

ADDENDUM TWO

2025 Façade Replacement at Wayne High School
9100 Winchester Road
Fort Wayne, IN 46819

MARTINRILEY architects/engineers
221 West Baker Street
Fort Wayne, Indiana 46802
260-422-7994

Commission No.: F24109

Addendum Date: 11 April 2025

Conditions: The following clarifications, amendments, additions, deletions, revisions and modifications are a part of the contract documents and change the original documents only in the manner and to the extent stated.

Copies of the Addendum shall be bound with all contract sets of drawings and specifications.

CLARIFICATIONS:

METAL PANEL MODIFICATION: See all notes within pertaining to the updates to the Metal Wall Panels. The specified XPS rigid insulation does not meet compressive strength requirements. Qualifying XPS products have replaced the drainage board manufacturers within the 072100 Thermal Insulation specification.

CONTRACTOR INQUIRY:

The following questions have been submitted via contractor request (RFI):

4. **QUESTION:** The bid documents list a November completion in one location, then list a \$1,500/day liquidated damages clause starting based on Substantial Completion of September 1, 2025. Please clarify.

ANSWER: Due to the volatility of the metal market/lead times, Substantial Completion has been reassigned the date of November 1, 2025, and a Final Completion date of November 15, 2025. *Specifications 000133 and 011000* have been updated to correct dates.

5. **QUESTION:** The drawings call for thermally broken girts (see below snip). Will SmartCI, Knightwall, or similar be required, or will 18 gauge girts suffice?

ANSWER: No Z-girts are necessary, and have been removed from the project. Sobotec offers a thermally broken tube frame system which has been added to the documents.

6. **QUESTION:** Owens Corning XPS with integral drain channels is called *Formular NGX* (data sheet attached). The nominal 2” thick board has a thickness of 2-1/4” to account for the loss of thickness at the channels, which makes incompatible with either 2” Z-girts (won’t fit) or 2-1/2” Z-girts (can’t tape joints).

ANSWER: XPS with drainage channels has been removed from the project, and a nominal 2” XPS rigid insulation is now Basis of Design. Sobotec metal tube system projects 3/4” past the 2” face of the rigid board, and shown on the construction documents, Sheet A410.

7. **QUESTION:** Are the wall panels closed spec’d for Sobotec or is it just basis of design? I work with several ACM fabricator that use the same ACM material/vendors (Alpolic, Alucobond, Alucoil, and Reynoboond) as Sobotec.

ANSWER: Sobotec SL-2000 is utilized as the Basis of Design. You are welcome to submit other manufacturers per your discretion and approval by the design team.

CHANGES TO THE SPECIFICATIONS:

Section 00 0133 *Liquidated Damages*, **UPDATE** Substantial and Final Completion dates.

Section 01 1000 *Summary of Work*, **UPDATE** Substantial and Final Completion dates.

Section 07 2100 *Thermal Insulation*, **REPLACE** paragraph/section P2-2.02-10 *Products* to include nominal 2” XPS rigid insulation.

Section 07 4213 *Metal Wall Panels*, **REPLACE** paragraph/section P2-2.02-C *Subgirt Framing Assembly* to provide specifics on the Sobotec tube frame system.

Section 07 4213 *Metal Wall Panels*, **REPLACE** paragraph/section P2-2.02-G *Trim* to provide specifics on the Sobotec trim accessories.

CHANGES TO DRAWINGS:

Sheet A410 - SEE ATTACHED SHEET (PDF) for revisions:

- 1/A410: Detail has been **RE-ISSUED**.
- 2/A410: Detail has been **RE-ISSUED**.
- 3/A410:
 - PROFILE B dimensions have been updated.
 - PROFILE D dimensions have been updated.
- 4/A410: Detail has been **RE-ISSUED**.
- 5/A410: Detail has been **RE-ISSUED**.
- 6/A410: Detail has been **RE-ISSUED**.
- 7/A410: Detail has been **RE-ISSUED**.

- 8/A410: Detail has been **RE-ISSUED**.
- 9/A410: Detail has been **RE-ISSUED**.
- 10/A410: Detail has been **RE-ISSUED**.
- 11/A410: Detail has been **RE-ISSUED**.
- 12/A410: Detail has been **RE-ISSUED**.

ATTACHMENTS (PDF):

000133 Liquidated Damages.PDF
011000 Summary of Work.PDF
072100 Thermal Insulation.PDF
074213 Metal Wall Panels.PDF
A410.PDF

END OF ADDENDUM NUMBER TWO

W:\2024 Projects\F24109 - FWCS - Wayne HS - New Tech EIFS repl ACM panels\Project Management\05-Bidding

SECTION 000133 - LIQUIDATED DAMAGES

It is hereby agreed by and between Fort Wayne Community Schools (FWCS) and Contractor that time is of the essence of this agreement. The Contractor further acknowledges that the actual damages likely to result from breach of this section are difficult to ascertain on the date this Agreement is entered into and may be difficult for FWCS to prove in the event of a breach. Therefore, the parties intend that the payment of Liquidated Damages in the amount of \$1,500.00 per calendar day for each calendar day after the completion date that the Work is not certified as Substantially Complete by the Architect would serve to reasonably compensate FWCS for actual damages sustained, and not as a penalty. Damages resulting from such delays shall be subject to a maximum of ten percent (10%) of the Initial Contract Price. Reference AIA Document A201, General Conditions of the Contract for Construction for the definitions of Substantial and Final Completion. Furthermore, Substantial Completion shall not be considered achieved until the Certificate of Occupancy has been granted by local authorities having jurisdiction. Substantially completed areas allow the full use by the Owner for activities including but not limited to registration, orientation, staff training, etc.

FWCS 2025 Façade Replacement at Wayne H.S.



The Contractor shall not be charged with liquidated damages or any excess cost when the Owner determines that the Contractor is without fault and the Contractor’s reasons for the time extension are acceptable to the Owner; provided that the Contractor gives to the Owner a written request for time extension within ten (10) calendar days from the event giving rise to the claim. The parties further agree that causes beyond the control of the contractor may delay the completion date. Delays beyond the control of the Contractor are limited to the following: Acts of God, strikes, lockouts or industrial disturbances, acts of public enemies, restraining orders of any kind by the government of the United States of America, or, of the State of Indiana, or any of their departments, agencies, or officials, or any civil or military authority, insurrections, riots, landslides, earthquakes, fires, incapacitating storms, floods, and explosions.

END OF SECTION

SECTION 011000 – SUMMARY OF WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and General Provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to Work of this Section.

1.2 SUMMARY

A. Section Includes:

1. Project information.
2. Work covered by Contract Documents.
3. Work by Owner.
4. Work under separate contracts.
5. Future work.
6. Owner-furnished products.
7. Contractor-furnished, Owner-installed products.
8. Access to site.
9. Coordination with occupants.
10. Work restrictions.
11. Specification and drawings conventions.
12. Miscellaneous provisions.

B. Related Requirements:

1. Section 015000 "Temporary Facilities and Controls" for limitations and procedures governing temporary use of Owner's facilities

1.3 PROJECT SUMMARY

A. Project Identification:

1. **FWCS 2025 Façade Replacement at Wayne H.S.**
Wayne High School: 9100 Winchester RD, Fort Wayne, IN 46819

B. Owner: Fort Wayne Community Schools

1. Owner's Representative: Joshua Summers, Coordinator: (260) 615-6044

- C. Lead Design Consultant: MartinRiley Architects/Engineers
- D. Consultants: MartinRiley Architects/Engineers has retained the following design professionals who have prepared designated portions of the contract documents:
 - 1. Ron Ross (Principle, AIA, APT-RP, NCARB): (260) 422-7994
 - 2. Paul Konwinski (Project Manager): (260) 341-7096
- E. The Owner maintains tax exempt status and all work shall be tax free. Owner shall provide tax exempt documentation to Contractor.
- F. All permits and fees associated with the construction are the responsibility of the Contractor to pay.
- G. All work performed by the Contractor shall comply with local and state codes/regulations.
- H. Web-Based Project Software: Project software administered by Owner will be used for purposes of managing communication and documents during the construction phase.
 - 1. See Section 0113100 "Project Management and Coordination" for requirements for using web-based Project software.

1.4 WORK COVERED BY CONTRACT DOCUMENTS

- A. The work of the Project is defined by the Contract Documents and consists of the following:
- B. Base Bid: The Projects Base Bid work consists of One (1) project identified as Project
 - a. Project:
Base Work: Replacement of EIFS system along portions of the exterior façade with prescriptive metal panel wall system at **Wayne H.S..**

- C. Type of Contract:
 - 1. Projects will be constructed under a single prime contract for:

Project

Construction Commencement: June 1, 2025
Substantial Completion: November 1, 2025
Final Completion: November 15, 2025

1.5 WORK BY OWNER

- A. General: Cooperate fully with Owner so work may be carried out smoothly, without interfering with or delaying work under this Contract or by Owner. Coordinate the Work of this Contract with work performed by Owner.

1.6 WORK UNDER SEPARATE CONTRACTS

- A. General: Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying Work under this Contract or other contracts. Coordinate the Work of this Contract with work performed under separate contracts.
 - 1. Asbestos abatement shall be provided under separate contract. All contractors must coordinate schedules and it is the responsibility of the General Contractor to incorporate the work schedule of the abatement contractors into the master project schedule with allocated time for removal and air testing.

1.7 ACCESS TO SITE

- A. Bidding: Each contractor and sub-contractor shall be responsible to visit the project site to verify existing conditions prior to the bidding date and be aware of the conditions of the existing building. The Owner will make the building available for inspection as follows:
 - 1. Site visits will be permitted prior to bid dates Monday thru Friday after. Check into the office prior to accessing the roof.
- B. General: Each Contractor shall have limited use of Project site for construction operations as indicated on Drawings by the Contract limits and as indicate by requirements of this section.
- C. Use of Site: Limit use of Project site to Work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - 1. Driveways, Walkways and Entrances: Keep driveways, loading areas and entrances serving premises clear and available to Owner, Owner's employees and emergency vehicles at all times. Do not use these areas for parking or for storage of materials.
 - a. Schedule deliveries to minimize use of driveways and entrance by construction operations.
 - b. Schedule deliveries to minimize space and time requirements for storage of material and equipment on site.
- D. Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.
 - 1. Protect staff and students from dangerous conditions that might result from construction activities.

- E. Condition of Existing Grounds: Maintain portions of existing grounds, landscaping and hardscaping affected by construction operations throughout construction period. Repair damage caused by construction operations.
- F. Each Contractor shall limit the use of the premises for work and storage to allow work by other Contractors and Owner occupancy. Storage of materials for construction activities in existing buildings is permissible only upon approval by the assigned Owner Project Coordinator.
 - 1. Each Contractor shall assume complete responsibility for the protection and safekeeping of products under his contract, stored at the site.
 - 2. Each Contractor shall move his stored products that interfere with the operation of the Owner or other Contractors.
 - 3. On site storage will be permitted starting **May 23, 2025** at all school locations. Material storage prior to that is to be off site. Cost associated with storage, delivery and transfer of materials from off site is the responsibility of the contractors.

1.8 COORDINATION WITH OCCUPANTS

- A. Full Owner Occupancy: Owner will occupy site and existing building(s) during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.
 - 1. Maintain access to existing walkways, corridors and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.
 - 2. Notify Owner not less than 72 hours in advance of activities that will affect Owner's operations.
 - 3. Note that the primary functions of this school facility must continue and cannot be interrupted by the construction activities. Special considerations for noise/dust/odor control must be provided to prevent disruption of the academic environment.
 - 4. Contractors shall maintain an atmosphere of professionalism while on school grounds.
 - a. Use of profane or lewd language by workers will not be tolerated.
 - b. Any worker wearing clothing containing vulgar or inappropriate content will be asked to leave the premises immediately.
 - c. Use of radios/cell phones to play loud music will not be permitted.

1.09 WORK RESTRICTIONS

- A. Work Restrictions, General: Comply with restrictions on construction operations.
 - 1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.

- B. On-Site Work Hours: Limit work in the existing building to normal business working hours of 6:00 a.m. to 10:00 p.m., Monday through Friday, unless otherwise indicated.
1. School Year Hours: NONE of the phased work occurring during the school year will take place while school is in session. Typical shift work during the school year will be 3:30 p.m. to 11:00 p.m. Shiftwork after 11:00 p.m. will be on an as needed basis and coordinated with the Owner.
 2. Weekend Hours: With Owner's prior approval, weekend hours may be permitted. Notification of need for weekend hours must be submitted no later than the Monday preceding weekend needed for work.
 3. Hours for Utility Shutdowns: Power shutdowns must occur when the building is not occupied and must be scheduled with the Owner in advance. Extended shutdowns lasting more than 4 hours must occur on a weekend and utilize overnight periods to be scheduled with the Owner.
- C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to the requirements indicated:
1. Notify Owner not less than seven (7) days in advance of proposed utility interruptions.
 2. Obtain Owner's written permission before proceeding with utility interruptions.
- D. Noise, Vibration and Odors: Coordinate operations that may result in high levels of noise and vibration, odors or other disruption to Owner occupancy with Owner.
1. Notify Owner not less than seven (7) days in advance of proposed disruptive operations.
 2. Obtain Owner's written permission before proceeding with disruptive operations.
 3. Each Contractor and Sub-contractor shall take reasonable measures to limit activities which cause undue noise during 2nd shift work which may affect neighboring residents.
 - a. Refrain from using telescoping forklifts to dump trash after 9:00 pm.
 - b. Take special care in closing storage containers at the end of the work shift (do not slam container doors).
 - c. Schedule material and equipment deliveries during late afternoon hours only.
- E. I-LEARN/Achievement Testing: Testing will occur in the spring and fall of each school year. Contractor shall verify exact dates with Owner. NO work shall be permitted in the building during the school day during testing without prior written approval. The Owner reserves the right to allow specific trades and activities in limited areas depending on the potential for noise and disturbance during these times.
1. Any inspection work occurring during testing periods must be completed either before or after school is in session.
- F. Restricted Substances: Use of tobacco products, e-cigarettes (vaping) and other controlled substances on Project site is not permitted on Fort Wayne Community Schools property.

- G. Employee Identification: Provide identification in the form of clothing or hard hats with company logos for all Contractor and Sub-contractor personnel working on Project site. Require personnel to wear identification at all times.

1.10 SPECIFICATION AND DRAWING CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words and phrases when used in particular situations. These conventions are as follows:
 - 1. Imperative mood and streamlined language are generally used in the Specifications. The words “shall”, “shall be” or “shall comply with”, depending on the context, are implied where a colon (;) is used within a sentence or phrase.
 - 2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
- B. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.
- C. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
 - 1. Terminology: materials and products are identified by the typical generic terms used in the individual Specifications Sections.
 - 2. Abbreviations: Materials and products are identified by the typical generic terms as part of the U.S. National CAD Standard and scheduled on Drawings.
 - 3. Keynoting: Materials and products are identified by reference keynotes referencing Specification Section numbers found in this Project Manual.

1.11 MISCELLANEOUS PROVISIONS

- A. Asbestos Containing Materials (ACM)
 - 1. Any ACM shall be removed by the Owner prior to the start of work schedule by the Contractor.
 - 2. If any other suspect ACM is discovered during the course of work, Contractor shall promptly notify the Owner. Owner shall perform testing and, if determined to be regulated asbestos containing building materials, Category I or Category II non-friable asbestos containing materials, the Owner will be responsible to remove materials in compliance with regulatory standards.
 - 3. Contact FWCS designated Project Manager at (260) 467-2075.
- B. Existing Conditions
 - 1. Each Contractor is responsible to field verify existing conditions and dimensions. The Contractor requiring said verification for the construction or fabrication of his material shall be the Contractor responsible for procurement of the field information.

2. Notify the design architect/engineer promptly if existing field conditions differ from those indicated on the bid documents. Do not remove or alter structural components without prior written approval.
- C. Each Contractor shall be responsible for securing his work and equipment at the close of each work day.
- D. Fire alarms: If the work requires repair, modifications or replacement of fire alarm systems or components, the Contractors shall provide notification to the Owner a minimum of 72 hours before a fire alarm is rendered inactive.
 1. If a fire alarm device is fouled with construction debris/duct/dirt and activates the alarm system, the Contractor shall be solely responsible for all costs associated with false fire truck dispatch and shall replace the soiled device with a new device matching the device that initiated the alarm. Cleaning a triggering device is not acceptable.

PART 2 - EXECUTION (Not Applicable)

END OF SECTION

**SECTION 072100
THERMAL INSULATION**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Board insulation at exterior wall behind metal panel wall finish.

1.02 RELATED REQUIREMENTS

- A. Section 072500 - Weather Barriers: Installation next to drainage plane.

1.03 REFERENCE STANDARDS

- A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.
- B. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2023.
- C. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2023.
- D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.
- E. ASTM E2357 - Standard Test Method for Determining Air Leakage Rate of Air Barrier Assemblies; 2023a.
- F. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components; 2023.

1.04 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.

PART 2 PRODUCTS

2.01 APPLICATIONS

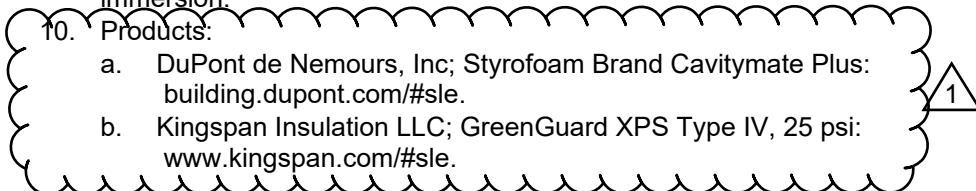
- A. Insulation Over Metal Stud Framed Walls with Sheathing, Continuous: Extruded polystyrene (XPS) carbon black board.

2.02 FOAM BOARD INSULATION MATERIALS

- A. Extruded Polystyrene (XPS) Board Insulation: Complies with ASTM C578 with either natural skin or cut cell surfaces.
 - 1. Type and Compressive Resistance: Type IV, 25 psi (173 kPa), minimum.
 - 2. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
 - 3. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
 - 4. Type and Thermal Resistance, R-value (RSI-value): Type IV, 5.0 (0.88), minimum, per 1 inch (25.4 mm) thickness at 72 degrees F (____) mean temperature.
 - 5. Complies with fire resistance requirements indicated on drawings as part of an exterior non-load-bearing exterior wall assembly when tested in accordance with NFPA 285.
 - 6. Board Size: 48 x 96 inch.
 - 7. Board Thickness: As indicated on drawings.
 - 8. Board Edges: Scored square
 - 9. Type and Water Absorption: Type XII, 0.3 percent by volume, maximum, by total immersion.

10. Products:

- a. DuPont de Nemours, Inc; Styrofoam Brand Cavitymate Plus: building.dupont.com/#sle.
- b. Kingspan Insulation LLC; GreenGuard XPS Type IV, 25 psi: www.kingspan.com/#sle.



- c. Owens Corning Corporation; FOAMULAR NGX Type 250 Next Generation Extruded: www.ocbuildingspec.com/#sle
- d. Substitutions: See Section 016000 - Product Requirements.

1

2.03 ACCESSORIES

- A. Tape: Reinforced polyethylene film with acrylic pressure sensitive adhesive.
1. Application: Sealing of interior circular penetrations, such as pipes or cables.
 2. Width: Are required for application.
- B. Flashing Tape: Special reinforced film with high performance adhesive.
1. Application: Window and door opening flashing tape.
 2. Width: As required for application.
- C. Tape: Polyethylene self-adhering type, mesh reinforced, 2 inch (50 mm) wide.
- D. Continuous Insulation (CI) Support Clips: Thermally-broken, with thermal spacer clip or steel support clip with thermal isolator pad for support of cladding z-girts, angles, channels, and other insulation framing.
1. Thermal Spacer Clip: Pultruded glass fiber and thermoset polyester resin clip; 3/16 inch (4.8 mm) thick at top, base, and web.
 2. Galvanized Steel Support Clip: 14 gauge, 0.0747 inch (1.90 mm), G90/Z275 galvanized support clip complying with ASTM A653/A653M, with integral glass fiber reinforced polyamide thermal isolator pad.
 3. Clip Depth: As indicated on drawings.
- E. Nails or Staples: Steel wire; electroplated or galvanized; type and size to suit application.
- F. Wire Mesh: Galvanized steel, hexagonal wire mesh.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation.
- B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond.

3.02 BOARD INSTALLATION AT EXTERIOR WALLS

- A. Install rigid insulation directly to steel studs or exterior grade sheathing at 16 inches (406 mm) on center with manufacturer recommended mechanical fasteners, and tape joints with manufacturer's minimum 4 inches (102 mm) wide sealant tape; comply with ASTM E2357.
- B. Install boards horizontally on walls.
- C. Cut and fit insulation tightly to protrusions or interruptions to the insulation plane.

3.03 PROTECTION

- A. Do not permit installed insulation to be damaged prior to its concealment.

END OF SECTION

**SECTION 074213
METAL WALL PANELS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Manufactured metal panels for exterior wall panels and subgirt framing assembly, with related flashings and accessory components.

1.02 RELATED REQUIREMENTS

- A. Section 061000 - Rough Carpentry: Wall panel substrate.
- B. Section 072100 - Thermal Insulation.
- C. Section 072500 - Weather Barriers: Weather barrier under wall panels.
- D. Section 079200 - Joint Sealants: Sealing joints between metal wall panel system and adjacent construction.

1.03 REFERENCE STANDARDS

- A. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.
- B. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- C. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.
- D. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.
- E. NFPA 285 - Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components; 2023.

1.04 SUBMITTALS

- A. Product Data - Wall System: Manufacturer's data sheets on each product to be used, including:
 - 1. Physical characteristics of components shown on shop drawings.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation instructions and recommendations.
- B. Shop Drawings: Indicate dimensions, layout, joints, construction details, support clips, and methods of anchorage.
- C. Test Reports: Submit test report verifying compliance with NFPA 285 for previously-tested exterior wall assembly.
- D. Manufacturer's qualification statement.
- E. Installer's qualification statement.
- F. Warranty Documentation for Installation of Building Rainscreen Assembly: Submit installer warranty and ensure that forms have been completed in Owner's name and registered with installer.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years of documented experience.
- B. Installer Qualifications: Company specializing in installing products specified in this section with minimum five years of documented experience.
- C. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Protect panels from accelerated weathering by removing or venting sheet plastic shipping wrap.
- B. Store prefinished material off the ground and protected from weather; prevent twisting, bending, or abrasion; provide ventilation; slope metal sheets to ensure proper drainage.
- C. Prevent contact with materials that may cause discoloration or staining of products.

1.07 FIELD CONDITIONS

- A. Do not install wall panels when air temperature or relative humidity are outside manufacturer's limits.

1.08 WARRANTY

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Metal Wall Panels - Concealed Fasteners:
 - 1. Sobotec Limited; SL-2100P: www.sobotec.com/#sle.
 - 2. Substitutions: See Section 016000 - Product Requirements.

2.02 METAL WALL PANEL SYSTEM

- A. Wall Panel System: Factory fabricated prefinished metal panel system, site assembled.
 - 1. Provide exterior wall panels and subgirt framing assembly.
 - 2. Design and size components to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of wall.
 - 3. Design Pressure: In accordance with applicable codes.
 - 4. Fire Performance: Tested in accordance with, and complying with acceptance criteria of NFPA 285.
 - 5. Maximum Allowable Deflection of Panel: $L/180$ for length(L) of span.
 - 6. Movement: Accommodate movement within system without damage to components or deterioration of seals, movement between system and perimeter components when subject to seasonal temperature cycling; dynamic loading and release of loads; and deflection of structural support framing.
 - 7. Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.
 - 8. Fabrication: Formed true to shape, accurate in size, square, and free from distortion or defects; pieces of longest practical lengths.
 - 9. Corners: Factory-fabricated in one continuous piece with minimum 2-inch (51 mm) returns.
 - 10. Provide continuity of weather barrier seal at building enclosure elements in accordance with requirements; see Section 072500.
- B. Exterior Wall Panels:
 - 1. Profile: Vertical and horizontal, as indicated; style as indicated.
 - 2. Side Seams: Double-interlocked with reveal, sealed with continuous gaskets.
 - 3. Thickness: 3mm (0.0120 in).
 - 4. Material: Precoated aluminum sheet, 20 gauge, 0.032 inch (0.81 mm) minimum thickness.
 - 5. Color: As indicated on drawings.

- C. Subgirt Framing Assembly:
 - 1. Subgirts: Minimum 0.050 inch (1.2mm) Z275 galvanized steel as per manufacturer's requirements for panel attachment system.
 - 2. Design and fabricate appropriate type, size, quantity and spacing of all sub-connectors, girts, fasteners and other anchorage devices as required to suit the specified standards.

- D. Internal and External Corners: Same material, thickness, and finish as exterior sheets; profile to suit system; shop cut and factory mitered to required angles.
- E. Expansion Joints: Same material, thickness and finish as exterior sheets; manufacturer's standard brake formed type, of profile to suit system.
- F. Flashing and Trim:
 - 1. Prefinished aluminum in accordance with Section 076200.
 - 2. Finish: Match color of adjacent metal panel wall system.
- G. Trim: Same material, thickness and finish as exterior sheets; brake formed to required profiles.
 - 1. Provide custom factory-fabricated integral companion flashing, trims, end caps and finishing components from same material as the aluminum building panels.
- H. Anchors: Galvanized steel.

2.03 MATERIALS

- A. Precoated Aluminum Sheet: ASTM B209/B209M, 3105 alloy, O temper, with smooth surface texture; continuous-coil-coated on exposed surfaces with specified finish coating and on panel back with specified panel back coating.
 - 1. Thickness: 0.0120 in (3mm), minimum.
 - 2. Machine fabricate all material in accordance with reviewed shop drawings with straight lines, square corners or smooth bends, free from twists, kinks, warps, dents, and other imperfections which may affect appearance or serviceability.
 - 3. Panels shall be aligned with no lap or reveal other than joint width to permit expansion and contraction.
 - 4. Trim and flashing shall be factory-fabricated ready for assembly.
 - 5. All necessary holes shall be drilled and clip attachments applied before application of finish.
 - 6. Back of panels shall be sealed to perimeter framing with continuous bead of silicone sealant.
- B. Select materials with surface flatness, smoothness, and lack of surface blemishes where exposed to view in finished system.

2.04 FINISHES

- A. Fluoropolymer Coil Coating System: Polyvinylidene fluoride (PVDF) multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent PVDF resin, and at least 80 percent of coil coated metal surfaces having minimum total dry film thickness (DFT) of 0.9 mil, 0.0009 inch (0.023 mm); color and gloss as selected by Architect from manufacturer's standard line.
 - 1. Products:
 - a. Arkema, Inc; Kynar 500: www.arkema.com/#sle.
 - b. PPG; Duranar: www.ppgmetalcoatings.com/#sle.
 - c. Substitutions: See Section 016000 - Product Requirements.

2.05 ACCESSORIES

- A. Support for Cladding and Continuous Insulation: Thermal clips.
 - 1. Thermally-broken clips that provide attachment support for girts, angles, channels, and other cladding support framing.
 - 2. Clip Depth: As required for thickness of insulation.
 - 3. Fasteners: As recommended by clip manufacturer.
 - a. Fasteners shall be concealed.
- B. Panel Joints:
 - 1. Extruded aluminum full length perimeter frame as detailed on drawings.
 - 2. Reveal Joint Filler to be same material and color as panels.
- C. Concealed Sealants: Non-curing butyl sealant or tape sealant, see Section 079200.

1. Install sealant to penetrations through panels and at junctions with dissimilar materials in accordance with Section 079200.
- D. Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, steel, hot dip galvanized. Fastener cap same color as exterior panel.
 1. Self-locking fasteners shall be stainless steel with nylon inserts or patches.
 2. Fastening devices between aluminum or aluminum and other materials shall be aluminum or stainless steel that will not permit staining.
- E. Field Touch-up Paint: As recommended by panel manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that building framing members are ready to receive panels.
- B. Inspect the work of the others upon which the work of this section depends and report in writing to the Consultant any defects which would impair the performance of work.

3.02 PREPARATION

- A. Protect surrounding areas and adjacent surfaces from damage during execution of this work.

3.03 INSTALLATION

- A. Install panels on walls in accordance with manufacturer's instructions.
- B. Protect surfaces in contact with cementitious materials and dissimilar metals with bituminous paint; allow to dry prior to wall panel installation.
- C. Fasten panels to structural supports; aligned, level, and plumb.
- D. Locate joints over supports.
- E. Lap panel ends 2 inches (51 mm), minimum.
- F. Use concealed fasteners unless otherwise indicated by Architect.
- G. Seal and place gaskets to prevent weather penetration. Maintain neat appearance.
- H. Install all girts, clips, anchors, and flashing securely to surrounding construction spaced to afford maximum rigidity.
- I. Provide all holes for mechanical and electrical services, piping, louvers, etc., penetrating panels. Provide watertight flanges, flashings, reinforcing and sealant around all penetrations exposed to the weather and or as shown on the drawings.

3.04 FIELD QUALITY CONTROL

- A. The manufacturer's or suppliers professional design engineer shall be responsible for production of shop drawings and shall provide periodic inspections during construction as required. Such inspections and associated costs shall be included in Bid Price.

3.05 TOLERANCES

- A. Offset From True Alignment Between Adjacent Members Abutting or In Line: 1/16 inch (1.6 mm), maximum.
- B. Variation from Plane or Location As Indicated on Drawings: 1/4 inch (6.4 mm), maximum.

3.06 CLEANING

- A. Remove site cuttings from finish surfaces.
- B. Remove protective material from wall panel surfaces.
- C. Use cleaners approved by the manufacturers of surfaces to be cleaned.

3.07 PROTECTION

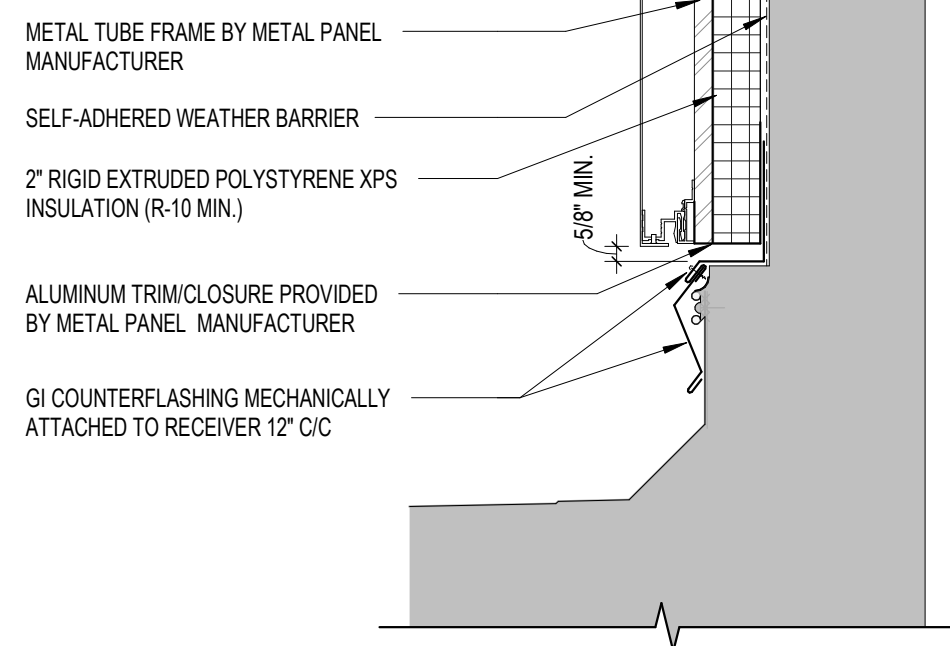
- A. Protect metal wall panels until completion of project.

- B. Touch-up, repair, or replace damaged wall panels or accessories before Date of Substantial Completion.

END OF SECTION

F24109 - 2025 Facade Replacement at
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PREFINISHED METAL COMPOSITE WALL PANEL RAINSCREEN SYSTEM. ATTACHED VIA THERMALLY BROKEN BACK-UP SUBSTRATE OF METAL TUBE FRAME AND CONTINUOUS INSULATION BOARD AS SPECIFIED. BASIS OF DESIGN EQUAL TO SOBOTEK SL-2000. SEE ELEVATIONS FOR COLORS/FINISH LAYOUT AND REVEALS.



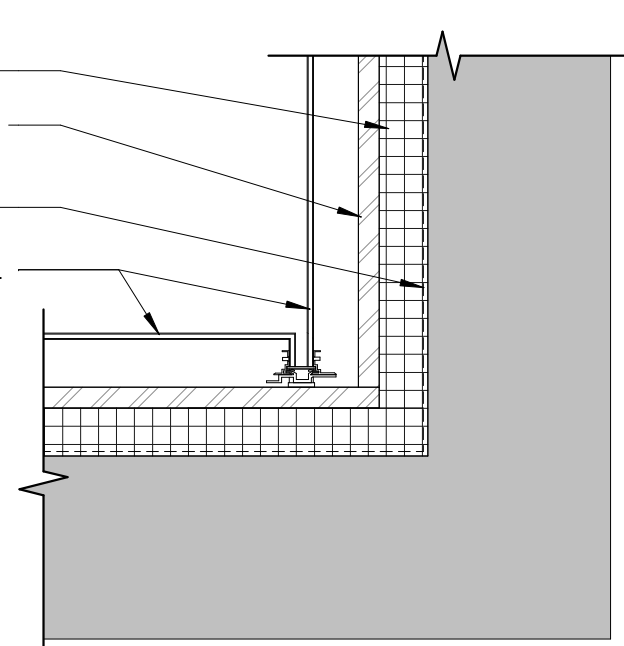
11 Base Flashing @ Roof
 1 1/2" = 1'-0"

2X WOOD BLOCKING MECHANICALLY ATTACHED TO SUBSTRATE
 PREFINISHED GI COPING CAP
 CONTINUOUS GI COPING CLIP MECHANICALLY ATTACHED TO SUBSTRATE
 PREFINISHED METAL COMPOSITE WALL PANEL RAINSCREEN SYSTEM. ATTACHED VIA THERMALLY BROKEN BACK-UP SUBSTRATE OF METAL TUBE FRAME AND CONTINUOUS INSULATION BOARD AS SPECIFIED. BASIS OF DESIGN EQUAL TO SOBOTEK SL-2000. SEE ELEVATIONS FOR COLORS/FINISH LAYOUT AND REVEALS.
 SELF-ADHERED WEATHER BARRIER
 METAL TUBE FRAME BY METAL PANEL MANUFACTURER
 2" RIGID EXTRUDED POLYSTYRENE XPS INSULATION (R-10 MIN.)

NEW GI COPING SUPPORTS MECHANICALLY FASTENED TO SUBSTRATE
 EXISTING WOOD BLOCKING TO REMAIN. REPLACE ANY DAMAGED OR DETERIORATED WOOD BLOCKING WITH NEW WOOD BLOCKING. PROTECT EXISTING ROOFING SYSTEM ATTACHED TO WOOD BLOCKING WHILE NEW COPING IS INSTALLED
 SELF-ADHERED WEATHER WATERPROOFING UNDERLAYMENT
 EXISTING CMU BLOCK WALL

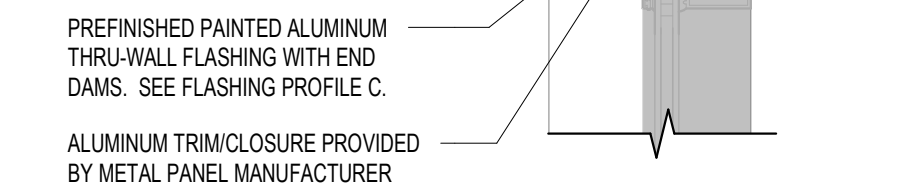
7 Coping Detail
 1 1/2" = 1'-0"

2" RIGID EXTRUDED POLYSTYRENE XPS INSULATION (R-10 MIN.)
 METAL TUBE FRAME BY METAL PANEL MANUFACTURER
 SELF-ADHERED WEATHER BARRIER
 PREFINISHED METAL COMPOSITE WALL PANEL RAINSCREEN SYSTEM. ATTACHED VIA THERMALLY BROKEN BACK-UP SUBSTRATE OF METAL TUBE FRAME AND CONTINUOUS INSULATION BOARD AS SPECIFIED. BASIS OF DESIGN EQUAL TO SOBOTEK SL-2000. SEE ELEVATIONS FOR COLORS/FINISH LAYOUT AND REVEALS.



10 Inside Corner
 1 1/2" = 1'-0"

2" RIGID EXTRUDED POLYSTYRENE XPS INSULATION (R-10 MIN.)
 METAL TUBE FRAME BY METAL PANEL MANUFACTURER
 SELF-ADHERED WEATHER BARRIER
 PREFINISHED METAL COMPOSITE WALL PANEL RAINSCREEN SYSTEM. ATTACHED VIA THERMALLY BROKEN BACK-UP SUBSTRATE OF METAL TUBE FRAME AND CONTINUOUS INSULATION BOARD AS SPECIFIED. BASIS OF DESIGN EQUAL TO SOBOTEK SL-2000. SEE ELEVATIONS FOR COLORS/FINISH LAYOUT AND REVEALS.
 PREFINISHED PAINTED ALUMINUM THRU-WALL FLASHING WITH END DAMS. SEE FLASHING PROFILE C.
 ALUMINUM TRIM CLOSURE PROVIDED BY METAL PANEL MANUFACTURER



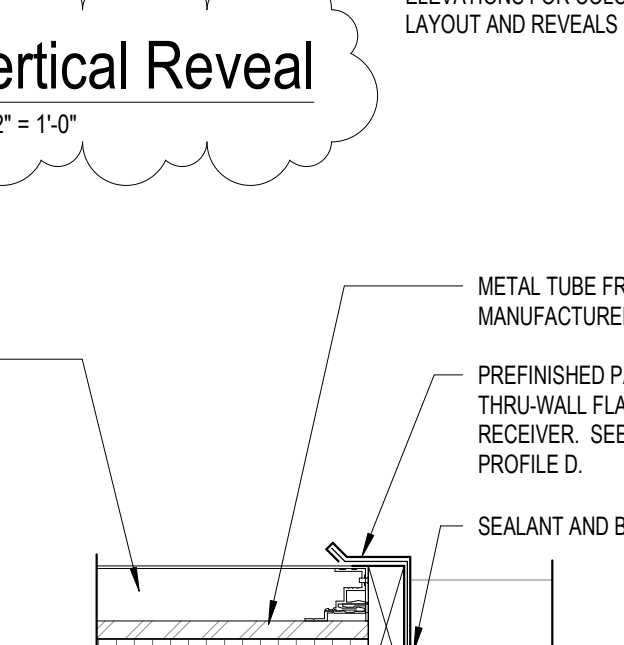
6 Window Head @ Metal Panel
 1 1/2" = 1'-0"

SEALANT AND BACKER ROD
 PREFINISHED PAINTED ALUMINUM THRU-WALL FLASHING WITH RECEIVER AND END DAMS. SEE FLASHING PROFILE B.
 PREFINISHED METAL COMPOSITE WALL PANEL RAINSCREEN SYSTEM. ATTACHED VIA THERMALLY BROKEN BACK-UP SUBSTRATE OF METAL TUBE FRAME AND CONTINUOUS INSULATION BOARD AS SPECIFIED. BASIS OF DESIGN EQUAL TO SOBOTEK SL-2000. SEE ELEVATIONS FOR COLORS/FINISH LAYOUT AND REVEALS.
 SELF-ADHERED WEATHER BARRIER
 METAL TUBE FRAME BY METAL PANEL MANUFACTURER
 2" RIGID EXTRUDED POLYSTYRENE XPS INSULATION (R-10 MIN.)



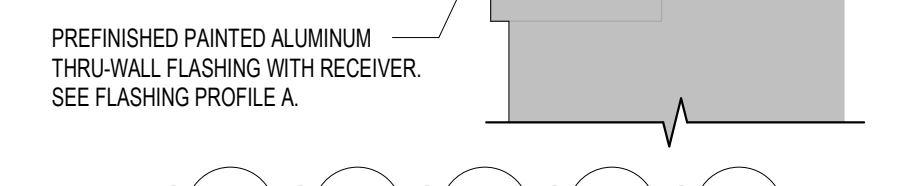
5 Window Sill @ Metal Panel
 1 1/2" = 1'-0"

2" RIGID EXTRUDED POLYSTYRENE XPS INSULATION (R-10 MIN.)
 METAL TUBE FRAME BY METAL PANEL MANUFACTURER
 SELF-ADHERED WEATHER BARRIER
 PREFINISHED METAL COMPOSITE WALL PANEL RAINSCREEN SYSTEM. ATTACHED VIA THERMALLY BROKEN BACK-UP SUBSTRATE OF METAL TUBE FRAME AND CONTINUOUS INSULATION BOARD AS SPECIFIED. BASIS OF DESIGN EQUAL TO SOBOTEK SL-2000. SEE ELEVATIONS FOR COLORS/FINISH LAYOUT AND REVEALS.
 SELF-ADHERED WEATHER BARRIER
 METAL TUBE FRAME BY METAL PANEL MANUFACTURER
 2" RIGID EXTRUDED POLYSTYRENE XPS INSULATION (R-10 MIN.)



9 Vertical Reveal
 1 1/2" = 1'-0"

SEALANT AND BACKER ROD
 PREFINISHED PAINTED ALUMINUM THRU-WALL FLASHING WITH RECEIVER. SEE FLASHING PROFILE D.
 PREFINISHED METAL COMPOSITE WALL PANEL RAINSCREEN SYSTEM. ATTACHED VIA THERMALLY BROKEN BACK-UP SUBSTRATE OF METAL TUBE FRAME AND CONTINUOUS INSULATION BOARD AS SPECIFIED. BASIS OF DESIGN EQUAL TO SOBOTEK SL-2000. SEE ELEVATIONS FOR COLORS/FINISH LAYOUT AND REVEALS.
 SELF-ADHERED WEATHER BARRIER
 METAL TUBE FRAME BY METAL PANEL MANUFACTURER
 2" RIGID EXTRUDED POLYSTYRENE XPS INSULATION (R-10 MIN.)

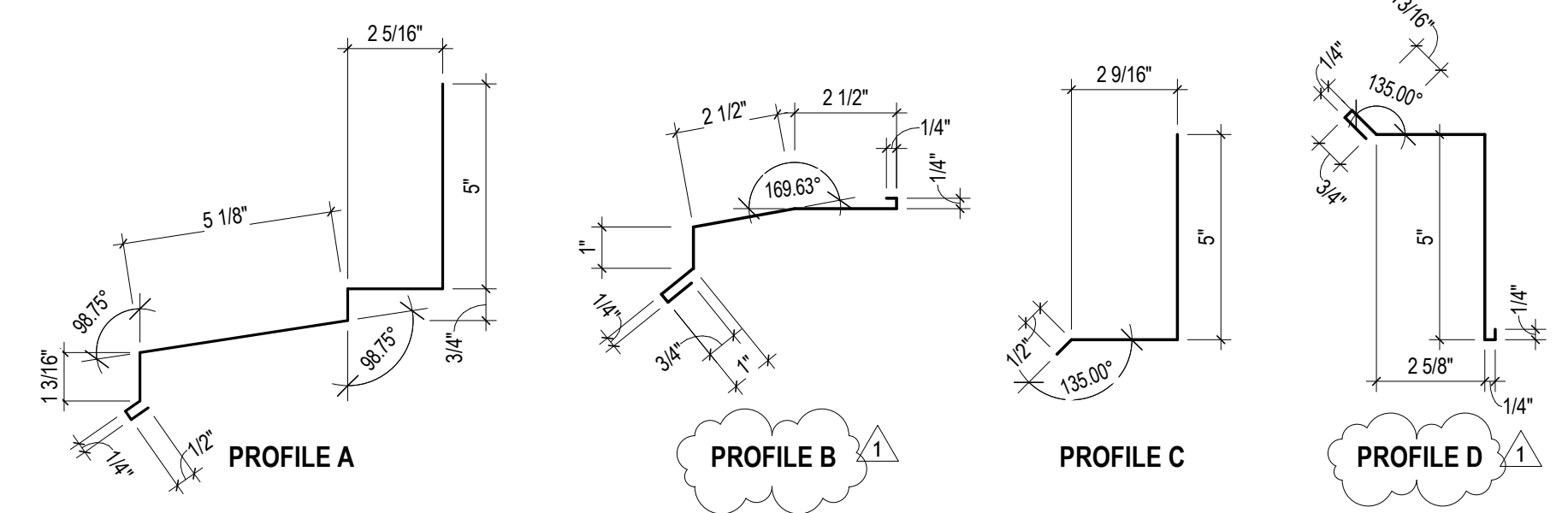


8 Window Jamb @ Metal Panel
 1 1/2" = 1'-0"

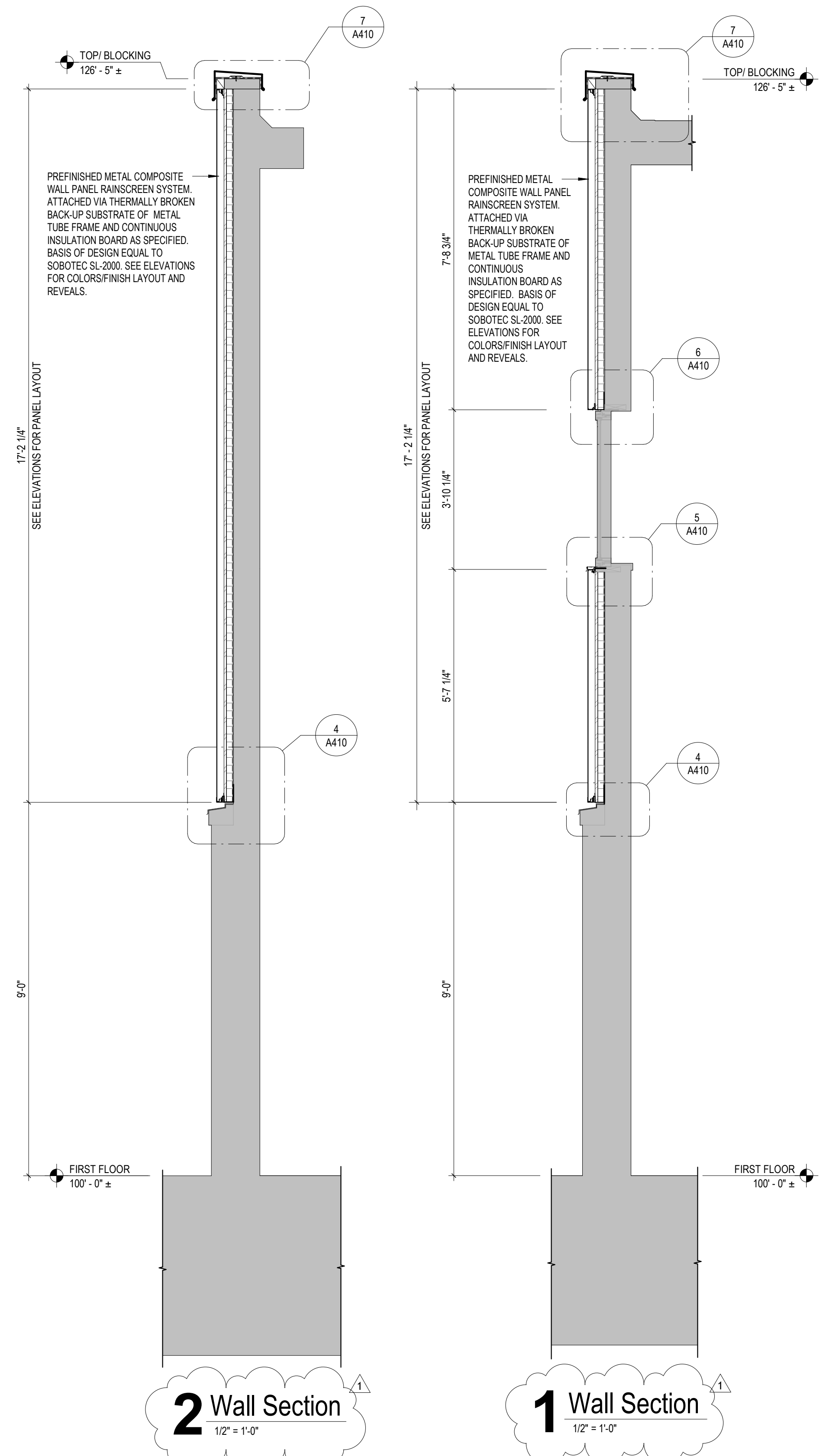
PREFINISHED METAL COMPOSITE WALL PANEL RAINSCREEN SYSTEM. ATTACHED VIA THERMALLY BROKEN BACK-UP SUBSTRATE OF METAL TUBE FRAME AND CONTINUOUS INSULATION BOARD AS SPECIFIED. BASIS OF DESIGN EQUAL TO SOBOTEK SL-2000. SEE ELEVATIONS FOR COLORS/FINISH LAYOUT AND REVEALS.
 SELF-ADHERED WEATHER BARRIER
 METAL TUBE FRAME BY METAL PANEL MANUFACTURER
 2" RIGID EXTRUDED POLYSTYRENE XPS INSULATION (R-10 MIN.)
 NEW WOOD BLOCKING MECHANICALLY ATTACHED TO SUBSTRATE



12 Wall Penetration Details
 1 1/2" = 1'-0"



3 Flashing Profiles
 3" = 1'-0"



New Construction and Renovation Work for :

2025 Facade Replacement at Wayne High School

9100 Winchester Rd,
 Fort Wayne, IN 46819

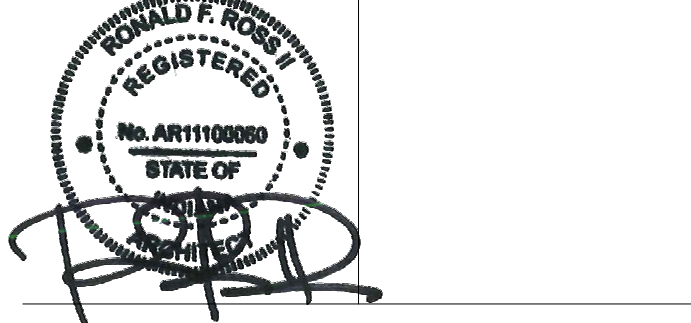


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REVISION	DATE
1	ADDENDUM 2
	4 - 11 - 2025

DRAWN BY: PK, LM, SG, BB
 COMMISSION NUMBER: F24109
 REVIEWED BY: RR
 DATE: 2025-03-20

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WALL SECTIONS