYSTEMS.
   4. NFPA 72 (NATIONAL FIRE PROTECTION ASSOCIATION - NATIONAL FIRE ALARM CODE).
   5. ALL APPLICABLE CODES.

1.2 GENERAL REQUIREMENTS

A. PRIOR TO CONSTRUCTION & INSTALLATION, CONTRACTOR IS TO VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF CONFLICTS OR CONDITIONS WHICH INTERFERE WITH INSTALLATION AS SET FORTH IN CONTRACT DOCUMENTS.
B. CONTRACTOR RESPONSIBLE FOR ALL NEW FLOOR OPENINGS, EXCAVATIONS, AND PENETRATIONS, UNLESS SPECIFICALLY NOTED. UPON COMPLETION, ALL PENETRATIONS TO BE SEALED.
C. ALL CUTTING AND PATCHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS CLEARLY INDICATED AS PART OF ANOTHER PRIME CONTRACT.
D. COORDINATE ANY NEW ROOF PENETRATIONS WITH THE OTHER TRADES.
E. TAG UNUSED CIRCUITS AS SPARE AND SWITCH BREAKER TO THE "OFF" POSITION.
F. ALL WORK SHOWN ON THIS DRAWING IS THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS CLEARLY INDICATED AS PART OF ANOTHER PRIME CONTRACT.
G. PROVIDE TEMPORARY POWER REQUIRED FOR ALL TRADES.
H. MATCH OWNERS EXISTING STANDARD EQUIPMENT.
I. COORDINATE WORK TO MINIMIZE OUTAGE DURATION.
J. OBTAIN ALL REQUIRED REMITS & INSPECTIONS.
K. PROVIDE FOR ELECTRICAL INSPECTIONS AND SUBMIT REPORTS TO THE OWNER.
L. SUBMIT O&M MANUALS TO OWNER UPON COMPLETION OF WORK.
M. PROVIDE TRAINING SESSION FOR DESIGNATED MAINTENANCE PERSONNEL.
N. PROVIDE SUBMITTALS FOR ALL ELECTRICAL EQUIPMENT, EXCLUDING WIRE, CONDUIT, AND FASTENERS.
   1. HANDHOLES.
   2. PANELBOARD - SHOP DRAWINGS (INDICATE OUTLINE AND SUPPORT POINT DIMENSIONS, VOLTAGE, MAIN BUS AMPICITY, INTEGRATED SHORT CIRCUIT AMPERE RATINGS, CIRCUIT BREAKER AND FUSIBLE SWITCH ARRANGEMENT AND SIZES) AND CATALOG DATA SHOWING SPECIFIED FEATURES OF STANDARD PRODUCTS.
   3. ENCLOSED SWITCHES - SWITCH RATINGS AND ENCLOSURE DIMENSIONS.
   4. DEVICES - MANUFACTURER'S CATALOG INFORMATION SHOWING DIMENSIONS, COLORS, AND CONFIGURATIONS.
   5. LUMINARIES (INCLUDING EMERGENCY & EXIT FIXTURES) - CATALOG INFORMATION SHOWING DIMENSIONS, RATINGS, AND PERFORMANCE DATA.
O. SELECT MATERIALS, SIZES, AND TYPES OF ANCHORS, FASTENERS, AND SUPPORTS TO CARRY LOADS OF EQUIPMENT AND RACEWAY, INCLUDING WEIGHT OF WIRE AND CABLE IN RACEWAY.

2. RACEWAY AND BOXES

A. PROVIDE RACEWAY AND BOXES LOCATED AS INDICATED, AND AT OTHER LOCATIONS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND COMPLIANCE WITH REGULATORY REQUIREMENTS. RACEWAY AND BOXES ARE SHOWN IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. PROVIDE RACEWAY TO COMPLETE WIRING SYSTEM.
B. UNDERGROUND MORE THAN 5 FEET OUTSIDE FOUNDATION WALL: PROVIDE SCHEDULE 80 PVC. PROVIDE CAST METAL BOXES OR NONMETALLIC HANDHOLES WHERE REQUIRED.
C. UNDERGROUND WITHIN 5 FEET FROM FOUNDATION WALL: PROVIDE RIGID STEEL CONDUIT OR THICKWALL NONMETALLIC CONDUIT (SCHEDULE 80 PVC). PROVIDE CAST METAL OR NONMETALLIC BOXES.
D. IN OR UNDER SLAB ON GRADE: PROVIDE THICKWALL NONMETALLIC CONDUIT. PROVIDE CAST OR NONMETALLIC METAL BOXES.
E. OUTDOOR LOCATIONS ABOVE GRADE: PROVIDE NON-METALLIC CONDUIT. PROVIDE NONMETALLIC OUTLET, PULL, AND JUNCTION BOXES.
F. IN SLAB ABOVE GRADE: PROVIDE THICKWALL NONMETALLIC CONDUIT. PROVIDE CAST NONMETALLIC BOXES.
G. WET AND DAMP LOCATIONS: PROVIDE THICKWALL NONMETALLIC CONDUIT. PROVIDE NONMETALLIC OUTLET, JUNCTION, AND PULL BOXES. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
H. CONCEALED DRY LOCATIONS: PROVIDE ELECTRICAL METALLIC TUBING. PROVIDE SHEET-METAL BOXES. PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS. PROVIDE HINGED ENCLOSURE FOR LARGE PULL BOXES.
I. MINIMUM RACEWAY SIZE: 3/4 INCH UNLESS OTHERWISE SPECIFIED.
J. ARRANGE RACEWAY AND BOXES TO MAINTAIN HEADROOM AND PRESENT NEAT APPEARANCE, GROUP RELATED RACEWAY; SUPPORT USING CONDUIT RACK; PROVIDE SPACE ON EACH FOR 25 PERCENT ADDITIONAL RACEWAYS.
K. RACEWAY ROUTING IS SHOWN IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED. ROUTE TO COMPLETE WIRING SYSTEM.
L. DO NOT SUPPORT RACEWAY WITH WIRE, PERFORATED PIPE STRAPS, CEILING SUPPORT WIRES OR OTHER PIPING SYSTEM.
M. ROUTE EXPOSED & ABOVE ACCESSIBLE CEILINGS RACEWAY PARALLEL AND PERPENDICULAR TO WALLS.
N. DO NOT CROSS CONDUITS IN SLAB.
O. INSTALL NO MORE THAN EQUIVALENT OF THREE 90 DEGREE BENDS BETWEEN BOXES. INSTALL CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION, AS AROUND BEAMS. INSTALL FACTORY ELBOWS FOR BENDS IN METAL CONDUIT LARGER THAN 2 INCH SIZE.
P. AVOID MOISTURE TRAPS; INSTALL JUNCTION BOX WITH DRAIN FITTING AT LOW POINTS IN CONDUIT SYSTEM.
Q. INSTALL FITTINGS TO ACCOMMODATE EXPANSION AND DEFLECTION WHERE RACEWAY CROSSES SEISMIC, CONTROL AND EXPANSION JOINTS.
R. INSTALL SUITABLE PULL STRING OR CORD IN EACH EMPTY RACEWAY EXCEPT SLEEVES AND NIPPLES.
S. CLOSE ENDS AND UNUSED OPENINGS IN WIREWAY.
T. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS AND IN UNFINISHED AREAS ONLY.
U. IN ACCESSIBLE CEILING AREAS: INSTALL OUTLET AND JUNCTION BOXES NO MORE THAN 6 INCHES FROM CEILING ACCESS PANEL OR FROM REMOVABLE RECESSED LUMINAIRE.
V. LOCATE FLUSH MOUNTING BOX IN MASONRY WALL TO REQUIRE CUTTING OF MASONRY UNIT CORNER ONLY. COORDINATE MASONRY CUTTING TO ACHIEVE NEAT OPENING.
W. DO NOT INSTALL FLUSH MOUNTING BOX BACK-TO-BACK IN WALLS; INSTALL WITH MINIMUM 6 INCHES SEPARATION. INSTALL WITH MINIMUM 24 INCHES SEPARATION IN ACOUSTIC RATED WALLS.
X. DO NOT FASTEN BOXES TO CEILING SUPPORT WIRES OR OTHER PIPING SYSTEMS.
Y. SUPPORT BOXES INDEPENDENTLY OF CONDUIT.
Z. USE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
AA. SET FLOOR BOXES LEVEL AND FLUSH WITH FINISH FLOORING MATERIAL.
AB. INSTALL CONDUIT TO PRESERVE FIRE RESISTANCE RATING OF PARTITIONS AND OTHER ELEMENTS.
AC. ALIGN ADJACENT WALL MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES.

2. GROUNDING SYSTEMS

A. GROUNDING SYSTEM RESISTANCE: 25 OHMS.
B. GROUNDING SYSTEMS:
   1. MECHANICAL CONNECTORS: BRONZE CONNECTORS, SUITABLE FOR GROUNDING AND BONDING APPLICATIONS, IN CONFIGURATIONS REQUIRED FOR PARTICULAR INSTALLATION.
C. EXOTHERMIC CONNECTIONS: EXOTHERMIC MATERIALS, ACCESSORIES, AND TOOLS FOR PREPARING AND MAKING PERMANENT FIELD CONNECTIONS BETWEEN GROUNDING SYSTEM COMPONENTS.
D. WIRE: STANDARD COPPER.
E. GROUNDING ELECTRODE CONDUCTOR: SIZE TO MEET NFPA 70 AND LOCAL MUNICIPALITY REQUIREMENTS.
F. INSTALLATION:
   1. EQUIPMENT GROUNDING CONDUCTOR: INSTALL SEPARATE, INSULATED CONDUCTOR WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. TERMINATE EACH END ON SUITABLE HUB, BUS, OR BUSHING.
   2. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL EQUIPMENT, OR CONDUIT.
   3. OBTAIN PERMISSION FROM ARCHITECT/ENGINEER BEFORE USING POWDER-ACTUATED ANCHORS OR DRILLING OR CUTTING STRUCTURAL MEMBERS.

3. HANGERS AND SUPPORTS

A. ANCHORS & FASTENERS TO BE CORROSION RESISTANT.
B. ANCHOR AND FASTEN ELECTRICAL PRODUCTS TO BUILDING ELEMENTS AND FINISHES AS FOLLOWS:
   1. CONCRETE STRUCTURAL ELEMENTS: PROVIDE EXPANSION ANCHORS.
   2. STEEL STRUCTURAL ELEMENTS: PROVIDE BEAM CLAMPS AND SPRING STEEL CLIPS.
   3. CONCRETE SURFACES: PROVIDE EXPANSION ANCHORS.
   4. HOLLOW MASONRY, PLASTER, AND GYPSUM BOARD PARTITIONS: PROVIDE TOGGLE BOLTS AND HOLLOW WALL FASTENERS.
   5. SOLID MASONRY WALLS: PROVIDE EXPANSION ANCHORS.
   6. SHEET-METAL: PROVIDE SHEET-METAL SCREWS.
   7. WOOD ELEMENTS: PROVIDE WOOD SCREWS.
C. SUPPORTS:
   1. FABRICATE SUPPORTS FROM STRUCTURAL STEEL OR FORMED STEEL MEMBERS. RIGIDLY WELD MEMBERS OR INSTALL HEXAGON HEAD BOLTS TO PRESENT NEAT APPEARANCE WITH ADEQUATE STRENGTH AND RIGIDITY. INSTALL SPRING LOCK WASHERS UNDER NUTS.
   2. INSTALL SURFACE MOUNTED CABINETS AND PANELBOARDS WITH MINIMUM OF FOUR ANCHORS.
   3. IN WET AND DAMP LOCATIONS INSTALL STEEL CHANNEL SUPPORT TO STAND CABINETS AND PANELBOARDS 1 INCH OFF WALL.
   4. INSTALL SHEET-METAL CHANNEL TO BRIDGE STUDS ABOVE AND BELOW CABINETS AND PANELBOARDS RECESSED IN HOLLOW PARTITIONS.

4. BUILDING WIRE & CABLE

A. PROVIDE PRODUCTS AS FOLLOWS:
   1. SOLID CONSTRUCTION FOR FEEDERS AND BRANCH CIRCUITS #10 AWG AND SMALLER.
   2. STRANDED CONDUCTORS FOR CONTROL CIRCUITS.
   3. PROVIDE CONDUCTORS #12 AWG OR LARGER FOR POWER AND LIGHTING CIRCUITS.
   4. PROVIDE CONDUCTORS #16 AWG OR LARGER FOR CONTROL CIRCUITS.
   5. #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET.
   6. #10 AWG CONDUCTORS FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET.
B. WIRING METHODS: PROVIDE THE FOLLOWING WIRING METHODS:
   A. CONCEALED DRY INTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION IN RACEWAY.
   B. ABOVE ACCESSIBLE CEILINGS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY OR METAL CLAD CABLE.
   C. WET OR DAMP INTERIOR LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
   D. UNDERGROUND LOCATIONS: USE ONLY BUILDING WIRE, TYPE THHN/THWN INSULATION, IN RACEWAY.
C. WIRE AND CABLE ROUTING INDICATED IS APPROXIMATE UNLESS DIMENSIONED. INCLUDE WIRE AND CABLE LENGTHS WITHIN 10 FT OF LENGTH SHOWN.
D. COMPLETELY AND THOROUGHLY SWAB RACEWAY BEFORE INSTALLING WIRE.
E. NEATLY TRAIN AND LACE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.
F. SPECIAL TECHNIQUES-BUILDING WIRE IN RACEWAY:
   1. PULL CONDUCTORS INTO RACEWAY AT SAME TIME.
   2. INSTALL BUILDING WIRE #4 AWG AND LARGER WITH PULLING EQUIPMENT.
G. SPECIAL TECHNIQUES - CABLE:
   1. PROTECT EXPOSED CABLE FROM DAMAGE.
   2. SUPPORT CABLES ABOVE ACCESSIBLE CEILING, USING SPRING METAL CLIPS OR CABLE TIES TO SUPPORT CABLES FROM STRUCTURE OR CEILING SUSPENSION SYSTEM. DO NOT REST CABLE ON CEILING PANELS.
   3. USE SUITABLE CABLE FITTINGS AND CONNECTORS.
H. SPECIAL TECHNIQUES - DIRECT BURIAL CABLE:
   1. TRENCH AND BACKFILL FOR DIRECT BURIAL CABLE INSTALLATION. INSTALL WARNING TAPE ALONG ENTIRE LENGTH OF DIRECT BURIAL CABLE, WITHIN 3 INCHES OF GRADE.
   2. USE SUITABLE DIRECT BURIAL CABLE FITTINGS AND CONNECTORS.
I. SPECIAL TECHNIQUES - WIRING CONNECTIONS:
   1. CLEAN CONDUCTOR SURFACES BEFORE INSTALLING LUGS AND CONNECTORS.
   2. MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPICITY OF CONDUCTORS WITH NO PERCEPTIBLE TEMPERATURE RISE.
   3. TAPE UNINSULATED CONDUCTORS AND CONNECTORS WITH ELECTRICAL TAPE TO 150 PERCENT OF INSULATION RATING OF CONDUCTOR.
   4. INSTALL SPLIT BOLT CONNECTORS OR MULTI-TAP BLOCKS FOR COPPER CONDUCTOR SPLICES AND TAPS, #6 AWG AND LARGER.
   5. INSTALL SOLDERLESS PRESSURE CONNECTORS WITH INSULATING COVERS FOR COPPER CONDUCTOR SPLICES AND TAPS, #8 AWG AND SMALLER.
   6. INSTALL INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR COPPER CONDUCTOR SPLICES AND TAPS, #10 AWG AND SMALLER.
   7. TERMINATE EXISTING ALUMINUM CONDUCTORS WITH TIM-PLATED, ALUMINUM-BODIED COMPRESSION CONNECTORS ONLY. FILL WITH ANTI-OXIDANT COMPOUND BEFORE INSTALLING CONDUCTOR.
   8. INSTALL SUITABLE REDUCING CONNECTORS OR MECHANICAL CONNECTOR ADAPTORS FOR CONNECTING ALUMINUM CONDUCTORS TO COPPER CONDUCTORS.
J. GROUND CONDUCTORS:
   1. FOR #6 AWG AND SMALLER: GREEN.
   2. FOR #4 AWG AND LARGER: IDENTIFY WITH GREEN TAPE AT BOTH ENDS AND VISIBLE POINTS INCLUDING JUNCTION BOXES.
K. ALL WIRING SHALL BE #12 CU UNLESS SPECIFIED OTHERWISE.

5. IDENTIFICATION

A. IDENTIFY ELECTRICAL COMPONENTS AS FOLLOWS:
   1. ENGRAVED LAMINATED PLASTIC NAMEPLATE FOR EACH ELECTRICAL DISTRIBUTION, CONTROL EQUIPMENT ENCLOSURE, AND COMMUNICATION CABINET.
   2. CLOTH TYPE WIRE MARKER FOR EACH CONDUCTOR AT PANELBOARD GUTTERS, AND PULL BOXES.
   3. RACEWAY MARKER FOR EACH RACEWAY WHERE IT STUBS ABOVE THE CEILING OR BELOW THE FLOOR.
   4. UNDERGROUND WARNING TAPE ALONG LENGTH OF EACH UNDERGROUND RACEWAY OR CABLE, 3" BELOW FINISHED GRADE. TAPE TO BE 4-INCH WIDE PLASTIC TAPE, DETECTABLE TYPE, COLORED YELLOW WITH SUITABLE WARNING LEGEND DESCRIBING BURIED ELECTRICAL LINES.

6. SEALING AND FIREPROOFING

A. INSTALL FIRESTOPPING TO MAINTAIN ALL RATINGS AT ALL FIRE SEPARATIONS.
   1. SEAL OPENINGS AS FOLLOWS:
      a. INSTALL 12 GAUGE STEEL SLEEVE THROUGH OPENING AND EXTENDING BEYOND MINIMUM OF 1 INCH ON EACH SIDE OF BUILDING ELEMENT.
      b. SIZE SLEEVE ALLOWING MINIMUM OF 1 INCH VOID BETWEEN SLEEVE AND BUILDING ELEMENT.
      c. PACK VOID WITH BACKING MATERIAL.
      d. SEAL ENDS OF SLEEVE WITH UL LISTED FIRE RESISTIVE SILICONE COMPOUND TO MEET FIRE RATING OF STRUCTURE PENETRATED.
   2. WHERE CABLE TRAY, BUS, CABLE BUS, CONDUIT, WIREWAY, OR TROUGH PENETRATES FIRE RATED SURFACE, INSTALL FIRESTOPPING PRODUCT IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTRUCTIONS.
B. NON-RATED SURFACES:
   1. SEAL OPENING THROUGH NON-FIRE RATED ROOF OPENING AS FOLLOWS:
      a. INSTALL 12 GAUGE STEEL SLEEVE THROUGH OPENING AND EXTENDING BEYOND MINIMUM OF 1 INCH ON EACH SIDE OF BUILDING ELEMENT.
      b. SIZE SLEEVE ALLOWING MINIMUM OF 1 INCH VOID BETWEEN SLEEVE AND BUILDING ELEMENT.
      c. INSTALL TYPE OF FIRESTOPPING MATERIAL RECOMMENDED BY MANUFACTURER.
   2. EXTERIOR WALL OPENINGS BELOW GRADE: ASSEMBLE RUBBER LINKS OF MECHANICAL SEAL TO SIZE OF CONDUIT AND TIGHTEN IN PLACE, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

7. PANELBOARDS

A. MANUFACTURERS:
   1. EATON/CUTLER-HAMMER.
   2. GE ELECTRICAL.
   3. SIEMENS/ITE.
   4. SQUARE D MODEL.
B. BOLT-ON CIRCUIT BREAKER TYPE, DISTRIBUTION, LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARD.
C. PANELBOARD BUS: COPPER CURRENT CARRYING COMPONENTS, RATINGS AS INDICATED ON DRAWINGS. FURNISH COPPER GROUND BUS IN EACH PANELBOARD; FURNISH INSULATED GROUND BUS AS INDICATED ON DRAWINGS.
D. MINIMUM INTEGRATED SHORT CIRCUIT RATING: 22,000 AMPERES RMS SYMMETRICAL FOR 240 VOLT PANELBOARDS; 65,000 AMPERES RMS SYMMETRICAL FOR 480 VOLT PANELBOARDS.
E. E. MOLDED CASE CIRCUIT BREAKERS; NEMA AB 1, BOLT-ON TYPE THERMAL MAGNETIC TRIP CIRCUIT BREAKERS, WITH COMMON TRIP HANDLE FOR ALL POLES, LISTED AS TYPE SWD FOR LIGHTING CIRCUITS, TYPE HACR FOR AIR CONDITIONING EQUIPMENT CIRCUITS, CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKERS AS INDICATED ON DRAWINGS. DO NOT USE TANDEM CIRCUIT BREAKERS.
F. ENCLOSURE: NEMA PB 1, TYPE 1.
G. CABINET BOX: 6 INCHES DEEP, 20 INCHES WIDE FOR 240 VOLT AND LESS PANELBOARDS, 20 INCHES WIDE FOR 480 VOLT PANELBOARDS.
H. CABINET FRONT: SURFACE DOOR-IN-DOOR TYPE, FASTENED WITH HINGE AND LATCH,HINGED DOOR WITH FLUSH LOCK, METAL DIRECTORY FRAME, FINISHED IN MANUFACTURER'S STANDARD GRAY ENAMEL. OUTER PANELBOARD TRIMS SHALL COVER ALL LIVE PARTS. SWITCHING DEVICE HANDLES SHALL BE ACCESSIBLE.
I. SURFACE TRIMS SHALL BE SAME HEIGHT AND WIDTH AS BOX. FLUSH TRIMS SHALL OVERLAP THE BOX BY 3/4 OF AN INCH ON ALL SIDES.
J. INSTALL RECESSED PANELBOARDS FLUSH WITH WALL FINISHES.
K. HEIGHT: 6 FEET TO TOP OF PANELBOARD; INSTALL PANELBOARDS TALLER THAN 6 FEET WITH BOTTOM NO MORE THAN 4 INCHES ABOVE FLOOR.
L. INSTALL FILLER PLATES FOR UNUSED SPACES IN PANELBOARDS.
M. PROVIDE TYPED CIRCUIT DIRECTORY FOR EACH BRANCH CIRCUIT PANELBOARD PER ARCHITECTURAL ROOM DESIGNATIONS. REVISE DIRECTORY TO REFLECT CIRCUITING CHANGES TO BALANCE PHASE LOADS.
N. MARK UNUSED CIRCUIT BREAKERS AS SPARE AND SWITCH TO OFF POSITION.
O. MEASURE STEADY STATE LOAD CURRENTS AT EACH PANELBOARD FEEDER; REARRANGE CIRCUITS IN PANELBOARD TO BALANCE PHASE LOADS TO WITHIN 20 PERCENT OF EACH OTHER. MAINTAIN PROPER PHASING FOR MULTI-WIRE BRANCH CIRCUITS.

8. ENCLOSED SWITCHES

A. MANUFACTURERS:
   1. CUTLER-HAMMER.
   2. SQUARE D.
   3. GE ELECTRICAL.
   4. SIEMENS.
B. PRODUCT DESCRIPTION: NEMA KS 1, TYPE HD WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION, ENCLOSED LOAD INTERRUPTER KNIFE SWITCH. HANDLE LOCKABLE IN OFF POSITION, WITH PROVISIONS FOR THREE PADLOCKS.
C. SWITCH MECHANISM: TO BE QUICK-MAKE, QUICK-BREAK SUCH THAT, DURING NORMAL OPERATION OF THE SWITCH, THE OPERATION OF THE CONTACTS SHALL NOT BE CAPABLE OF BEING RESTRAINED BY THE OPERATING HANDLE AFTER THE CLOSING OF OPENING ACTION OF THE CONTACTS HAS STARTED.
D. FUSE CLIPS: DESIGNED TO ACCOMMODATE NEMA FU 1, CLASS R, J FUSES.
E. ENCLOSURE: NEMA CONFIGURATION TO MEET CONDITIONS:
   1. INTERIOR DRY LOCATIONS: TYPE 1.
   2. EXTERIOR LOCATIONS: TYPE 3R.
   3. INDUSTRIAL LOCATIONS: TYPE 4X.
F. SERVICE ENTRANCE: SWITCHES IDENTIFIED FOR USE AS SERVICE EQUIPMENT ARE TO BE LABELED FOR THIS APPLICATION. FURNISH SOLID NEUTRAL ASSEMBLY AND EQUIPMENT GROUND BAR.
G. FURNISH SWITCHES WITH CURRENT CARRYING PARTS ENTIRELY OF COPPER.
H. SWITCH RATING: HORSEPOWER RATED FOR AC AS INDICATED ON DRAWINGS.
I. SHORT CIRCUIT CURRENT RATING: 200,000 RMS SYMMETRICAL AMPERES WHEN USED WITH OR PROTECTED BY CLASS R OR CLASS J FUSES (30-600 AMPERE SWITCHES EMPLOYING APPROPRIATE FUSE REJECTION SCHEMES).
J. HEIGHT: 5 FEET TO OPERATING HANDLE.
K. INSTALL FUSES FOR FUSIBLE DISCONNECT SWITCHES.

9. WIRING DEVICES

A. MANUFACTURERS:
   1. PASS & SEYMOUR LEGRAND.
   2. HUBELL.
   3. LEVITON.
   4. GENERAL ELECTRIC.
B. PRODUCT DESCRIPTION: NEMA WD 1, HEAVY-DUTY, AC ONLY SPECIFICATION GRADE SWITCH/RECEPTACLE. ALL DEVICES TO BE SPECIFICATION GRADE OR BETTER.
C. BODY / HANDLE: IVORY PLASTIC WITH TOGGLE HANDLE.
D. RATINGS: MATCH BRANCH CIRCUIT AND LOAD CHARACTERISTICS, MINIMUM 20A.
E. GFCI RECEPTACLE: CONVENIENCE RECEPTACLE WITH INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER TO MEET REGULATORY REQUIREMENTS.
F. WP RECEPTACLE: (WEATHERPROOF) TO BE GFI PROTECTED.

10. WALL PLATES

MANUFACTURERS:
   a. PASS & SEYMOUR LEGRAND.
   b. TAYMAC 20510 (WEATHERPROOF-IN-USE).
   c. HUBELL (BELL/RACO).
   d. LEVITON.
   e. GENERAL ELECTRIC.
B. INSTALL DECORATIVE PLATES ON SWITCH, RECEPTACLE, AND BLANK OUTLETS IN FINISHED AREAS. DECORATIVE COVER PLATE: NYLON.
C. INSTALL JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS. JUMBO COVER PLATE: NYLON.
D. WEATHERPROOF COVER PLATE (RECEPTACLE): IMPACT RESISTANT PLASTIC PLATE WITH HINGED AND GASKETED DEVICE COVER. COVER TO BE RATED FOR WET LOCATION WHILE IN USE, AND TO BE LOCKABLE.
E. WEATHERPROOF COVER PLATE (SWITCH): GASKETED CAST METAL PLATE WITH HINGED AND GASKETED DEVICE COVER OR LEVER SWITCH MECHANISM. (P&S CA-31G/HUBELL/BELL/RACO 5125 OR EQUAL).
F. KITCHEN AREAS: 302/430 STAINLESS STEEL, WEATHERPROOF FOR STARTUPS.
G. INSTALL GALVANIZED (STAMPED) STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND ON SURFACE MOUNTED OUTLETS.
H. INSTALL DEVICES PLUMB AND LEVEL.
I. INSTALL SWITCHES WITH OFF POSITION DOWN.
J. INSTALL RECEPTACLES WITH GROUNDING POLE ON TOP, OR TO THE LEFT (IF MOUNTED HORIZONTALLY).
K. CONNECT WIRING DEVICE GROUNDING TERMINAL TO OUTLET BOX WITH BONDING JUMPER AND BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTOR.
L. CONNECT WIRING DEVICES BY WRAPPING SOLID CONDUCTOR AROUND SCREW TERMINAL. INSTALL STRANDED CONDUCTOR FOR BRANCH CIRCUITS #10 AWG AND SMALLER. WHEN STRANDED CONDUCTORS ARE USED IN LIEU OF SOLID, USE CRIMP ON FORK TERMINALS FOR DEVICE TERMINATIONS. DO NOT PLACE STRANDED CONDUCTORS DIRECTLY UNDER DEVICE SCREWS.
M. ADJUST DEVICES AND WALL PLATES TO BE FLUSH AND LEVEL.

11. INTERIOR LUMINARIES

A. ALL FIXTURES TO BE SPECIFICATION GRADE OR BETTER.
B. INSTALL SUSPENDED LUMINARIES USING PENDANTS SUPPORTED FROM SWIVEL HANGERS. INSTALL PENDANT LENGTH REQUIRED TO SUSPEND LUMINAIRE AT INDICATED HEIGHT.
C. SUPPORT LUMINARIES LARGER THAN 2x4 SIZE INDEPENDENT OF CEILING FRAMING.
D. INSTALL SURFACE MOUNTED LUMINARIES PLUMB AND ADJUST TO ALIGN WITH BUILDING LINES AND WITH EACH OTHER. SECURE TO PREVENT MOVEMENT.
E. EXPOSE GRID CEILINGS: SUPPORT SURFACE-MOUNTED LUMINARIES ON GRID CEILING DIRECTLY FROM BUILDING. FASTEN SURFACE MOUNTED LUMINARIES TO CEILING GRID MEMBERS USING BOLTS, SCREWS, RIVETS, OR SUITABLE CLIPS.
F. INSTALL RECESSED LUMINARIES TO PERMIT REMOVAL FROM BELOW.
G. INSTALL RECESSED LUMINARIES USING ACCESSORIES AND FIRESTOPPING MATERIALS TO MEET REGULATORY REQUIREMENTS FOR FIRE RATING.
H. INSTALL CLIPS TO SECURE RECESSED GRID-SUPPORTED LUMINARIES IN PLACE.
I. CONNECT LUMINARIES TO BRANCH CIRCUIT OUTLETS USING FLEXIBLE CONDUIT. MAXIMUM LENGTH FIXTURE WHIP TO BE 5 FEET.
J. MAKE WIRING CONNECTIONS TO BRANCH CIRCUIT USING BUILDING WIRE WITH INSULATION SUITABLE FOR TEMPERATURE CONDITIONS WITHIN LUMINAIRE.
K. INSTALL SPECIFIED LAMPS IN EACH LUMINAIRE.
L. AIM AND ADJUST LUMINARIES TO PROVIDE LIGHT LEVELS CONSISTENT WITH DESIGN.

12. EMERGENCY LIGHTING

A. MANUFACTURERS:
   1. AS SPECIFIED IN LIGHT FIXTURE SCHEDULE.
B. PRODUCT DESCRIPTION: SELF-CONTAINED INCANDESCENT (HALOGEN) EMERGENCY LIGHTING UNIT, WITH SELF-TEST DIAGNOSTICS.
C. BATTERY: 12 VOLT, NICKEL-CADMIUM TYPE, WITH 1.5 HOUR CAPACITY.
D. BATTERY CHARGER: DUAL-RATE TYPE, WITH SUFFICIENT CAPACITY TO RECHARGE DISCHARGED BATTERY TO FULL CHARGE WITHIN TWELVE HOURS.
E. LAMPS: 12 WATT MINIMUM, SEALED BEAM TYPE IN NICKEL OR CHROME PLATED STEEL HOUSING.
F. HOUSING: WHITE PLASTIC.
G. INDICATORS: LAMPS TO INDICATE AC ON AND RECHARGING. VOLTMETER TO INDICATE BATTERY VOLTAGE.
H. TEST SWITCH: TRANSFERS UNIT FROM EXTERNAL POWER SUPPLY TO INTEGRAL BATTERY SUPPLY.
I. AIM AND ADJUST LAMP FIXTURES TO PROVIDE OPTIMAL COVERAGE.

EXIT SIGNS

A. MANUFACTURERS:
   1. AS SPECIFIED BY LIGHT FIXTURE SCHEDULE OR EQUAL.
B. PRODUCT DESCRIPTION: EXIT SIGN FIXTURE, WITH SELF-TEST DIAGNOSTICS.
C. FACE: STENCIL FACE WITH RED LETTERS.
D. DIRECTIONAL ARROWS: UNIVERSAL TYPE FOR FIELD ADJUSTMENT.
E. MOUNTING: AS INDICATED ON DRAWINGS OR UNIVERSAL, FOR FIELD SELECTION.
F. BATTERY: 12 VOLT, NICKEL-CADMIUM TYPE, WITH 1.5 HOUR CAPACITY.
G. BATTERY CHARGER: DUAL-RATE TYPE, WITH SUFFICIENT CAPACITY TO RECHARGE DISCHARGED BATTERY TO FULL CHARGE WITHIN TWELVE HOURS.
H. LAMPS: LED.
I. INPUT VOLTAGE: 120 VOLTS.
J. POSITION EXIT SIGN DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS.

FIRE ALARM SYSTEM

A. SYSTEM DESCRIPTION: NONCODED ADDRESSABLE SYSTEM, WITH AUTOMATIC SENSITIVITY CONTROL OF CERTAIN SMOKE DETECTORS AND MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY.
B. SUBMITTALS
   1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
   2. SHOP DRAWINGS: FOR FIRE-ALARM SYSTEM. INCLUDE PLANS, ELEVATIONS, SECTIONS, DETAILS, AND ATTACHMENTS TO OTHER WORK.
C. FIELD QUALITY-CONTROL REPORTS
   1. OPERATION AND MAINTENANCE DATA: FOR FIRE-ALARM SYSTEMS AND COMPONENTS TO INCLUDE IN EMERGENCY, OPERATION, AND MAINTENANCE MANUALS.
D. INSTALLER QUALIFICATIONS:
   1. PERSONNEL SHALL BE TRAINED AND CERTIFIED BY MANUFACTURER FOR INSTALLATION OF UNITS.
   2. INSTALLATION SHALL BE BY PERSONNEL CERTIFIED BY NICET AS FIRE-ALARM LEVEL II TECHNICIAN.
E. OBTAIN FIRE-ALARM SYSTEM FROM SINGLE SOURCE FROM SINGLE MANUFACTURER. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
F. FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES:
   1. MANUAL STATIONS.
   2. HEAT DETECTORS.
   3. SMOKE DETECTORS.
G. CONTINUOUSLY OPERATE ALARM NOTIFICATION APPLIANCES.
H. IDENTIFY ALARM AT FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS.
I. TRANSMIT AND ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION.
J. GENERAL REQUIREMENTS FOR FIRE-ALARM CONTROL UNIT:
   1. FIELD-PROGRAMMABLE, MICROPROCESSOR-BASED, MODULAR, POWER-LIMITED DESIGN WITH ELECTRONIC MODULES, COMPLYING WITH UL 864 AND LISTED AND LABELED BY AN NRTL.
   2. ADDRESSABLE CONTROL CIRCUITS FOR OPERATION OF MECHANICAL EQUIPMENT.
   3. ALPHANUMERIC DISPLAY AND SYSTEM CONTROLS: ARRANGED FOR INTERFACE BETWEEN HUMAN OPERATOR AT FIRE-ALARM CONTROL UNIT AND ADDRESSABLE SYSTEM COMPONENTS INCLUDING ANNUNCIATION AND SUPERVISION. DISPLAY ALARM, SUPERVISORY, AND COMPONENT STATUS MESSAGES AND THE PROGRAMMING AND CONTROL MENU.
   4. KEYPAD: ARRANGED TO PERMIT ENTRY AND EXECUTION OF PROGRAMMING, DISPLAY AND CONTROL COMMANDS AND TO INDICATE CONTROL COMMANDS TO BE ENTERED INTO THE SYSTEM FOR CONTROL OF SMOKE-DETECTOR SENSITIVITY AND OTHER PARAMETERS.
K. ADDRESSABLE INITIATION DEVICES THAT COMMUNICATE DEVICE IDENTITY AND STATUS.
L. SMOKE SENSORS SHALL ADDITIONALLY COMMUNICATE SENSITIVITY SETTING AND ALLOW FOR ADJUSTMENT OF SENSITIVITY AT FIRE-ALARM CONTROL UNIT.
M. TEMPERATURE SENSORS SHALL ADDITIONALLY TEST FOR AND COMMUNICATE THE SENSITIVITY RANGE OF THE DEVICE.
N. ANNUNCIATOR AND DISPLAY: LIQUID-CRYSTAL TYPE, 1 LINE(S) OF 40 CHARACTERS, MINIMUM.
O. INITIATING DEVICE, NOTIFICATION APPLIANCE, AND SIGNALING LINE CIRCUITS: NFPA 72, CLASS B.
P. AUTOMATICALLY TRANSMIT ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO A REMOTE ALARM STATION.
Q. GENERAL REQUIREMENTS FOR MANUAL FIRE-ALARM BOXES: COMPLY WITH UL 38. BOXES SHALL BE FINISHED IN RED WITH MOLDED, RAISED-LETTER OPERATING INSTRUCTIONS IN CONTRASTING COLOR; SHALL SHOW VISIBLE INDICATION OF OPERATION; AND SHALL BE MOUNTED ON RECESSED OUTLET BOX. IF INDICATED AS SURFACE MOUNTED, PROVIDE MANUFACTURER'S SURFACE BACK BOX.
R. DOUBLE-ACTION MECHANISM REQUIRING TWO ACTIONS TO INITIATE AN ALARM, PULL-LEVER TYPE; WITH INTEGRAL ADDRESSABLE MODULE ARRANGED TO COMMUNICATE MANUAL-STATION STATUS (NORMAL, ALARM, OR TROUBLE) TO FIRE-ALARM CONTROL UNIT.
S. STATION RESET: KEY- OR WRENCH-OPERATED SWITCH.
T. GENERAL REQUIREMENTS FOR SYSTEM SMOKE DETECTORS:
U. AN OPERATOR AT FIRE-ALARM CONTROL UNIT, HAVING THE DESIGNATED ACCESS LEVEL, SHALL BE ABLE TO MANUALLY ACCESS THE FOLLOWING FOR EACH DETECTOR:
   1. PRIMARY STATUS.
   2. DEVICE TYPE.
   3. PRESENT AVERAGE VALUE.
   4. PRESENT SENSITIVITY SELECTED.
   5. SENSOR RANGE (NORMAL, DIRTY, ETC.).
V. HEAT DETECTORS, GENERAL REQUIREMENTS FOR HEAT DETECTORS: COMPLY WITH UL 521.
W. REMOTE ANNUNCIATOR:
   1. ANNUNCIATOR FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT FOR ALARM, SUPERVISORY, AND TROUBLE INDICATIONS. MANUAL SWITCHING FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT, INCLUDING ACKNOWLEDGING, SILENCING, RESETTING, AND TESTING.
   2. MOUNTING: FLUSH CABINET, NEMA 250, TYPE 1.
   3. DISPLAY TYPE AND FUNCTIONAL PERFORMANCE: ALPHANUMERIC DISPLAY AND LED INDICATING LIGHTS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT. PROVIDE CONTROLS TO ACKNOWLEDGE, SILENCE, RESET, AND TEST FUNCTIONS FOR ALARM, SUPERVISORY, AND TROUBLE SIGNALS.
X. EQUIPMENT INSTALLATION:
   1. COMPLY WITH NFPA 72 FOR INSTALLATION OF FIRE-ALARM EQUIPMENT.
   2. INSTALL WALL-MOUNTED EQUIPMENT, WITH TOPS OF CABINETS NOT MORE THAN 72 INCHES (1830 MM) ABOVE FINISHED FLOOR.
Y. LOCATE DETECTORS NOT CLOSER THAN 3 FEET (1 M) FROM AIR-SUPPLY DIFFUSER OR RETURN-AIR OPENING.
Z. LOCATE DETECTORS NOT CLOSER THAN 12 INCHES (300 MM) FROM ANY PART OF A LIGHTING FIXTURE.
AA. AA. FIRE-ALARM CONTROL UNIT: SURFACE MOUNTED, WITH TOPS OF CABINETS NOT MORE THAN 72 INCHES (1830 MM) ABOVE THE FINISHED FLOOR.
AB. GROUND FIRE-ALARM CONTROL UNIT AND ASSOCIATED CIRCUITS; COMPLY WITH IEEE 1100. INSTALL A GROUND WIRE FROM MAIN SERVICE GROUND TO FIRE-ALARM CONTROL UNIT.
AC. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN OWNER'S MAINTENANCE PERSONNEL TO ADJUST, OPERATE, AND MAINTAIN FIRE-ALARM SYSTEM.

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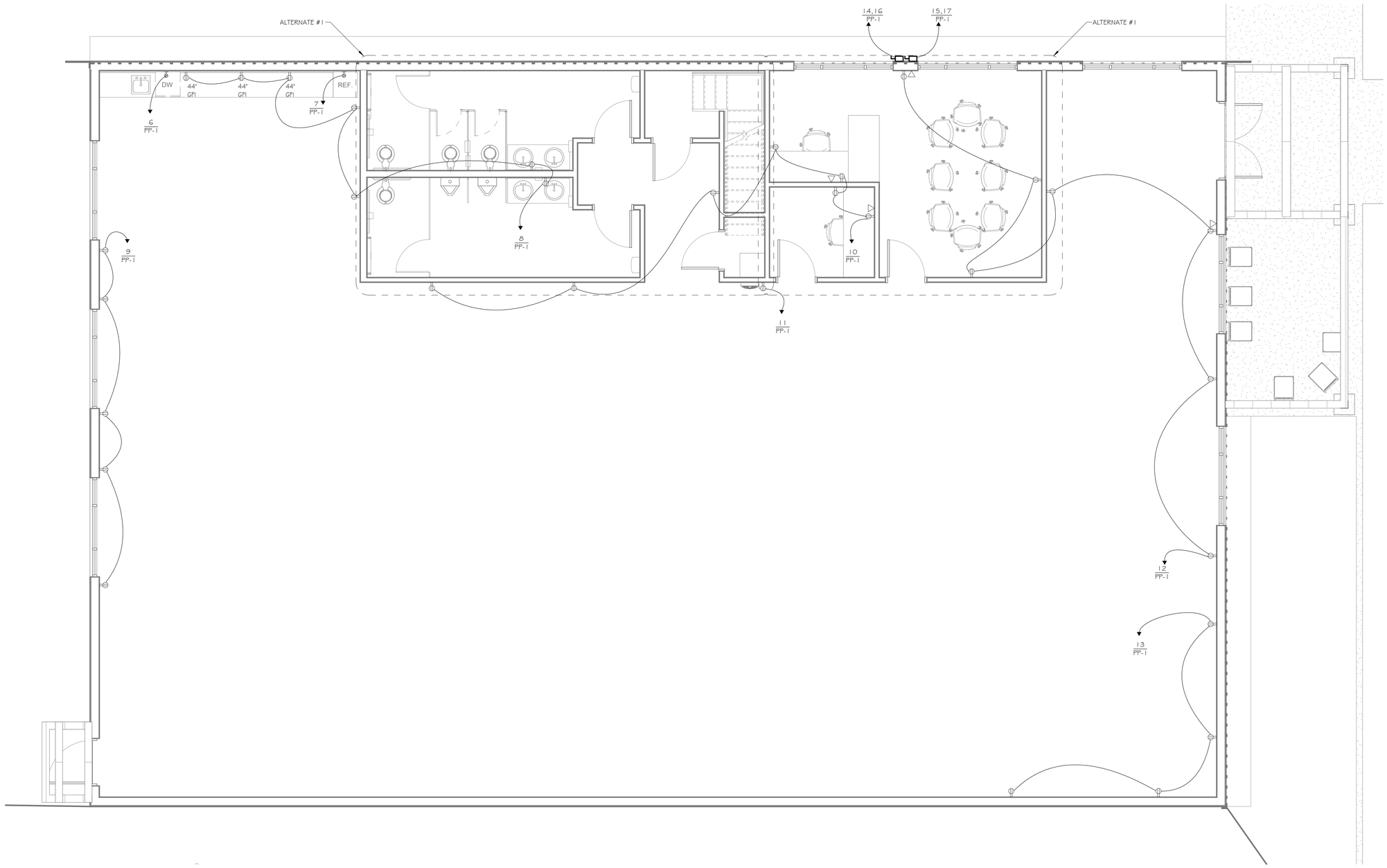
OWNER/CLIENT
FRIENDS OF ELMIRA CIVIL WAR PRISON CAMP

PROJECT
ELMIRA CIVIL WAR PRISON CAMP VISITOR CENTER
637-639 WINSOR AVE
ELMIRA, NY 14901

TITLE OF DRAWING
ELECTRICAL SPECIFICATIONS

DRAWING SCALE
AS NOTED
ISSUE DATE:
11/10/25
PROJECT NO.
25-086
DRAWING NO.
E-1.0



1 FIRST FLOOR POWER PLAN
1/4" = 1'-0"

N

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TITLE OF DRAWING
FIRST FLOOR POWER PLAN

DRAWING SCALE
AS NOTED
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25-086
DRAWING NO.
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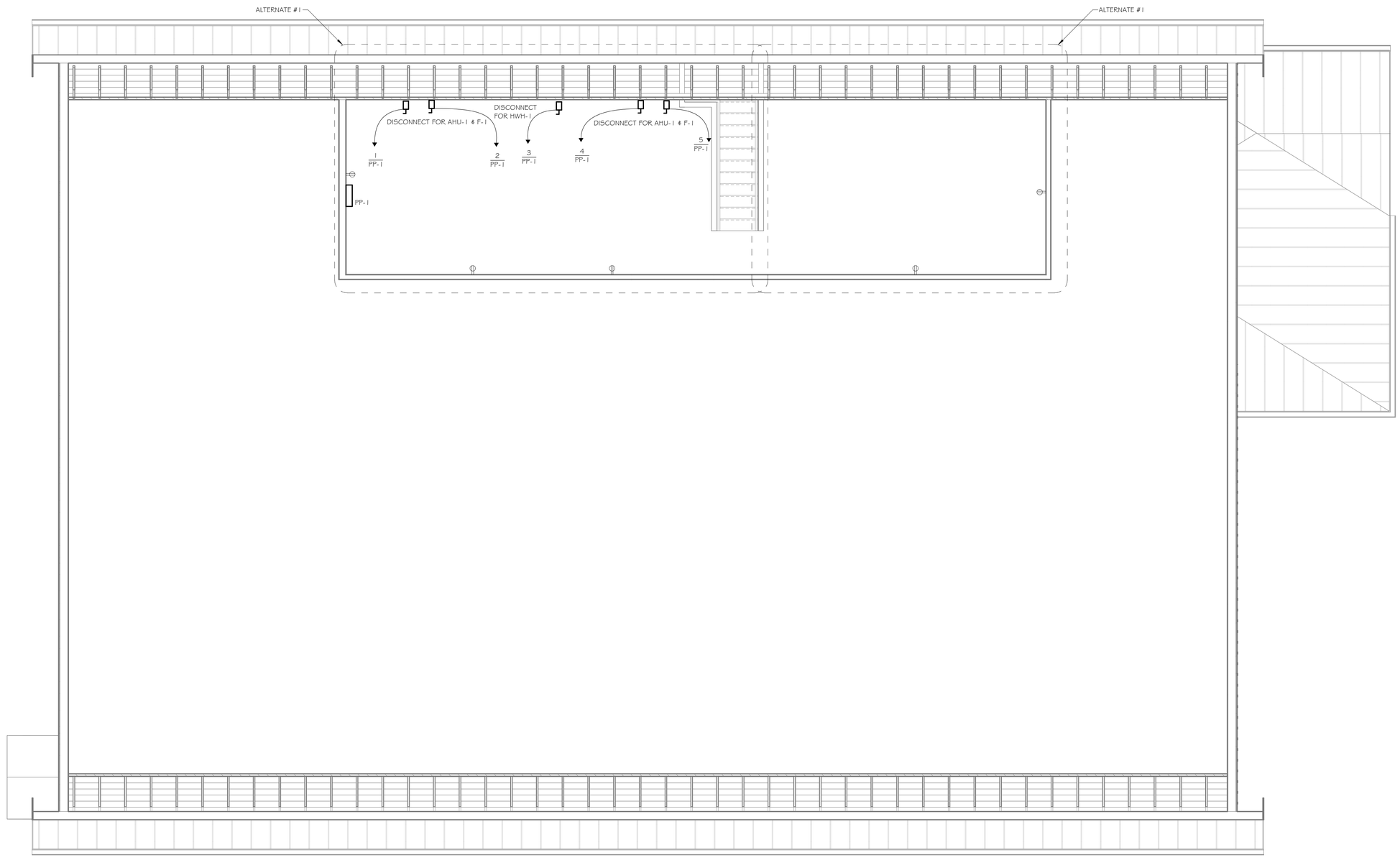

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TITLE OF DRAWING
SECOND FLOOR POWER PLAN

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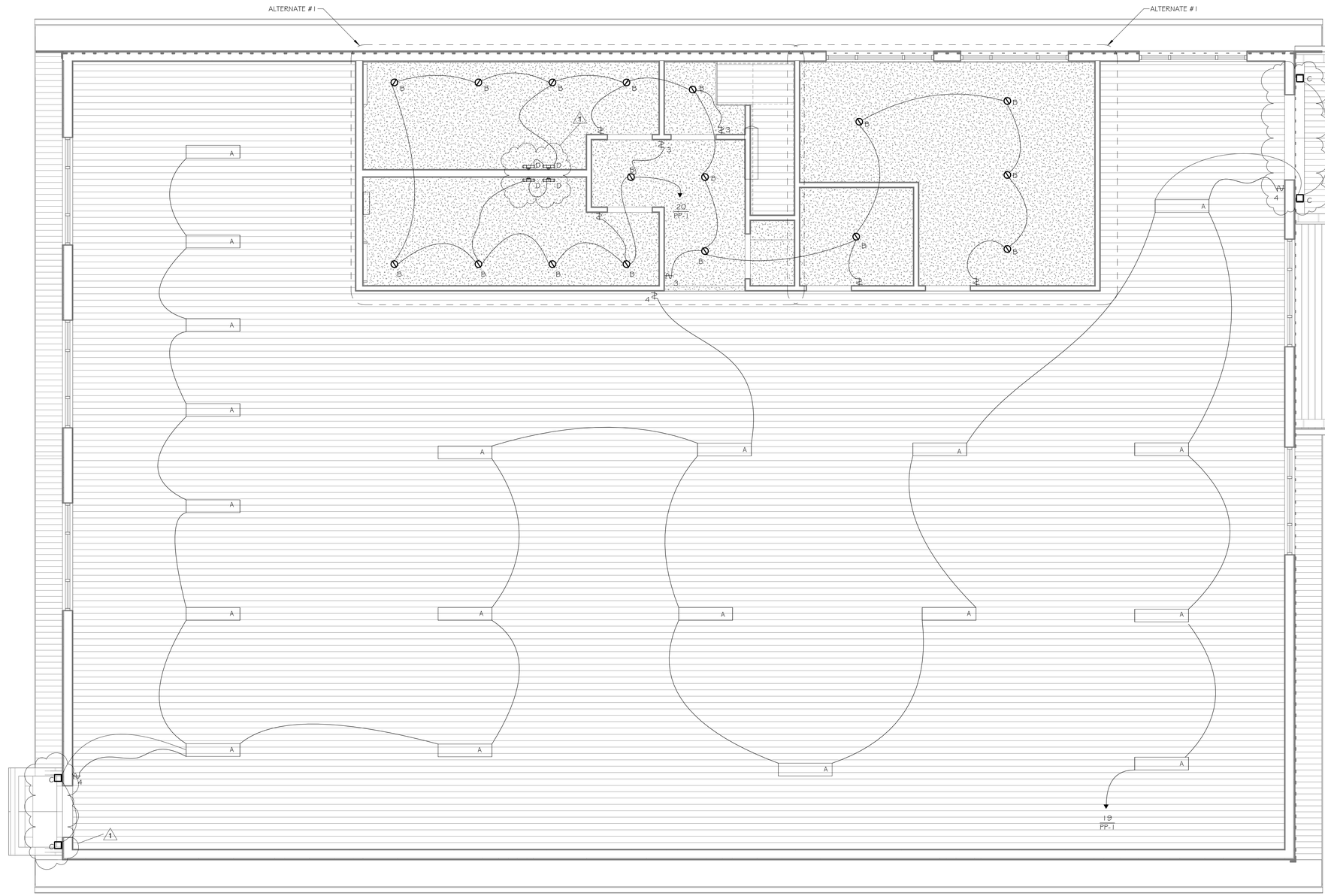

1 FIRST FLOOR LIGHTING PLAN
1/4" = 1'-0"

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TITLE OF DRAWING
FIRST FLOOR LIGHTING PLAN

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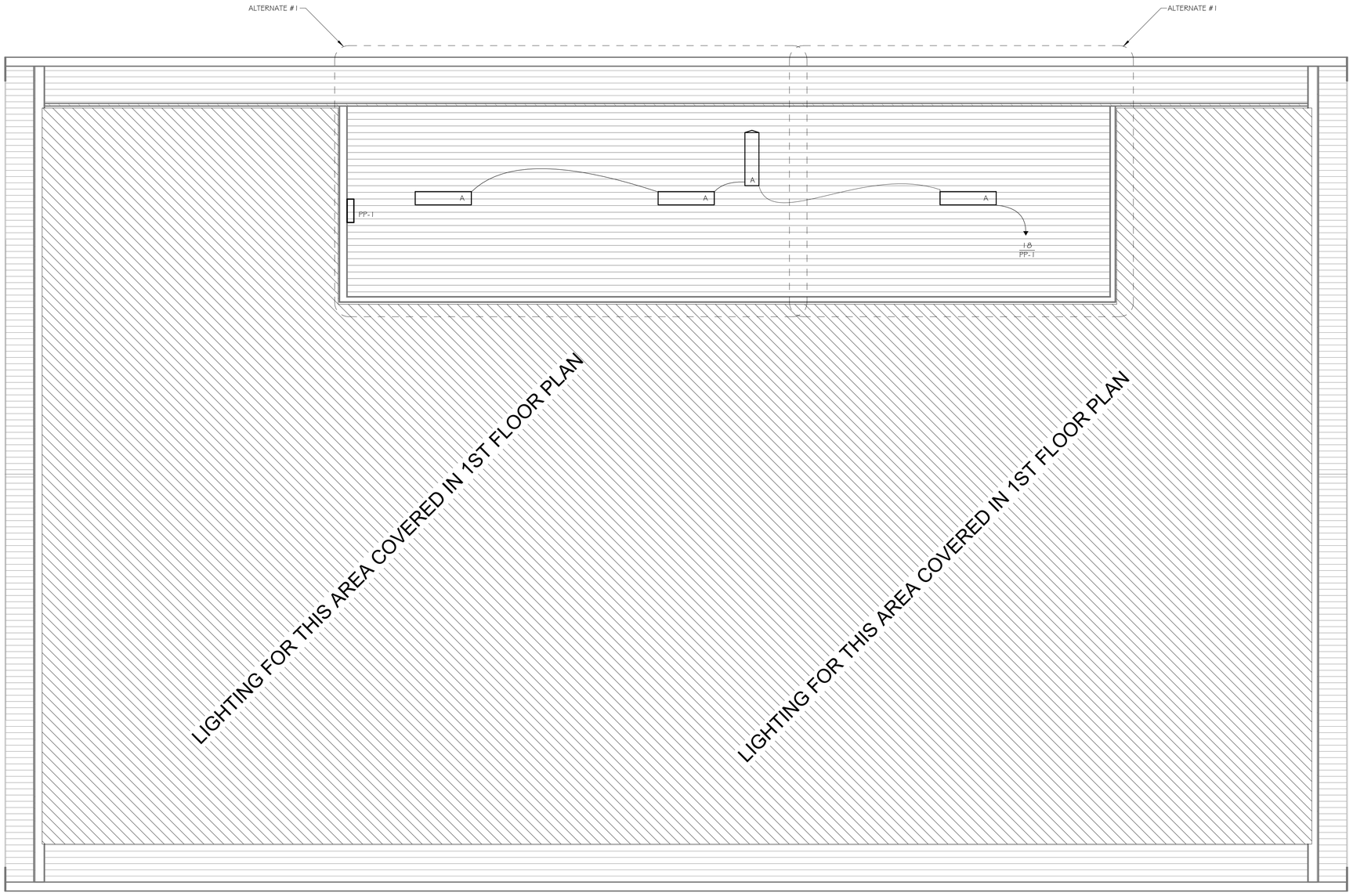

1 SECOND FLOOR LIGHTING PLAN
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LIGHTING FIXTURE SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL #	LAMP	COMMENTS
A	1X4 PENDANT LIGHT	MAXLITE	MLFP14DI3G40ICL	LED	-
B	6" RECESSED CAN LIGHT	ALCON LIGHTING	14008-6	LED	-
C	OUTSIDE SCONCE LIGHT	KICHLER	49126DBK	LED	-
D	BATHROOM SCONCE	PROGRESS LIGHTING	P300332-031-30	LED	-

1

PP-1 PANEL SCHEDULE

DESIGNATION: PP-1
LOCATION: LOFT
FRAME: 200A
MAIN: 200A

AIC: 12,000
SERVICE: 120V/208V
MOUNTING: RECESSED

CIR.	DESIGNATION	AMP	PHASE A	PHASE B	AMP	DESIGNATION	CIR.
1	AHU-1	20			20	F-1	2
3	HWH-3	20			20	AHU-1	4
5	F-1	20			20	DISHWASHER	6
7	REFRIGERATOR	20			20	CAFETERIA COUNTER & BR RECEPTS.	8
9	CAFETERIA RECEPTS.	20			20	HALLWAY AND OFFICE RECEPTS.	10
11	DRINKING FOUNTAIN	20			20	RECEPTION RECEPTS.	12
13	SOUTH EAST ROOM RECEPTS.	20			50	CU-1	14
15	CU-1	50					16
17					20	SECOND FLOOR LIGHTING	18
19	MAIN BUILDING 1X4 LIGHT FIXTURES	20			20	BATHROOM AND OFFICE LIGHTS	20
21		20			20		22
23		20			20		24
25		20			20		26
27		20			20		28
29		20			20		30
31		20			20		32
33		20			20		34
35		20			20		36
37		20			20		38
39		20			20		40
41		20			20		42

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ELECTRICAL SCHEDULES & LEGENDS

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