

# Bid Addendum #1

Date: 3/24/2025  
Attn: All Plan Holders  
Project Name: Town of Lansing - New Highway Department Facility  
Project Address: 10 Town Barn Rd., Lansing, NY 14882  
Project No.: #22007325A

Dear Plan Holders,

The following clarifications and/or revised documents identified below shall amend the Contract Documents and Addendums previously issued for the project noted.

## Attachments

### Specifications

|          |   |
|----------|---|
| 00 01 10 | Table of Contents                         |
| 00 40 40 | Bid Checklist & Required Forms            |
| 01 51 00 | Temporary Facilities                      |
| 08 41 13 | Aluminum Framed Entrances and Storefronts |

### Drawings

|      |                     |
|------|---------------------|
| A201 | Exterior Elevations |
|------|---------------------|

## General Comments

- NA

## Drawing Comments

- 1-01
  - **Delete** drawing A201; Exterior Elevations and **Add** with A201 as included in this addenda.

## Project Manual Comments

- 1-02
  - **Modify** Specification section 002513; Pre-bid Meetings; paragraph 1.1; A; to read Meeting Date: March 26. Time to remain at 2:00PM.
- 1-03
  - **Delete** Specification section 004140 Bid Checklist and Required Forms, **Add** Specification section 004040 as included in this addenda.
- 1-04
  - **Delete** specification section 015100 "Temporary Facilities", **Add** specification section 015100 "Temporary Facilities as included in this addenda.
- 1-05
  - **Delete** specification section 084113 "Aluminum Frames Entrances and Storefronts" , **Add** specification section 084113 as included with this addenda.

Please feel free to contact us with any questions you may have.

Sincerely,

Colliers Engineering & Design, Inc.



Eric Stender

**DIVISION 0 - PROCUREMENT AND CONTRACTING REQUIREMENTS**

|          |                                     |
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| 001100   | ADVERTISEMENT FOR BIDS              |
| 000115   | LIST OF DRAWING SHEETS              |
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| 002600   | PROCUREMENT SUBSTITUTION PROCEDURES |
| 004040   | BID CHECKLIST AND REQUIRED FORMS    |
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| 004120   | PC BID FORM                         |
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| 004313.1 | AIA A310-2010 – BID BOND SAMPLE     |
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| 007200   | GENERAL CONDITIONS (AIA A232)       |
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**DIVISION 1 - GENERAL REQUIREMENTS**

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| 012100 | ALLOWANCES                               |
| 012200 | UNIT PRICES                              |
| 012300 | ALTERNATES                               |
| 012900 | PAYMENT PROCEDURES                       |
| 013100 | PROJECT MANAGEMENT AND COORDINATION      |
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| 014000 | QUALITY REQUIREMENTS                     |
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| 014530 | TESTING LABORATORY SERVICES              |
| 015100 | TEMPORARY FACILITIES                     |
| 017300 | EXECUTION                                |
| 017310 | CUTTING AND PATCHING                     |
| 017700 | PROJECT CLOSEOUT                         |
| 017800 | PROJECT RECORD DOCUMENTS                 |
| 017810 | OPERATIONS AND MAINTENANCE DEMO TRAINING |
| 017820 | WARRANTIES AND GUARANTEES                |
| 018010 | GEOTECHNICAL                             |

**DIVISION 2 – EXISTING CONDITIONS**

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| 023000 | EARTHWORK            |
| 024119 | SELECTIVE DEMOLITION |
| 028213 | ASBESTOS ABATEMENT   |

**DIVISION 3 – CONCRETE**

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032000 CONCRETE REINFORCING  
033000 CAST-IN-PLACE CONCRETE  
033509 CONCRETE CURE AND FINISH SYSTEM

**DIVISION 4 - MASONRY**

042000 UNIT MASONRY

**DIVISION 5 - METALS**

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053100 STEEL DECKING  
055000 METAL FABRICATIONS  
055013 STEEL PIPE BOLLARDS  
055100 METAL STAIRS  
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**DIVISION 6 – WOOD, PLASTICS AND COMPOSITES**

061000 ROUGH CARPENTRY  
064116 PLASTIC LAMINATE CLAD ARCHITECTURAL CABINETS  
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072100 THERMAL INSULATION  
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**DIVISION 9 - FINISHES**

092116 GYPSUM BOARD ASSEMBLIES  
093000 TILING  
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**DIVISION 10 - SPECIALTIES**

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102113 TOILET COMPARTMENTS  
102613 WALL AND DOOR PROTECTION  
102800 TOILET BATH & LAUNDRY ACCESSORIES

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**DIVISION 12 – FURNISHINGS**

122413 ROLLER WINDOW SHADES  
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**DIVISION 14 - CONVEYING EQUIPMENT**

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210529 HANGERS AND SUPPORTS FOR FIRE SUPPRESSION PIPING AND EQUIPMENT  
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220516 EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING  
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220523.14 CHECK VALVES FOR PLUMBING PIPING  
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220719 PLUMBING PIPING INSULATION  
221116 DOMESTIC WATER PIPING  
221119 DOMESTIC WATER PIPING SPECIALTIES  
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221316 SANITARY WASTE AND VENT PIPING  
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221513 GENERAL-SERVICE COMPRESSED AIR PIPING  
221519 GENERAL-SERVICE PACKAGED AIR COMPRESSORS AND RECEIVERS  
221623 NATURAL GAS PIPING  
223300 ELECTRIC, DOMESTIC-WATER HEATERS  
224213.13 COMMERCIAL WATER CLOSETS  
224213.16 COMMERCIAL URINALS  
224216.13 COMMERCIAL LAVATORIES  
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| 230518    | ESCUTCHEONS FOR HVAC PIPING                        |
| 230548.13 | VIBRATION CONTROLS FOR HVAC                        |
| 230529    | HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT |
| 230553    | IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT       |
| 230593    | TESTING, ADJUSTING, AND BALANCING FOR HVAC         |
| 230713    | DUCT INSULATION                                    |
| 230719    | HVAC PIPING INSULATION                             |
| 230923.16 | GAS INSTRUMENTS                                    |
| 230993.11 | SEQUENCE OF OPERATIONS FOR HVAC                    |
| 231323    | INSULATED STEEL ABOVEGROUND FUEL-OIL STORAGE TANKS |
| 232300    | REFRIGERANT PIPING                                 |
| 233113    | METAL DUCTS  |
| 233300    | AIR DUCT ACCESSORIES                               |
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| 233439    | HIGH-VOLUME, LOW-SPEED FANS                        |
| 233713.13 | AIR DIFFUSERS                                      |
| 233713.23 | GRILLES  |
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| 237223.19 | PACKAGED INDOOR FIXED PLATE ENERGY RECOVERY UNITS  |
| 237433    | DEDICATED OUTDOOR-AIR UNITS                        |
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| 260526    | GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS                 |
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| 260544    | SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING |
| 260553    | IDENTIFICATION FOR ELECTRICAL SYSTEMS                        |
| 260913    | ELECTRICAL POWER MONITORING                                  |
| 260923    | LIGHTING CONTROL DEVICES                                     |
| 262213    | LOW-VOLTAGE DISTRIBUTION TRANSFORMERS                        |
| 262413    | SWITCHBOARDS   |
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| 262726    | WIRING DEVICES   |
| 263213.14 | DIESEL EMERGENCY ENGINE GENERATORS                           |
| 263600    | TRANSFER SWITCHES  |
| 264113    | LIGHTNING PROTECTION FOR STRUCTURES                          |
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**DIVISION 28 – ELECTRONIC SAFETY AND SECURITY**

- 280513 CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY
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- 311000 SITE CLEARING
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**DIVISION 32 – EXTERIOR IMPROVEMENTS**

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- 321313 CONCRETE PAVING
- 321723 PAVEMENT MARKINGS
- 329113 SOIL PREPARATION
- 329200 TURFS AND GRASSES

**DIVISION 33 - UTILITIES**

- 331415 WATER PIPING
- 334200 SEWER CONVEYANCE

SECTION  - BID CHECKLIST & REQUIRED FORMS

**Town of Lansing Bid Checklist**

Signed Proposal/bid

All required insurance forms; or a letter of intent from your insurance agent (**Please forward a copy of this proposal/bid to your Insurance Agent to ensure all insurance requirements are/will be met. Certificate Holder should be Town of Lansing, 29 Auburn Road, Lansing, New York 14882.**)

Exhibit A - Non-Collusive Bidding Certification

Exhibit B - Certification regarding Debarment, Suspension and Responsibility

Exhibit C - Certification of Compliance with the Iran Divestment Act

Exhibit D- Certificate Regarding Lobbying

**\*\* This proposal/bid will not be accepted unless all items on the checklist are returned.\*\***



*Exhibit A*

**NON-COLLUSIVE BIDDING CERTIFICATION:**

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

1. The prices in this bid have been arrived at independently without collusion, consultation communication, or agreement for the purpose of restricting competition as to any matter relating to such prices with any other bidder or with any competitor;
2. Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any bidder or to any competitor; and
3. No attempt has been made or will be made by the bidder to induce any other person partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.

The signature of the Bidder to this Bid shall be deemed a specific subscription to the certificate required under Section 103-d of the General Municipal Law of the State of New York, and the Bidder affirms that the statements herein contained are true under the penalties of perjury.

Sincerely Yours,

Bidder: \_\_\_\_\_

By: \_\_\_\_\_  
Signature of Authorized Representative

Title: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Phone Number: \_\_\_\_\_

Date: \_\_\_\_\_

**MUST COMPLETE THIS FORM AND SUBMIT WITH BID**

**Exhibit B**

**CERTIFICATION REGARDING  
DEBARMENT, SUSPENSION, AND RESPONSIBILITY**

The undersigned certified, to the best of his/her knowledge and belief, that the Contractor and its principals:

1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
2. Have not within a three-year period preceding the proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or Local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
3. Are not presently indicted or otherwise criminally or civilly charged by a government entity (Federal, State or Local) with commission of any of the offenses enumerated in paragraph (2) of this certification; and
4. Have not within a three-year period preceding the Agreement had one or more public transactions (Federal, State or Local) terminated for cause or default.

Date: \_\_\_\_\_

\_\_\_\_\_  
Print name of Contractor

By: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

\_\_\_\_\_  
Print Title/Office

**MUST COMPLETE THIS FORM AND SUBMIT WITH BID**

*Exhibit C*

**CERTIFICATION OF COMPLIANCE WITH THE IRAN DIVESTMENT ACT**

As a result of the Iran Divestment Act of 2012 (the "Act"), Chapter 1 of the 2012 Laws of New York, a new provision has been added to State Finance Law (SFL) §165-a and New York General Municipal Law §103-g, both effective April 12, 2012. Under the Act, the Commissioner of the Office of General Services (OGS) will be developing a list of "persons" who are engaged in "investment activities in Iran" (both are defined terms in the law) (the "Prohibited Entities List"). Pursuant to SFL §165-a (3)(b), the initial list is expected to be issued no later than 120 days after the Act's effective date at which time will be posted on the OGS website.

By submitting a bid in response to this solicitation or by assuming the responsibility of a Contract awarded hereunder, each Bidder/Contractor, any person signing on behalf of any Bidder/Contractor and any assignee or subcontractor and, in the case of a joint bid, each party thereto, certifies, under penalty of perjury, that once the Prohibited Entities List is posted on the OGS website, that to the best of its knowledge and belief, that each Bidder/Contractor and any subcontractor or assignee is not identified on the Prohibited Entities List created pursuant to SFL §165-a(3)(b).

Additionally, Bidder/Contractor is advised that once the Prohibited Entities List is posted on the OGS Website, any Bidder/Contractor seeking to renew or extend a Contract or assume the responsibility of a Contract awarded in response to this solicitation must certify at the time of the Contract is renewed, extended or assigned that it is not included on the Prohibited Entities List.

During the term of the Contract, should the County receive information that a Bidder/Contractor is in violation of the above-referenced certification, the County will offer the person or entity an opportunity to respond. If the person or entity fails to demonstrate that he/she/it has ceased engagement in the investment which is in violation of the Act within 90 days after the determination of such violation, then the County shall take such action as may be appropriate including, but not limited to, imposing sanctions, seeking compliance, recovering damages or declaring the Bidder/Contractor in default.

The County reserves the right to reject any bid or request for assignment for a Bidder/Contractor that appears on the Prohibited Entities List prior to the award of a contract and to pursue a responsibility review with respect to any Bidder/Contractor that is awarded a contract and subsequently appears on the Prohibited Entities List.

I, \_\_\_\_\_, being duly sworn, deposes and says that he/she is the \_\_\_\_\_ of the \_\_\_\_\_ Corporation and that neither the Bidder/Contractor nor any proposed subcontractor is identified on the Prohibited Entities List.

\_\_\_\_\_  
SIGNED

Sworn to before me this \_\_\_\_\_  
Day of \_\_\_\_\_, 202\_

\_\_\_\_\_  
Notary Public

**MUST COMPLETE THIS FORM AND SUBMIT WITH BID**

**Exhibit D**

**CERTIFICATION REGARDING LOBBYING**

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No federal appropriated funds have been paid or will be paid, by or on behalf of the Undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
2. If any funds other than federal appropriated funds have been paid or will be paid to any Person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all\* sub-awards at all tiers (including sub-contacts, sub-grants, and Contracts under grants, loans, and cooperative agreements) and that all\* sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

\_\_\_\_\_  
Grantee/Contractor Organization

\_\_\_\_\_  
Program/Title

\_\_\_\_\_  
Name of Certifying Official

\_\_\_\_\_  
Signature

Date: \_\_\_\_\_

**MUST COMPLETE THIS FORM AND SUBMIT WITH BID**

END OF SECTION 004040

## **SECTION 01 51 00 – TEMPORARY FACILITIES**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including Supplemental General Conditions and other Division 1 Specification Sections, apply to this section.
- B. Section 01 10 00 – Summary of Work

#### **1.2 SUMMARY**

- A. This Section includes detailed requirements for temporary facilities and controls, including temporary utilities, support facilities, security and protection.

#### **1.3 QUALITY ASSURANCE**

- A. Regulation: Each Prime Contractor / Subcontractor shall comply with industry standards and with applicable laws and regulations of authorities having jurisdiction including, but not limited to, the following:
  - 1. Building code requirements
  - 2. Health and safety regulations
  - 3. Utility company regulations
  - 4. Police, fire department and rescue squad rules
  - 5. Environmental protection regulations
  - 6. Health Department regulations
- B. Standards: Each Prime Contractor shall comply with NFPA 241 “Standard for Safeguarding Construction, Alterations, and Demolition Operations”, ANSI-A10 series standards for “Safety Requirements for Construction and Demolition”, and NECA Electrical Design Library “Temporary Electrical Facilities”.
  - 1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with the normal application of trade regulations and union jurisdictions.
  - 2. Electrical Service: Comply with NEMA, NECA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
- C. Inspections: Arrange for authorities having jurisdiction to inspect and test each temporary utility before use. Obtain required certifications and permits.

#### **1.4 PROJECT CONDITIONS**

- A. Temporary Utilities: Each Prime Contractor shall prepare a schedule indicating dates for implementation and termination of each temporary utility for which the Prime Contractor is responsible. At the earliest feasible time or unless otherwise noted, when acceptable to the Owner, change over from use of temporary service to use of permanent service.

## SECTION 01 51 00 – TEMPORARY FACILITIES

### 1.5 DESCRIPTION

- A. Description: Each contractor shall provide its own temporary facilities unless noted otherwise. Including storage and office trailers, power, telephone, and all costs associated thereof.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. General: Each Prime Contractor shall provide new materials. If acceptable to the Architect, undamaged, previously used materials in serviceable condition may be used. Provide materials suitable for use intended.
- B. Temporary Containment Partitions
1. Nominal 3-5/8" – 25 gage metal stud.
  2. Batt insulation.
  3. Type X 5/8" fire rated gypsum wallboard with taped joints on both sides.
  4. 1/2" fire rated plywood liner on the demolition side.
  5. In lieu of 5/8" GWBX and 1/2" FRT plywood, Contractor may substitute one layer of 5/8" U.S. Gypsum Fiberock abuse-resistant type X gypsum wallboard on demolition side.
  6. Containment partitions are to have a 6-mil flame retardant polyethylene liner.
  7. Paint occupied side of partition: 1 coat primer, 1 coat paint.
- C. Lumber and Plywood: Comply with requirements as outlined in the Specifications.
1. For fences and vision barriers, provide minimum 3/8 inch (9.5 mm) thick exterior plywood.
  2. For safety barriers, temporary exit ramps, temporary entrances, and similar uses, provide minimum 5/8 inch (16 mm) thick exterior plywood.
- D. Paint: Comply with requirements as outlined in the Specifications.
1. For job-built sheds, fences, and other exposed lumber and plywood, provide exterior-grade acrylic-latex emulsion over exterior prime.
  2. For sign panels and applied graphics, provide exterior-grade alkyd gloss enamel over exterior primer.
  3. For interior walls of temporary offices, provide two (2) coats interior latex-flat wall paint.
- E. Tarpaulins: Provide waterproof, fire-resistant, UL-labeled tarpaulins with flame-spread rating of 15 or less. For temporary enclosures, provide translucent, nylon-reinforced, laminated polyethylene or polyvinyl chloride, fire-retardant tarpaulins.
- F. Water: Provide potable water approved by local health authorities.

## SECTION 01 51 00 – TEMPORARY FACILITIES

### 2.2 EQUIPMENT

- A. Water Hoses: Provide 3/4 inch (19 mm) heavy-duty, abrasion-resistant, flexible rubber hoses 100 feet (30 m) long, with pressure rating greater than the maximum pressure of the water distribution system. Provide adjustable shutoff nozzles a hose discharge.
- B. Electrical Outlets: Provide properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher voltage outlets. Provide receptacle outlets equipped with ground-fault circuit interrupters, reset button, and pilot light for connection of power tools and equipment.
- C. Electrical Power Cords: Provide grounded extension cords. Use hard-service cords where exposed to abrasion and traffic. Provide waterproof connectors to connect separate lengths of electric cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
- D. Lamps and Light Fixtures: Provide general service 26-watt compact fluorescent lamps required for adequate illumination. Provide guard cages or tempered-glass enclosures, where exposed to breakage. Provide exterior fixtures where exposed to moisture.
- E. Heating Units: Provide temporary heating units that have been tested and labeled by UL, FM, or another recognized Trade association related to the type of fuel being consumed.
- F. Fire Extinguishers: Provide hand-carried, portable, UL-rated, Class A fire extinguishers for temporary offices and similar spaces. In other locations, provide hand-carried, portable, UL-rated, Class ABC, dry-chemical extinguishers or a combination of extinguishers of NFPA-recommended classes for the exposures.
  - 1. Comply with NFPA 10 and NFPA 241 for classification, extinguishing agent, and size required by location and class of fire exposure.
  - 2. U.L. Labeled with current inspection tags affixed.

## PART 3 - FACILITIES

### 3.1 TEMPORARY SANITARY FACILITIES / BREAK FACILITIES

- A. The General Construction Contractor will provide portable toilets as noted below:
  - 1. Furnish chemical toilets per OSHA 1926.51.C with hand washing facilities at the site for ALL Contractors, Subcontractors, etc. working at the site for the duration of the project. Maintain in a sanitary and clean condition at all times.
  - 2. Toilets shall be maintained, located and removed as directed. Contents shall be removed and disposed of in a manner and at such intervals as necessary to maintain sanitary conditions; at minimum, weekly.
- B. Each Prime Contractor shall provide appropriate break facilities for the workers in their employ. Facilities shall be provided where PPE does not need to be worn. These break

## SECTION 01 51 00 – TEMPORARY FACILITIES

facilities shall include appropriate changing facilities. These areas shall be heated or cooled as necessary, include an appropriate number of lockers, tables and chairs and be separated from work or storage areas. The cleaning of these facilities shall be the responsibility of the contractor.

### 3.2 TEMPORARY WATER

- A. Drinking Water: Each Contractor will provide potable water for drinking purposes for its own personnel on the site. This will be accomplished through the use of portable water containers. Furnish disposable drinking cups and receptacles to collect used drinking cups within the general location of the portable water container.
- B. Construction Water: Until such time, the Plumbing Contractor makes temporary construction water available, each Contractor needs to bring in water from an offsite source to support their construction operations at no additional cost to the Owner. This would include all concrete and masonry operations, all paving operations, the testing of sanitary and storm water piping systems, and the irrigation of grass areas. In no way shall the limitations stated above be construed to negate the Contractor's responsibility to provide the water required for various construction operations. It is the intent to use water from the Owner's domestic water system to test and fill any potable water system or to test and fill any mechanical hot water heating system, if the water is available from the Owner's domestic water system.

### 3.3 SNOW AND ICE REMOVAL

- A. The General Construction Contractor shall provide snow and ice removal of project road and work areas, parking areas, and maintain safe access to the construction site including all emergency egress pathways. Any snow accumulation of 3" or more shall be removed. Any ice conditions shall be sanded or removed to maintain safe passage into the construction areas.
- B. The General Construction Contractor shall provide all snow and ice removal off roof areas for installation of roofing work.

### 3.4 SITE LOGISTICS

- A. The General Construction Contractor shall provide and maintain the following in accordance with the Site Logistics and Phasing plan:
  - 1. Temporary Construction Fencing
  - 2. Temporary Concrete Barrier with Fence.
  - 3. Construction lay down area and parking area
  - 4. Temporary access roadways and construction entrances
  - 5. Protection of existing trees, bushes, and site amenities
- B. Each Contractor must plan, provide and maintain his own access, ramping, and egress as required into and out of the site, staging of trailer(s), materials, machinery, and equipment in agreement with the Construction Manager. Contractor shall maintain free and safe access on the jobsite for other related project personnel.



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- C. The General Construction Contractor shall maintain all temporary construction parking areas, temporary access roads and fences for the duration of the project. At the end of construction, the General Construction Contractor shall remove temporary fencing, temporary access roads, and stone and be responsible to repave, re-grade and seed existing areas disturbed as required to return the area to its original or specified condition.

### 3.5 DUMPSTERS AND RUBBISH CONTAINERS

- A. All dumpsters are to be tarped or covered and protected from wind and weather.
- B. The General Construction Contractor shall provide multiple dumpsters for all trades, for the duration of the project.
  - 1. All Contractors are to participate in placing recyclable items in the correct dumpsters as directed by the dumpsters suppliers' guide lines and any local or state laws which govern recycling. The General Construction Contractor shall clearly indicate to other trades what materials are to be placed in which dumpster to conform with recycling requirements. The other trades that are to use the dumpsters provided by the General Construction Contractor shall comply with the directions of the General Construction Contractor as to "crush" and condense debris placed in these dumpsters. This includes, but is not limited to, ductwork removed by the Mechanical (HVAC) Contractor and empty boxes of any trades. Nothing in this specification shall relieve each Contractor from cleaning up their own debris and delivering debris to the proper dumpster.
  - 2. The placement of any dumpster on the project sites shall be coordinated with other trades. The General Construction Contractor shall be responsible for the emptying and removal of the dumpsters they are providing, including all tipping fees.
  - 3. Reference Specification Section 01 74 19.
- C. The General Construction Contractor's Asbestos Abatement subcontractor shall provide required dumpsters relative to their scope of work.
- D. The General Construction Contractor shall provide all required dumpsters relative to their scope of work for excess roofing materials. Include emptying, removal and all tipping fees.
- E. The General Construction Contractor shall provide site and interior trash receptacles for daily clean up and collection of trash and debris. Provide separate receptacles for rubbish and recyclables. All trades are responsible for emptying these containers, daily into dumpsters with the labor supplied for daily clean up requirements.

### 3.6 DEWATERING

- A. The General Construction Contractor shall provide temporary dewatering sump pits for the removal of water from the project site to facilitate the removal and discharge of sediment-laden water from an excavated area, construction site or sediment basin.

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- B. Dewatering sump pits shall properly remove suspended sediments and water from excavated areas through filtration and/or settlement prior to discharging water to a receiving water course or body. Dewatering operations performed by the General Construction Contractor shall comply with New York State Department of Conservation requirements.
- C. Dewatering sump pits shall consist of the following:
  - 1. Removable Pumping Stations
  - 2. Suction hoses
  - 3. 12” – 36” Perforated Corrugated Metal or PVC standpipe wrapped in geotextile filtration fabric. Depth of standpipe will vary due to water level and will need to extend 12” to 18” above the top of the pit. Standpipe shall be fitted with a watertight cap or plate at the bottom of the standpipe.
  - 4. 12” base of clean stone beneath standpipe. Fill standpipe with NYS DOT Item 304-2.02, Type for per Specification Section 32 23 23.
  - 5. Pit dimensions are variable, with the minimum diameter being 2 times the standpipe diameter.
  - 6. Sediment Tank / Silt Control Bags.
  - 7. Maintenance of the system.

### 3.7 TEMPORARY BUILDING ENCLOSURES

- D. The General Construction Contractor shall provide insulated temporary weather / air tight / dust / acoustic enclosures at all openings through the building envelop and shall maintain these enclosures until the opening is used for its intended function. In all cases where temporary enclosures are required the following shall apply:
  - 1. The Contractor who is responsible to provide the temporary enclosure as stated above, shall submit to the Architect an outline how this temporary enclosure is going to evolve. This submission should be detailed, including the materials that are going to be used in the temporary enclosure. These materials shall be of the type that does not promote the spread of flames and smoke in the case of a fire. Only materials approved by the Architect shall be used. All temporary enclosures are required to be insulated to conserve energy to temporarily heat the temporary enclosure.
  - 2. The Contractor responsible for the temporary enclosure shall provide temporary doors in the exterior building enclosure as required. Install approved material to act as framing at all four sides of each door. Provide hardware for the doors as required. Provide automatic door closers on all such doors. Door hardware shall include the hinges and a panic type latching device which will allow emergency exiting from the structure, but would limit entry to the structure from the outside without a key to gain entry. Provide keys to the Owner and to other Contractors. Single doors shall be a minimum of 36” wide and double doors are to be a minimum of 44” wide. Coordinate with other trades on the size of the door required. Weather strip all openings and provide door sweeps on all doors.
- E. The General Construction Contractor shall by August 1<sup>st</sup>, prior to each heating season, provide a temporary enclosure plan in writing, along with any sketches that will accurately describe their proposal of how they are going to enclose renovation areas in order to maintain weather tightness and minimize heat loss. This plan shall be submitted to review it with the

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Owner, Architect, and Engineer. Approval of this plan does not relieve the General Construction Contractor from providing and maintaining the temporary enclosures as indicated in this section.

- F. Each Contractor is responsible to provide a fully secured insulated weathertight temporary plywood protection for all openings created by the respective Contractor creating the penetration for installation of their work.

#### **3.7 TEMPORARY CONTAINMENT PARTITIONS**

- A. The General Construction Contractor shall provide all temporary containment partitions if needed.
- B. Seal all joints, door penetrations and the perimeter of the temporary containment partition.
- C. Provide temporary doors and emergency exit windows in the containment partitions as required. Install approved materials to act as framing at all four sides of each door and window. Provide hardware for the doors and windows as required. Provide automatic closures, weather stripping, and sweeps on all such doors. Where partitions enclose exit passages, provide rated partition construction with panic devices at self-closing rated doors.

#### **3.8 TEMPORARY FIRE PROTECTION**

- A. The General Construction Contractor shall provide and maintain portable fire extinguishers on each floor level and building area in accordance with OSHA requirements (1926-150).
- B. Each contractor performing “Hot Work” is required to provide their own fire extinguishers.
- C. Each contractor shall provide fire extinguishers at their jobsite trailer / equipment, toolbox locations, and stairways.

#### **3.9 TEMPORARY FENCING, BARRICADING**

- A. Each Contractor shall provide and maintain temporary fencing, covers and barricading as required to keep unauthorized persons away from excavations and hazardous areas for which contractor is responsible. The Contractor(s) shall provide protection, which is acceptable to Construction Manager, and/or as specified in the Specifications and which meet or exceed current OSHA Requirements. Relocate all items as needed.
- B. Any contractor that creates or contributes to an unsafe condition, such as, but not limited to, a fall hazard shall correct the hazard immediately.
- C. Each Contractor who requires temporary or permanent removal of perimeter and opening protection to perform their own work, shall remove and replace such protection promptly prior to leaving the area. Protection permanently removed shall be returned to the Contractor who provided the protection. Contractor shall not allow openings or edges to be unguarded or unprotected at any time, i.e. slab openings, trenches, elevator shafts, duct chases, stairwells, slab edges, etc.

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- D. The General Construction Contractor shall provide and maintain a galvanized chain link fence, six (6') foot high with lockable gates (vehicle and man) to serve as the temporary construction fence and Contractor lay down areas. The General Construction Contractor shall remove or relocate the fence as needed.
- E. All other fencing shall be plastic orange construction fence.
- F. When required for safety, each Contractor shall provide and maintain fences at its own expense, along the roadways and around the grounds for the protection of adjoining property and all persons lawfully using same.

**3.10 CONSTRUCTION SIGNS**

- A. Each Contractor is required to provide all required construction site signage for traffic, safety and directions as it pertains to their scope of work. Provide all required temporary traffic controls as required to facilitate the project. This includes warning signs, traffic signs, barrier, warning lights, etc.
- B. The General Construction Contractor is required to provide all dual language safety signage with pictorial and verbal identification. Signage should include but is not limited to Caution, Danger and Warning signs for entry, hardhat requirements, interior emergency egress signage, visitors must report to the office trailer prior to entrance, etc. This signage excludes the main project sign.
- C. Contractor shall provide, move, remove, and maintain all signs.

**3.11 MAINTENANCE AND PROTECTION OF VEHICULAR AND PEDESTRIAN TRAFFIC**

- A. Each Contractor shall provide and maintain adequate traffic controls in areas impacting routine vehicular and pedestrian traffic patterns, including temporary lane closures, for the duration of the project. Each Contractor is responsible to ensure the safe and convenient passage of Owner's staff, motorists, pedestrians, adjacent property Owners', and Contractor's employees.
  - 1. Construction traffic shall not be permitted on Owner driveways or staff/patron parking areas unless authorized by the Construction Manager and Owner.
  - 2. Traffic shall be maintained over a reasonably smooth traveled surface which shall be so marked by signs, delineators, guide devices, barriers, pavement markings and other methods that a person who has no knowledge of conditions may safely and with a minimum of discomfort and inconvenience ride, drive, or walk, day or night, over all or any portion of the work under construction where traffic is to be maintained. Installation, moving, and removing of any such delineators or guiding devices shall be included.
    - a. All reflective delineators, markers, or barriers shall be provided as specified in the New York State Manual of Uniform Traffic Control Devices.
  - 3. Schedule and coordinate work to minimize the impact that removal of existing concrete, pavements and / or facilities shall have on Owner and public.

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- B. Each Contractor shall repair any damage to concrete and pavements caused by construction operations and the installation of temporary signs, railings, etc. necessary for the maintenance and protection of traffic.
- C. Each Contractor shall employ a sufficient number of competent flagmen and/or temporary traffic lights to ensure safe passage of vehicular, equipment, and pedestrian traffic. Flagmen shall wear approved safety equipment and vests in conformance with the New York State Manual of Uniform Traffic Control Devices.
- D. The General Construction Contractor shall provide temporary markings approved in the event that permanent markings may not be installed. In order not to inhibit bonding of permanent pavement markings, said locations shall be offset an appropriate distance from the location of permanent pavement markings.
- E. Existing signs, markers, and delineators lost or damaged because of negligence on the part of the Contractor shall be replaced at the Contractor's expense.
- F. The General Construction Contractor shall provide all street sweeping and / or clean up as required of roads, parking lots, and entrances to remove construction related dirt and debris on a daily basis.
- G. Any vehicle leaving the jobsite that provides materials or manpower, shall be water washed or shall utilize a "vehicle tracking Pad" prior to entry on access roads or public streets to remove mud and concrete from wheels and undercarriages. The General Construction Contractor to provide garden hose and nozzle at location. Washing waste must not be directed to storm drains. All surface water outside the jobsite affected by contractors' activities must be filtered using sediment control fabric to prevent the streets from being muddy. A "vehicle tracking Pad" is an option to the water wash station. Contractor providing vehicle tracking pad shall provide, complete, all maintenance and removal of vehicle tracking pad.

**3.12 DUST AND EROSION PROTECTION**

- A. All Contractors are required to erect and maintain dust and erosion protection whenever operations will produce unreasonable amounts of dust, dirt, or erosion.
- B. Dusty conditions resulting from Contractor's operations shall be corrected by the use of water, or other methods approved by Architect. Water used as a dust palliative shall be distributed uniformly over a minimum width of eight feet by the use of suitable spray heads or spray bar.
- C. Contractor shall devote particular attention to all new and existing drainage facilities, keeping them fully operative at all times. Ditches shall be provided at all times, even during grading operations, to adequately drain the traveled way and the remainder of the right-of-way areas.

**3.13 TEMPORARY STORAGE**

- A. Storage space is limited and will be permitted only in areas designated in advance.

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- B. Each Contractor is responsible for protection of their own stored materials, both interior and exterior. This includes removal and / or protection from snow, ice, rain, dirt, or other damage. All construction materials shall be stored in a safe and secure manner. Contractor shall assume full responsibility for the protection and safekeeping of products under this Contract stored on the site and shall cooperate with all trades to ensure security for the Owner's property. Fences around construction supplies or debris shall be maintained. Gates shall always be locked unless worker is in attendance to prevent unauthorized entry.
- C. Each Contractor shall obtain and pay for the use of additional storage or work areas needed for their operations.

### 3.14 TEMPORARY CLIMATE CONTROL

- A. Within 45 days of Contract award, the General Contractor shall submit to the Construction Manager for approval a plan describing proposed system including distribution for construction areas and/or occupied areas. Plan shall include sketches and proposed equipment for the following:
  - 1. Temporary heating
  - 2. Temporary ventilation and exhaust
  - 3. Temporary humidity control
- B. All equipment (existing, temporary, or new) shall be protected from construction dust by the means of a filtration media with a Minimum Efficiency Reporting Value (MERV) of eight (8). These filters shall be changed at a minimum of once a month. Mechanical (HVAC) Contractor shall provide one (1) set of clean filters just prior to final occupancy.
- C. All Contractors are responsible to provide any additional temporary construction heat required for construction operations related to their scope of work. This would include but not limited to additional temporary heat to supplement the temporary heat described below. The General Construction Contractor shall provide temporary heat equipment and enclosures for all concrete work, masonry work, all exterior wall construction systems and finishes at their own expense.
  - 1. Other than the fuel costs identified as base bid, the General Construction Contractor will be compensated for true fuel costs beyond the quantity identified in the base bid per unit price for cold weather masonry construction. Enclosures and heating equipment for cold weather masonry construction is to be performed by the General Construction Contractor as part of the base bid.
- D. New Construction
  - 1. Temporary Heat:
    - a. The General Construction Contractor shall provide temporary building enclosure and temporary heat from: October 15, 2025, through April 30, 2026 or until permanent enclosure for the building is achieved as determined in consultation with Construction Manager.
      - i. Provide gas / propane fired heaters, inline blowers as required, including hoses and/or temporary piping, hook-ups, maintenance, service, removal and cost of fuel. Units are to be sized to maintain the

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temperature within the temporary enclosure between 55 and 60 degrees Fahrenheit.

- ii. Create and maintain a temporary heat and humidity log in a format acceptable for all trades. Temperatures and humidity levels shall be taken at a minimum of twice daily; in the early morning and late afternoon. These reports shall be submitted with the Contractor's daily work reports.
2. Temporary Ventilation and Exhaust:
    - a. The General Contractor shall provide portable high-performance fans for work areas.
    - b. Size temporary air systems to supply a minimum of one complete air change every 120 minutes.

### 3.15 TEMPORARY COVERED WALKWAYS

- A. The General Construction Contractor shall provide, maintain, repair, relocate, and remove temporary non-tubular scaffold type covered walkways at points of entry and egress as directed. Roof shall be covered with waterproof material where exposed to weather. Enclose sides of walkways with adequate materials where exposed to construction activities. Coordinate locations of walkways with all other trades and relocate as required.

### 3.16 TEMPORARY STAIRS AND RAILINGS

- A. The General Construction Contractor shall provide, maintain and eventually remove all temporary stairs, ramps, railings, and platforms, at all exterior exits to maintain emergency egress.
- B. The General Construction Contractor shall provide temporary guardrails and toe boards at all leading-edge conditions.

### 3.18 TEMPORARY POWER AND LIGHTING

- A. The Electrical Contractor shall provide and maintain up to two (2) 200A (120/208V) - temporary electrical service throughout all areas of the project during the entire construction phase for use by all Trade Contractors. All costs associated with utility usage shall be the responsibility of the Electrical Contractor. Provide temporary construction power for building areas utilizing temporary power distribution panels centrally located for all Trade Contractors use.
  1. Provide all conduit, wire, transformers, panelboards, circuit breakers, etc. necessary to establish and maintain temporary electrical services. Coordinate the locations to minimize the need to relocate temporary panels. All costs associated with relocation are included in the base bid.
  2. All temporary power distribution equipment shall utilize lockable covers, handles, or branch devices.
  3. Include temporary power connections for mason's wet saw(s), temporary sump pumps, and fire proofing equipment, as required.
  4. No connections of electric welders to any building services shall be permitted.

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5. Each Contractor must supply drop cords, extensions and ground fault interrupters for their own work.
- B. The Electrical Contractor shall provide, maintain, and remove all temporary lighting throughout all areas of the project during the entire construction phase for use by all Trade Contractors.
1. Lighting should be in accordance with OSHA minimum requirements.
  2. Temporary light bulbs and any damaged temporary lights shall be replaced on a daily basis.
  3. Install temporary site security related lighting at the enclosed construction laydown, perimeter building lighting, and office trailer area. Maintain existing building mounted, exterior lighting that may be disrupted during the course of the project.
  4. Provide illuminated “Exit” signs and emergency lighting at all exits and stairways to maintain identification of exit routes within, around, and / or through the work area.
  5. Provide temporary lighting for all stairways and covered walkways, as required.
  6. Special temporary lighting such as for painting or other operations, which require more than the standard temporary overhead lighting, shall be the responsibility of the Contractor requiring the same.
  7. Provide temporary pole mounted security lighting at construction field offices and remove at end of project.
- C. The Electrical Contractor shall provide all temporary electrical connections to all existing, temporary and new heating units that the Contractor will be using to provide temporary heat and to any temporary or permanently installed equipment or systems installed by other Prime Contractors.
- D. The Electrical Contractor shall provide self regulating heat trace on a dedicated circuit to protect the temporary water system, as required.
- E. The Electrical Contractor shall provide temporary Internet Service to the Construction Manager’s on-site field office.
- 1) Provide and install High Speed Broadband Internet Service (Spectrum Business Class or equal) to office. Electrical Contractor shall pay for set-up all monthly fees throughout the duration of the project.
  - 2) Provide (4) CAT5E data locations from Spectrum service to locations designated. Scope shall include access, supply, connection and all associated monthly charges for the duration of the project.
- F. Construction Laydown / Staging Areas: Make application and all arrangements with the local utility company required for the installation of a 200 ampere, three wire 120/208 volt temporary service to the property for use during the construction stage of the project for the field offices. Provide main disconnect switch and main load center in a locked weatherproof enclosure, and all necessary poles, supports, guy wires, service drops, properly installed and supported clear of construction equipment and traffic. Service shall include temporary connection to the existing transformer, temporary service run, installation of utility pole with load center mounted on it. Begin work immediately upon Contract award.



## SECTION 01 51 00 – TEMPORARY FACILITIES

- G. Electrical Contractor has the option to install this temporary service above ground on poles or underground encased in PVC conduit. The Electrical Contractor shall pay for all costs associated for this temporary power as part of the Base Bid, including disconnect switches, panels, poles, wires, conduit, transformer as sized by local utility, etc. as well as any associated site work involved for the underground option.
- H. Overhead wires shall be a minimum height of 18 feet above the finish grade at their lowest point with shielding over areas of vehicular access or provide underground conduit and wiring.
- I. The Electrical Contractor shall remove all temporary electrical services, materials, equipment, poles, etc. at the end of the project or as and when directed by the Construction Manager. Return all circuitry and other conditions to their original conditions and location prior to the start of the project.
- J. Comply with the National Electrical Code, OSHA and applicable local codes and utility regulations.
- K. Do not overload circuits. Verify capacity of circuit prior to use. All receptacles to be GFCI protected.
- L. No temporary power will be supplied for construction trailers or other temporary structures that the contractor(s) require at any of the project sites unless specifically indicated.
- M. Each Contractor shall provide their own temporary power and lighting prior to the installation of the temporary electrical service and / or to areas of the site that electrical power does not exist.

### 3.20 TEMPORARY CONSTRUCTION MANAGER ON-SITE OFFICE

- A. In accordance with Division 01 – TEMPORARY FACILITIES AND CONTROLS, the General Construction Contractor (GC-1) shall provide all items related or listed in this section and all items listed below.
  - 1. Temporary Office for Construction Manager:
    - a. Lease and provide service warranty for duration of the project, one (1) Xerox copier or equivalent with ability to print, scan, email, sort, collate, reduce and enlarge. Must handle paper up to 11x17 and be capable of making double-sided copies. Coper shall have Bluetooth / wireless capabilities including set up of the copier to the network provided on site.
    - b. Provide and install two (2) type 15# ABC type fire extinguishers with wall mounts.
    - c. Two (2) swivel type, adjustable office desk chairs, equal to HON model number 2072BW19T.

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- d. Provide one (1) Water Cooler (Hot & Cold), with scheduled water and cups delivery as required for the duration of the project, until the project is closed out.
- e. Provide weekly independent janitorial services for the Construction Manager's temporary office.
  - i. This will include but not be limited to general dusting, emptying of trash cans, disposal of trash, vacuuming and sweeping of floors.

**PART 4 - EXECUTION**

**4.1 GENERAL**

- A. Temporary facilities shall be installed in accordance with applicable codes.
- B. Maintain temporary facilities throughout the construction period.
- C. Contractor installing temporary facilities shall be responsible to remove them when they are no longer required.
- D. Repair damage to the project site caused by the installation of temporary facilities.
- E. Any temporary protection that is removed by a Trade Contractor in order to undertake and / or complete their work shall be reinstalled in its original form following the completion of the Work.

**4.2 INSTALLATION**

- A. Use qualified personnel for installation of temporary facilities. Locate facilities where they will serve the Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required.
- B. Each Prime Contractor shall provide facility ready for use when needed to avoid delay. Maintain and modify as required. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

**END OF SECTION 01 51 00 – TEMPORARY FACILITIES**

## PART 1 - GENERAL

### 1.1 SUMMARY

#### A. Section Includes:

1. Aluminum-framed storefront systems.
2. Aluminum-framed entrance door systems.

### 1.2 PREINSTALLATION MEETINGS

#### A. Preinstallation Conference: Conduct conference at Project site.

1. Contractor, Owner's rep, Construction Manager, Architect.

### 1.3 ACTION SUBMITTALS

#### A. Product Data: For each type of product.

1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

#### B. Shop Drawings: For aluminum-framed entrances and storefronts. Include plans, elevations, sections, full-size details, and attachments to other work.

1. Include details of provisions for assembly expansion and contraction and for draining moisture occurring within the assembly to the exterior.
2. Include full-size isometric details of each type of vertical-to-horizontal intersection of aluminum-framed entrances and storefronts, showing the following:
  - a. Joinery, including concealed welds.
  - b. Anchorage.
  - c. Expansion provisions.
  - d. Glazing.
  - e. Flashing and drainage.
3. Show connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
4. Include point-to-point wiring diagrams showing the following:
  - a. Power requirements for each electrically operated door hardware.
  - b. Location and types of switches, signal device, conduit sizes, and number and size of wires.

#### C. Samples for Verification: For each type of exposed finish required, in manufacturer's standard sizes.

- D. Fabrication Sample: Of each vertical-to-horizontal intersection of assemblies, made from 12-inch (300-mm) lengths of full-size components and showing details of the following:
  - 1. Joinery, including concealed welds.
  - 2. Anchorage.
  - 3. Expansion provisions.
  - 4. Glazing.
  - 5. Flashing and drainage.
- E. Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.
- F. Delegated Design Submittal: For aluminum-framed entrances and storefronts including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Mockup Testing Submittals:
  - 1. Testing Program: Developed specifically for Project.
  - 2. Test Reports: Prepared by a qualified preconstruction testing agency for each mockup test.
  - 3. Record Drawings: As-built drawings of preconstruction laboratory mockups showing changes made during preconstruction laboratory mockup testing.
- B. Certificates:
  - 1. Energy Performance Certificates: For aluminum-framed entrances and storefronts, accessories, and components, from manufacturer.
    - a. Basis for Certification: NFRC-certified energy performance values for each aluminum-framed entrance and storefront.
- C. Test and Evaluation Reports:
  - 1. Product Test Reports: For aluminum-framed entrances and storefronts, for tests performed by manufacturer and witnessed by a qualified testing agency.
- D. Source Quality-Control Submittals:
  - 1. Source quality-control reports.
- E. Field Quality-Control Submittals:
  - 1. Field quality-control reports.
- F. Quality-Control Program: Developed specifically for Project, including fabrication and installation, in accordance with recommendations in ASTM C1401. Include periodic quality-control reports.

- G. Qualification Statements:
  - 1. For Installer and field testing agency.
- H. Delegated design engineer qualifications.
- I. Sample warranties.

#### 1.5 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For aluminum-framed entrances and storefronts.

#### 1.6 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installers: An entity that employs installers and supervisors who are trained and approved by manufacturer and that employs a qualified glazing contractor for this Project who is certified under the North American Contractor Certification Program (NACC) for Architectural Glass & Metal (AG&M) contractors.
  - 2. Delegated Design Engineer: A professional engineer who is legally qualified to practice in New York State where Project is located and who is experienced in providing engineering services of the type indicated.
  - 3. Laboratory Mockup Testing Agency: Qualified in accordance with ASTM E699 for testing indicated and accredited by the International Accreditation Service or the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement as complying with ISO/IEC 17025.
  - 4. Testing Agency: Qualified in accordance with ASTM E699 for testing indicated and accredited by IAS or ILAC Mutual Recognition Arrangement as complying with ISO/IEC 17025 and acceptable to Owner and Architect.
    - a. DHI's Fire and Egress Door Assembly Inspector (FDAI) certification.
- B. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.
  - 1. Do not change intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If changes are proposed, submit comprehensive explanatory data to Architect for review.

#### 1.7 MOCKUPS

- A. Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
  - 1. Build mockup of typical wall area as shown on Drawings.

2. Testing shall be performed on mockups in accordance with requirements in "Field Quality Control" Article.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

## 1.8 WARRANTY

A. Special Warranty: Installer agrees to repair or replace components of aluminum-framed entrances and storefronts that do not comply with requirements or that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, the following:

- a. Structural failures, including, but not limited to, excessive deflection.
- b. Noise or vibration created by wind and thermal and structural movements.
- c. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- d. Water penetration through fixed glazing and framing areas.
- e. Failure of operating components.

2. Warranty Period: Two years from date of Substantial Completion.

B. Special Finish Warranty, Anodized Finishes: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of anodized finishes within specified warranty period.

1. Deterioration includes, but is not limited to, the following:

- a. Color fading more than 5 Delta E units when tested in accordance with ASTM D 2244.
- b. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D 4214.
- c. Cracking, peeling, or chipping.

2. Warranty Period: 10 years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

A. Source Limitations: Obtain all components of aluminum-framed entrance and storefront system, including framing spandrel panels and accessories, from single manufacturer.

### 2.2 PERFORMANCE REQUIREMENTS

A. General Performance: Comply with performance requirements specified, as determined by testing of aluminum-framed entrances and storefronts representing those indicated for this

Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.

1. Aluminum-framed entrances and storefronts shall withstand movements of supporting structure, including, but not limited to, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
2. Failure also includes the following:
  - a. Thermal stresses transferring to building structure.
  - b. Glass breakage.
  - c. Noise or vibration created by wind and thermal and structural movements.
  - d. Loosening or weakening of fasteners, attachments, and other components.
  - e. Failure of operating units.

B. Structural Loads:

1. Wind Loads: As indicated on Drawings.
2. Other Design Loads: As indicated on Drawings.

C. Energy Performance: Certified and labeled by manufacturer for energy performance as follows:

1. Thermal Transmittance (U-factor):
  - a. Fixed Glazing and Framing Areas: U-factor for the system of not more than **0.41 Btu/sq. ft. x h x deg F (2.33 W/sq. m x K)** as determined in accordance with NFRC 100.
  - b. Entrance Doors: U-factor of not more than **0.68 Btu/sq. ft. x h x deg F (3.86 W/sq. m x K)** as determined in accordance with NFRC 100.
2. Solar Heat-Gain Coefficient (SHGC):
  - a. Fixed Glazing and Framing Areas: SHGC for the system of not more than 0.27 as determined in accordance with NFRC 200.
  - b. Entrance Doors: SHGC of not more than 0.27 as determined in accordance with NFRC 200.
3. Air Leakage:
  - a. Fixed Glazing and Framing Areas: Air leakage for the system of not more than **0.06 cfm/sq. ft. (0.30 L/s per sq. m)** at a static-air-pressure differential of **6.24 lbf/sq. ft. (300 Pa)** when tested in accordance with ASTM E283.
  - b. Entrance Doors: Air leakage of not more than **1.0 cfm/sq. ft. (5.08 L/s per sq. m)** at a static-air-pressure differential of **1.57 lbf/sq. ft. (75 Pa)**.
4. Condensation Resistance Factor (CRF):
  - a. Fixed Glazing and Framing Areas: CRF for the system of not less than 35 as determined in accordance with AAMA 1503.
  - b. Entrance Doors: CRF of not less than 57 as determined in accordance with AAMA 1503.

- D. Windborne-Debris Impact Resistance: Passes ASTM E1886 missile-impact and cyclic-pressure tests in accordance with ASTM E1996 for Wind Zone for basic protection.
- E. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes.
  - 1. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
  - 2. Thermal Cycling: No buckling; stress on glass; sealant failure; excess stress on framing, anchors, and fasteners; or reduction of performance when tested in accordance with AAMA 501.5.
    - a. High Exterior Ambient-Air Temperature: That which produces an exterior metal-surface temperature of 180 deg F (82 deg C).
    - b. Low Exterior Ambient-Air Temperature: 0 deg F (minus 18 deg C).
    - c. Interior Ambient-Air Temperature: 75 deg F (24 deg C).

## 2.3 STOREFRONT SYSTEMS

- A. Manufacturers
  - 1. Basis of Design: EFCO Series 403 Storefront Framing
  - 2. Kawneer North America
  - 3. YKK AP
  - 4. Tubelite Architectural framing systems
- B. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
  - 1. Exterior Framing Construction: Thermally broken.
  - 2. Interior Vestibule Framing Construction: Nonthermal.
  - 3. Glazing System: Retained mechanically with gaskets on four sides.
  - 4. Glazing Plane: Front.
  - 5. Finish: Clear anodic finish.
  - 6. Fabrication Method: Field-fabricated stick system.
  - 7. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
  - 8. Steel Reinforcement: As required by manufacturer.
- C. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.
- D. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.
- E. Insulated Spandrel Panels:
  - 1. Laminated, metal-faced flat panels with no deviations in plane exceeding 0.8 percent of panel dimension in width or length.
    - a. Overall Panel Thickness: 1 inch (25.4 mm).
    - b. Exterior Skin: Aluminum.



- 1) Thickness: Manufacturer's standard for finish and texture indicated.
  - 2) Finish: Kynar 500.
    - a) Color to be selected from manufacturers full range.
  - 3) Texture: Smooth.
  - 4) Backing Sheet: **1/8-inch- (3.2-mm-)** thick tempered hardboard.
- c. Interior Skin: Aluminum.
- 1) Thickness: Manufacturer's standard for finish and texture indicated.
  - 2) Finish: Kynar 500
    - a) Color to be selected from manufacturers full range.
  - 3) Texture: Smooth.
  - 4) Backing Sheet: **1/8-inch- (3.2-mm-)** thick tempered hardboard.
- d. Thermal Insulation Core: Manufacturer's standard rigid, closed-cell, polyisocyanurate board.
- e. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- 1) Flame-Spread Index: 25 or less.

## 2.4 ENTRANCE DOOR SYSTEMS

### A. Manufacturers

1. EFCO
2. Kawneer
3. YKK

### B. Entrance Doors: Manufacturer's standard glazed entrance doors for manual-swing or automatic operation.

1. Door Construction: **1-3/4-inch (44.5-mm)** overall thickness, with minimum **0.125-inch- (3.2-mm-)** thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
  - a. Thermal Construction: High-performance plastic connectors separate aluminum members exposed to the exterior from members exposed to the interior.
2. Door Design: As indicated.
3. Glazing Stops and Gaskets: Square, snap-on, extruded-aluminum stops and preformed gaskets.
  - a. Provide nonremovable glazing stops on outside of door.
4. Finish: Match adjacent storefront framing finish.

2.5 ENTRANCE DOOR HARDWARE

- A. Entrance Door Hardware: Hardware not specified in this Section is specified in Section 087100 "Door Hardware."
- B. General: Provide entrance door hardware and entrance door hardware sets indicated in door and frame schedule for each entrance door, to comply with requirements in this Section.
  - 1. Entrance Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and products equivalent in function and comparable in quality to named products.
  - 2. Sequence of Operation: Provide electrified door hardware function, sequence of operation, and interface with other building control systems indicated.
  - 3. Opening-Force Requirements:
    - a. Egress Doors: Not more than **15 lbf (67 N)** to release the latch and not more than **30 lbf (133 N)** to set the door in motion[ **and not more than 15 lbf (67 N) to open the door to its minimum required width**].
- C. Designations: Requirements for design, grade, function, finish, quantity, size, and other distinctive qualities of each type of entrance door hardware are indicated in "Entrance Door Hardware Sets" Article. Products are identified by using entrance door hardware designations as follows:
  - 1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in "Entrance Door Hardware Sets" Article.
  - 2. References to BHMA Standards: Provide products complying with these standards and requirements for description, quality, and function.
- D. Butt Hinges: BHMA A156.1, Grade 1, radius corner.
  - 1. Nonremovable Pins: Provide setscrew in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while entrance door is closed.
  - 2. Exterior Hinges: Stainless steel, with stainless steel pin.
  - 3. Quantities:
    - a. For doors up to **87 inches (2210 mm)** high, provide three hinges per leaf.
- E. Continuous-Gear Hinges: BHMA A156.26.
- F. Mortise Auxiliary Locks: BHMA A156.5, Grade 1.
- G. Manual Flush Bolts: BHMA A156.16, Grade 1.
- H. Automatic and Self-Latching Flush Bolts: BHMA A156.3, Grade 1.
- I. Panic Exit Devices: BHMA A156.3, Grade 1, listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for panic protection, based on testing in accordance with UL 305.
- J. Cylinders:

1. As specified in Section 087100 "Door Hardware."
  2. BHMA A156.5, Grade 1.
    - a. Keying: Master key system. Permanently inscribe each key with a visual key control number and include notation "DO NOT DUPLICATE".
  - K. Strikes: Provide strike with black-plastic dust box for each latch or lock bolt; fabricated for aluminum framing.
  - L. Operating Trim: BHMA A156.6.
  - M. Closers: BHMA A156.4, Grade 1, with accessories required for a complete installation, sized as required by door size, exposure to weather, and anticipated frequency of use; adjustable to comply with field conditions and requirements for opening force.
  - N. Concealed Overhead Holders and Stops: BHMA A156.8, Grade 1.
  - O. Door Stops: BHMA A156.16, Grade 1, floor or wall mounted, as appropriate for door location indicated, with integral rubber bumper.
  - P. Weather Stripping: Manufacturer's standard replaceable components.
    1. Compression Type: Made of ASTM D2000 molded neoprene or ASTM D2287 molded PVC.
    2. Sliding Type: AAMA 701/702, made of wool, polypropylene, or nylon woven pile with nylon-fabric or aluminum-strip backing.
  - Q. Weather Sweeps: Manufacturer's standard exterior-door bottom sweep with concealed fasteners on mounting strip.
  - R. Thresholds: BHMA A156.21 raised thresholds beveled with a slope of not more than 1:2, with maximum height of **1/2 inch (12.7 mm)**.
  - S. Finger Guards: Manufacturer's standard collapsible neoprene or PVC gasket anchored to frame hinge-jamb at center-pivoted doors.
- 2.6 GLAZING
- A. Glazing: Comply with Section 088000 "Glazing."
  - B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers. Comply with Section 088000 "Glazing."
  - C. Weatherseal Sealants: ASTM C920 for Type S; Grade NS; Class 25; Uses NT, G, A, and O; chemically curing silicone formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and structural-sealant-glazed storefront manufacturers for this use.
    1. Color: Match structural sealant.

## 2.7 MATERIALS

- A. Sheet and Plate: **ASTM B209** (ASTM B209M).
- B. Extruded Bars, Rods, Profiles, and Tubes: **ASTM B221** (ASTM B221M).
- C. Structural Profiles: ASTM B308/B308M.
- D. Steel Reinforcement:
  - 1. Structural Shapes, Plates, and Bars: ASTM A36/A36M.
  - 2. Cold-Rolled Sheet and Strip: ASTM A1008/A1008M.
  - 3. Hot-Rolled Sheet and Strip: ASTM A1011/A1011M.
- E. Steel Reinforcement Primer: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods in accordance with recommendations in SSPC-SP COM, and prepare surfaces in accordance with applicable SSPC standard.

## 2.8 ACCESSORIES

- A. Automatic Door Operators: Section 087113 "Power Door Operators."
- B. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.
  - 1. Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.
  - 2. Reinforce members as required to receive fastener threads.
  - 3. Use exposed fasteners with countersunk Phillips screw heads, finished to match framing system.
- C. Anchors: Three-way adjustable anchors with minimum adjustment of [**1 inch (25.4 mm)**] **<Insert dimension>** that accommodate fabrication and installation tolerances in material and finish compatible with adjoining materials and recommended by manufacturer.
  - 1. Concrete and Masonry Inserts: Hot-dip galvanized cast-iron, malleable-iron, or steel inserts complying with ASTM A123/A123M or ASTM A153/A153M requirements.
- D. Concealed Flashing: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding flashing compatible with adjacent materials.
- E. Bituminous Paint: Cold-applied asphalt-mastic paint containing no asbestos, formulated for **30-mil (0.762-mm)** thickness per coat.
- F. Rigid PVC filler.

## 2.9 FABRICATION

- A. Form or extrude aluminum shapes before finishing.

- B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
- C. Fabricate components that, when assembled, have the following characteristics:
  - 1. Profiles that are sharp, straight, and free of defects or deformations.
  - 2. Accurately fitted joints with ends coped or mitered.
  - 3. Physical and thermal isolation of glazing from framing members.
  - 4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
  - 5. Provisions for field replacement of glazing from exterior.
  - 6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
- D. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.
- E. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.
- F. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.
  - 1. At interior and exterior doors, provide compression weather stripping at fixed stops.
- G. Entrance Doors: Reinforce doors as required for installing entrance door hardware.
  - 1. At pairs of exterior doors, provide sliding-type weather stripping retained in adjustable strip and mortised into door edge.
  - 2. At exterior doors, provide weather sweeps applied to door bottoms.
- H. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.
- I. After fabrication, clearly mark components to identify their locations in Project in accordance with Shop Drawings.

## 2.10 ALUMINUM FINISHES

- A. Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.

## 2.11 SOURCE QUALITY CONTROL

- A. Structural Sealant: Perform quality-control procedures complying with ASTM C1401 recommendations, including, but not limited to, assembly material qualification procedures, sealant testing, and assembly fabrication reviews and checks.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

#### 3.2 INSTALLATION, GENERAL

- A. Comply with manufacturer's written instructions.
- B. Do not install damaged components.
- C. Fit joints to produce hairline joints free of burrs and distortion.
- D. Rigidly secure nonmovement joints.
- E. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.
- F. Seal perimeter and other joints watertight unless otherwise indicated.
- G. Metal Protection:
  - 1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
  - 2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
- H. Install joint filler behind sealant as recommended by sealant manufacturer.
- I. Install components plumb and true in alignment with established lines and grades.

#### 3.3 INSTALLATION OF OPERABLE UNITS

- A. Install operable units level and plumb, securely anchored, and without distortion. Adjust weather-stripping contact and hardware movement to produce proper operation.

#### 3.4 INSTALLATION OF GLAZING

- A. Install glazing as specified in Section 088000 "Glazing."

### 3.5 INSTALLATION OF STRUCTURAL GLAZING

- A. Prepare surfaces that will contact structural sealant in accordance with sealant manufacturer's written instructions, to ensure compatibility and adhesion. Preparation includes, but is not limited to, cleaning and priming surfaces.
- B. Set glazing into framing in accordance with sealant manufacturer and framing manufacturer's written instructions and standard practice. Use a spacer or backer as recommended by manufacturer.
- C. Set glazing with proper orientation so that coatings face exterior or interior as specified.
- D. Hold glazing in place using temporary retainers of type and spacing recommended by manufacturer, until structural sealant joint has cured.
- E. Apply structural sealant to completely fill cavity, in accordance with sealant manufacturer and framing manufacturer's written instructions and in compliance with local codes.
- F. Apply structural sealant at temperatures indicated by sealant manufacturer for type of sealant.
- G. Allow structural sealant to cure in accordance with manufacturer's written instructions.
- H. Clean and protect glass as indicated in Section 088000 "Glazing."

### 3.6 INSTALLATION OF WEATHERSEAL SEALANT

- A. Install weatherseal sealant to completely fill cavity, in accordance with sealant manufacturer's written instructions, to produce weatherproof joints.

### 3.7 INSTALLATION OF ALUMINUM-FRAMED ENTRANCE DOORS

- A. Install entrance doors to produce smooth operation and tight fit at contact points.
  - 1. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
  - 2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware in accordance with entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.

### 3.8 ERECTION TOLERANCES

- A. Install aluminum-framed entrances and storefronts to comply with the following maximum tolerances:
  - 1. Plumb: 1/8 inch in 10 feet (3.2 mm in 3 m); 1/4 inch in 40 feet (6.35 mm in 12.2 m).
  - 2. Level: 1/8 inch in 20 feet (3.2 mm in 6 m); 1/4 inch in 40 feet (6.35 mm in 12.2 m).
  - 3. Alignment:

- a. Where surfaces abut in line or are separated by reveal or protruding element up to **1/2 inch (12.7 mm)** wide, limit offset from true alignment to **1/16 inch (1.6 mm)**.
  - b. Where surfaces are separated by reveal or protruding element from **1/2 to 1 inch (12.7 to 25.4 mm)** wide, limit offset from true alignment to **1/8 inch (3.2 mm)**.
  - c. Where surfaces are separated by reveal or protruding element of **1 inch (25.4 mm)** wide or more, limit offset from true alignment to **1/4 inch (6 mm)**.
4. Location: Limit variation from plane to **1/8 inch in 12 feet (3.2 mm in 3.6 m)**; **1/2 inch (12.7 mm)** over total length.

### 3.9 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Tests and Inspections: Perform the following tests on representative areas of aluminum-framed entrances and storefronts.
  1. Water-Spray Test: Before installation of interior finishes has begun, areas designated by Architect shall be tested in accordance with AAMA 501.2 and shall not evidence water penetration.
    - a. Perform a minimum of two tests in areas as directed by Architect.
  2. Air Leakage: ASTM E783 at 1.5 times the rate specified for laboratory testing in "Performance Requirements" Article but not more than **0.09 cfm/sq. ft. (0.45 L/s per sq. m)** at a static-air-pressure differential of **1.57 lbf/sq. ft. (75 Pa)**.
    - a. Perform tests in each test area as directed by Architect. Perform at least three tests, prior to **[10, 35, and 70 percent completion]** <Insert requirements>.
  3. Water Penetration: ASTM E1105 at a minimum uniform and cyclic static-air-pressure differential of 0.67 times the static-air-pressure differential specified for laboratory testing in "Performance Requirements" Article, but not less than **6.24 lbf/sq. ft. (300 Pa)**, and shall not evidence water penetration.
  4. Structural-Sealant Adhesion: Test structural sealant in accordance with recommendations in ASTM C1401, Destructive Test Method A, "Hand Pull Tab (Destructive)," Appendix X2.
    - a. Test a minimum of two areas on each building facade.
    - b. Repair installation areas damaged by testing.
- C. Aluminum-framed entrances and storefronts will be considered defective if they do not pass tests and inspections.
- D. Prepare test and inspection reports.

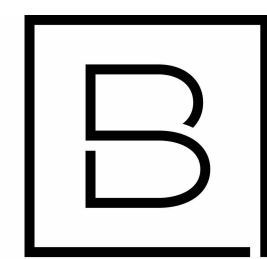
### 3.10 MAINTENANCE SERVICE

- A. Entrance Door Hardware Maintenance:



1. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of entrance door hardware.
2. Initial Maintenance Service: Beginning at Substantial Completion, provide six months' full maintenance by skilled employees of entrance door hardware Installer. Include quarterly preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper entrance door hardware operation at rated speed and capacity. Use parts and supplies that are the same as those used in the manufacture and installation of original equipment.

END OF SECTION 084113



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Town of Lansing

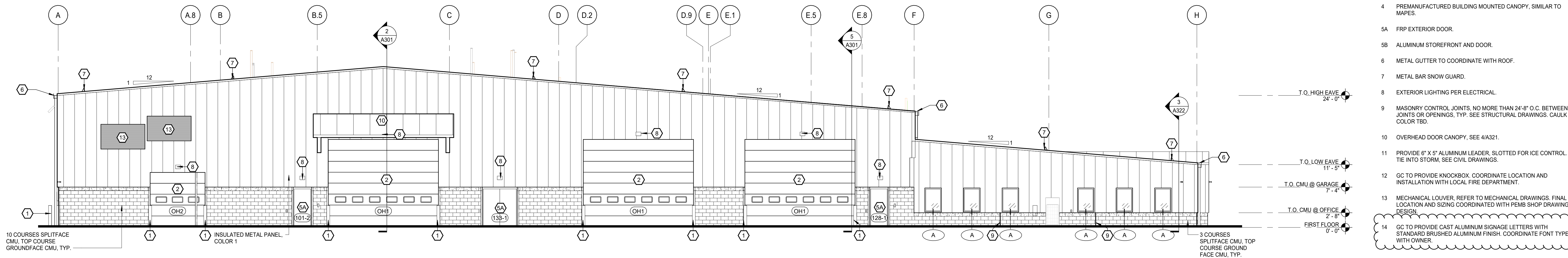
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DEPARTMENT  
FACILITY

10 Town Barn Road  
Lansing, NY 14882

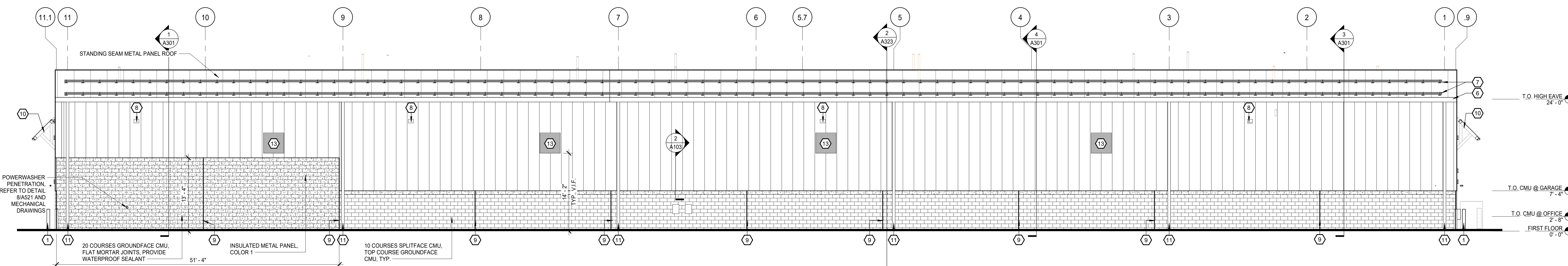
Date Revised Description

KEYNOTES

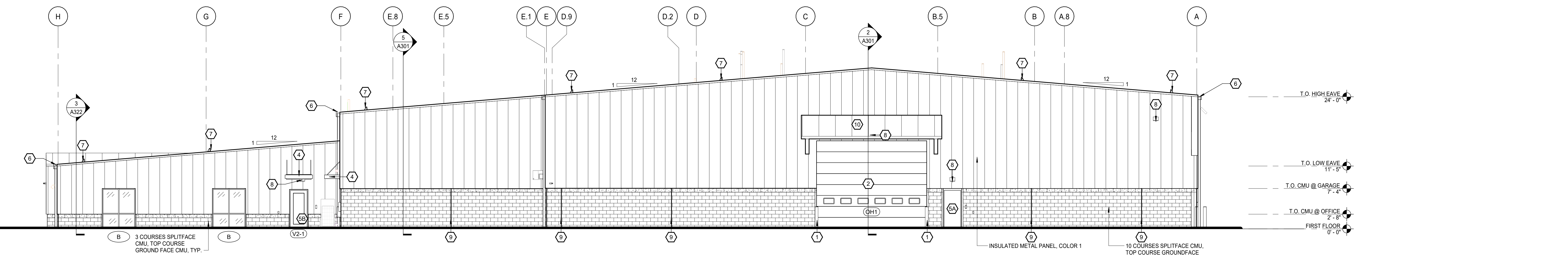
- 1 PROVIDE PIPE BOLLARD WITH PLASTIC SURROUND.
- 2 PROVIDE THERMAL OH DOOR WITH STANDARD OPERATOR.
- 4 PREMANUFACTURED BUILDING MOUNTED CANOPY, SIMILAR TO MAPES.
- 5A FRP EXTERIOR DOOR.
- 5B ALUMINUM STOREFRONT AND DOOR.
- 6 METAL GUTTER TO COORDINATE WITH ROOF.
- 7 METAL BAR SNOW GUARD.
- 8 EXTERIOR LIGHTING PER ELECTRICAL.
- 9 MASONRY CONTROL JOINTS, NO MORE THAN 24'-8" O.C. BETWEEN JOINTS OR OPENINGS, TYP. SEE STRUCTURAL DRAWINGS. CAULK COLOR TBD.
- 10 OVERHEAD DOOR CANOPY. SEE 4/A321.
- 11 PROVIDE 6" X 5" ALUMINUM LEADER, SLOTTED FOR ICE CONTROL. TIE INTO STORM. SEE CIVIL DRAWINGS.
- 12 GC TO PROVIDE KNOCKBOX. COORDINATE LOCATION AND INSTALLATION WITH LOCAL FIRE DEPARTMENT.
- 13 MECHANICAL LOUVER. REFER TO MECHANICAL DRAWINGS. FINAL LOCATION AND SIZING COORDINATED WITH PEMB SHOP DRAWING DESIGN.
- 14 GC TO PROVIDE CAST ALUMINUM SIGNAGE LETTERS WITH STANDARD BRUSHED ALUMINUM FINISH. COORDINATE FONT TYPE WITH OWNER.



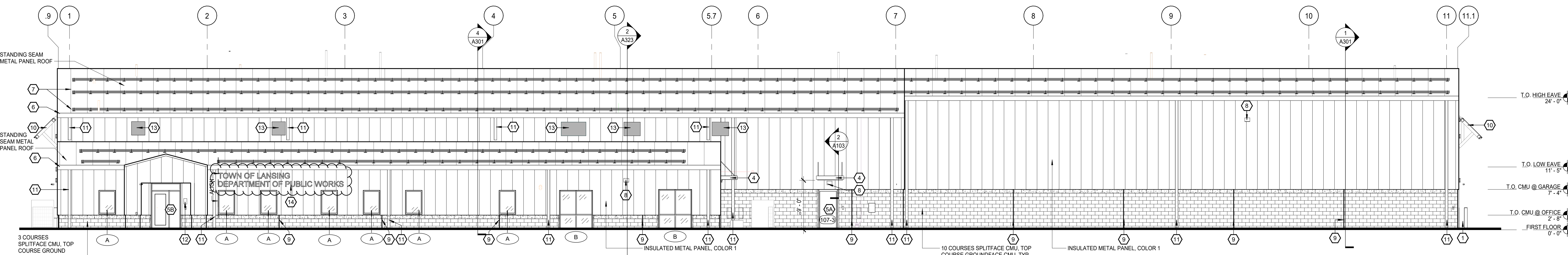
4 EXTERIOR ELEVATION - WEST  
SCALE: 1/8" = 1'-0"



3 EXTERIOR ELEVATION - NORTH  
SCALE: 1/8" = 1'-0"



2 EXTERIOR ELEVATION - EAST  
SCALE: 1/8" = 1'-0"



1 EXTERIOR ELEVATION - SOUTH  
SCALE: 1/8" = 1'-0"

ISSUED FOR BID

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|                            |                             |
|----------------------------|-----------------------------|
| Project Manager<br>S. BOVA | Discipline Lead<br>S. BOVA  |
| Designer<br>S. SEVENSMA    | Reviewer<br>E. STENDER      |
| Date Issued<br>03/2025     | Project Number<br>22007325A |

Sheet Name

EXTERIOR ELEVATIONS

Drawing Number

A201