



375 Essjay Road, Suite 200, Williamsville, New York 14221
P 716.688.0766 F 716.625.6825

ADDENDUM NO. 04

Northland Corridor Redevelopment Project Phase 4
631 Northland Ave.
Buffalo, NY 14211

DATE

October 31, 2025

OWNER

Buffalo Urban Development Corporation
95 Perry Street, Suite 404
Buffalo, NY 14203

ARCHITECT/ENGINEER

Wendel WD Architecture, Engineering, Surveying & Landscape Architecture, PC
375 Essjay Road, Suite 200
Williamsville, NY 14221

Project No. 432607

This Addendum is being issued to clarify the bid documents and shall supersede and supplement all portions of previously issued bid documents with which it conflicts. It shall be made an integral part of the construction documents.



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Project Northland Corridor Redevelopment Phase 4 (BUDC) Addendum No. 4
631 Northland Avenue, Buffalo, NY Contract -
Wendel Project No. 432607 Date 10/31/25

ARTICLE - 1

DRAWING NO. N/A

BID DATE EXTENSION

SPEC
SECTION 001113

REVISE: New bid due date is **Wednesday, November 12th, 2025**, before 1:00PM EST.

ARTICLE - 2

DRAWING NO. N/A

SPEC
SECTION MWBE (Bid Form)

QUESTION: Will the GC also need to submit one (1) electronic copy and seven (7) paper copies of the MWBE Utilization Plan along with one (1) electronic and seven (7) paper copies of the Waiver Request Form – OR will one (1) copy of each be sufficient?

ANSWER: The MWBE Utilization Plan is not required at this time. Contractors ARE required to include the MWBE subcontractors and percentages as requested in the Bid Form with their Bid Proposal.

ARTICLE - 3

DRAWING NO. N/A

SPEC
SECTION 085113 –
Aluminum
Windows

DELETE: Delete section 085113 Aluminum Windows

ADD: Revised section 085113 Aluminum Windows included as part of this addendum.

CLARIFICATION: Section 085113 Warranty periods have been revised and the reference to fluoropolymer finishes has been deleted.

ARTICLE - 4

DRAWING NO. N/A

SPEC
SECTION N/A

QUESTION: Please clarify what kind of muntin's are required on the windows? The photos of the original windows show true muntins with individual lights of glass, and the architectural drawings seem to show one large IG unit with simulated divided lites (recommend method).

ANSWER: The original windows have individual lites and the proposed windows shall have simulated divided lights. As per the documents and conditional approval by SHPO and National Parks Service, the simulated lites shall have interior and exterior muntins with another block between in order to truly simulate individual lites.



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ARTICLE - 5

DRAWING NO. N/A

SPEC
SECTION 071616 Crystalline
Waterproofing,
TOC

DELETE: Delete specification section 071616 Crystalline Waterproofing as it is not applicable.

REPLACE: Revised Table of Contents is included as part of this addendum.

ARTICLE - 6

DRAWING NO. A901

SPEC
SECTION N/A



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QUESTION: It appears that there are long runs with 3 pc mullions between each unit and a sill starter extrusion at the sill and interior snap trim and clip at the head, is that correct? Please clarify.

Section details 6 & 7 on A901 do not appear to show the 2nd floor window conditions for the head and sill. Is contractor to assume the head and sill shown in details 6 & 7 on A901 are the same as the 2nd floor windows?

Is there any break metal required for the interior or exterior? Please see the section details 6 & 7 on A901. Should there be BM covering the wood in the steel on the interior? Should there be BM covering any old steel? What is the design intent.

Please reference A901: Detail 5/A901 just shows the window "floating" at the head. Is there to be wood blocking AND interior snap trim at this location?

Section 6 and 7/A901: Snap trim is detailed at the head of the first/lower section. Is this also to be at the second/middle section that is not shown? The upper section does not detail any snap trim, so I am unsure what the requirement is of the second/middle section.

Addendum #3 removed snap trim details 5, 6, 7 on A901. What should be used to capture the head the windows at detail 6 & 7. Would a head receptor be acceptable in these locations, or what is the intent here? Please confirm snap trim is still required per details 3 & 5 (sill location) on A901.

ANSWER: Please refer to revised drawing A901 attached for further clarity.

Bid drawings include the sill starter extrusion on the lowest ribbon of windows that sits on the concrete sill. The 2nd and 3rd rows of windows have the blocking that the sills sit on, with an extension on the exterior side of the sill. The interior snap trim at the head of the windows was removed in Addendum 3.

The head detail is the same on the 1st and 2nd rows of windows per the attached A901. The head detail on the 3rd row is shown and slightly different. The sill detail is the same on the 2nd and 3rd rows. The sill detail is different on the 1st row as shown.

There is break metal required. The wood blocking on the interior will receive .040 break metal. Approximate sizes have been clarified on the attached A901. The exterior will receive the same break metal to cover the existing steel. Photographs of the existing condition and selective demo are attached for reference. There is currently no flashing provided at the head of the 3rd row of windows. Note that Sections 6 & 7 on A901 only show the first and third rows of windows. The second row of windows has the same details and requires the same break metal flashing and blocking.

Blocking is to be provided at all windowsills and heads where a steel angle is present.

Basis of design manufacturer has confirmed the snap trim will be needed at all the window heads. The wood blocking will need to have aluminum break metal applied as well. This applies to sills and heads. Snap trim will be required at sill details 3 & 5 on A901.

CLARIFICATION: Snap trim IS REQUIRED and clarified as such on the revised A901. Please disregard Article 5 in Addendum 03 which removed the snap trim.

REPLACE: Drawing A901 with the revised attached to this addendum.



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ARTICLE - **7**

DRAWING NO. **N/A**

SPEC
SECTION **040110**

QUESTION:

Notes on the exterior and interior demolition and architectural drawing elevations indicate cleaning of existing substrates is required as part of the contract work. These include D01- Clean concrete with low-pressure washing; D02- Clean the concrete floor that remains after the removal of the wood blocking; C16- Clean Sandblaster & Furnace; C12, 18, 22, 23- Clean Building Exterior.

Will a mockup area of the cleaning procedure be required? Should the mockup demonstrate pressure washing only, or is the inclusion of chemical cleaning or detergent application expected? Any restrictions on chemical usage, water temperature, or pressure limits? What is the standard of Cleanliness? Is it industry standard (e.g., ICRI, SSPC-SP, or similar) should be used to define the target cleanliness level? If no formal standard applies, please clarify whether the Owner/Architect will approve the mockup visually to set the project's cleanliness benchmark. Should the bid be based on the level of cleanliness achieved in the approved mockup, or should alternate pricing be provided for multiple cleaning levels (e.g., "light wash," "standard clean," "deep restoration")?

ANSWER:

Contractor shall refer to spec section 040110 Masonry Cleaning which describes the procedure for mockups and approvals from Owner and Architect, and definitions of cleaning levels. Due to the historic nature of the building in accordance with SHPO and National Parks Service.

ARTICLE - **8**

DRAWING NO. **A900**

SPEC
SECTION **087100**

QUESTION:

1. Can you please provide hardware sets for each of the openings?
2. Drawing A-900 shows an elevation for Door Type C. Where does this door go? Door Type C is not shown on the Door Schedule. Can you please provide further information for this door?

ANSWER:

1. Hardware sets for openings are included in spec section 087100. Please refer to the attached revised section.
2. Please refer to drawing sheet A-900 updated with OH Door Type 'C' location on the west facade and labeled SO4.

REPLACE: Specification Section 087100 Finish Hardware with the revised included in this addendum.

REPLACE: Drawing Sheet A-900 revised and included in this addendum.



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ARTICLE - **9**

DRAWING NO. **A451**
SPEC
SECTION **N/A**

QUESTION:

1. Drawing A301, Note C08 calls for metal roofing. Can you please provide a specification for this?
2. There is a section cut through this metal roof, Detail 13/A451 and the detail shows a membrane roof, not a metal roof. Please advise which is correct.

ANSWER:

1. Refer to Structural drawings and spec section 053100 Steel Decking.
2. Please refer to the revised drawing sheet A-451 for clarification. The membrane roof is on top of the metal roof and used to pitch the roof.

REPLACE: Drawing A-451 with the revised attached as part of this addendum.

ARTICLE - **10**

DRAWING NO. **A251**
SPEC
SECTION **098100 - Microlite**

QUESTION:

Drawing A251, Key Note Legend lists Spec 09 81 00 Microlite. We do not have this spec, but I also could not find it on this page of details. Is it applicable to this project?

ANSWER: That section is not applicable to this project. Contractor shall refer to revised TOC issued as part of this addendum.

DELETE: Delete specification section 098100 Microlite from the project and Table of Contents.

REPLACE: Drawing A-251 with the revised issued as part of this addendum.

ARTICLE - **11**

DRAWING NO. **C201**
SPEC
SECTION **N/A**

QUESTION: On C201 at the water & sanitary tie-in locations, note 11 is called out but there shouldn't be an existing bioretention system at this location. Please clarify if this is typo.

ANSWER: Please refer to Addendum 03, Article 10. There is an existing "bioswale" between curb and sidewalk. Contractor shall be responsible for restoring that section of the bioswale. The bioswale replacement section was included in Addendum 03, C201.



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ARTICLE - 12

DRAWING NO. N/A
SPEC
SECTION N/A

QUESTION: Please clarify if the sprinkler system is required to be installed and operating at the start of construction – refer to division 01 51 00 section M.

ANSWER: Contractor's spec reference is incorrect. They are referring to Section 015000 Temporary Facilities and Controls, Section M on page 7 of that section. Please review the question and resubmit accordingly.

ARTICLE - 13

DRAWING NO. N/A
SPEC
SECTION 085113

ADD: Approved Substitution specific to Aluminum Windows spec section 085113. Architectural Manufacturing Window Corporation (AWM) Series3100i Fixed and Projected is an acceptable alternative to the Basis of Design.

As discussed at the Prebid Meeting, a mockup of the basis-of-design window is in process. Upon SHPO and NPS final approval of the mock-up, the Contractor will be responsible for documenting subtle differences between the BOD and the AWM product should this substitution be awarded the contract.

ARTICLE - 14

DRAWING NO. N/A
SPEC
SECTION Bid Form

QUESTION:

Bid form: Does the contractor have to list all subcontractors at the time bid or can this be provided once the apparent lower bidder has been informed? Will a GC's bid be rejected if they are not provided at time of bid?

ANSWER:

Yes, as per the Bid Form, BUDC requires that a list of subcontractors be submitted at the time of bid with MWBE participation identified. This information is important for BUDC's compliance with its Grant Agreement which includes a 30% M/WBE participation goal. For clarification, and as per Instructions to Bidders, the award will not be based solely on lowest bid amount.



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ARTICLE - 15

DRAWING NO.	<u>N/A</u>
SPEC	<u>001113, 017419,</u>
SECTION	<u>024119</u>

QUESTION:

1. Please confirm that the delivery location of the paper copies of the bid proposal is the location listed on the Invite to Bidders section 001113 1.4 E.
2. Per addenda 3, article 12 answer 3, a revised section 017419 was to be provided but was not included in the addenda.
3. Per revised section 024119 1.4 B "Contractor shall be responsible for the removal and legal disposal of all loose building contents; These loose contents include, but are not limited to, all non-fixed furniture, equipment, appliances, and miscellaneous debris". At the project pre bid it was noted that there are multiple items that could be considered "miscellaneous debris", this included but was not limited to building construction materials, containers, file cabinets, pallets, wood containers, steel beams, snow removal equipment etc. Please provide an itemized list of what items the contractor is responsible for removing or provide an allowance to carry for this scope.

ANSWER:

1. Bid proposals shall be submitted as noted in Section 001113, 1.4 E. and the Instructions to Bidders.
2. Section 017419 was not revised and therefore not included.
3. Contractor shall include loose building removals as identified in spec section 024119 in the lump sum bid.

CLARIFICATION: Specification Section 017419 was **NOT** revised as part of Addendum 3 and thereby not reissued.

ARTICLE - 16

DRAWING NO.	<u>C102, C103, C201</u>
SPEC	
SECTION	<u>N/A</u>

QUESTION:

1. Ref. Drawings C102, Notes to the Contractor: Please confirm that the owner will be hiring the qualified inspector to perform SWPP inspections.
2. Ref. Site Preparation Note 11 on C103: Please provide a detailed scope for what is anticipated by "Refurnish" Existing Frame and Gate.
3. Ref. Site Preparation Note 11 on C103 and Note 8 on C201. Drawing C201 shows a new 6' high fence being installed where the existing frame and grate referenced in Note 11 on C103 currently is called out to remain. Please clarify the scope of work required.

ANSWER:

1. Owner to provide SWPP inspections as required.
2. "Refurnish" shall include complete sanding and repainting of the posts and gate to remain. Color to be coordinated with owner.
3. The new 6' high fence shall terminate at each existing gate posts. Existing gate shall remain "refurnished" and in closed position, inoperable.



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ARTICLE - 17

DRAWING NO. N/A
SPEC
SECTION 085113

QUESTION:

Please confirm screens are not required. There is no mention of screens in 085113 - Aluminum Windows. Details also did not reflect screens.

ANSWER:

Screens are not part of the project as this is a Historic Preservation project and screens are not permitted by National Parks Service for at least 5 years.

ARTICLE - 18

DRAWING NO. N/A
SPEC
SECTION N/A

QUESTION:

At what depth will the site sub-contractor be able to start their excavation? Is LiRo excavating to a specified elevation? If LiRo is to dig to 10', and the site sub contractor only include 1' of cut/fills, who then carries the installation of stone at 9'? The GC's need to know at what elevation will the site be left be LiRo.

ANSWER:

Excavation and soil removal, related to the BCP, has not yet been determined. All bids should address site work as designed and noted on the bid documents.

ARTICLE - 19

DRAWING NO. N/A
SPEC
SECTION 323113 – Chain Link Fences

ADD: Specification section 323113 – Chain Link Fences included as part of this addendum. Table of Contents has also been updated accordingly.

ARTICLE - 20

DRAWING NO. A101B & A454, Cover Sheet
SPEC
SECTION N/A



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QUESTION: Please provide details for the two railings shown on Drawing A101B and 2/A311 on column line 8.5 from I to J.

ANSWER: Please refer to revised drawing A101B and newly added drawing A454.

REPLACE: Drawing A101B with the revised and Drawing Cover Sheet adding the newly added sheet issued as part of this addendum.

ADD: Drawing A454 showing the railing on the ramp.

ARTICLE - 21

DRAWING NO. N/A
SPEC
SECTION 312319-1.3

QUESTION:

1. Section 312319-1.3 says that dewatering observation wells are part of the dewatering allowance. Please clarify.

2. Reference Section 312319: Please confirm that a temporary dewatering system designed by a professional engineer is required on this project.

ANSWER:

1. Dewatering observation well allowance is not applicable; remove 312319-1.3 from the specification.
2. The Contractor shall provide a temporary dewatering plan prepared and implemented by an experienced dewatering contractor. The plan shall outline proposed methods, equipment, estimated pumping rates, discharge locations, and measures for erosion and sediment control as noted in the specification. The dewatering plan shall be submitted to the Engineer of Record for review and acceptance before commencement of excavation activities and shall obtain a discharge permit from the City/BSA as required.

DELETE: Remove item 1.3 Allowances in spec section 312319 from the specification.

ARTICLE - 22

DRAWING NO. N/A
SPEC
SECTION 087113 – Power Door Operators

QUESTION: Can you please provide a specification for the Automatic Door Operator as shown on the drawing E101, Note #8?

ANSWER: Please refer to newly added spec section 087113 Power Door Operators.

ADD: Specification Section 087113 Power Door Operators issued as part of this addendum and reflected in the attached Table of Contents.



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ARTICLE - **23**

DRAWING NO. **N/A**

SPEC **051200 –**
SECTION **Structural Steel**
Framing

QUESTIONS:

1. Detail 1/S203 labels the added steel stair as "By Others". Please confirm this should be included in our bid.
2. In Detail 9/S204 there are ½"x 4" studs at 18" o.c. embedded at the top of the concrete wall. Are these studs attached to a steel plate or to the deck edge bent plate? Please clarify.
3. Ref. Drawings S103A and S103B: The roof drains are labeled "shown for info only". Please confirm should include the reinforcement at these roof drains per Detail 4/S103A in our proposal.
4. Article 10 in addenda 2 responded only to the certification requirements for the steel fabricator; can the AISC requirement for the erector also be modified for experience requirements?

ANSWERS:

1. Reference architectural and civil documents for stair requirements.
2. Headed studs welded to continuous 3/8" deck edge bent plate as shown in 9/S204.
3. Roof drains are not structural and shown for information only on structural drawings. See mechanical and plumbing drawings for roof drain information. Added structural steel for supporting the concrete plank roof deck at drain locations is required as shown on the structural drawings.
4. Reference Specification 05 12 00 – Structural Steel Framing revised to add paragraph 1.6.B.1

REPLACE: Specification section 051200 Structural Steel Framing revised and issued as part of this addendum.

ARTICLE - **24**

DRAWING NO. **N/A**

SPEC
SECTION **N/A**

QUESTION:

Will the owner be providing air monitoring and testing of soils for the duration of the brownfield cleanup and during the work of this contract?

ANSWER:

The owner will provide Community Air Monitoring and any soil sampling required by BCP during intrusive soil work. The contractor is responsible for all testing required for landfill acceptance of excavated soil.



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ARTICLE - 25

DRAWING NO. N/A
SPEC N/A
SECTION

QUESTION:

For bidding purposes, what should we bidders assume to do with any water that is pumped during site dewatering? Should we assume that ground and surface water are contaminated?

ANSWER:

Contractor is to manage dewatering effluent in conformance with drawings and specifications. Water disposition must conform to USEPA, NYSDEC and City regulations and requirements. Contractor should assume that testing will be required to show compliance with regulating agency requirements. Contractor shall also refer to Phase II Environmental reports in Specification Appendix for groundwater results.

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263600 TRANSFER SWITCHES

265100 INTERIOR LIGHTING

265619 LED EXTERIOR LIGHTING

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

283111 DIGITAL, ADDRESSABLE FIRE ALARM SYSTEM

DIVISION 31 - EARTHWORK

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PROJECT MANUAL

FOR

NORTHLAND CORRIDOR REDEVELOPMENT PROJECT PHASE 4 AT 631 NORTHLAND
AVENUE

ARCHITECT'S PROJECT NUMBER: 4326-07

ESD Regional Economic & Community Assistance Program #135,711

BUFFALO URBAN DEVELOPMENT CORPORATION

95 PERRY STREET, SUITE 404

BUFFALO, NEW YORK 14203

DATE: October 1, 2025

PREPARED BY:

WENDEL WD ARCHITECTURE, ENGINEERING, SURVEYING AND LANDSCAPE
ARCHITECTURE, P.C.

PART 1 GENERAL

1.1 PROJECT IDENTIFICATION

- A. Project Name: Northland Corridor Redevelopment Project Phase 4, located at 631 Northland Avenue, Buffalo, NY 14211.
- B. Architect's Project Number: 4326-07
- C. The Owner, hereinafter referred to as Owner: 631 Northland, LLC c/o Buffalo Urban Development Corporation (BUDC)
- D. Owner's Project Manager: Angelo Rhodes II
 - 1. Address: 95 Perry Street, Suite 404
 - 2. City, State, Zip: Buffalo, NY 14203
 - 3. Phone/Fax: 716-901-5386
 - 4. E-mail: arhodes@buffalourbandevelopment.com.
- E. Owner's Property Manager: Dennis Cannon
 - 1. Address: 683 Northland Ave.
 - 2. City, State, Zip: Buffalo, NY 14211
 - 3. E-mail: dennis.cannon@comvestinc.com

1.2 NOTICE TO PROSPECTIVE BIDDERS

- A. These documents constitute an Invitation to Bid to and request for qualifications from General Contractors for the construction of the project described below.

1.3 PROJECT DESCRIPTION

- A. Summary Project Description: Restoration of the 631 Northland Avenue historic building, an approximate 40,000SF high bay industrial building listed on the National Register and accepted into the Brownfield Cleanup Program.
- B. Contract Scope: Construction, selective demolition, renovation, site and infrastructure improvements, and hazardous material removal, and coordination with appropriate agencies supporting the historic nature of the building and required Brownfield cleanup and testing.
- C. Contract Terms: Lump sum (fixed price, stipulated sum).
- D. The premises are not presently occupied yet do share a shared driveway and surface lot.
 - 1. Coordination with the Owner's Property Manager during bid and construction is required for access/use of shared drive access, other.
 - 2. Comvest Inc. business hours are Monday through Friday: 7AM to 3PM.
All prospective bidders must notify the Owner's Property Manager in advance of project site examinations.

1.3 PROJECT CONSULTANTS

- A. The Architect, hereinafter referred to as Architect: Wendel WD Architecture, Engineering, Surveying and Landscape Architecture, P.C.
 - 1. Address: 375 Essay Road, Suite 200
 - 2. City, State, Zip: Williamsville NY 14221
 - 3. Phone/Fax: 716-688-0766

1.4 PROCUREMENT TIMETABLE

- A. Bid Documents Available: October 1, 2025
- B. Pre-Bid Site Tour: 9:00 AM (EST), October 14, 2025 at 631 Northland Avenue, Buffalo, NY 14211
- C. Last Request for Substitution Due: 7 days prior to due date of bids.
- D. Last Request for Information Due: 7 days prior to due date of bids.
- E. Bid Due Date: **Wednesday, November 12, 2025** before 1:00 PM local time. Bids shall be emailed and printed, as outlined in the Instructions to Bidders, to the attention of

Angelo Rhodes, II, Senior Project Manager, Northland Corridor
Buffalo Urban Development Corporation
95 Perry Street, Suite 404
Buffalo, New York, 14203
E-mail: arhodes@buffalourbandevelopment.com
- F. Notice to Proceed: To be determined by Owner, but anticipated to be no later than one hundred and twenty (120) days after the due date and subject to the full execution of the contract documents specified in 1.7(D) below.
- G. Bids May Not Be Withdrawn Until: 120 days after due date.
- H. Contract Time: 20 months
- I. Desired Final Completion Date: Twenty (20) months from the issuance of the Notice to Proceed but in no event later than December 31, 2027. Work is subject to liquidated damages.
- J. The Owner reserves the right to change the schedule or terminate the entire procurement process at any time.

1.5 PROCUREMENT DOCUMENTS

- A. Availability of Documents: Complete sets of procurement documents may be obtained at the Contractor's cost as follows:
 - 1. Contractor Reporter
 - 2. Avalon – Buffalo. <https://www.avalonbuff-planroom.com/projects/public>
40 La Riviere Dr., Buffalo, NY
(716) 995-7777
 - 3. The Construction Exchange Online Plan Room
<https://conexbuff.com/online-plan-room/>

1.6 BID SECURITY

- A. Bids shall be accompanied by a security deposit as follows:
 - 1. Bid Bond of a sum no less than 5 percent of the Bid Amount on AIA A310 BidBond Form.

1.7 FUNDING INFORMATION

- A. The Project is a funding recipient of RECAP – Regional Economic & Community Assistance Program, grant funding through Empire State Development (Project No. #135,711). Contractor will be required to comply with requirements set forth in the RECAP Grant Agreement. Copies of Owner’s grant documents are available from Owner upon Contractor’s request.
- B. This project is a capital improvement project.
 - 1. Materials purchased as part of the project by the Contractor are subject to sales tax which are passed along to the Owner.
 - 2. Labor charged by the Contractor is exempt from sales tax. Required forms to be completed and submitted.
- C. M/WBE Participation is required with an overall goal of thirty percent (30%). Contractor compliance and utilization reporting is required on a monthly basis.
- D. Copies of the A101-2017 *Standard Form of Agreement Between Owner and Contractor (where the basis of payment is a Stipulated Sum)*, Exhibit A to the A101 *Insurance and Bonds* and A201 *General Terms and Conditions* are included in Parts 005000 and 006001 of the Project Manual. The A101, Exhibit A to the A101 and A201 contain modifications as required by the Owner. If selected as the General Contractor for the redevelopment of 631 Northland Avenue, Contractor is expected to enter into the A101, Exhibit A to the A101 and A201 documents with Owner in the forms attached.

1.8 MINORITY AND WOMEN BUSINESS ENTERPRISE BUSINESS INTEREST

In accordance with Governor Hochul’s Executive Order No. 8 establishing a policy to promote equal opportunity in contracting for all persons, without discrimination for minority group members and women and business enterprises owned by them, and to eradicate the barriers that have impaired access by minority and women-owned business enterprise to State contracting opportunities, BUDC and ESD seek to encourage meaningful partnerships with and participation from NYS-certified Minority and Women-Owned Business Enterprise (M/WBE) at all project levels. For purposes of this solicitation, ESD hereby establishes an overall goal of 30% for Minority and Women-Owned Business Enterprises (“MWBE”) participation for third-party vendors and services utilized for this contract. The vendor must document good faith efforts to provide meaningful participation by M/WBE’s subcontractors or suppliers in the performance of the contract and agrees that BUDC may withhold payment pending receipt of the required M/WBE documentation. M/WBEs companies are encouraged to respond.

1.9 SELECTION PROCESS

Details with respect to Owner’s selection process are detailed in AIA701 *Instructions to Bidders*.

1.10 GENERAL REQUIREMENTS

According to State Finance Law §§139-j and 139-k, this invitation to bid imposes certain restrictions on communications between respondents and BUDC during the procurement process. Respondents are prohibited from making contacts (whether oral, written, or electronic) with any BUDC personnel or BUDC Board member other than the designated BUDC staff member (unless the contact is otherwise permitted under State Finance Law §139-j(3)(a)). In addition, respondents are hereby notified that any contact with any BUDC personnel, BUDC Board member, or the designated BUDC staff member which a reasonable person would infer is intended to influence the award of the contract under this invitation to bid is prohibited.

These prohibitions apply from the respondent's earliest notice of BUDC's intent to solicit proposals through the final award and approval of the procurement contract ("Restricted Period"). For this invitation to bid, the designated BUDC staff member is Angelo Rhodes II arhodes@buffalourbandevelopment.com.

A. **Respondent's Affirmation of Understanding of and Agreement Pursuant to State Finance Law §139-j(3) and §139-j(6)(b)**

BUDC is required to obtain written affirmations from all respondents as to the respondent's understanding of, and agreement to comply with BUDC's procedures relating to permissible contacts (described in paragraph 1 above). The affirmation must be provided to BUDC when the respondent submits its qualification statement. The form of affirmation to be completed and submitted by the respondent is included within Part 004113 as Exhibit A - Attachment 1 – Affirmation of Understanding Agreement.

B. **Respondent's Certification of Compliance with State Finance Law §139-k(5)**

State Finance Law §139-k(5) requires respondents to provide written certification that all information provided to BUDC with respect to State Finance Law §139-k is complete, true and accurate. The certification must be provided to BUDC when the respondent submits its qualification statement. The form of certification to be completed and submitted by the respondent is included within Part 004113 as Exhibit A – Attachment 2 – Offeror/Bidder Certification.

C. **Respondent Disclosure of Prior Non-Responsibility Determinations**

State Finance Law §139-k(2) obligates BUDC to obtain specific information regarding prior non-responsibility determinations with respect to State Finance Law §139-j. In accordance with State Finance Law §139-k, each respondent must disclose whether there has been a finding of non-responsibility made within the previous four (4) years by any Governmental Entity due to: (a) a violation of State Finance Law §139-j or (b) the intentional provision of false or incomplete information to a Governmental Entity. State Finance Law §139-j sets forth detailed requirements about the restrictions on contacts during the procurement process. A violation of State Finance Law §139-j includes, but is not limited to, an impermissible contact during the Restricted Period (for example, contacting a person or entity other than the designated contact person, when such contact does not fall within one of the exemptions).

As part of its responsibility determination, State Finance Law §139-k(3) mandates consideration of whether a respondent fails to timely disclose accurate or complete information regarding the above non-responsibility determination. In accordance with the law, no procurement contract shall be awarded to any respondent that fails to timely disclose accurate or complete information under this section, unless a finding is made that the award of the procurement contract to the respondent is

necessary to protect public property or public health and safety, and that the respondent is the only source capable of supplying the required article of procurement within the necessary timeframe. Exhibit A – Attachment 3 – Offeror Disclosure of Prior Non-Responsibility within Part 004113 must be completed by the respondent and submitted to BUDC at the time of respondent's submission of its qualification statement.

New York State Finance Law §139-k (5) provides that every procurement contract award subject to the provisions of State Finance Law §§139-k and 139-j shall contain a provision authorizing termination of the contract in the event that the certification provided by the respondent that is awarded the contract is found to be intentionally false or intentionally incomplete. Such provision shall be included in the contract that is awarded (if one is awarded) pursuant to this invitation to bid.

1.11 PUBLIC DOMAIN

Respondents are advised that New York law provides that, upon the award of a contract subsequent to an invitation to bid, the contents of all proposals received pursuant to said request may be placed in the public domain and become public records subject to examination by any interested parties pursuant to the New York State Freedom of Information Law (FOIL). All trade secrets and proprietary information, recognized by BUDC as such, may be protected from public disclosure if respondents clearly identify, in writing, those part or parts of their proposals, which they claim to be proprietary information, trade secrets or other commercial information, or non-individual financial information that may be protected under FOIL. Proposals in total will not be considered proprietary. After the recommendation of the Selection Committee to the BUDC Board and a contract is awarded, all proposals are considered public documents, except those items specifically identified as proprietary. All materials submitted by a respondent in response to this invitation to bid will become the property of BUDC.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 05 12 00 - STRUCTURAL STEEL FRAMING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Structural steel.
 - 2. Grout.
- B. Related Sections:
 - 1. Section 03100 "Concrete Formwork" for leveling plates and embedded items.
 - 2. Section 05 31 00 "Steel Decking" for field installation of shear connectors through deck.
 - 3. Section 05 50 00 "Metal Fabrications" for steel lintels and shelf angles not attached to structural-steel frame miscellaneous steel fabrications and other metal items not defined as structural steel.
 - 4. Section 01 81 13 "Sustainable Design Requirements"
 - 5. Section 09 91 23 "Interior Painting"

1.3 DEFINITIONS

- A. Structural Steel: Elements of structural-steel frame, as classified by AISC 303, "Code of Standard Practice for Steel Buildings and Bridges."

1.4 PERFORMANCE REQUIREMENTS

- A. Provide details of simple shear and moment connections required by the Contract Documents to be selected or completed by structural-steel fabricator to withstand loads indicated and comply with other information and restrictions indicated.
 - 1. Delegated Design: Engage a qualified professional engineer, as defined in section 314100 "Quality Requirements," to design Temporary Shoring and Bracing.
 - a. Select and complete connections using schematic details indicated in AISC 360.
 - b. Use ASD; data are given at service-load level.
 - c. Connection design and calculations shall be certified by a qualified professional engineer licensed to practice in the State of New York.

- B. Moment Connections: As indicated on the Drawings.
- C. Spliced Connections: Spliced connections shall develop the full design capacity of the lesser member.
- D. Fabricator may use alternate connections than those indicated in Contract Documents. Submit certified detail and calculations for review and acceptance prior to submitting shop drawings.

1.5 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Show fabrication of structural-steel components. Shop drawings shall be signed and sealed by a qualified professional engineer licensed to practice in the State of New York.
 - 1. Shop drawings shall be accompanied by an affidavit, countersigned by the appropriate contractor(s), attesting that all materials and products will conform to applicable specifications, standards, yield points, grades and the likes,
 - 2. Include plans, details of cuts, connections, splices, camber, holes, and other pertinent data.
 - 3. Contractor shall review all shop drawing submittals for compliance with design documents prior to submittal to architect for design concept review.
 - 4. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld. Show backing bars that are to be removed and supplemental fillet welds where backing bars are to remain.
 - 5. Indicate type, size, and length of bolts, distinguishing between shop and field bolts. Identify pretensioned and slip-critical high-strength bolted connections.
- C. Connection Calculations: Calculations and typical connection details shall be submitted for all connections not specifically detailed on contract documents. Connections and details shall be designed per criteria provided on the structural contract documents and per all relevant AISC documents. Calculations and details shall be signed and sealed by a qualified professional engineer licensed to practice in the State of New York.
- D. Qualification Data: For qualified Installer fabricator.
- E. Welding certificates.
- F. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.
- G. Mill test reports for structural steel, including chemical and physical properties.
 - 1. Submit certified copies of mill test reports for all steel furnished.
 - 2. Mill test reports shall comply with all applicable parts of ASTM specifications.
- H. Product Test Reports: For the following
 - 1. Bolts, nuts, and washers including mechanical properties and chemical analysis.

2. Direct-tension indicators.
3. Tension-control, high-strength bolt-nut-washer assemblies.
4. Shear stud connectors.
5. Shop primers.
6. Nonshrink grout.

- I. Source quality-control reports.

1.6 QUALITY ASSURANCE

- A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD.
- B. Installer Qualifications: A qualified installer who participates in the AISC Quality Certification Program and is designated an AISC-Certified Erector, Category CSE.
 1. Acceptance of installers not AISC-Certified shall be based upon the following:
 - a. Installer shall have 5-years or more experience installing structural steel at projects of similar size or more as compared to the requirements of the project. Contractor shall submit installer's experience, with references, to the Engineer of Record for review and Approval
 - b. Installer shall maintain and submit for review and approval their quality control – quality assurance plan indicating names of on-site competent person(s) (supervisor) responsible for overseeing structural steel installation work.
 - 1) Supervisor shall be required to be on site at all times during the structural steel installation work.
 - c. The installer shall strictly adhere to quality control and quality assurance requirements of the American Institute of Steel Construction (AISC) Chapter N.
- C. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
- D. Comply with applicable provisions of the following specifications and documents:
 1. AISC 303.
 2. AISC 360.
 3. RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
- E. Preinstallation Conference: Conduct conference at Project site.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store materials to permit easy access for inspection and identification. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect steel members and packaged materials from corrosion and deterioration.

1. Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.
- B. Store fasteners in a protected place in sealed containers with manufacturer's labels intact.
 1. Fasteners may be repackaged provided Owner's testing and inspecting agency observes repackaging and seals containers.
 2. Clean and re-lubricate bolts and nuts that become dry or rusty before use.
 3. Comply with manufacturers' written recommendations for cleaning and lubricating ASTM F 1852 fasteners and for retesting fasteners after lubrication.

1.8 COORDINATION

- A. Coordinate installation of anchorage items to be embedded in or attached to other construction without delaying the Work. Provide setting diagrams, sheet metal templates, instructions, and directions for installation.

PART 2 - PRODUCTS

2.1 STRUCTURAL-STEEL MATERIALS

- A. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 70 percent.
- B. W-Shapes: ASTM A 992/A 992M.
- C. Channels, Angles -Shapes: ASTM A 36/A 36M.
- D. Plate and Bar: ASTM A 36/A 36M.
- E. Cold-Formed Hollow Structural Sections: ASTM A 500, Grade B , structural tubing.
- F. Welding Electrodes: Comply with AWS requirements.

2.2 BOLTS, CONNECTORS, AND ANCHORS

- A. High-Strength Bolts, Nuts, and Washers: ASTM A 325, Type 1, heavy-hex steel structural bolts; ASTM A 563, Grade C, heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers; all with plain finish.
 1. Direct-Tension Indicators: ASTM F 959, Type 325, compressible-washer type with plain finish.
- B. High-Strength Bolts, Nuts, and Washers: ASTM A 490, Type 1, heavy-hex steel structural bolts or tension-control, bolt-nut-washer assemblies with splined ends; ASTM A 563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers with plain finish.

1. Direct-Tension Indicators: ASTM F 959, Type 490, compressible-washer type with plain finish.
- C. Tension-Control, High-Strength Bolt-Nut-Washer Assemblies: ASTM F 1852, Type 1, heavy-hex head assemblies consisting of steel structural bolts with splined ends, heavy-hex carbon-steel nuts, and hardened carbon-steel washers.
 1. Finish: Plain.
- D. Shear Connectors: ASTM A 108, Grades 1015 through 1020, headed-stud type, cold-finished carbon steel; AWS D1.1/D1.1M, Type B.
 1. Shear connectors shall be $\frac{3}{4}$ inch diameter, by 3 inches long.
- E. Unheaded Anchor Rods: ASTM F 1554, Grade 36.
 1. Configuration: Straight.
 2. Nuts: ASTM A 563.
- F. Threaded Rods: ASTM A 36/A 36M.
 1. Nuts: ASTM A 563.
- G. Adhesive Threaded Rod Anchors: ASTM F 1554, Grade 36 and Grade 55.
 1. Nuts: ASTM A 563.
 2. Provide Grade 55 anchors where called for on drawings. Anchors 1 inch diameter and greater shall be Grade 55.

2.3 GROUT

- A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107, factory-packaged, nonmetallic aggregate grout, noncorrosive and non-staining, mixed with water to consistency suitable for application and a 30-minute working time.

2.4 FABRICATION

- A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate according to AISC's "Code of Standard Practice for Steel Buildings and Bridges" and AISC 360.
- B. Thermal Cutting: Perform thermal cutting by machine to greatest extent possible.
 1. Plane thermally cut edges to be welded to comply with requirements in AWS D1.1/D1.1M.
- C. Bolt Holes: Cut, drill, mechanically thermal cut, or punch standard bolt holes perpendicular to metal surfaces.
- D. Finishing: Accurately finish ends of columns and other members transmitting bearing loads.

- E. Cleaning: Clean and prepare steel surfaces that are to remain unpainted according to SSPC-SP 2, "Hand Tool Cleaning ."
- F. Shear Connectors: Prepare steel surfaces as recommended by manufacturer of shear connectors. Use automatic end welding of headed-stud shear connectors according to AWS D1.1/D1.1M and manufacturer's written instructions.
- G. Holes: Provide holes required for securing other work to structural steel and for other work to pass through steel framing members.
 - 1. All misallocated holes shall be infilled with the same materials as the structural steel members
 - 2. All "flame cut" holes shall be cut such that they are 1/8" diameter less than the required hole diameter and the remaining material removed by mechanical removal.

2.5 SHOP CONNECTIONS

- A. High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
- B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
 - 1. Assemble and weld built-up sections by methods that will maintain true alignment of axes without exceeding tolerances in AISC 303 for mill material.
 - 2. All shop welds inaccessible for field testing after fabrication must be shop inspected.

2.6 GALVANIZING

- A. Hot-Dip Galvanized Finish: Apply zinc coating by the hot-dip process to structural steel according to ASTM A 123/A 123M.
 - 1. Fill vent and drain holes that will be exposed in the finished Work unless they will function as weep holes, by plugging with zinc solder and filing off smooth.
 - 2. Galvanize lintels attached to structural-steel frame and located in exterior walls.

2.7 SOURCE QUALITY CONTROL

- A. Testing Agency: Fabricator will engage an independent testing and inspecting agency to perform shop tests and inspections and prepare test reports or become an AISC- Certified Plant, Category STD.
 - 1. Provide testing agency with access to places where structural-steel work is being fabricated or produced to perform tests and inspections.
- B. Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.

- C. Bolted Connections: Shop-bolted connections will be inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
- D. Welded Connections: In addition to visual inspection, shop-welded connections will be tested and inspected according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
 - 1. Liquid Penetrant Inspection: ASTM E 165.
 - 2. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration will not be accepted.
 - 3. Ultrasonic Inspection: ASTM E 164.
 - 4. Radiographic Inspection: ASTM E 94.
- E. In addition to visual inspection, shop-welded shear connectors will be tested and inspected according to requirements in AWS D1.1/D1.1M for stud welding and as follows:
 - 1. Bend tests will be performed if visual inspections reveal either a less-than-continuous 360-degree flash or welding repairs to any shear connector.
 - 2. Tests will be conducted on additional shear connectors if weld fracture occurs on shear connectors already tested, according to requirements in AWS D1.1/D1.1M.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify, with steel Erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedment's for compliance with requirements.
 - 1. Prepare a certified survey of bearing surfaces, anchor rods, bearing plates, and other embedment's showing dimensions, locations, angles, and elevations.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural steel, connections, and bracing are in place unless otherwise indicated.
 - 1. Do not remove temporary shoring supporting composite deck construction until cast-in-place concrete has attained its design compressive strength.

3.3 ERECTION

- A. Set structural steel accurately in locations and to elevations indicated and according to AISC 303 and AISC 360.
- B. Base Bearing and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
 - 1. Set plates for structural members on wedges, shims, or setting nuts as required.

2. Weld plate washers to top of baseplate.
 3. Pretension anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
 4. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.
- C. Maintain erection tolerances of structural steel within AISC's "Code of Standard Practice for Steel Buildings and Bridges."
- D. Align and adjust various members that form part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that will be in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
1. Level and plumb individual members of structure.
 2. Make allowances for difference between temperature at time of erection and mean temperature when structure is completed and in service.
- E. Splice members only where indicated on contract documents.
- F. Do not use thermal cutting during erection unless approved by Architect. Finish thermally cut sections within smoothness limits in AWS D1.1/D1.1M.
- G. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.
- H. Shear Connectors: Prepare steel surfaces as recommended by manufacturer of shear connectors. Use automatic end welding of headed-stud shear connectors according to AWS D1.1/D1.1M and manufacturer's written instructions.

3.4 FIELD CONNECTIONS

- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
- B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
1. Comply with AISC 303 and AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.
 2. Assemble and weld built-up sections by methods that will maintain true alignment of axes without exceeding tolerances in AISC's "Code of Standard Practice for Steel Buildings and Bridges" for mill material.

3.5 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified independent testing and inspecting agency to inspect field welds and high-strength bolted connections.
- B. Bolted Connections: Bolted connections will be tested and inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
- C. Welded Connections: Field welds will be visually inspected according to AWS D1.1/D1.1M.
1. In addition to visual inspection, field welds will be tested and inspected according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:

- a. Liquid Penetrant Inspection: ASTM E 165.
 - b. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration will not be accepted.
 - c. Ultrasonic Inspection: ASTM E 164.
 - d. Radiographic Inspection: ASTM E 94.
 - D. In addition to visual inspection, test and inspect field-welded shear connectors according to requirements in AWS D1.1/D1.1M for stud welding and as follows:
 - 1. Perform bend tests if visual inspections reveal either a less-than-continuous 360-degree flash or welding repairs to any shear connector.
 - 2. Conduct tests on additional shear connectors if weld fracture occurs on shear connectors already tested, according to requirements in AWS D1.1/D1.1M.
 - E. Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.
- 3.6 REPAIRS AND PROTECTION
- A. Galvanized Surfaces: Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A 780.

Wendel Project No. 4326-07
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Buffalo Urban Development Corporation
Northland Corridor Redevelopment Project Phase 4

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END OF SECTION 051200

SECTION 085113 - ALUMINUM WINDOWS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Extruded aluminum windows with fixed sash, operating sash, and infill panels.
- B. Factory glazing.
- C. Operating hardware.

1.2 RELATED REQUIREMENTS

- A. Section 072500 - Weather Barriers: Sealing frame to water-resistive barrier installed on adjacent construction.
- B. Section 088000 - Glazing.

1.3 REFERENCE STANDARDS

- A. AAMA/WDMA/CSA 101/I.S.2/A440 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights.
- B. AAMA CW-10 - Care and Handling of Architectural Aluminum from Shop to Site.
- C. AAMA 611 - Specification for Anodized Architectural Aluminum.
- D. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- E. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric).

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Convene one week before starting work of this section.

1.5 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Grade Substantiation: Prior to submitting shop drawings or starting fabrication, submit one of the following showing compliance with specified grade:
 - 1. Evidence of AAMA Certification.
 - 2. Evidence of WDMA Certification.
 - 3. Evidence of CSA Certification.
 - 4. Test report(s) by independent testing agency itemizing compliance and acceptable to authorities having jurisdiction.

1.6 QUALITY ASSURANCE

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Comply with requirements of AAMA CW-10.
- B. Protect finished surfaces with wrapping paper or strippable coating during installation. Do not use adhesive papers or sprayed coatings that bond to substrate when exposed to sunlight or weather.

1.8 FIELD CONDITIONS

- A. Do not install sealants when ambient temperature is less than 40 degrees F.
- B. Maintain this minimum temperature during and 24 hours after installation of sealants.

1.9 WARRANTY

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.
- B. Correct defective work within a five year period after Date of Substantial Completion.
- C. Manufacturer Warranty: Provide 5-year manufacturer warranty against failure of glass seal on insulating glass units, including interpane dusting or misting. Include provision for replacement of failed units. Complete forms in Owner's name and register with manufacturer.
- D. Manufacturer Warranty: Provide 5-year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Aluminum Window Manufacturers:
 - 1. Basis of Design: Winco Window Company, Inc; Series 3250: www.wincowindow.com.
 - 2. Substitutions: See Section 016000 - Product Requirements.

2.2 ALUMINUM WINDOWS

- A. Aluminum Windows: Extruded aluminum frame and sash, factory fabricated, factory finished, with operating hardware, related flashings, and anchorage and attachment devices.
 - 1. Frame Depth: 3-1/2 inch.
 - 2. Operable Units: Double weatherstripped.
 - 3. Provide factory-glazed units.
 - 4. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors; fasteners and attachments concealed from view; reinforced as required for operating hardware and imposed loads.
 - 5. Perimeter Clearance: Minimize space between framing members and adjacent construction while allowing expected movement.

6. Movement: Accommodate movement between window and perimeter framing and deflection of lintel, without damage to components or deterioration of seals.
7. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.
8. Thermal Movement: Design to accommodate thermal movement caused by 180 degrees F surface temperature without buckling stress on glass, joint seal failure, damaging loads on structural elements, damaging loads on fasteners, reduction in performance or other detrimental effects.

B. Fixed, Non-Operable Type:

1. Construction: Thermally broken.
2. Glazing: Double; clear; transparent.
3. Exterior Finish: Class I natural anodized.
4. Interior Finish: Class I natural anodized.

C. Outswinging Casement Type:

1. Construction: Thermally broken.
2. Glazing: Double; clear; transparent.
3. Exterior Finish: Class I natural anodized.
4. Interior Finish: Class I natural anodized.

2.3 PERFORMANCE REQUIREMENTS

A. Grade: AAMA/WDMA/CSA 101/I.S.2/A440 requirements for specific window type:

1. Performance Class (PC): R.

2.4 COMPONENTS

- A. Frames: Sizes, styles and configurations as indicated on the drawings.
- B. Operable Sash Weatherstripping: Wool pile; permanently resilient, profiled to achieve effective weather seal.
- C. Glazing Materials: See Section 088000.
- D. Sealant for Setting Sills and Sill Flashing: Non-curing butyl type.

2.5 MATERIALS

- A. Extruded Aluminum: ASTM B221 (ASTM B221M), 6063 alloy, T6 temper.

2.6 HARDWARE

2.7 FINISHES

- A. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41, clear anodic coating not less than 0.7 mil thick.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that wall openings and adjoining water-resistive barrier materials are ready to receive aluminum windows; see Section 072500.

3.2 PRIME WINDOW INSTALLATION

- A. Install windows in accordance with manufacturer's instructions.
- B. Attach window frame and shims to perimeter opening to accommodate construction tolerances and other irregularities.
- C. Align window plumb and level, free of warp or twist. Maintain dimensional tolerances and alignment with adjacent work.
- D. Install sill and sill end angles.
- E. Provide thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
- F. Install operating hardware not pre-installed by manufacturer.
- G. Install glass and infill panels in accordance with requirements; see Section 088000.

3.3 TOLERANCES

- A. Maximum Variation from Level or Plumb: 1/16 inches every 3 ft non-cumulative or 1/8 inches per 10 ft, whichever is less.

3.4 ADJUSTING

- A. Adjust hardware for smooth operation and secure weathertight closure.

END OF SECTION 085113

SECTION 087100 - FINISH HARDWARE

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

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

1.02 DESCRIPTION OF WORK

- A. Definition: "Finish Hardware" includes items known commercially as finish hardware which are required for swing, sliding and folding doors, except special types of unique and non-matching hardware specified in the same section as the door and door frame.
- B. Work generally includes the provision of finish hardware for all new doors.
- C. Types of finish hardware required include the following:
 - 1. Hinges
 - 2. Lock cylinders and keys
 - 3. Lock and latch sets
 - 4. Bolts
 - 5. Closers
 - 6. Miscellaneous door control devices
 - 7. Door trim units
 - 8. Protection plates
 - 9. Weatherstripping for exterior doors
 - 10. Thresholds

1.03 QUALITY ASSURANCE

- A. Manufacturer: Obtain each type of hardware (latch and lock sets, hinges, closers, etc.) from a single manufacturer, although several may be indicated as offering products complying with requirements.
- B. Supplier: A recognized architectural finish hardware supplier, with warehousing facilities, who has been furnishing hardware in the project's vicinity for a period of no less than 3 years, and who is, or who employs an experienced architectural hardware consultant.

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's technical product data for each item of hardware. Include whatever information may be necessary to show compliance with requirements, and include instructions for installation and for maintenance of operating parts and finish.

- B. Hardware Schedule: Submit final hardware schedule in manner indicated below. Coordinate hardware with doors, frames and related work to ensure proper size, thickness, hand, function and finish of hardware.
- C. Final Hardware Schedule Content: Based on finish hardware indicated, organize hardware schedule into "hardware sets" indicating complete designations of every item required for each door or opening. Include the following information:
 - 1. Type, style, function, size and finish of each hardware item.
 - 2. Name and manufacturer of each item.
 - 3. Location of hardware set cross-referenced to indications on drawings both on floor plans and in door and frame schedule.
 - 4. Explanation of all abbreviations, symbols, codes, etc., contained in schedule.
 - 5. Mounting locations for hardware.
 - 6. Door and frame sizes and materials.
 - 7. Keying information.
- D. Submittal Sequence: Submit schedule at earliest possible date particularly where acceptance of hardware schedule must precede fabrication of other work (e.g., hollow metal frames) which is critical in the project construction schedule. Include with schedule the product data, samples, shop drawings of other work affected by finish hardware, and other information essential to the coordinated review of hardware schedule.
- E. Keying Schedule: Submit separate detailed schedule indicating clearly how the Owner's final instructions on keying of locks has been fulfilled.
- F. Templates: Furnish hardware templates to each fabricator of doors, frames and other work to be factory-prepared for the installation of hardware. Upon request, check shop drawings of such other work, to confirm that adequate provisions are made for proper location and installation of hardware.

1.05 PRODUCT HANDLING

- A. Tag each item or package separately, with identification related to final hardware schedule, and include basic installation instructions with each item or package.
- B. Packaging of hardware, is responsibility of finish hardware supplier. As material is received by hardware supplier from various manufacturers, sort and repackage in containers clearly marked with appropriate hardware set number to match set numbers of approved hardware schedule. Two or more identical sets may be packed in same container.
- C. Inventory hardware jointly with representatives of hardware supplier and hardware installer until each is satisfied that count is correct.
- D. Deliver individually packaged hardware items at the proper times to the proper locations (shop or project site) for installation.
- E. Provide secure lock-up for hardware delivered to the project, but not yet installed. Control handling and installation of hardware items which are not immediately replaceable, so that completion of the work will not be delayed by hardware losses, both before and after installation.

PART 2 - PRODUCTS

2.01 SCHEDULED HARDWARE

- A. Requirements for design, grade, function, finish, size and other distinctive qualities of each type of finish hardware are indicated in the Hardware Schedule at the end of this section. Products are identified by using manufacturer's hardware numbers.
- B. Manufacturer's Product Designations: One manufacturer is listed for each hardware type required. Provide either the product designated, or, comparable approved product of one of the other manufacturers which comply with requirements including those specified elsewhere in this section.

2.02 MATERIALS AND FABRICATION

General:

- A. Hand of door: Drawings show direction of slide, swing or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.
- B. Base Metals: Produce hardware units of basic metal and forming method indicated, using manufacturer's standard metal alloy, composition, temper and hardness, but in no case of lesser (commercially recognized) quality than specified for applicable hardware units by applicable ANSI A156 series standard for each type hardware item and with ANSI A156.18 for finish designations indicated. Do not furnish "optional" materials or forming methods for those indicated, except as otherwise specified.
- C. Fasteners: Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation. Do not provide hardware which has been prepared for self-tapping sheet metal screws, except as specifically indicated.
- D. Furnish screws for installation, with each hardware item. Provide Phillips flat-head screws except as otherwise indicated. Finish exposed (exposed under any condition) screws to match hardware finish or, if exposed in surfaces of other work, to match finish of such other work, including "prepared for paint" in surfaces to receive painted finish.
- E. Provide concealed fasteners for hardware units which are exposed when door is closed, except to extent no standard units of type specified are available with concealed fasteners.

2.03 HINGES, BUTTS AND PIVOTS

- A. Templates: Provide only template-produced units.
- B. Screws: Furnish Phillips flat-head or machine screws for installation of units. Finish screw heads to match surface of hinges or pivots.

2.04 LOCKS, CYLINDERS AND KEYING

- A. General: Supplier will meet with Owner to finalize keying requirements and obtain final instructions in writing.
- B. Locksets: Locksets shall be Extra Heavy Duty mortise or cylindrical lever-set type. Function shall be as indicated in hardware sets. Trim shall be lever handle (handicapped accessible).
- C. Standard System: Except as otherwise indicated, provide new cylinder to match Owner's preferred keying system.
- D. Metals: Construct lock cylinder parts from brass/ bronze, stainless steel or nickel silver.
- E. Comply with Owner's instructions for master keying and, except as otherwise indicated, provide individual change key for each lock which is not designated to be keyed alike with a group of related locks.
 - 1. Keys shall be plain bow (no identification), and shall be stamped "DO NOT DUPLICATE."
- F. Key Material: Provide keys of nickel silver only.
- G. Key Quantity: Furnish 3 change keys for each lock.
 - 1. Deliver keys to Owner's representative.

2.05 LOCKS, LATCHES AND BOLTS

- A. Strikes: Provide manufacturer's standard strike for all latch or lock bolts, with curved lip extended to protect frame, finished to match hardware set.
- B. Lock Throw: Provide 1/2" minimum throw of latch and deadbolt used on pairs of doors. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.
- C. Flush Bolt Heads: Minimum of 1/2" diameter rods of bronze with minimum 12" long rod for doors up to 7'-2" in height.

2.06 CLOSERS AND DOOR CONTROL DEVICES

- A. Size of Units: Except as otherwise specifically indicated, comply with the manufacturer's recommendations for size of door control unit, depending upon the size of door, exposure to weather and anticipated frequency of use.
- B. Provide parallel arms for all overhead closers, except as otherwise indicated.

2.07 WALL BUMPERS AND DOOR STOPS

- A. Bumpers and stops are not noted on schedule. Provide wall bumper at every door. Provide floor bumper where wall bumpers cannot be used. Provide grey resilient parts for bumpers. Finish US26D or US32D. Use risers and extenders of same finish as hardware.

2.08 DOOR TRIM UNITS

- A. Fasteners: Provide manufacturer's standard exposed fasteners for door trim units (kick plates, edge trim, and similar units); either machine screws or self-tapping screw.
 - 1. Plates: US32D

2.09 WEATHERSTRIPPING

- A. General: Provide continuous weatherstripping at each edge of exterior door leaves where indicated. Provide type, sizes and profiles shown or scheduled. Provide non-corrosive fasteners as recommended by manufacturer for application indicated.
- B. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strip is easily replaceable and readily available from stocks maintained by manufacturer.
- C. Weatherstripping at Jambs and Heads: Provide bumper- type resilient insert and metal retainer strips, surface-applied unless shown as mortised or semi-mortised, of clear anodized aluminum and EPDM/Sponge Neoprene, and adjustable astragals as stiles.
- D. Weatherstripping at Door Bottoms: Provide door bottom consisting of contact type resilient insert and metal housing for application to door bottom, of design and size shown; of extruded bronze solid neoprene wiper sweep seal.

2.10 THRESHOLDS

- A. General: Except as otherwise indicated provide standard aluminum threshold as shown or scheduled.

2.11 RAIN DRIPS

- A. Provide bronze anodized aluminum rain drips at all exterior outswinging door heads, extending full width of frame whether scheduled or not.

2.12 HARDWARE FINISHES

- A. Provide matching finishes for hardware units at each door or opening, to the greatest extent possible, and except as otherwise indicated. Match items to the manufacturer's standard finish for the latch and lock set (or push-pull units if no latch-lock sets) for color and texture.
- B. Provide finishes which match those established by BHMA or, if none established, match the Architect's sample.

- C. Finish: US26D.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. Mount hardware units at heights indicated in "Recommended Locations for Builders Hardware for Standard Steel Doors and Frames" by the Door and Hardware Institute, except as specifically indicated or required to comply with governing regulations, and except as may be otherwise directed by Architect.
- B. Install each hardware item in compliance with the manufacturer's instructions and recommendations. Wherever cutting and fitting is required to install hardware onto or into surfaces which are later to be painted or finished in another way, coordinate removal, storage and reinstallation or application of surface protections with finishing work specified in the Division-9 sections. Do not install surface-mounted items until finishes have been completed on the substrate.
- C. Set units level, plumb and true to line and location. Adjust and reinforce the attachment substrate as necessary for proper installation and operation.
- D. Drill and countersink units which are not factory- prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
- E. Set thresholds for exterior doors in full bed of butyl-rubber or polyisobutylene mastic sealant.

3.02 ADJUST AND CLEAN

- A. Adjust and check each operating item of new hardware, ensure proper operation or function of every unit. Replace units which cannot be adjusted to operate freely and smoothly as intended for the application made.
- B. Clean adjacent surfaces soiled by hardware installation.
- C. Final Adjustment: Wherever hardware installation is made more than one month prior to acceptance or occupancy of a space or area, return to the work during the week prior to acceptance or occupancy, and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.

Note: Door Schedule also indicates miscellaneous hardware requirements which are not included in the hardware schedule.

PART 4 - SCHEDULE OF HARDWARE

4.00 General Notes

- A. Provide 7" high by (door width minus 2") wide stainless steel plate at all doors where "KICKPLATE" is indicated on schedule.
- B. Provide 28" high by (door width minus 2") wide stainless steel plate at all doors where "ARMORPLATE" is indicated on schedule.
- C. Provide manufacturer's standard embossed tactile warning strip at all doors where "TACTILE WARNING" is indicated on schedule, whether or not indicated on hardware sets, and at all hazardous areas. Hazardous areas include custodian spaces, storage, boiler, electrical and fire pump rooms, and mechanical rooms, trash rooms, labs and prep rooms.
- D. General: Provide hardware for each door to comply with requirements of Section "Finish Hardware", hardware set numbers indicated in door schedule, and in the following schedule of hardware sets.
- E. The following schedule lists typical openings. It is the responsibility of the Finish Hardware Supplier to visit the site, examine the drawings and door schedule and provide all necessary hardware as shown. Where specified hardware is not indicated or scheduled for a particular opening, provide the same hardware required for similar doors, openings and conditions elsewhere in the building. It shall be the responsibility of the Contractor and finish hardware supplier to furnish and install all such hardware, whether or not indicated herein.
- F. Quantities shown in these hardware sets represent basic requirements for each leaf. The finish hardware supplier shall be responsible for adjustments to quantities to suit field conditions or these specifications.
- G. Schedule indicates Basis of Design products. Subject to compliance with requirements, provide specified product, or comparable product from different manufacturers that meet the same function, regulatory requirements, industry standards, quality and aesthetics.

4.01 Hardware Set Number 1 (Door No. 7):

2	Continuous Hinges	McKinney MCK-12HD Aluminum Continuous Geared Hinge
1	Lockset	Sargent 8204 L, LS US26D
2	Door Closers	LCN 4040XP CUSH-N-STOP ARM
1	Set Head and Jamb Weatherstripping	Pemko 316 AS
1	Vertical Astragal	Pemko 355 AS, interrupt at lockguard
1	Threshold	Pemko 253X3 A FG
2	Door Sweeps	Pemko 345 A NB
2	Kickplates	Ives 8400
1	Lockguard	Ives LG10
1	Set Top and Bottom	

Flush Bolts

Ives FB51P

4.02 Hardware Set Number 2 (Doors No. 2, 3, 4, 6, 9, 10, 17 and E12):

1	Continuous Hinge	McKinney MCK-12HD Aluminum Continuous Geared Hinge
1	Exit Device	Sargent 8913 US26D, ETL
1	Lockguard	Ives
1	Door Closer	LCN 4040 CUSH
1	Armorplate	Rockwood
1	Set Head and Jamb	
	Weatherstripping	Pemko 316 AS PK
1	Threshold	Pemko 253X3 A FG
1	Door Sweep	Pemko 345 A NB

4.03 Hardware Set Number 3 (Door No. 8):

1	Continuous Hinge	McKinney MCK-12HD Aluminum Continuous Geared Hinge
1	Exit Device	Sargent 8913 US26D, ETL
1	Door Closer	LCN 4040 CUSH
1	Armorplate	Rockwood
1	Threshold	Pemko 1547 A
3	Silencers	

4.04 Hardware Set Number 4 (Doors No. 1 and 5):

1	Continuous Hinge	McKinney MCK-12HD Aluminum Continuous Geared Hinge
1	Door Closer	LCN 4040XP CUSH-N-STOP ARM
1	Automatic Door Operator	See Section 087113. Coordinate operation of electric strike and door operator
1	Exit Device	Sargent 8913 US26D, ETL
1	Electric Strike	Folger Adam 310 fail secure 24V – 630 with control wiring and transformer
1	Kickplate	Ives 8400
1	Set Head and Jamb	
	Weatherstripping	Pemko 316 AS
1	Threshold	Pemko 252X3 A
1	Door Sweep	Pemko 345 A NB

4.05 Hardware Set Number 5 (Doors No. 04, 15, 16, 18, 20, 22 and 26):

1	Cylinder	
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END OF SECTION 087100

SECTION 087113 - POWER DOOR OPERATORS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Operators for swinging doors.
- B. Controllers, actuators, and safety devices.
- C. Maintenance.

1.2 RELATED REQUIREMENTS

1.3 DEFINITIONS

- A. Activation Device: Device that sends an electrical signal to door operator to open door when actuated.
- B. Knowing Act: Consciously initiating the opening of a power-operated door using acceptable methods, including wall-mounted switches such as push plates and controlled access devices such as keypads, card readers, and key switches.

1.4 REFERENCE STANDARDS

- A. AAMA 611 - Specification for Anodized Architectural Aluminum.
- B. ADA Standards - 2010 ADA Standards for Accessible Design.
- C. BHMA A156.10 - Power Operated Pedestrian Doors.
- D. NFPA 70 - National Electrical Code.
- E. NFPA 101 - Life Safety Code.
- F. UL (DIR) - Online Certifications Directory.
- G. UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems.

1.5 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate power door operators with balance of door hardware and electrical work required for each affected door opening.
 - 1. Templates: Check other sections' shop drawings to confirm that adequate provisions are in place for locating and installing power door operators.
 - 2. Electrical System Roughing-in: Coordinate layout and installation of power door operators with connections to power supplies, remote activation devices, and electric door latching hardware.

1.6 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Shop Drawings:
 - 1. Indicate layout and dimensions; head, jamb, and sill conditions; elevations; components, anchorage, recesses, materials, and finishes, electrical characteristics and connection requirements.
 - 2. Identify installation tolerances required, assembly conditions, routing of service lines and conduit, and locations of operating components and boxes.
- C. Product Data: Provide data on system components, sizes, features, and finishes.
- D. Manufacturer's Installation Instructions: Indicate special procedures, perimeter conditions requiring special attention, and manufacturer's hardware and component templates.
- E. Manufacturer's qualification statement.
- F. Installer's qualification statement.
- G. Project Record Documents: Record actual locations of concealed equipment, services, and conduit.
- H. Maintenance Data: Include manufacturer's parts list and maintenance instructions for each type of hardware and operating component.
- I. Specimen warranty.
- J. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Section 016000 - Product Requirements for additional provisions.
 - 2. Wrenches and other tools required for maintenance of equipment.

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience, and a member of AAADM.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years documented experience and approved by manufacturer.

1.8 WARRANTY

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.
- B. Manufacturer Warranty: Provide 2-year manufacturer warranty for components of power door operators. Complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Operators for Swinging Doors:

1. LCN, an Allegion brand: www.allegion.com/us/#sle.
2. Horton Automatics: www.hortondoors.com/#sle.
3. Stanley Access Technologies: www.stanleyaccess.com/#sle.

2.2 POWER DOOR OPERATORS - GENERAL

- A. Electrically Operated or Controlled Hardware: Provide necessary power supplies, relays, and interfaces as required for proper operation; provide wiring between control components and to building power connection in compliance with NFPA 70.
- B. Comply with ADA Standards for egress requirements.
- C. Comply with NFPA 101 and requirements of authorities having jurisdiction; provide units selected for actual door weight and for light pedestrian traffic unless otherwise indicated.
- D. Exterior and Vestibule Doors: Provide equipment suitable for ambient operating temperature range of minus 20 to plus 140 degrees F.
- E. Exterior Doors: Provide units capable of operating, closing, and holding doors closed under positive and negative differential pressure; if necessary, provide power closing.
- F. System Integration: Integrate operator functionality with other systems as required for a complete working installation.
 1. Provide fire alarm interface configurable to safely open or close doors on signal from fire alarm system.
 2. Provide controller output signals at the door closed or door open positions to facilitate interaction with security and access control systems.

2.3 OPERATORS FOR SWINGING DOORS

- A. Door Operator: Electromechanical.
 1. Applications: Include operators for single and double doors.
 2. Electromechanical Operators: 3/16 hp minimum, self-contained, gear driven, with release clutch.
 3. Speed Control: Constant, field-adjustable opening and closing cycles.
 4. Functionality: Full-power open, power close operation.
 - a. Full-Power Operators: Comply with BHMA A156.10; safeties required.
 - 1) Comply with UL 325; acceptable evidence of compliance includes UL (DIR) listing.
 - 2) Force Required to Set Door in Motion When Unpowered: 30 lbf, maximum, measured at 1 inch from the latch edge of the door at any point in the closing cycle.
 - 3) Signage: Provide signage in accordance with BHMA A156.10.
 5. Mounting: Surface mounted overhead.
 6. Components:
 - a. Header Case: Manufacturer's standard extruded aluminum profile containing door operator and door mounting components.
 - b. Motor and Gearbox Assembly: Manufacturer's standard sealed motor, gearbox, and drive belt.

7. Power Supply Units: Self-contained, electrically operated, and independent of door operator.
8. Actuators: Manufacturer's standard.
 - a. Push-Side Actuator: Push plate.
 - b. Pull-Side Actuator: Push plate.
9. Pull-Side Safety: Door mounted.
10. Hold Open: Toggle switch at inside head of doors.

2.4 CONTROLLERS, ACTUATORS, AND SAFETY DEVICES

- A. Controllers: Manufacturer's standard for products specified.
 1. Provide microprocessor operated controller for each door.
- B. Actuators: Manufacturer's standard for products specified and as specified below.
 1. Push Plate Actuator: Standard, wall mounted, recessed, momentary contact type; satin stainless steel plate; 4-1/2 inches diameter; labeled PUSH.
- C. Safety Devices: Manufacturer's standard units recommended for project applications and conditions.
 1. Comply with BHMA A156.10 for actuator and safety types and zones.
 2. Swinging Door Safety Device: Door-mounted proximity detector device arranged to prevent operation of door when persons or obstructions are in the swing zone.

2.5 ELECTRICAL CHARACTERISTICS AND COMPONENTS

- A. Electrical Characteristics:
 1. 3/16 hp.
 2. 120 volts, single phase, 60 Hz.
 3. 5 amperes maximum fuse size.
- B. Wiring Terminations: Provide terminal lugs to match branch circuit conductor quantities, sizes, and materials indicated. Enclose terminal lugs in terminal box sized to NFPA 70.
- C. Disconnect Switch: Factory mount disconnect switch in control panel.

2.6 FINISHES

- A. Aluminum Finishes: Manufacturer's standard.
 1. Class I Natural Anodized Finish: Clear anodic coating; AAMA 611 AA-M12C22A41, minimum dry film thickness (DFT) of 0.7 mil, 0.0007 inch.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify installation conditions including, but not limited to the following: opening sizes, floor conditions, plumb and level mounting surfaces.
- B. Verify that surfaces are ready to receive work and dimensions are as indicated on shop drawings.

- C. Verify that electric power is available, in the correct location, and of the correct characteristics.

3.2 INSTALLATION

- A. Coordinate installation of components with related and adjacent work.
- B. Install equipment in accordance with manufacturer's instructions.
- C. Provide for thermal expansion and contraction of door and frame units and live and dead loads that may be transmitted to operating equipment.
- D. Provide for dimensional distortion of components during operation.
- E. Install pneumatic lines and door power units in a manner to prevent condensation or freezing.

3.3 ADJUSTING

- A. Adjust door equipment for correct function and smooth operation.

3.4 CLEANING

- A. Remove temporary protection, clean exposed surfaces.

3.5 CLOSEOUT ACTIVITIES

- A. Demonstrate to Owner's representative equipment operation, operating components, adjustment features, and lubrication requirements.

3.6 MAINTENANCE

- A. See Section 017000 - Execution and Closeout Requirements for additional requirements relating to maintenance service.
- B. Provide service and maintenance of operating equipment for one year from Date of Substantial Completion, at no extra charge to Owner.

END OF SECTION 087113

SECTION 323113 - CHAIN LINK FENCES AND GATES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Posts, rails, and frames.
- B. Wire fabric.
- C. Concrete.
- D. Manual gates with related hardware.
- E. Accessories.

1.2 REFERENCE STANDARDS

- A. ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- B. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
- C. ASTM A392 - Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric.
- D. ASTM C94/C94M - Standard Specification for Ready-Mixed Concrete.
- E. ASTM F567 - Standard Practice for Installation of Chain-Link Fence.
- F. CLFMI CLF-FIG0111 - Field Inspection Guide.
- G. CLFMI CLF-PM0610 - Product Manual.
- H. CLFMI CLF-SFR0111 - Security Fencing Recommendations.
- I. FS RR-F-191/1D - Fencing, Wire and Post Metal (Chain-Link Fence Fabric).

1.3 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on fabric, posts, accessories, fittings and hardware.
- C. Shop Drawings: Indicate plan layout, spacing of components, post foundation dimensions, hardware anchorage, and schedule of components. See CLFMI CLF-SFR0111 for planning and design recommendations.
- D. Project Record Documents: Accurately record actual locations of property perimeter posts relative to property lines.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
- B. Fence Installer: Company with demonstrated successful experience installing similar projects and products, with not less than five years of documented experience.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Chain Link Fences and Gates include but not limited to:
 - 1. Master-Halco, Inc: www.masterhalco.com/#sle.
 - 2. Merchants Metals: www.merchantsmetals.com/#sle.

2.2 COMPONENTS

- A. Line Posts: 1.9 inch diameter.
- B. Corner and Terminal Posts: 2.38 inch diameter.
- C. Gate Posts: 4-1/2 inch diameter.
- D. Top and Brace Rail: 1.66 inch diameter, plain end, sleeve coupled.
- E. Bottom Rail: 1.66 inch diameter, plain end, sleeve coupled.
- F. Gate Frame: 2.38 inch diameter for welded fabrication.
- G. Fabric: 2 inch diamond mesh interwoven wire, 6 gauge, 0.1920 inch thick, top selvage twisted tight, bottom selvage knuckle end closed.
- H. Tension Wire: 6 gauge, 0.1920 inch thick steel, single strand.
- I. Tie Wire: Aluminum alloy steel wire.

2.3 MATERIALS

- A. Posts, Rails, and Frames:
 - 1. Line Posts: Type I round in accordance with FS RR-F-191/1D.
 - 2. Terminal, Corner, Rail, Brace, and Gate Posts: Type I round in accordance with FS RR-F-191/1D.
 - 3. Comply with CLFMI CLF-PM0610.
- B. Wire Fabric:
 - 1. ASTM A392 zinc coated steel chain link fabric.
 - 2. Comply with CLFMI CLF-PM0610.
- C. Concrete:
 - 1. Ready-mixed, complying with ASTM C94/C94M; normal Portland cement; 2,500 psi strength at 28 days, 3 inch slump; #57 nominal size aggregate.

2.4 MANUAL GATES AND RELATED HARDWARE

- A. Hardware for Double Swinging Gates: 180 degree hinges, 2 for gates up to 60 inches high, 3 for taller gates; drop bolt on inactive leaf engaging socket stop set in concrete, active leaf latched to inactive leaf preventing raising of drop bolt, padlock hasp; keepers to hold gate in fully open position.
- B. Hinges: Finished to match fence components.
- C. Latches: Finished to match fence components.

2.5 ACCESSORIES

- A. Caps: Cast steel galvanized; sized to post diameter, set screw retainer.
- B. Fittings: Sleeves, bands, clips, rail ends, tension bars, fasteners and fittings; steel.

2.6 FINISHES

- A. Components (Other than Fabric): Galvanized in accordance with ASTM A123/A123M, at 1.7 ounces per square foot.
- B. Hardware: Hot-dip galvanized to weight required by ASTM A153/A153M.
- C. Accessories: Same finish as framing.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install framework, fabric, accessories and gates in accordance with ASTM F567.
- B. Place fabric on outside of posts and rails.
- C. Line Post Footing Depth Below Finish Grade: ASTM F567.
- D. Corner, Gate and Terminal Post Footing Depth Below Finish Grade: ASTM F567.
- E. Brace each gate and corner post to adjacent line post with horizontal center brace rail and diagonal truss rods. Install brace rail one bay from end and gate posts.
- F. Provide top rail through line post tops and splice with 6 inch long rail sleeves.
- G. Position bottom of fabric 2 inches above finished grade.
- H. Do not attach the hinged side of gate to building wall; provide gate posts.
- I. Provide concrete center drop to footing depth and drop rod retainers at center of double gate openings.

3.2 FIELD QUALITY CONTROL

- A. See Section 014000 - Quality Requirements, for additional requirements.

- B. Layout: Verify that fence installation markings are accurate to design, paying attention to gate locations, underground utilities, and property lines.
- C. Gates: Inspect for level, plumb, and alignment.
- D. Workmanship: Verify neat installation free of defects. See CLFMI CLF-FIG0111 for field inspection guidance.

END OF SECTION 323113



Buffalo Urban Development Corporation
Hon. Christopher P. Scanlon, Chairman

BUFFALO URBAN DEVELOPMENT CORPORATION

631 NORTHLAND AVE.
BUFFALO, NY 14211
INDUSTRIAL MANUFACTURING BUILDING

ISSUED FOR BID
10/01/2025

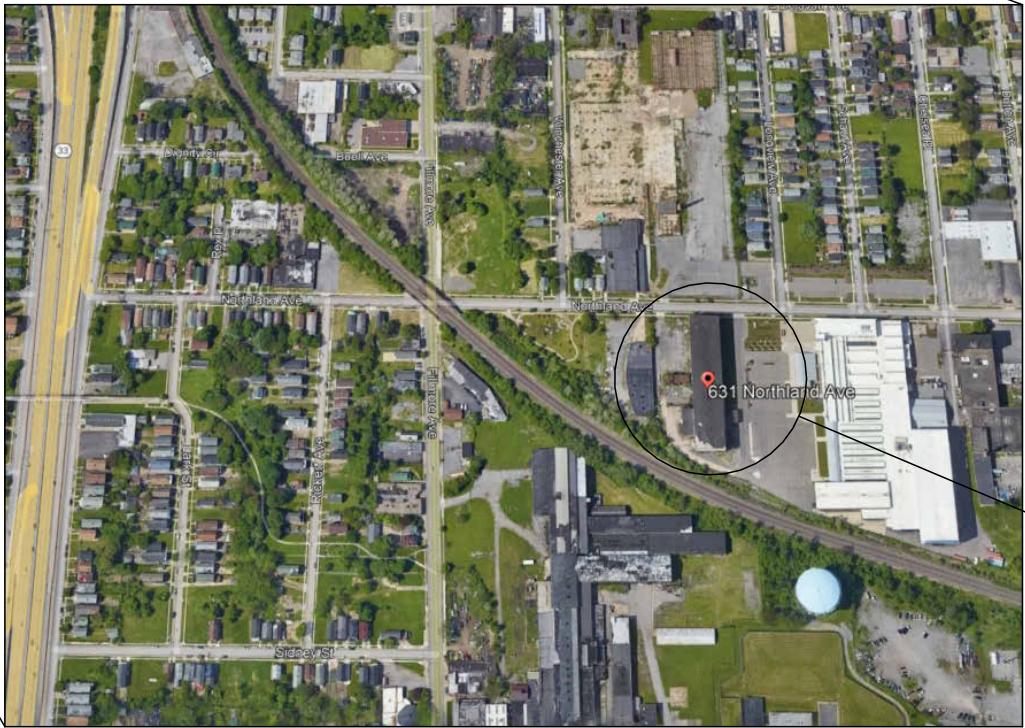


Centerpointe Corporate Park
375 Essay Road, Suite 200
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www.wendelcompanies.com
p716.688.0766 f7877.293.6335

Wendel Project No. 432607

NOTE: THIS PROPERTY HAS BEEN DETERMINED TO POSSESS HISTORIC AND ARCHITECTURAL SIGNIFICANCE AND IS LISTED ON THE NATIONAL REGISTER OF HISTORIC PLACES. THE CONTRACTOR SHALL RECOGNIZE THAT ALL ASPECTS OF THE PROPERTY MAY POTENTIALLY CONTRIBUTE TO THIS SIGNIFICANCE, AND THE CONTRACTOR SHALL NOT JUDGE THE RELATIVE SIGNIFICANCE OF ANY FEATURES NOR THE IMPACT OF ANY OR ALL PROPOSED WORK. THE RELATIVE SIGNIFICANCE AND IMPACT RESPONSIBILITY SHALL REST SOLELY WITH THE ARCHITECT IN COORDINATION WITH THE HISTORIC PRESERVATION CONSULTANT. WITH THE REVIEW OF THE NYSIPO AND THE NATIONAL PARK SERVICE. CONSEQUENTLY, NO DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE PERFORMED, AND NO FEATURES OR MATERIALS SHALL BE ALTERED, REMOVED, REUSED, OR TAKEN FROM THE PREMISES, WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT AS BEING CONSISTENT WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ALL WORK SHALL BE CONSISTENT WITH THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES.

PROJECT
LOCATION



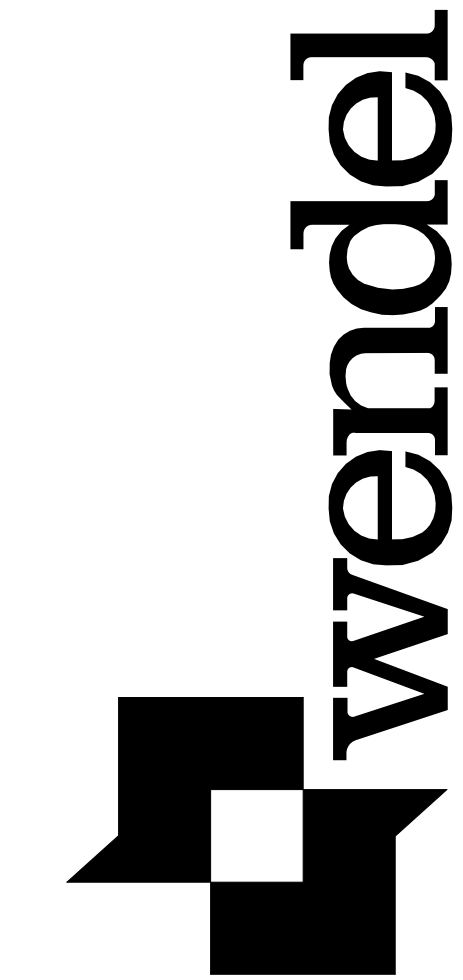
DRAWING LIST	
SHEET NUMBER	SHEET NAME
GENERAL	
G000	COVER SHEET
G001	SYMBOLS & ABBREVIATIONS
G002	CODE COMPLIANCE PLAN
G003	UL ASSEMBLIES
G004	RENDERINGS
ENVIRONMENTAL	
HM-100	HAZARDOUS MATERIALS ABATEMENT PLAN - GENERAL NOTES
HM-101	HAZARDOUS MATERIALS ABATEMENT PLAN - GROUND FLOOR PLAN
HM-102	HAZARDOUS MATERIALS ABATEMENT PLAN - GROUND FLOOR PLAN
HM-103	HAZARDOUS MATERIALS ABATEMENT PLAN - ROOF PLAN
HM-104	HAZARDOUS MATERIALS ABATEMENT PLAN - ROOF PLAN
HM-105	HAZARDOUS MATERIALS ABATEMENT PLAN - ELEVATION EAST
HM-106	HAZARDOUS MATERIALS ABATEMENT PLAN - ELEVATION EAST
HM-107	HAZARDOUS MATERIALS ABATEMENT PLAN - ELEVATION WEST
HM-108	HAZARDOUS MATERIALS ABATEMENT PLAN - ELEVATION WEST
HM-109	HAZARDOUS MATERIALS ABATEMENT PLAN - ELEVATION NORTH
HM-110	HAZARDOUS MATERIALS ABATEMENT PLAN - ELEVATION NORTH
CIVIL	
C101	EXISTING CONDITIONS PLAN
C102	EROSION AND SEDIMENT CONTROL PLAN
C103	SITE PREPARATION / DEMOLITION PLAN
C201	SITE LAYOUT AND UTILITY PLAN
C301	GRADING AND DRAINAGE PLAN
C501	EROSION AND SEDIMENT CONTROL DETAILS
C502	SITE DETAILS
C503	STORM SEWER DETAILS
C504	SANITARY SEWER DETAILS
C505	WATERLINE DETAILS
LANDSCAPE	
L401	SITE PLANTING PLAN
L501	LANDSCAPE DETAILS
STRUCTURAL	
S000	GENERAL NOTES
S001	STRUCTURAL DESIGN CRITERIA - SPECIAL INSPECTION NOTES AND ROOF WIND LOAD ZONES
S002	NORTH AND SOUTH EXTERIOR WALL COMPONENTS AND CLADDING WIND LOAD ZONES
S003	EAST EXTERIOR WALL COMPONENTS AND CLADDING WIND LOAD ZONES
S004	WEST EXTERIOR WALL COMPONENTS AND CLADDING WIND LOAD ZONES
S101A	PARTIAL FOUNDATION / GROUND FLOOR FRAMING PLAN - NORTH
S101B	PARTIAL FOUNDATION / GROUND FLOOR FRAMING PLAN - SOUTH
S102A	PARTIAL PLAN AT CRANE GIRDER LEVEL - NORTH
S102B	PARTIAL PLAN AT CRANE GIRDER LEVEL - SOUTH
S103A	PARTIAL ROOF FRAMING PLAN - NORTH
S103B	PARTIAL ROOF FRAMING PLAN - SOUTH
S103C	LOW ROOF FRAMING PLANS - EAST & WEST
S200	TYPICAL DETAILS
S200A	TYPICAL DETAILS
S201	ENLARGED PARTIAL STAIR REPLACEMENT AT EXISTING GROUND FLOOR
S202	ENLARGED PARTIAL ROOF FRAMING PLANS AT EXISTING PENTHOUSE

DRAWING LIST	
SHEET NUMBER	SHEET NAME
S203	ENLARGED PARTIAL PLANS & DETAILS - NORTH
S203A	LADDER & GUARD RAIL SECTIONS & DETAILS
S204	ENLARGED PARTIAL FOUNDATION / GROUND FLOOR FRAMING PLANS
S205	ADDED MECHANICAL SUPPORT FRAMING
S205A	ADDED MECHANICAL SUPPORT FRAMING
S206	FURNACE INFILL AND REINFORCED CONCRETE RETAINING WALL SECTIONS
S207	PARTIAL ELEVATION & DETAILS REPLACEMENT OF OVER HEAD DOOR IN THE EXTERIOR WEST WALL
S301	NORTH EXTERIOR & INTERIOR ELEVATIONS MASONRY REPAIR
S302	EAST EXTERIOR ELEVATION MASONRY REPAIR
S302A	EAST INTERIOR ELEVATION MASONRY REPAIR
S303	SOUTH EXTERIOR & INTERIOR ELEVATIONS MASONRY REPAIR
S304	WEST EXTERIOR ELEVATION MASONRY REPAIR
S304A	WEST INTERIOR ELEVATION MASONRY REPAIR
S400	STRUCTURAL STEEL FRAMING - EAST ELEVATION
S401	STRUCTURAL STEEL FRAMING - WEST ELEVATION
S402	STRUCTURAL STEEL FRAMING - NORTH AND SOUTH ELEVATION
S500	TYPICAL MASONRY REPAIR INFORMATION
ARCHITECTURAL DEMOLITION	
AD101A	DEMOLITION PLAN - GROUND FLOOR - NORTH
AD101B	DEMOLITION PLAN - GROUND FLOOR - SOUTH
AD151A	DEMOLITION ROOF PLAN - NORTH
AD151B	DEMOLITION ROOF PLAN - SOUTH
AD301	DEMOLITION EXTERIOR ELEVATIONS - NORTH
AD302	DEMOLITION EXTERIOR ELEVATIONS - EAST
AD303	DEMOLITION EXTERIOR ELEVATIONS - SOUTH
AD304	DEMOLITION EXTERIOR ELEVATIONS - WEST
AD451	ROOF DEMOLITION DETAILS
AD452	DEMOLITION WINDOW DETAILS
ARCHITECTURAL	
A101A	PLAN - GROUND FLOOR - NORTH
A101B	PLAN - GROUND FLOOR - SOUTH
A151A	ROOF PLAN - NORTH
A151B	ROOF PLAN - SOUTH
A301	EXTERIOR ELEVATION - NORTH
A302	EXTERIOR ELEVATION - EAST
A303	EXTERIOR ELEVATION - SOUTH
A304	EXTERIOR ELEVATION - WEST
A310	BUILDING SECTIONS
A311	BUILDING SECTIONS
A312	BUILDING SECTIONS
A451	ROOF DETAILS
A452	STAIR DETAILS
A453	WALL DETAILS
A454	RAMP HANDRAIL PLAN AND ELEVATIONS
A900	DOOR, WINDOW & FINISH SCHEDULE
A901	DETAILS
A902	DETAILS
MECHANICAL	
M001	SYMBOLS, NOTES & ABBREVIATIONS
M101	FLOOR PLANS
M201	DETAILS
PLUMBING	
P001	SYMBOLS, ABBREVIATIONS, GENERAL NOTES
P101	GROUND FLOOR PLANS
ELECTRICAL	
E001	ELECTRICAL LIGHTING PLAN
E100	ELECTRICAL LIGHTING PLAN
E101	ELECTRICAL LIGHTING PLAN
E601	ELECTRICAL ONE LINE DIAGRAM
FIRE PROTECTION	
FP001	SYMBOLS, ABBREVIATIONS, GENERAL NOTES
FP101	FIRST FLOOR & RESTROOM PLANS



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DEVELOPMENT CORPORATION
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BUFFALO, NY 14211

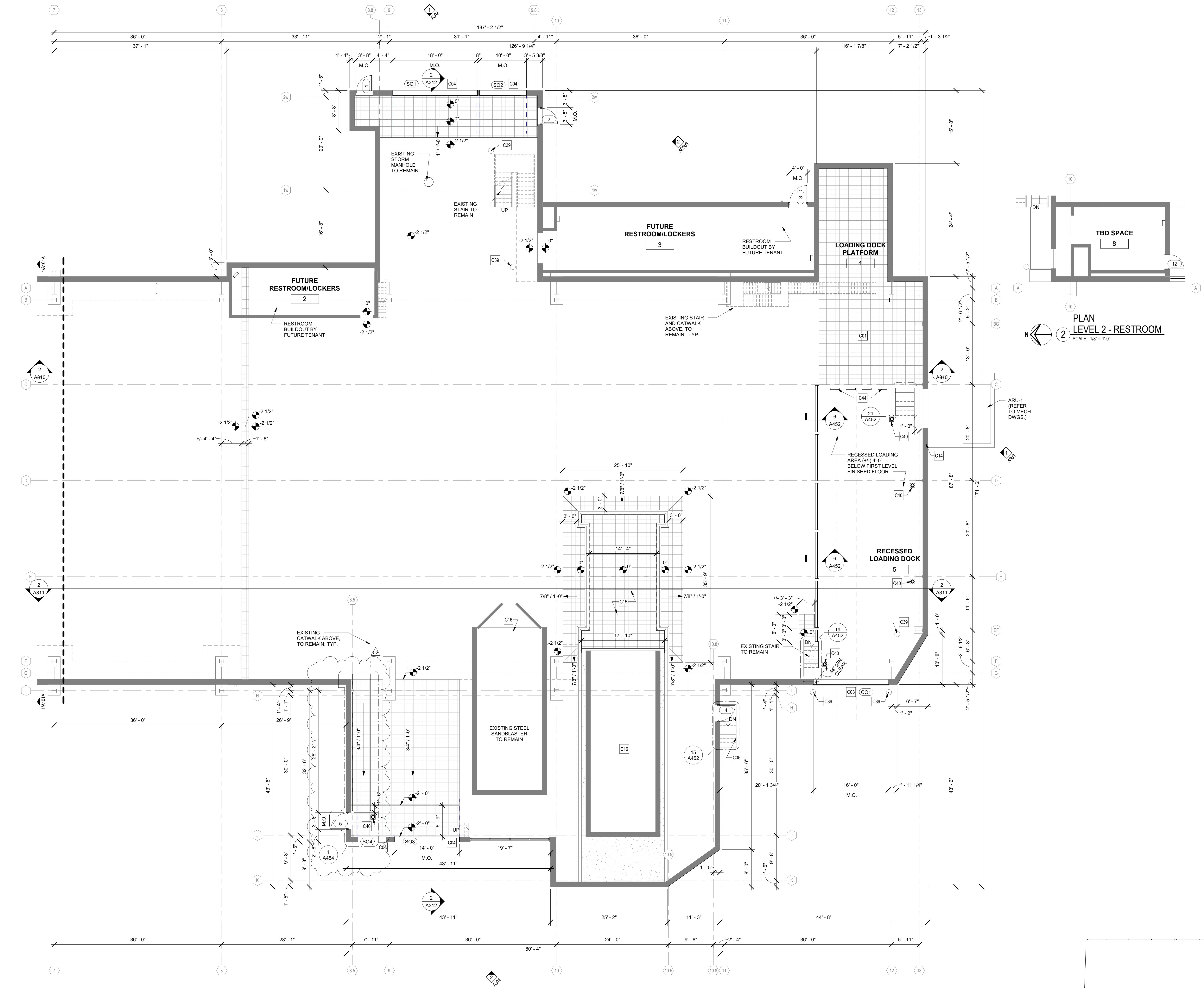
INDUSTRIAL MANUFACTURING
BUILDING
ISSUED FOR BID



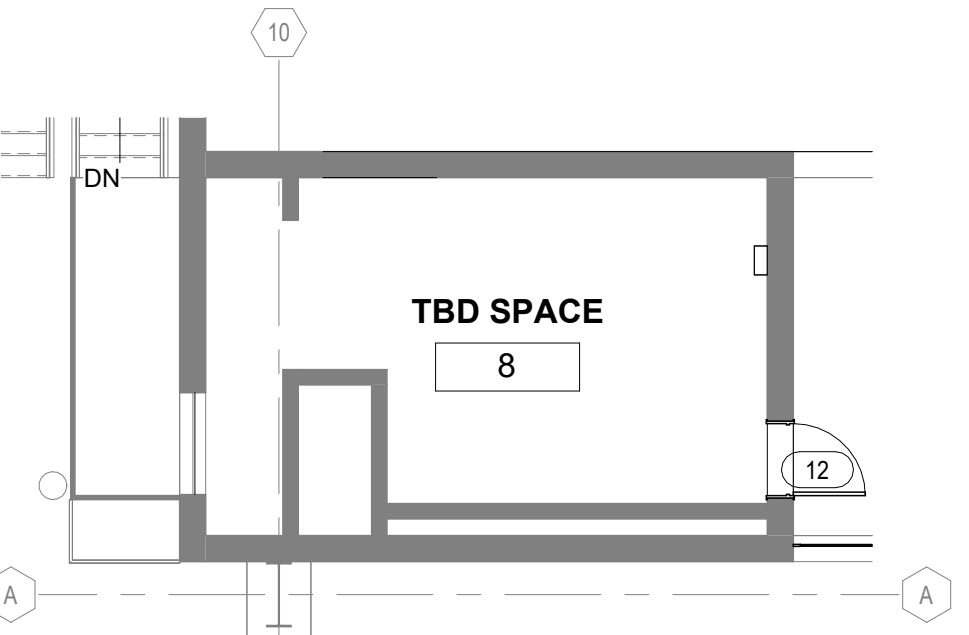
PROJECT TEAM

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2465 Main Street, Suite 402
Buffalo, NY 14214
P.716.931.5827
Barbara A. Campagna/Architecture + Planning, PLLC

RAVI ENGINEERING & LAND SURVEYING, P.C.
574 Main Street, Suite 205
East Aurora, NY 14052
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- CONSTRUCTION KEYNOTES
- C01 PROVIDE STEEL AND CONCRETE PLATFORM TO ALLOW OFFLOADING OF TRUCKS. (+/- 850SF) REFER TO STRUCTURAL DRAWINGS.
 - C03 PROVIDE HEAVY DUTY AUTOMATIC STEEL ROLL-UP DOOR.
 - C04 PROVIDE ALUMINUM AND GLASS OVERHEAD DOOR.
 - C05 REPAIR STEEL STAIRS/LANDINGS/RAILINGS/GUARDS. PAINT ALL STEEL.
 - C14 PROVIDE LOUVER FOR NEW MECH. EQUIPMENT. REFER TO HVAC FOR SIZING. REFER TO STRUCTURAL FOR DETAILS.
 - C15 INFILL STEEL SLED PIT WITH CONCRETE, FLUSH TO ADJACENT CURB. REFER TO STRUCTURAL.
 - C16 EXISTING SANDBLASTER AND FURNACE TO REMAIN. REFER TO ENVIRONMENTAL DOCUMENTS. CLEAN SURFACES WITH LOW PRESSURE POWER WASHER.
 - C39 EXISTING 14 INCH DIAMETER BOLLARD TO REMAIN. CLEAN AND PAINT (YELLOW) WITH TWO COATS.
 - C40 SURFACE BOLLARD POSITIONED TO PROTECT EDGE OF EXISTING STAIR.
 - C44



PLAN
LEVEL 2 - RESTROOM
SCALE: 1/8" = 1'-0"

PLAN
GROUND FLOOR - SOUTH
SCALE: 1/8" = 1'-0"



**BUFFALO URBAN
DEVELOPMENT
CORPORATION**

631 NORTHLAND AVE.
BUFFALO, NY 14211

INDUSTRIAL MANUFACTURING
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Landscape Architecture, P.C.

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Barbara A. Campagna/Architecture + Planning, PLLC

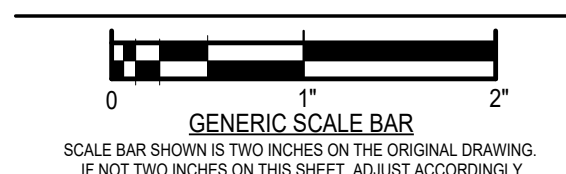
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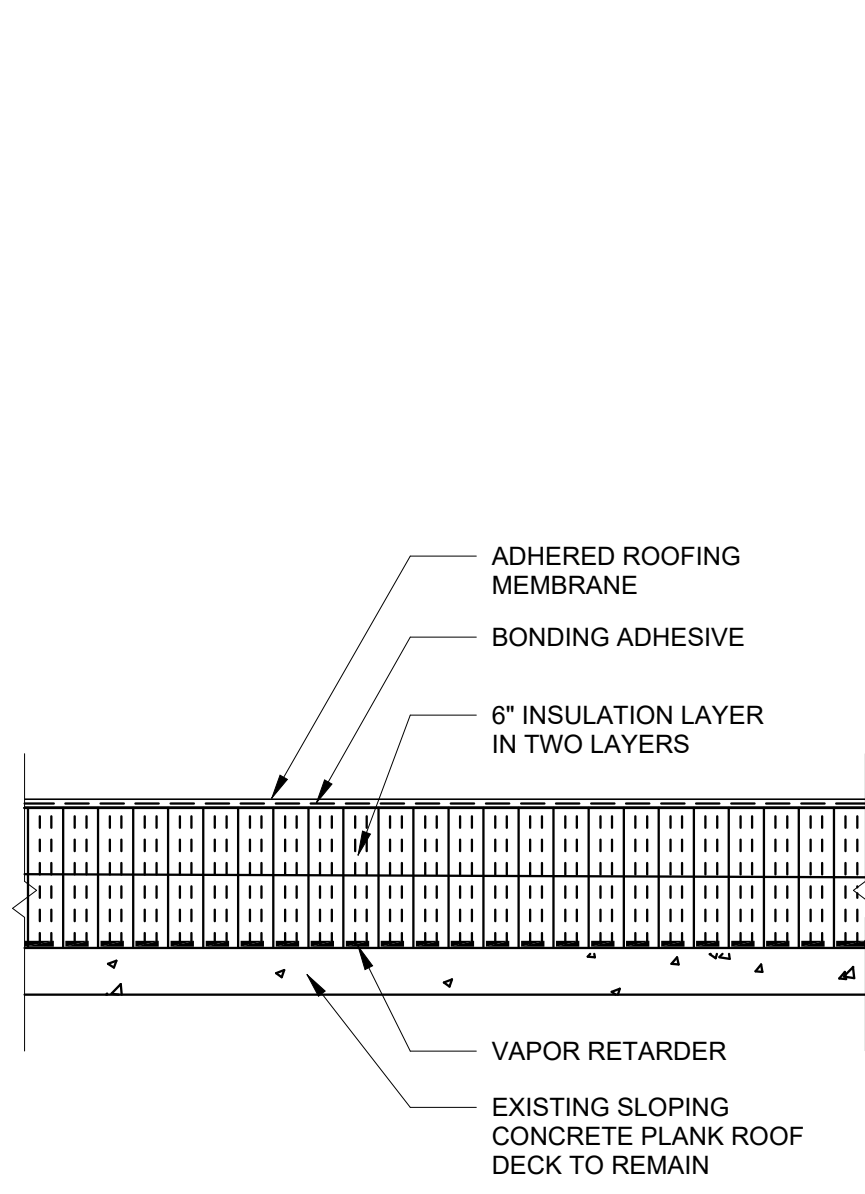
NO.	REVISIONS	DATE
02	ADDENDUM A4	10/29/2023
01	ISSUED FOR PERMIT	10/01/2023
00	ISSUED FOR BID	10/01/2023

DWG. TITLE
PLAN - GROUND FLOOR - SOUTH



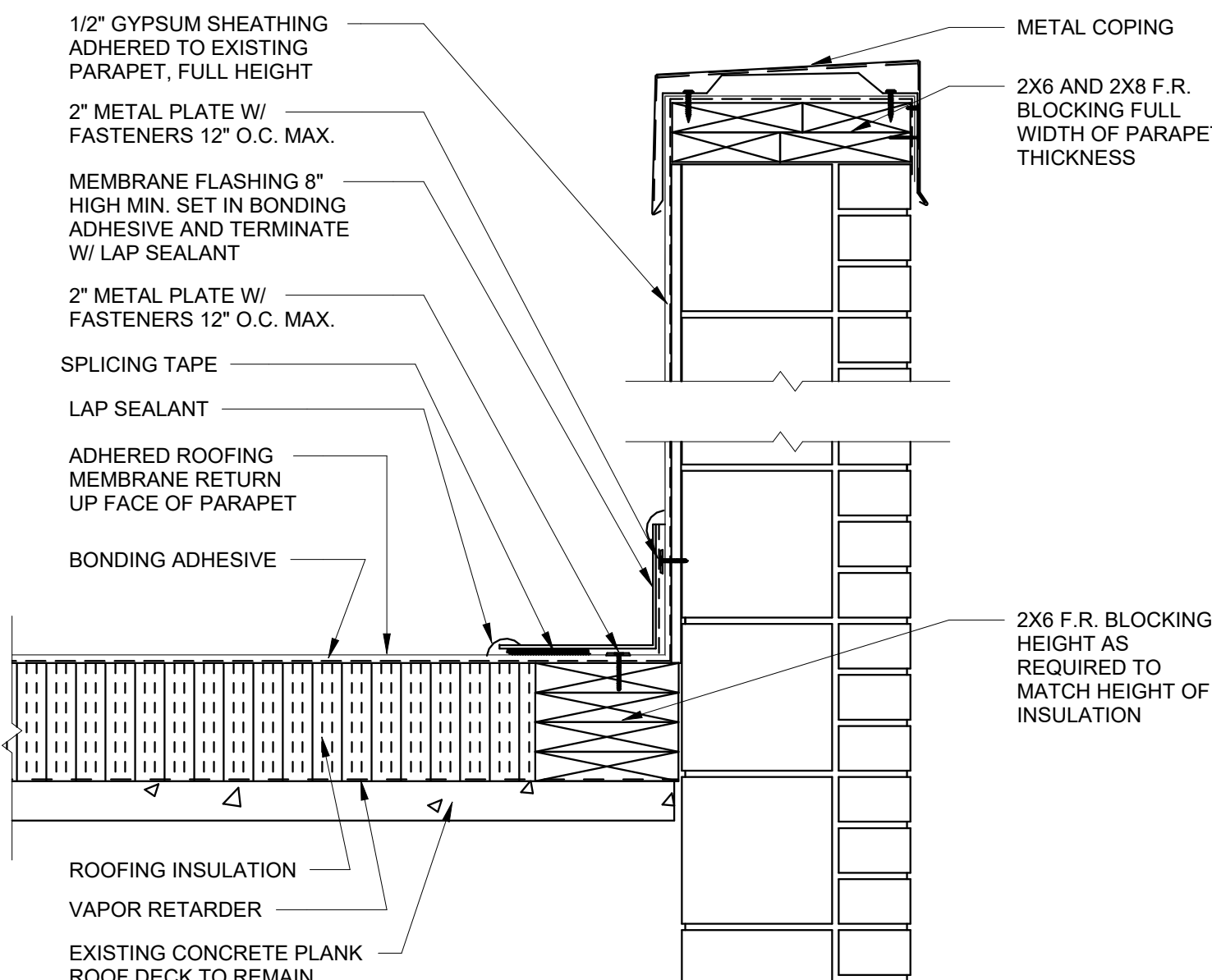
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CHK.	BS
PROJ. NO.	432607
DWG. NO.	

A101B

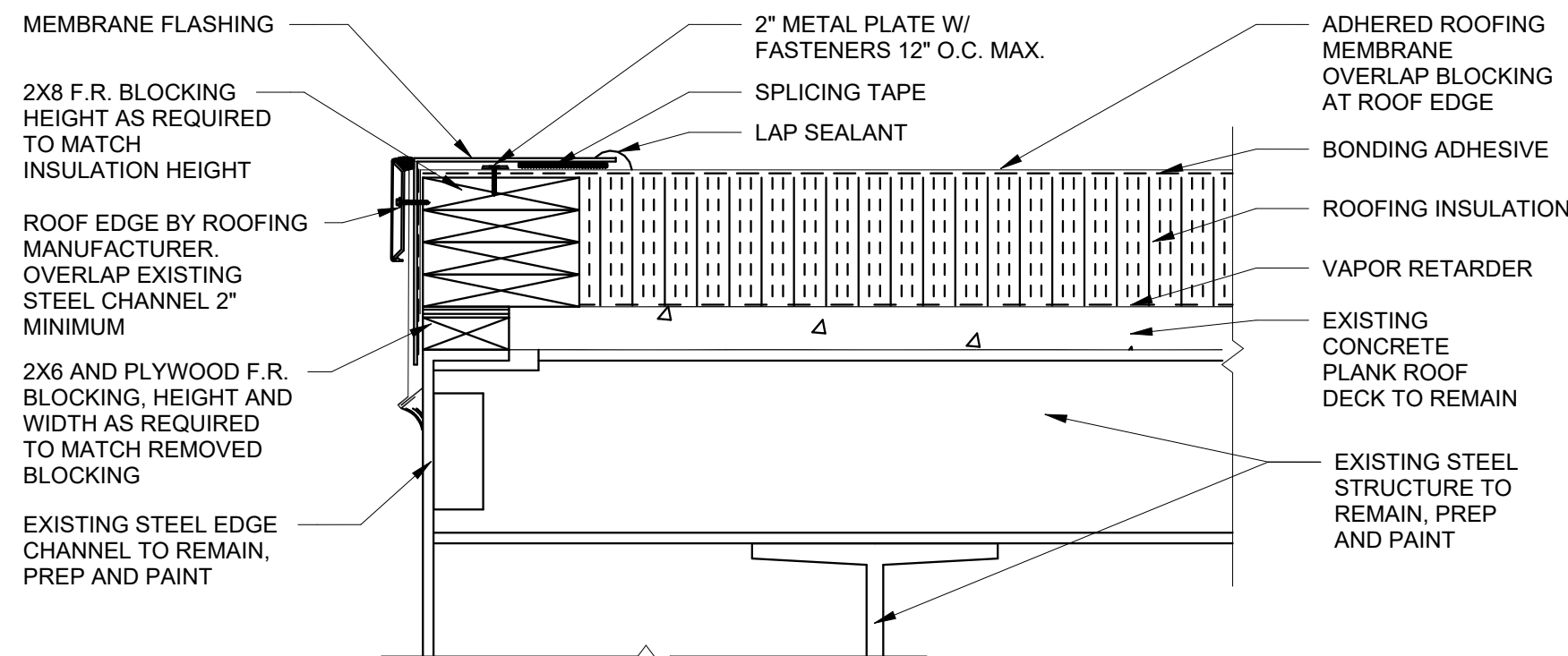


NOTE: UNLESS OTHERWISE SPECIFIED, EXISTING DECK AND WALL CONSTRUCTION FOR ALL ROOF DETAILS ARE DIAGRAMATIC. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN FIELD PRIOR TO STARTING THE WORK.

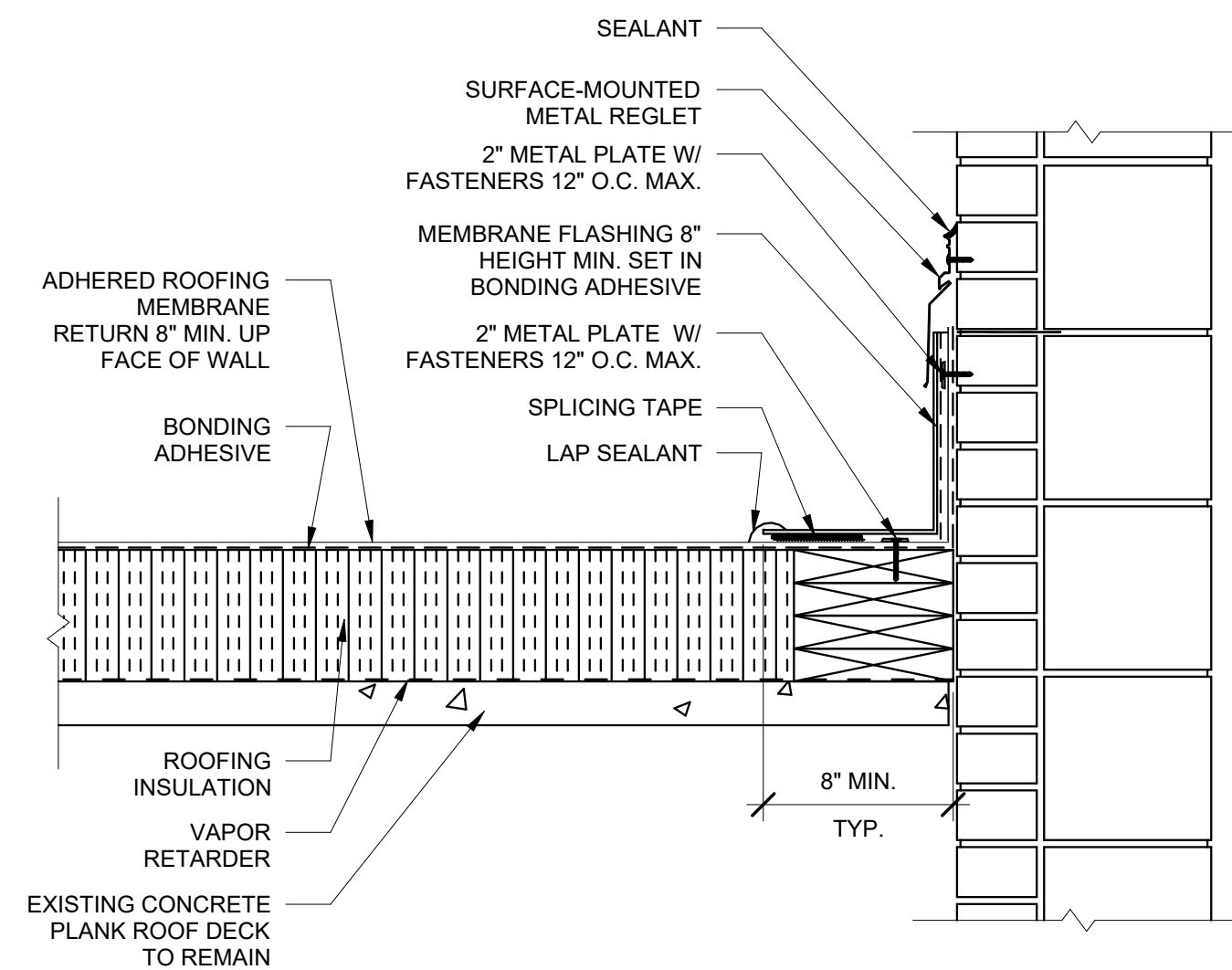
1 ROOF CONSTRUCTION
SCALE: 1 1/2" = 1'-0"



2 COPING DETAIL
SCALE: 1 1/2" = 1'-0"



3 ROOF EDGE DETAIL
SCALE: 1 1/2" = 1'-0"



4 WALL FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"

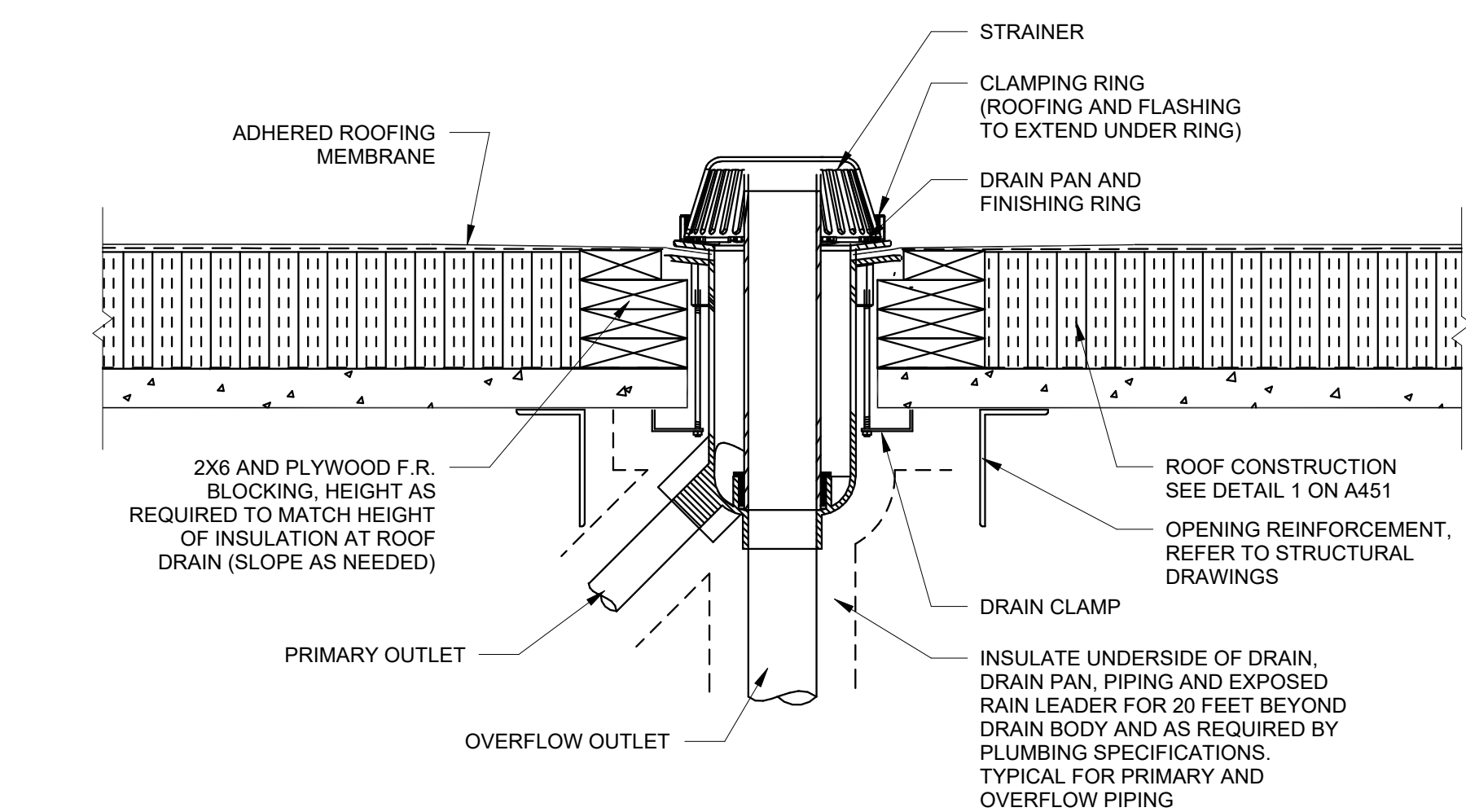
GENERAL ROOF NOTES:

- THE PROJECT SPECIFICATIONS ARE AN INTEGRAL PART OF THE CONTRACT DOCUMENTS AND WILL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND GENERAL NOTES. IN CASES, IF ANY, WHERE REQUIREMENTS INDICATED ON THE ARCHITECTURAL DRAWINGS DIFFER FROM THE SPECIFICATIONS, NOTIFY THE ARCHITECT.
- UNLESS OTHERWISE NOTED, DETAILS, SECTIONS AND NOTES CONTAINED IN THE ARCHITECTURAL CONTRACT DOCUMENTS WILL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS EVEN IF NOT EXPLICITLY REFERENCED.
- DEFICIENT WORK AND/OR WORK NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL REMBURSE THE PARTIES REQUIRED FOR PERFORMING THE DESIGN SERVICES ARISING FROM DEFICIENT WORK, REVIEW OF MODIFICATIONS/CONTRACTOR SUBSTITUTION, OR EXPEDITING OF SUBMITTALS.
- COST OF INVESTIGATION AND/OR REDESIGN INCURRED BY THE ARCHITECT DUE TO CONTRACTOR ERRORS WILL BE AT THE CONTRACTOR'S EXPENSE.
- VERIFY IN THE FIELD (VIF) ALL EXISTING JOB CONDITIONS. REVIEW ALL CONTRACT DRAWINGS, AND VERIFY DIMENSIONS AND ELEVATIONS NOTED IN THE CONTRACT DOCUMENTS PRIOR TO THE START OF WORK.
- USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE THESE DRAWINGS OR USE DIMENSIONS OBTAINED FROM ELECTRONIC DRAWING OR MODEL FILES, IF PROVIDED.

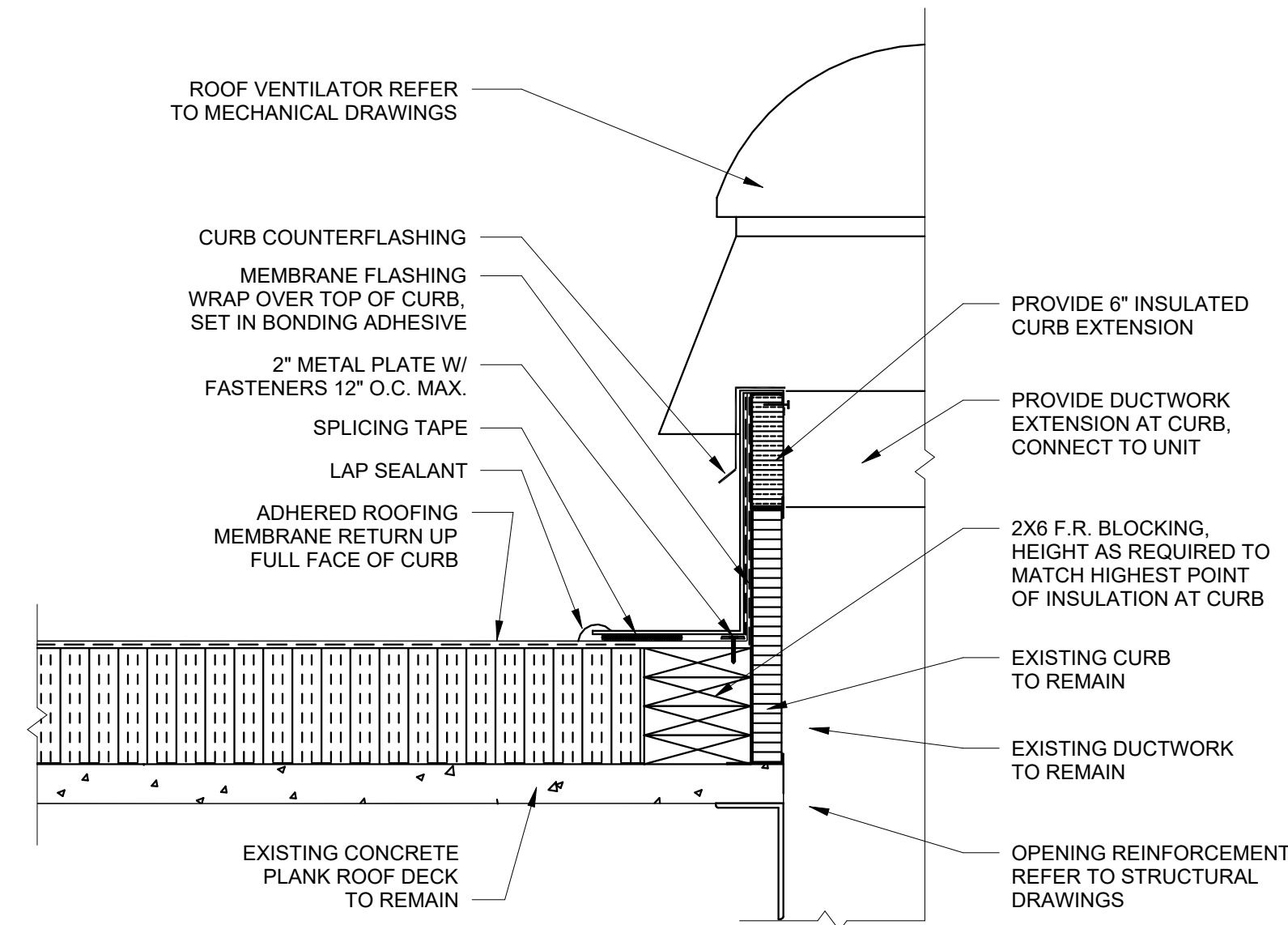
ENERGY CALCULATIONS:

R-VALUES

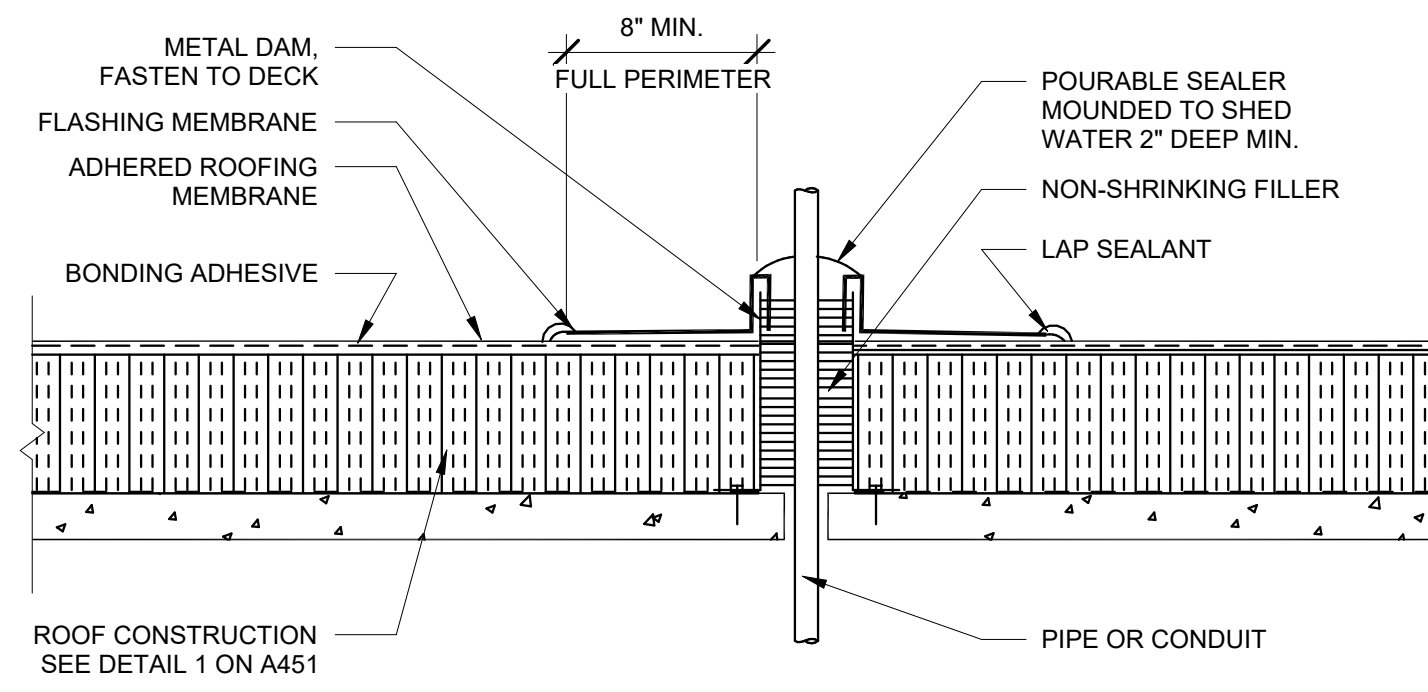
EXISTING SLOPED DECK:
6.00" CONTINUOUS BOARD INSULATION: 34.80
MINIMUM R-VALUE REQUIRED: 30.00



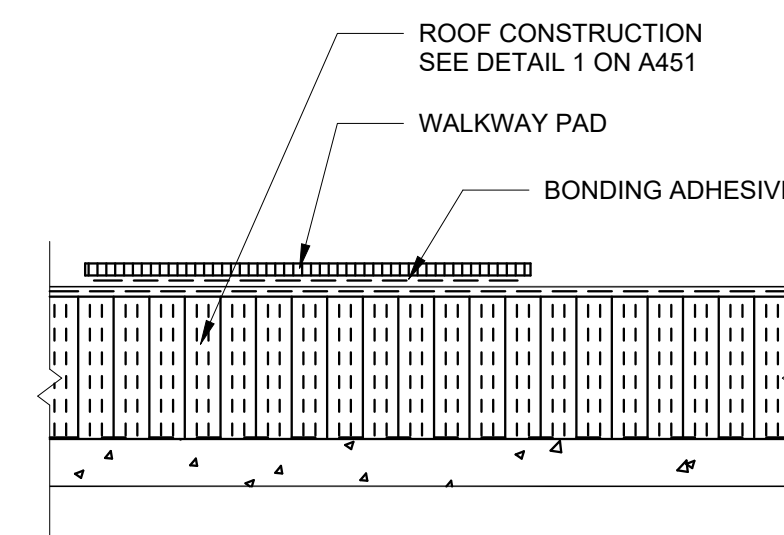
5 ROOF DRAIN DETAIL
SCALE: 1 1/2" = 1'-0"



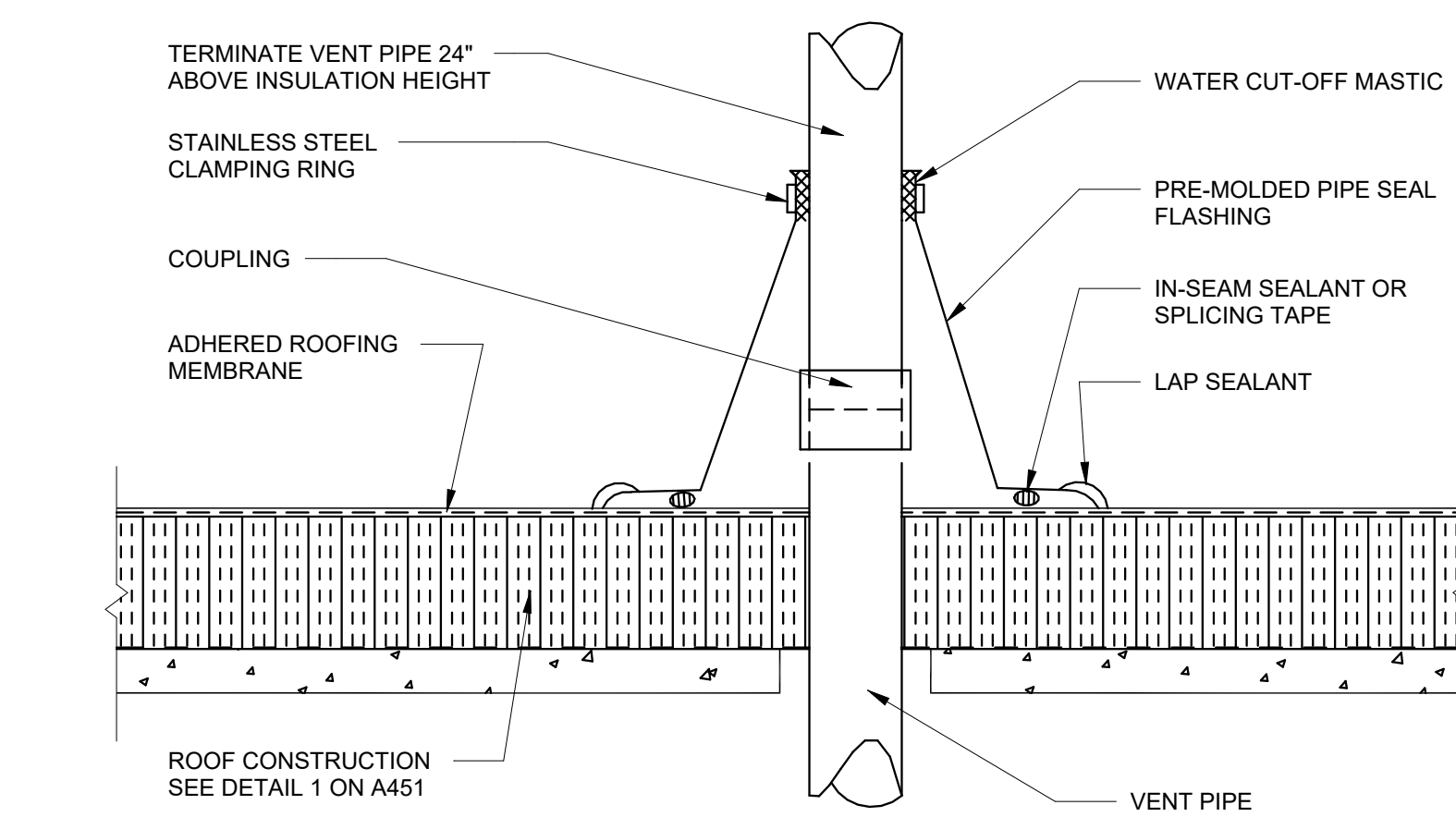
6 EQUIPMENT CURB DETAIL
SCALE: 1 1/2" = 1'-0"



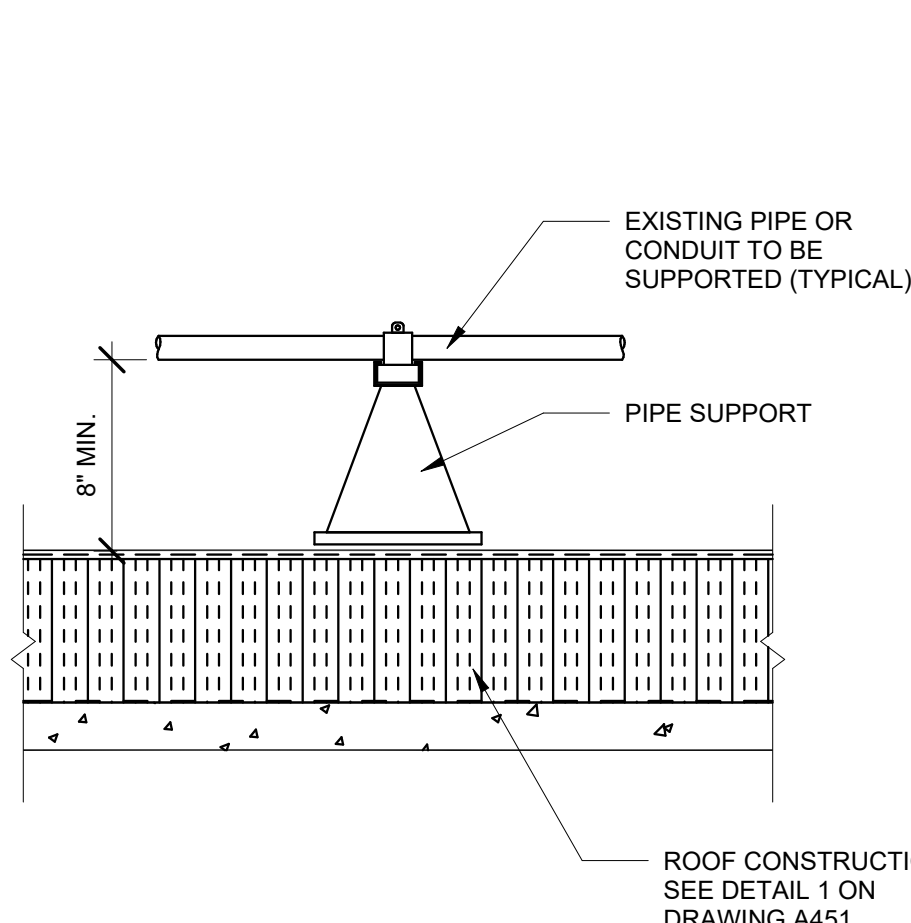
7 PITCH POCKET DETAIL
SCALE: 1 1/2" = 1'-0"



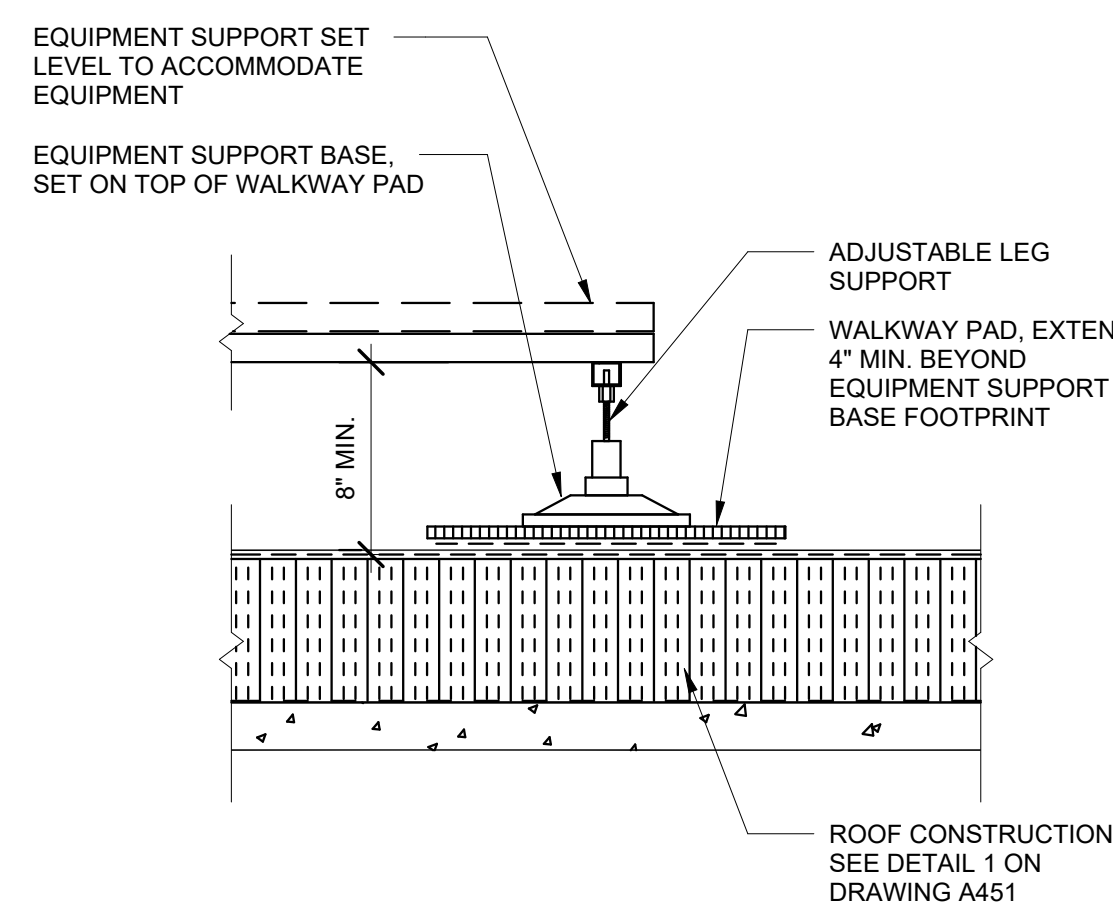
8 WALKWAY DETAIL
SCALE: 1 1/2" = 1'-0"



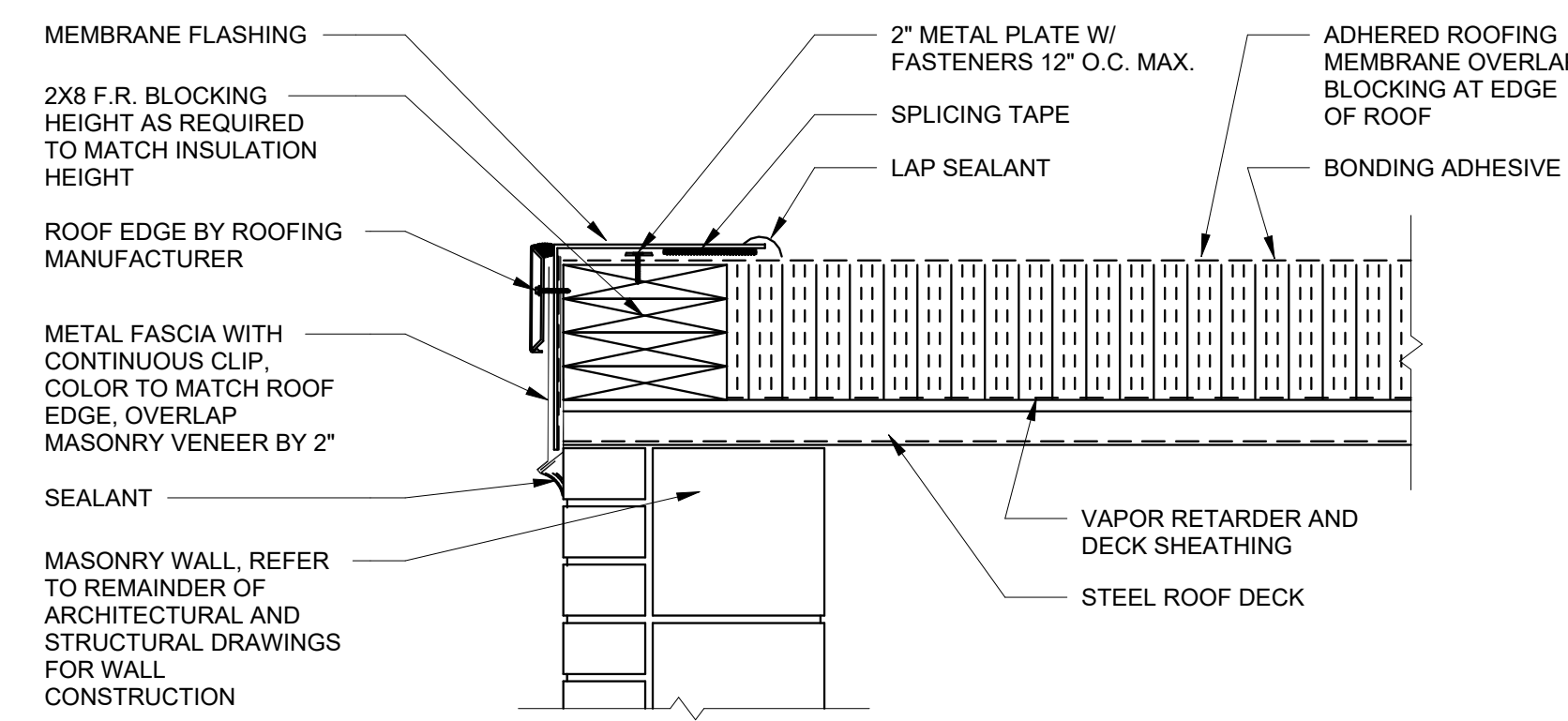
9 VENT DETAIL
SCALE: 1 1/2" = 1'-0"



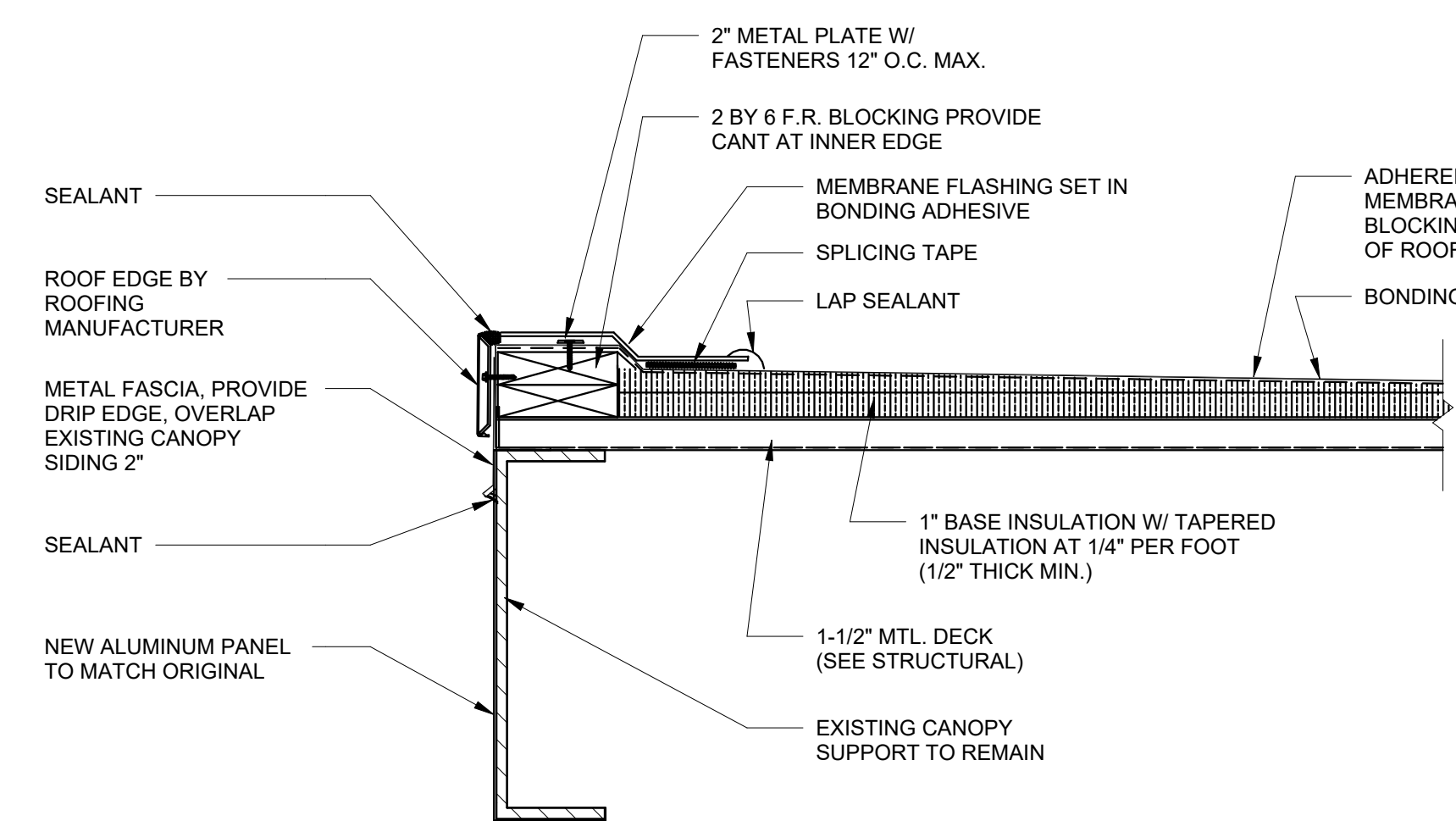
10 PIPE SUPPORT DETAIL
SCALE: 1 1/2" = 1'-0"



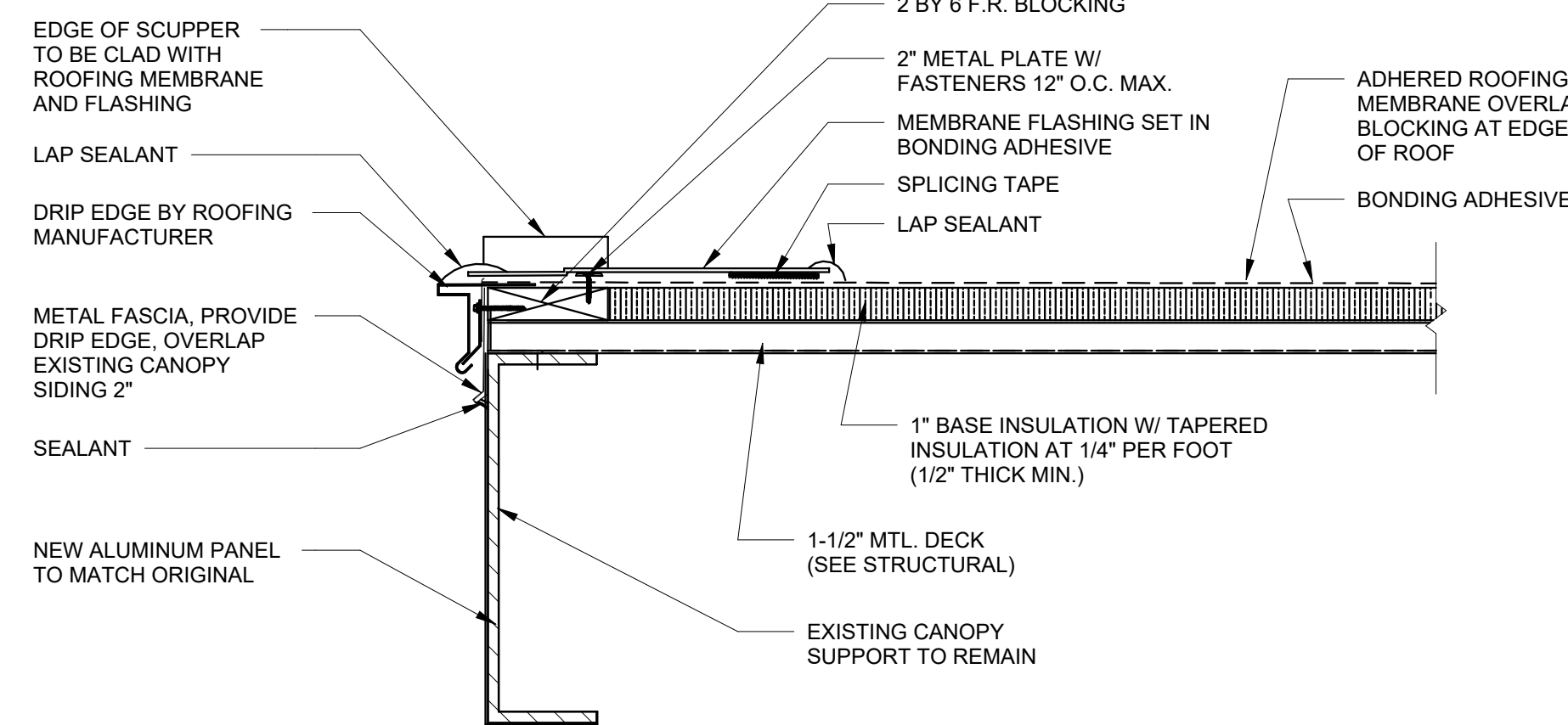
11 EQUIPMENT SUPPORT DETAIL
SCALE: 1 1/2" = 1'-0"



12 ROOF EDGE DETAIL AT ROOF ACCESS
SCALE: 1 1/2" = 1'-0"



13 ROOF EDGE DETAIL AT CANOPY
SCALE: 1 1/2" = 1'-0"



14 SCUPPER DETAIL AT CANOPY
SCALE: 1 1/2" = 1'-0"

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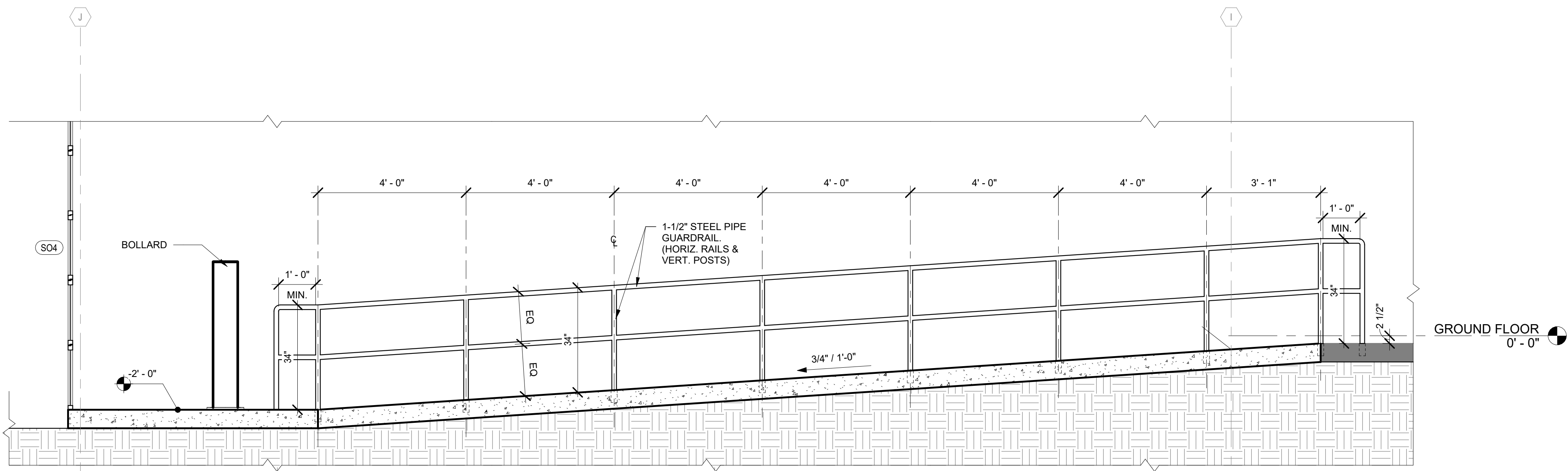
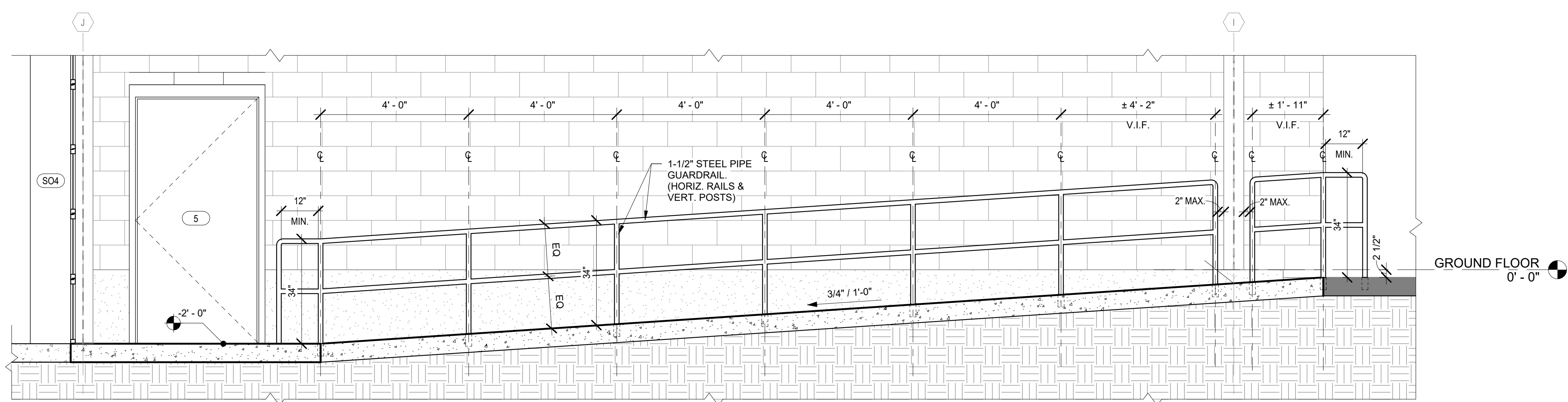
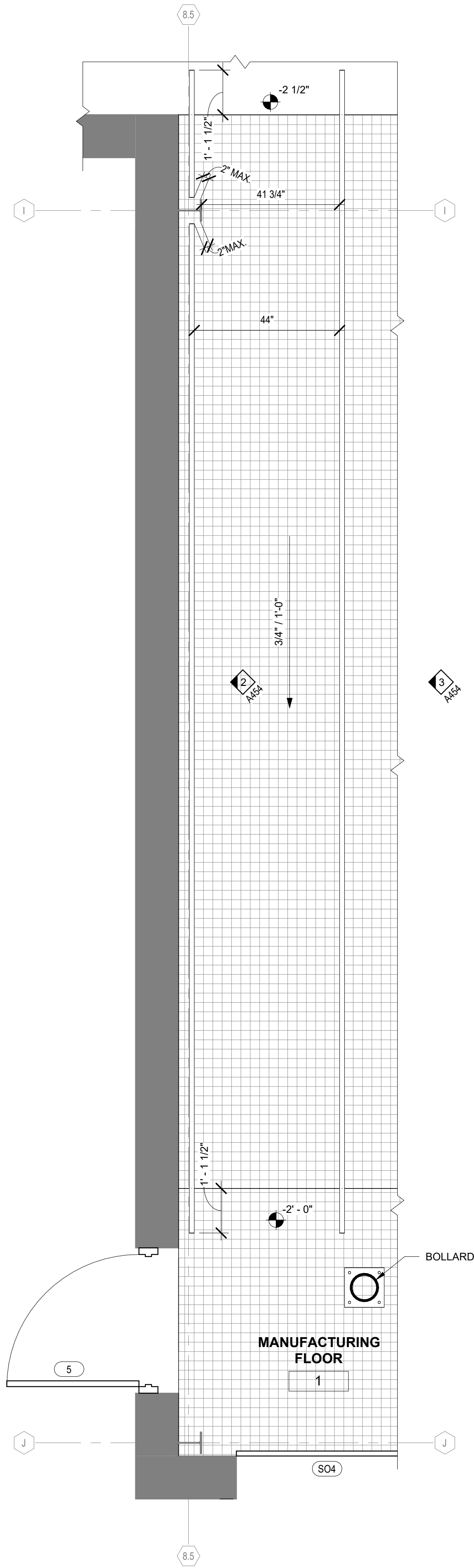
NO.	REVISIONS	DATE
02	ADDENDUM #1	10/29/2021
01	ISSUED FOR PERMIT	10/01/2020
00	ISSUED FOR BID	10/01/2020

DWG TITLE

ROOF DETAILS

DATE	SCALE	DWN.	MJC	CHK.	BS1
10/01/2025	As indicated				
PROJ. No.	432607				
DWG. No.					

A451

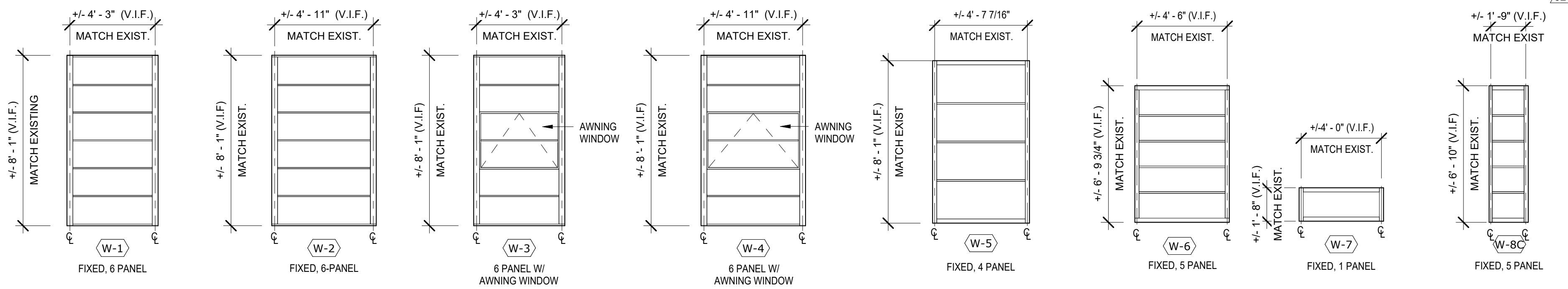


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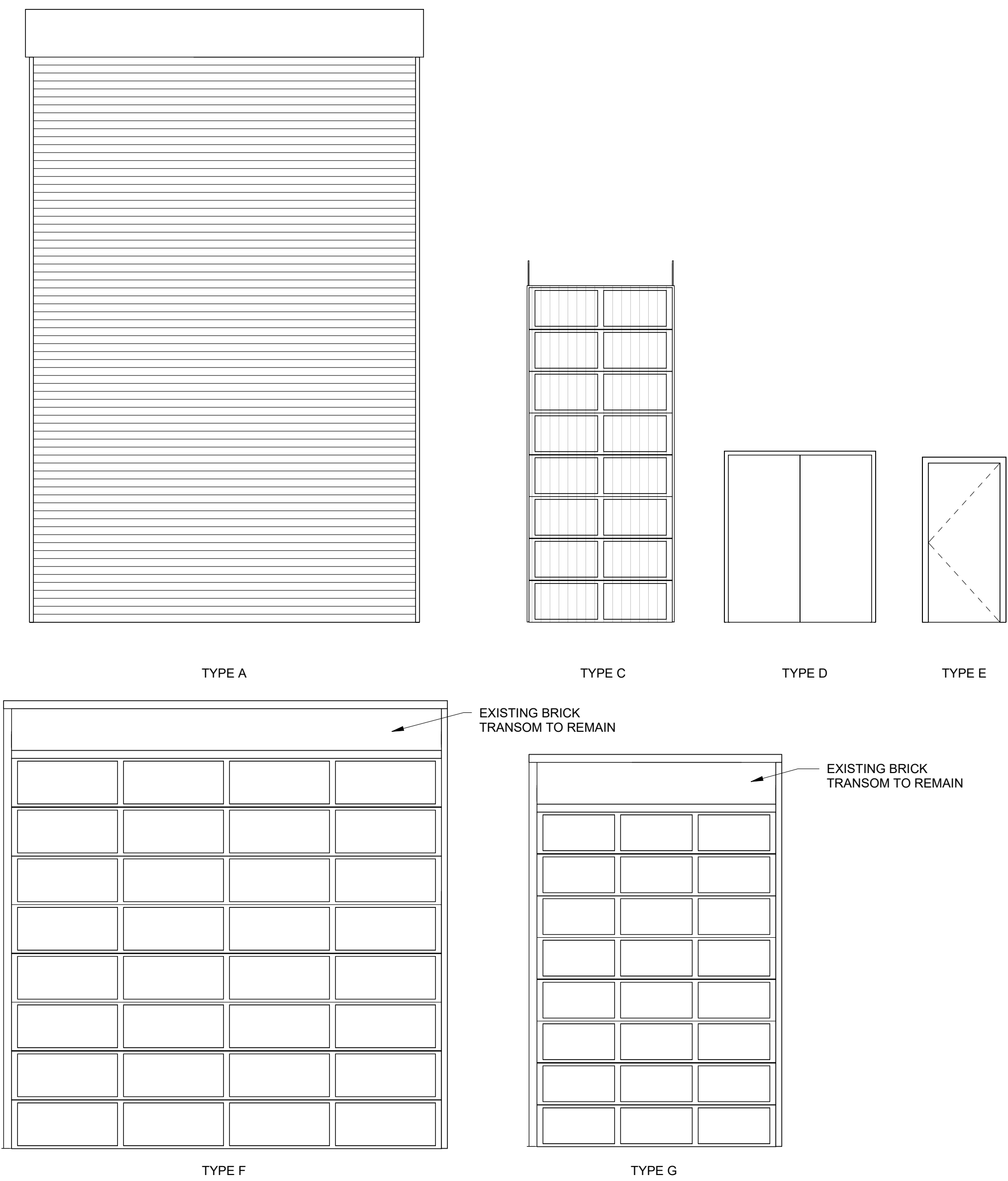
NO.	REVISIONS	DATE
02	ADDENDUM A4	10/29/2023
01	ISSUED FOR PERMIT	10/01/2023
00	ISSUED FOR BID	10/01/2023

**RAMP HANDRAIL PLAN AND
ELEVATIONS**

DATE	10/01/2023
SCALE	1/2" = 1'-0"
DWN.	MJC
PROJ. No.	432007
DWG. No.	



WINDOW SCHEDULE				
Type Mark	Description	Count	Comments	
W-1	FIXED, 6 PANEL	234	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-1A	FIXED, 4 PANEL / SOLID PANEL COMBO	11	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-1B	FIXED, 6 PANEL	1	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-2	FIXED, 6 PANEL	189	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-3	FIXED / OPERABLE COMBO, 6 PANEL	77	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-4	FIXED / OPERABLE COMBO, 6 PANEL	69	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-5	FIXED, 4 PANEL	15	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-5F	FIXED, 4 PANEL	4	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-5G	FIXED, 4 PANEL	2	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-6	FIXED, 5 PANEL	7	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-7	FIXED	16	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-7A	FIXED	5	MATCH EXISTING DIMENSIONS (V.I.F.)	
W-8C	FIXED	1	MATCH EXISTING DIMENSIONS (V.I.F.)	

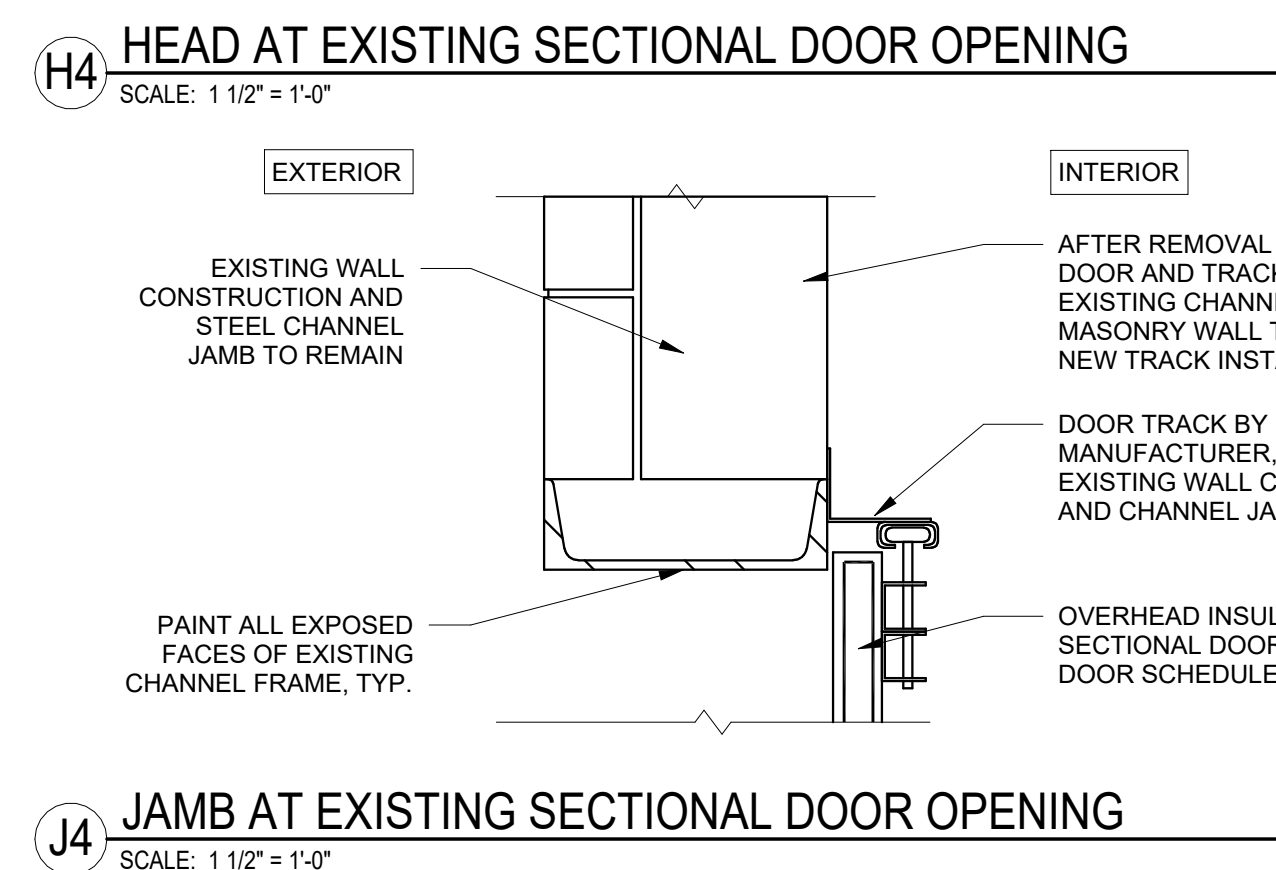
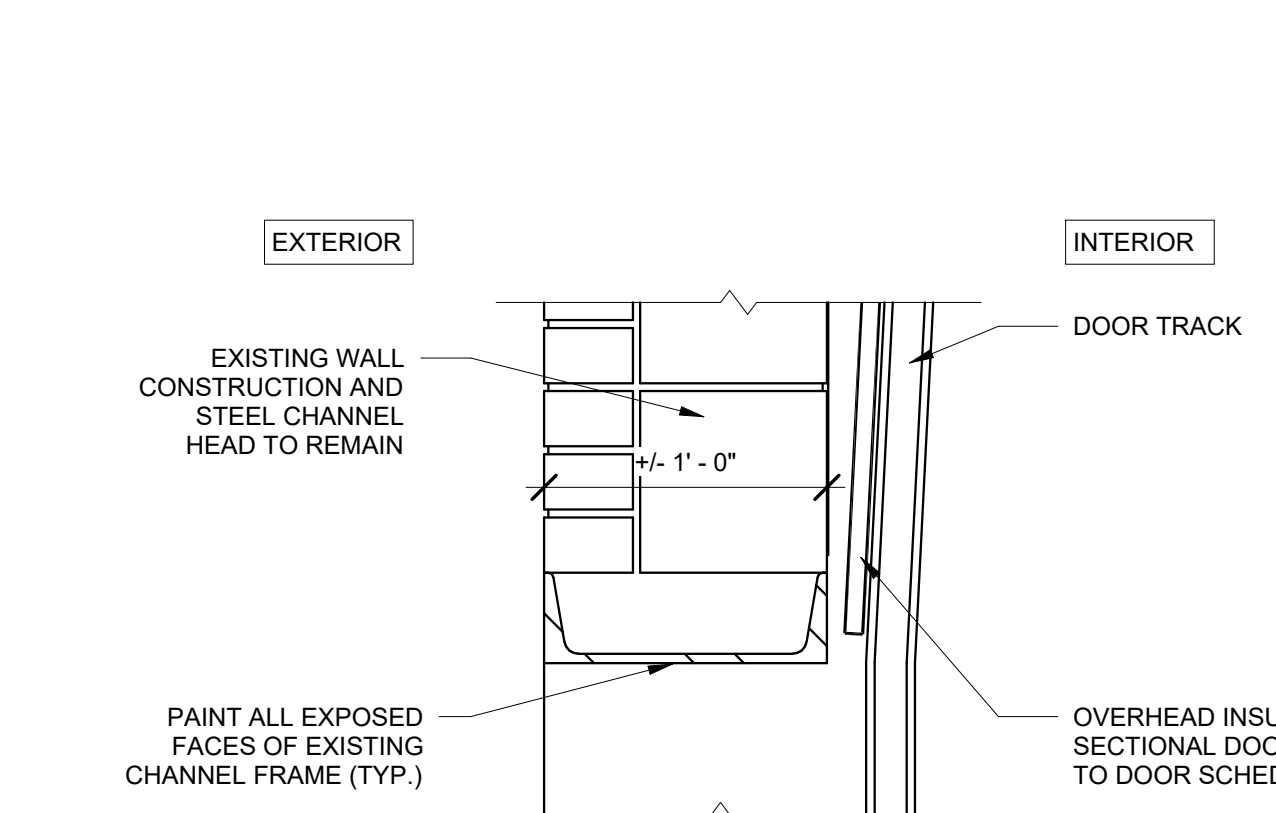
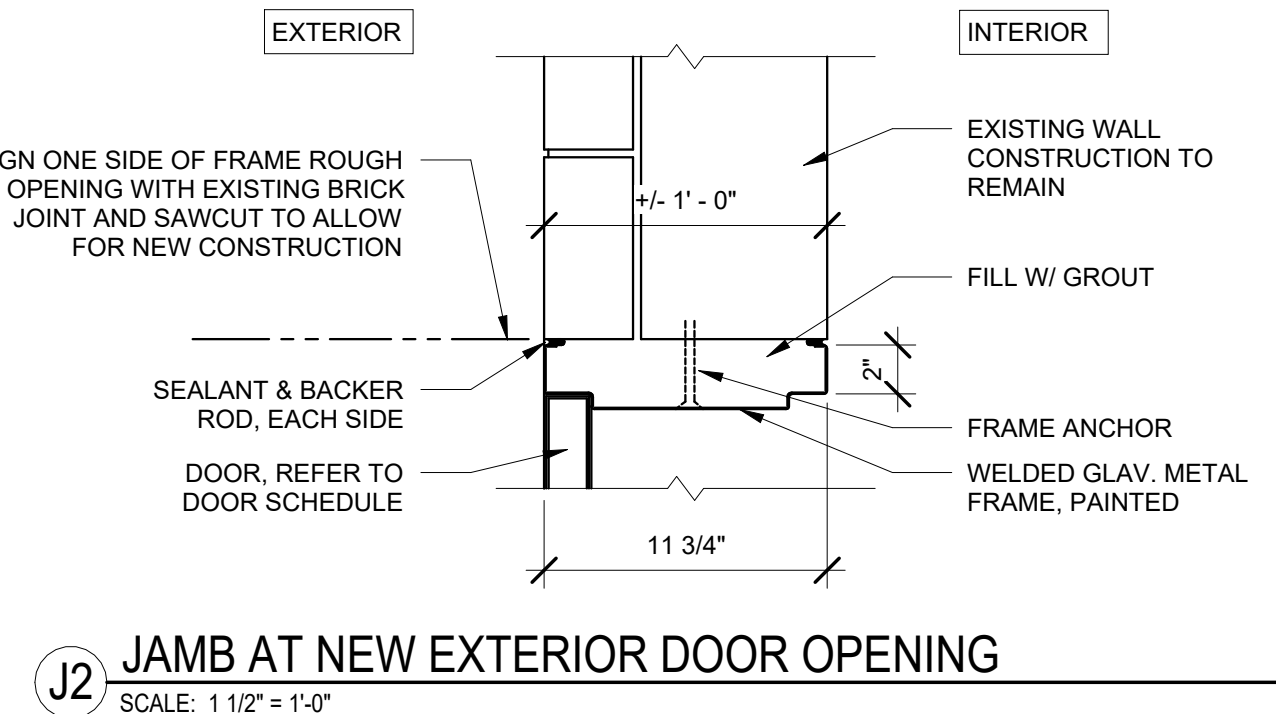
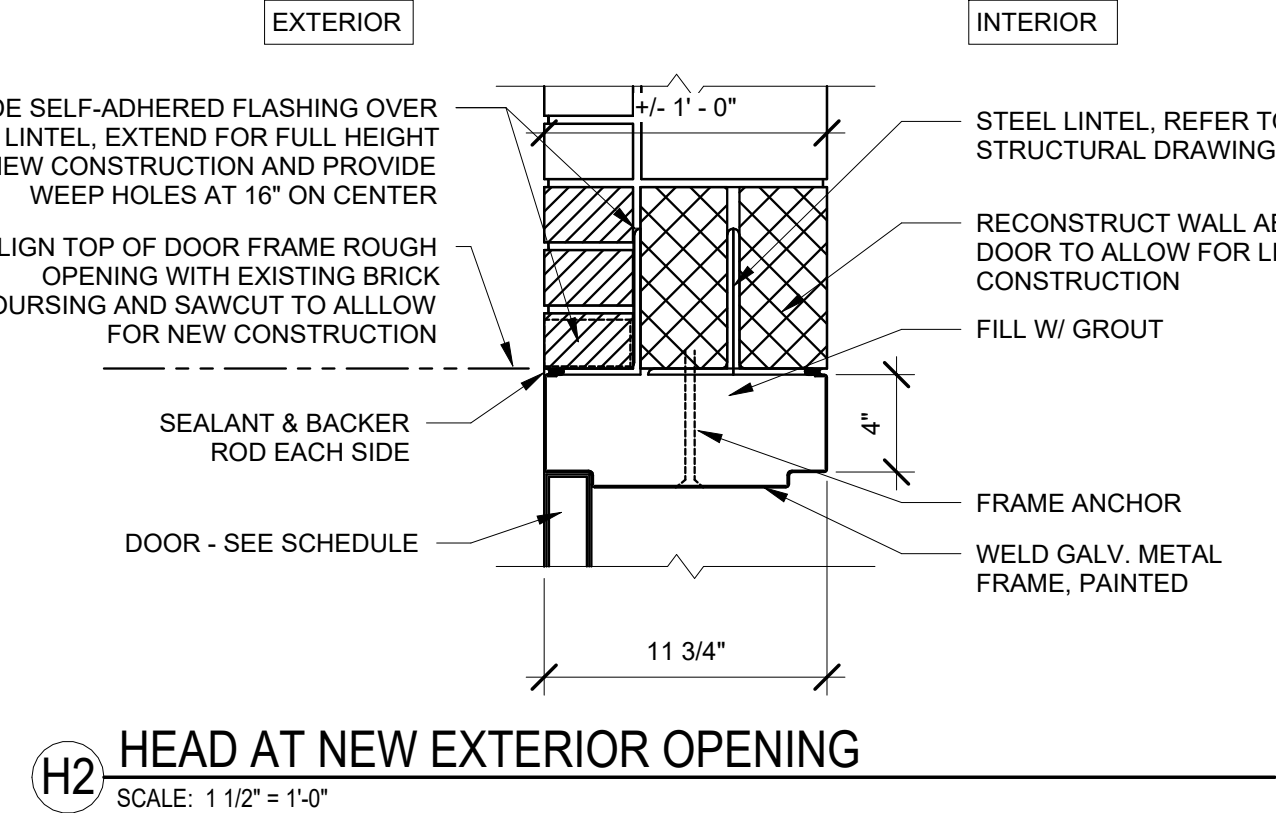
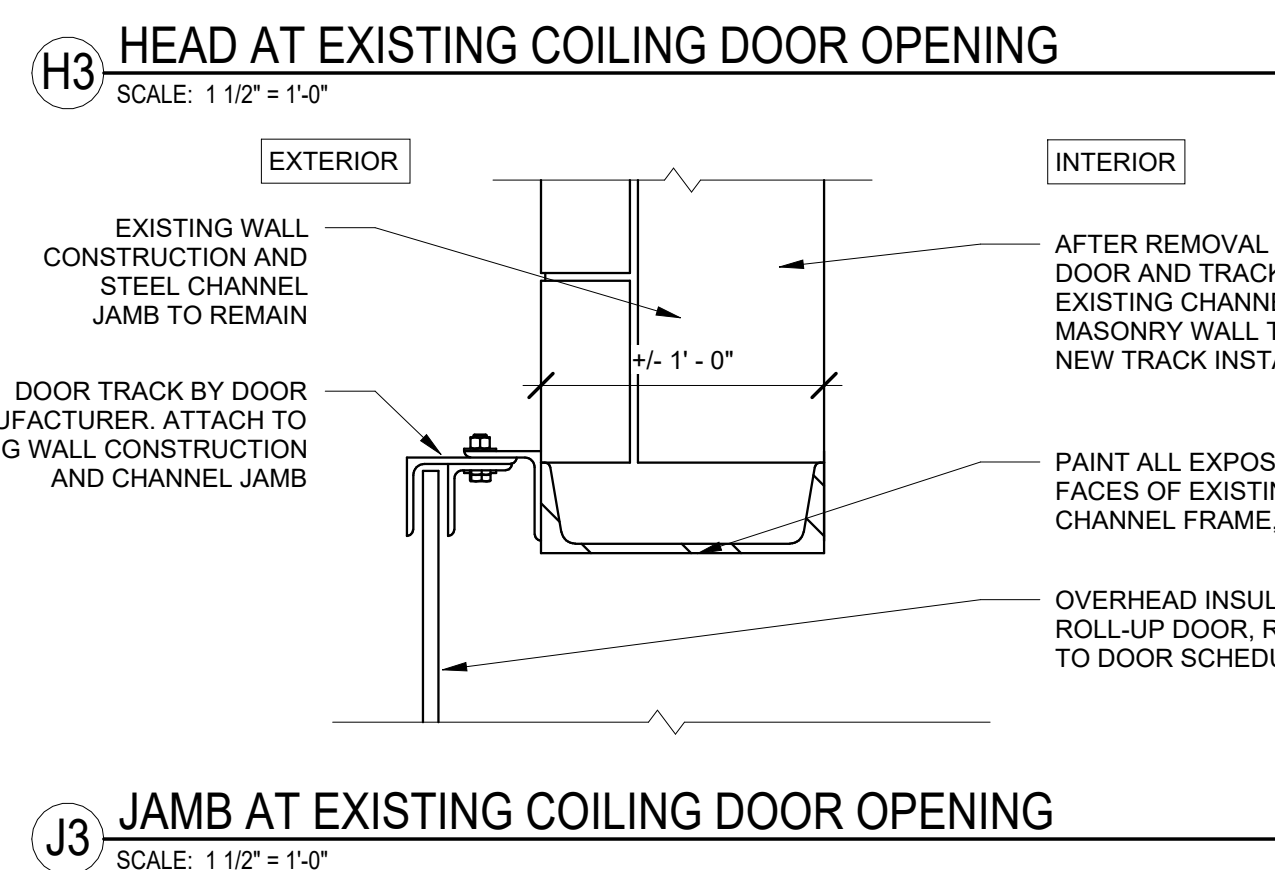
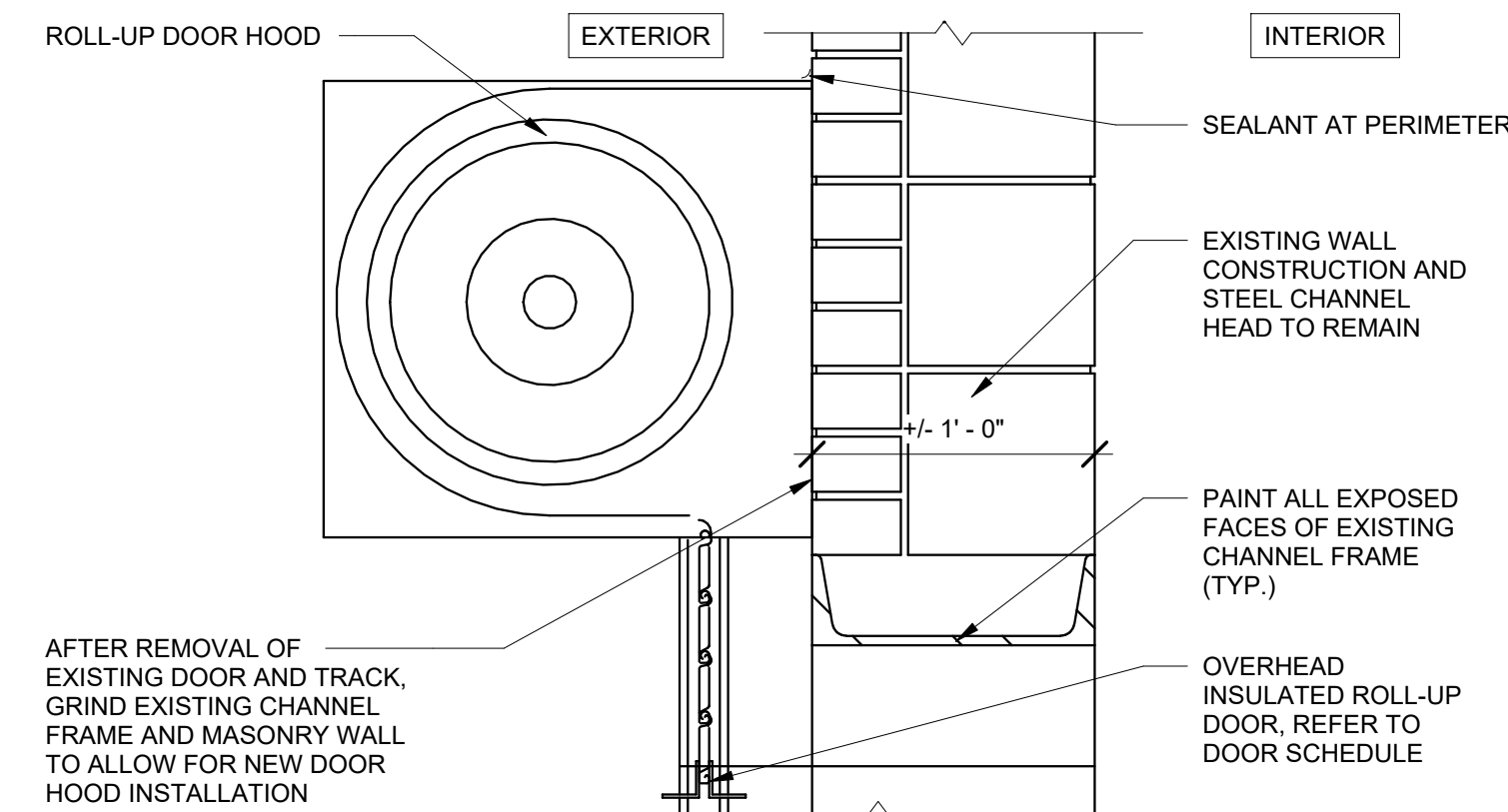
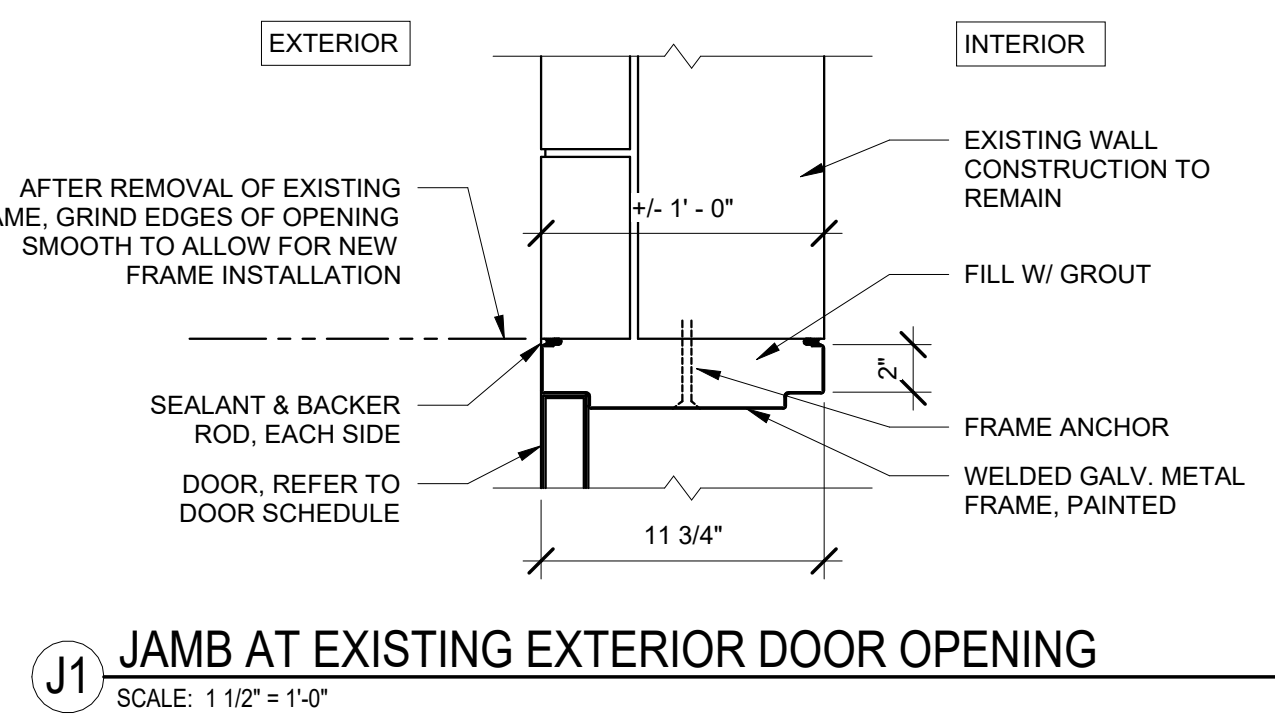
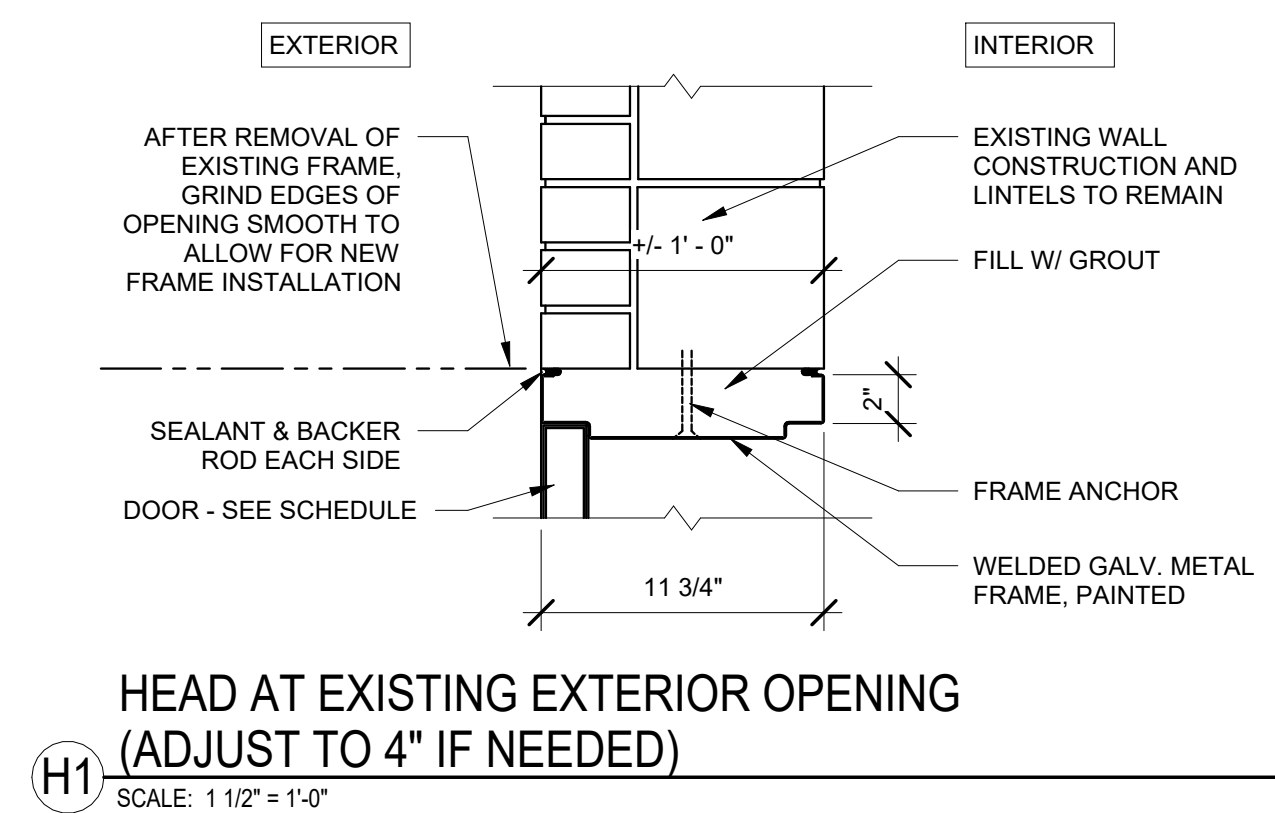


DOOR TYPES
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE											
DOOR NO.	WIDTH	HEIGHT	PANEL	THICKNESS	TYPE	FRAME		DETAILS			NOTES
						MATERIAL	TYPE	HEAD	JAMB	THRESHOLD	
GROUND FLOOR											
1	3'-4"	6'-8"	HM	0'-1 3/4"	E	HM	-	H1	J1	-	-
2	3'-4"	6'-8"	HM	0'-1 3/4"	E	HM	-	H1	J1	-	-
3	3'-8"	7'-0"	HM	0'-1 3/4"	E	HM	-	H1	J1	-	-
4	3'-4"	6'-8"	HM	0'-1 3/4"	E	HM	-	H1	J1	-	-
5	3'-4"	6'-8"	HM	0'-1 3/4"	E	HM	-	H1	J1	-	-
6	3'-4"	6'-8"	HM	0'-1 3/4"	E	HM	-	H1	J1	-	-
7	6'-0"	6'-8"	HM	0'-1 3/4"	D	HM	-	H2	J2	-	-
8	3'-0"	7'-0"	HM	0'-1 3/4"	E	HM	-	H2	J2	-	-
9	3'-0"	7'-0"	HM	0'-1 3/4"	E	HM	-	H1	J1	-	-
10	3'-0"	7'-0"	HM	0'-1 3/4"	E	HM	-	H1	J1	-	-
CO1	16'-0"	23'-8"	ALUM	0'-0 3/4"	A	ALUM	-	H3	J3	-	OVERHEAD COILING DOOR
CO2	16'-0"	20'-8"	ALUM	0'-0 3/4"	A	ALUM	-	H3	J3	-	OVERHEAD COILING DOOR
SO1	16'-0"	16'-4"	STL	0'-1 1/2"	-	STL	-	H4	J4	-	SECTIONAL OVERHEAD DOOR
SO2	10'-0"	14'-0"	STL	0'-1 1/2"	-	STL	-	H4	J4	-	SECTIONAL OVERHEAD DOOR
SO3	14'-0"	17'-4"	STL	0'-1 1/2"	-	STL	-	H4	J4	-	SECTIONAL OVERHEAD DOOR
SO4	6'-0"	14'-0"	STL	0'-1 1/2"	-	STL	-	H4	J4	-	SECTIONAL OVERHEAD DOOR
LEVEL 2-RESTROOM											
12	3'-0"	7'-0"	HM	0'-1 3/4"	E	HM	-	H1	J1	-	-
13	3'-0"	7'-0"	HM	0'-1 3/4"	E	HM	-	H1	J1	-	DOOR FRAME TO REMAIN, REPLACE DOOR SLAB
T.O.S.											
14	2'-6"	7'-0"	HM	0'-1 3/4"	E	HM	-	H2	J2	-	-

NOTE: DOORS 13 AND 14 ARE ON THE ROOF PLAN A151B

FINISH SCHEDULE					
INTERIOR COMPONENTS		REFER TO HAZARDOUS MATERIALS DRAWINGS AND SPECIFICATIONS	REMOVE EXISTING FINISHES AS DIRECTED IN HAZARDOUS MATERIAL DRAWINGS AND SPECIFICATIONS	WASH AND REMOVE FLAKING AND LOOSE PAINT	PREP AND PAINT
1	CONCRETE SLAB (EXISTING AND NEW)	X			
2	INTERIOR MASONRY WALLS (EXISTING)			X	
3	INTERIOR MASONRY WALLS CONSTRUCTED AS PART OF THIS PROJECT				X
4	STRUCTURAL STEEL (EXISTING)	X	X		X
5	STRUCTURAL STEEL CONSTRUCTED AS PART OF THIS PROJECT				X
6	CATWALKS, PLATFORMS, GUARDRAIL AND HANDRAIL ASSEMBLIES, KICK PLATES, STAIRS AND LADDERS (EXISTING)	X		X	X
7	CATWALKS, PLATFORMS, GUARDRAIL AND HANDRAIL ASSEMBLIES, KICK PLATES, STAIRS AND LADDERS CONSTRUCTED AS PART OF THIS PROJECT.				X
8	MISCELLANEOUS METAL ITEMS (BOLLARDS, LINTELS, ETC.) (EXISTING)	X		X	X
9	MISCELLANEOUS METAL ITEMS (BOLLARDS, LINTELS, ETC.) CONSTRUCTED AS PART OF THIS PROJECT				X
10	HOLLOW METAL DOORS AND FRAMES (EXISTING)	X	X		X
11	HOLLOW METAL DOORS AND FRAMES CONSTRUCTED AS PART OF THIS PROJECT				X
12	PRECAST CEILING CONCRETE PLANKS (EXISTING AND NEW)			X	
EXTERIOR COMPONENTS		REFER TO HAZARDOUS MATERIALS DRAWINGS AND SPECIFICATIONS	REMOVE EXISTING FINISHES AS DIRECTED IN HAZARDOUS MATERIAL DRAWINGS AND SPECIFICATIONS	WASH AND REMOVE FLAKING AND LOOSE PAINT	PREP AND PAINT
E1	MASONRY (CMU) WALLS (EXISTING AND INFILLS CONSTRUCTED AS PART OF THIS PROJECT)	X		X	X
E2	MASONRY (BRICK) WALLS (EXISTING AND INFILLS CONSTRUCTED AS PART OF THIS PROJECT)	X		X	
E3	STRUCTURAL STEEL (EXISTING)	X	X		X
E4	STRUCTURAL STEEL CONSTRUCTED AS PART OF THIS PROJECT				X
E5	GUARDRAIL AND HANDRAIL ASSEMBLIES, KICK PLATES, STAIRS AND LADDERS (EXISTING)	X		X	X
E6	GUARDRAIL AND HANDRAIL ASSEMBLIES, KICK PLATES, STAIRS AND LADDERS CONSTRUCTED AS PART OF THIS PROJECT				X
E7	MISCELLANEOUS METAL ITEMS (BOLLARDS, LINTELS, ETC.) (EXISTING)	X		X	X
E8	MISCELLANEOUS METAL ITEMS (BOLLARDS, LINTELS, ETC.) CONSTRUCTED AS PART OF THIS PROJECT				X
E9	HOLLOW METAL DOORS AND FRAMES (EXISTING)	X	X		X
E10	HOLLOW METAL DOORS AND FRAMES CONSTRUCTED AS PART OF THIS PROJECT				X



Buffalo Urban Development Corporation
Hon. Christopher P. Scanlon, Chairman

BUFFALO URBAN DEVELOPMENT CORPORATION

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BUFFALO, NY 14211

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03	ADDENDUM A4	10/29/2025
02	ADDENDUM A2	10/11/2025
01	ISSUED FOR PERMIT	10/01/2025
00	ISSUED FOR BID	10/01/2025

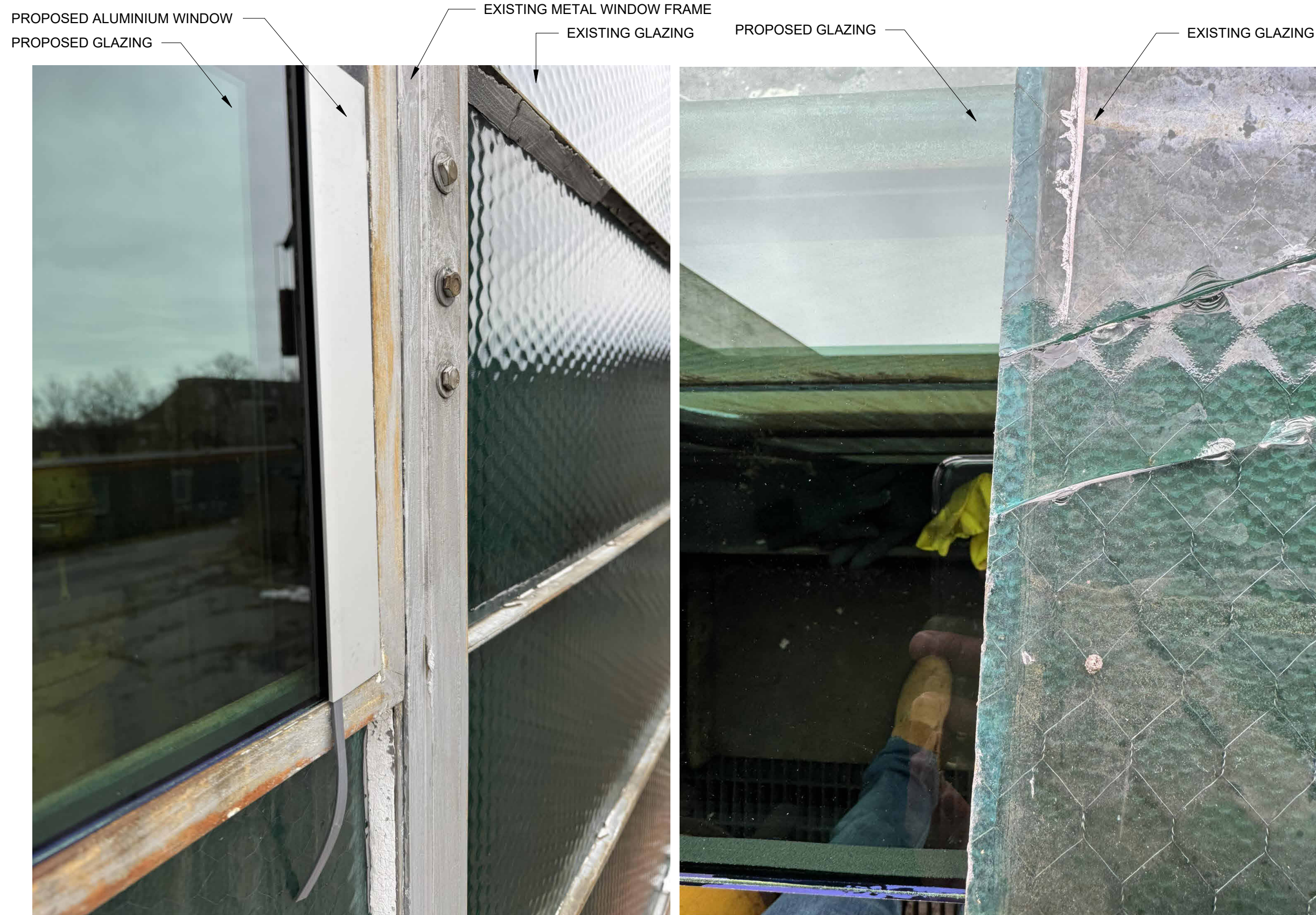
DWG TITLE

DOOR, WINDOW & FINISH SCHEDULE

0 1 2
GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
SCALE AND TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE 10/01/2025
SCALE As indicated
DWN. Author CHK. BS1
PROJ. No. 432607
DWG. No.

A900

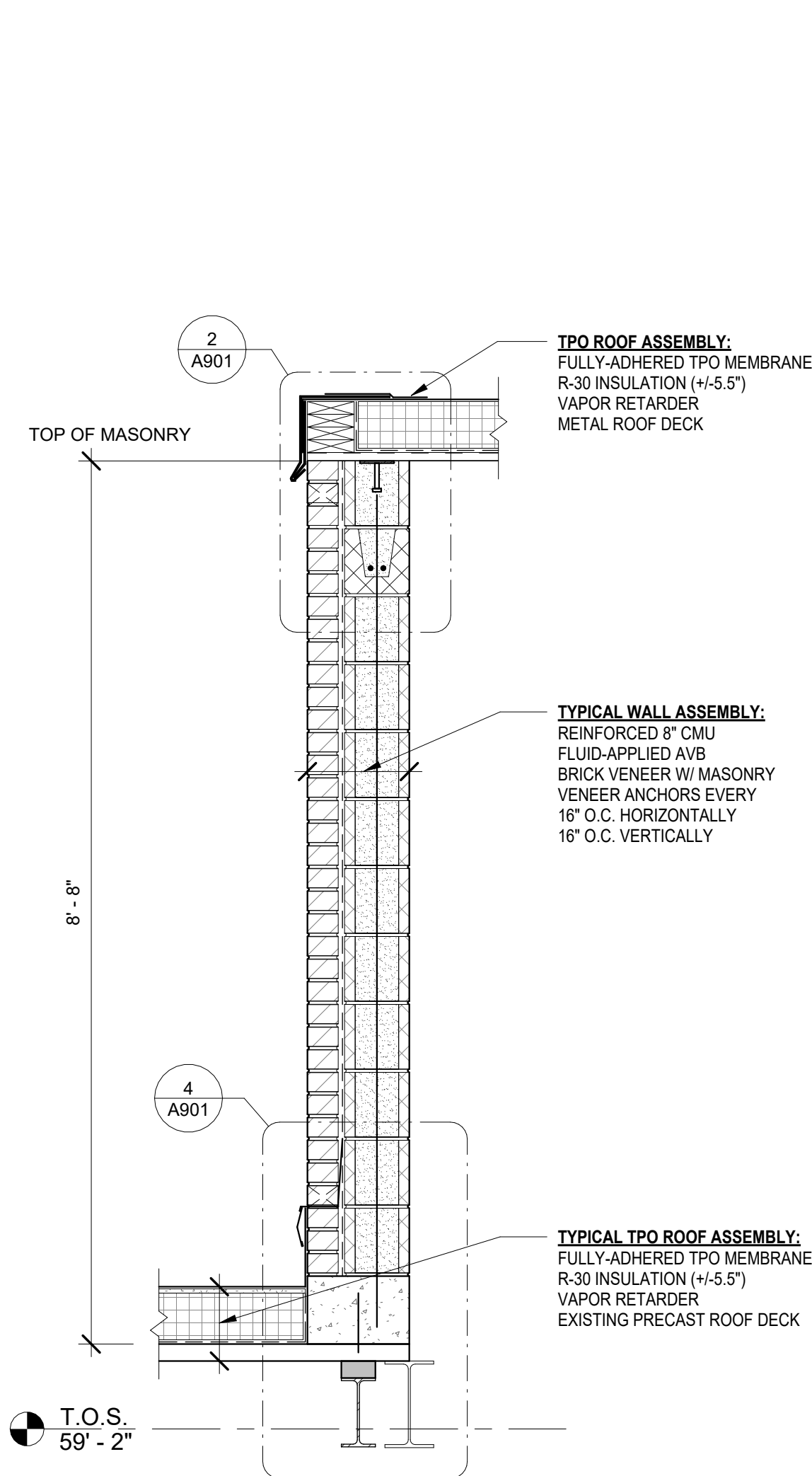


NEW AND ORIGINAL WINDOWS

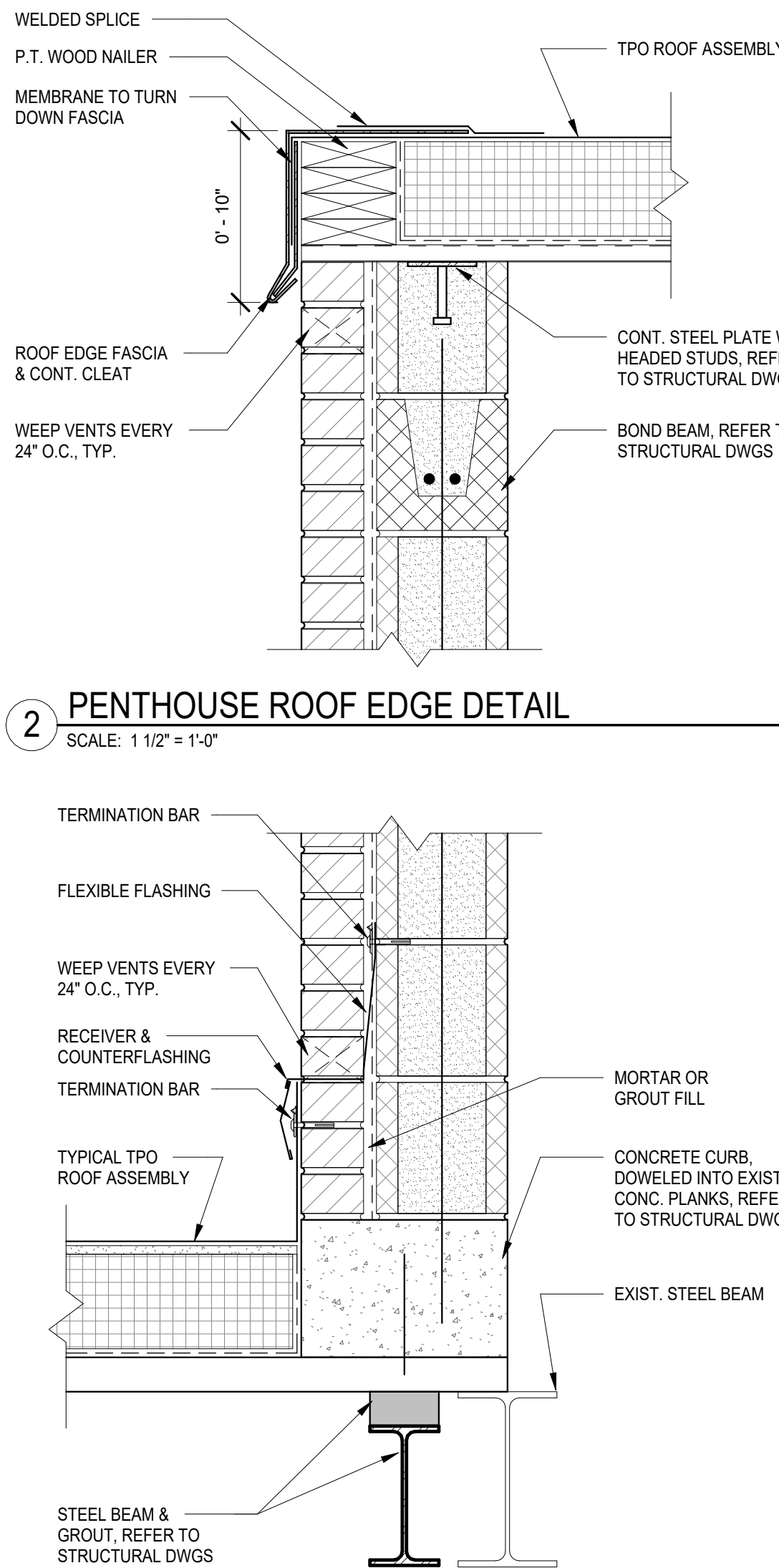
NEW AND ORIGINAL WINDOW GLAZING



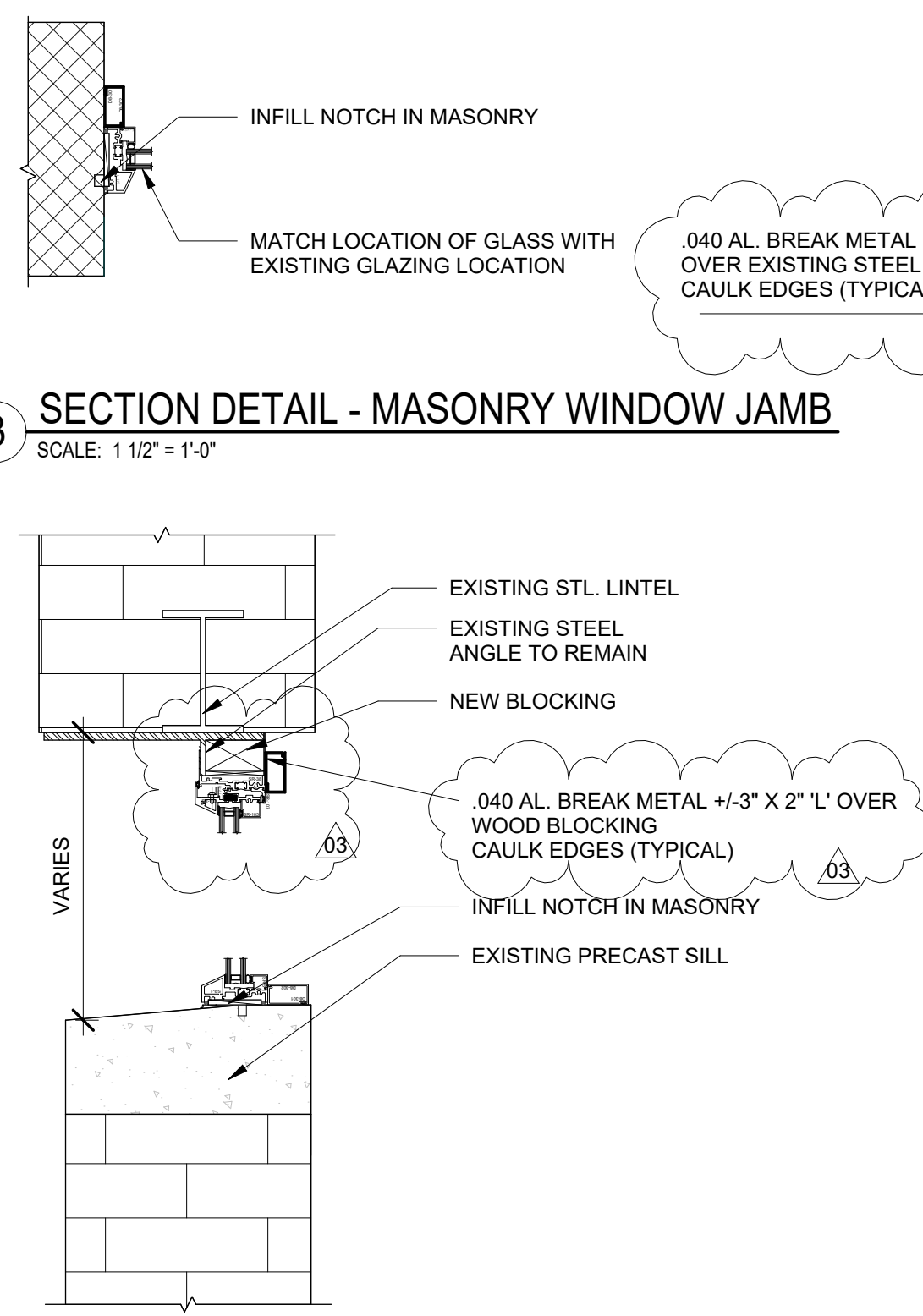
NEW AND ORIGINAL WINDOWS



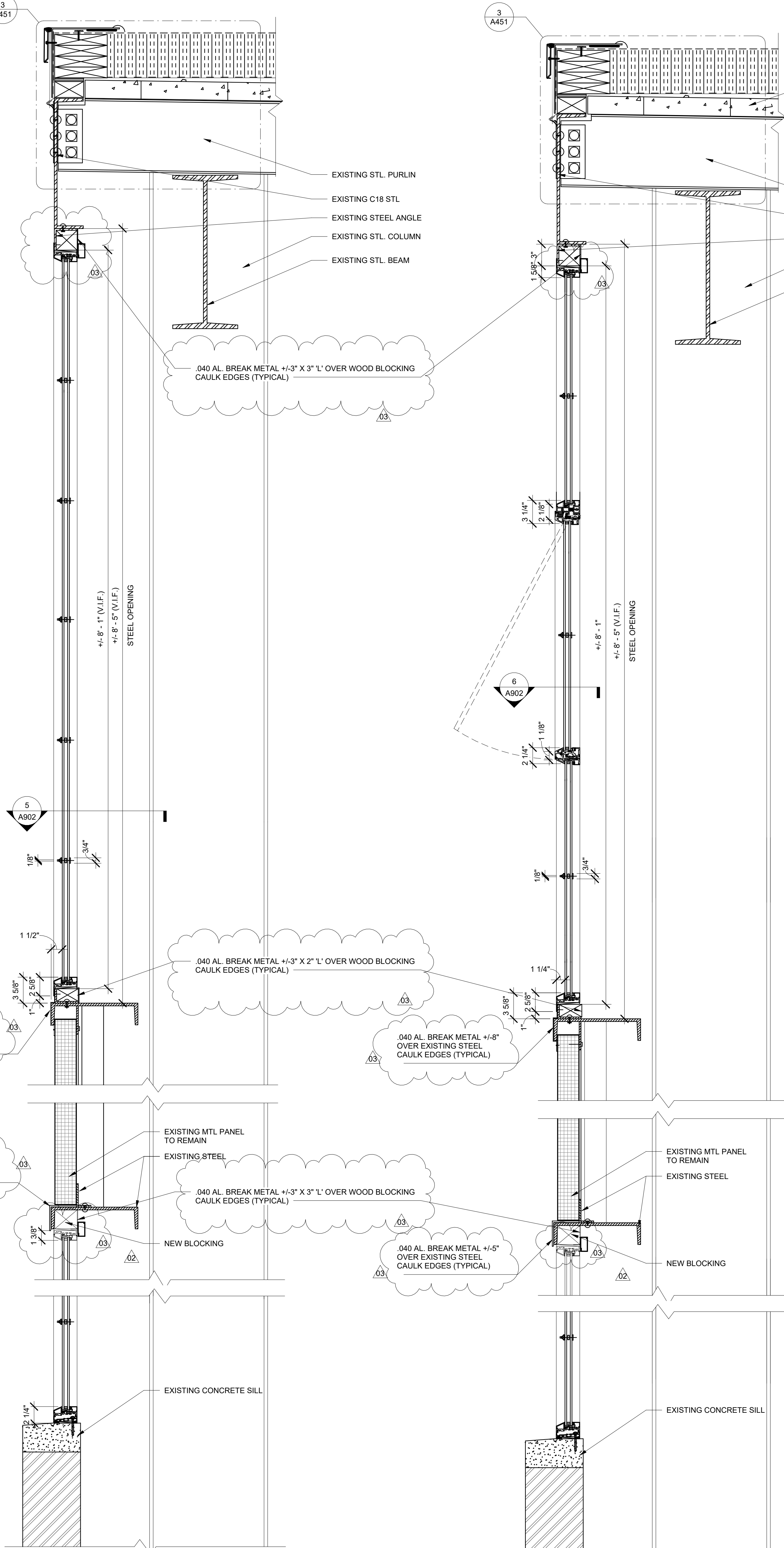
1 TYPICAL PENTHOUSE WALL SECTION
SCALE: 3/4\"/>



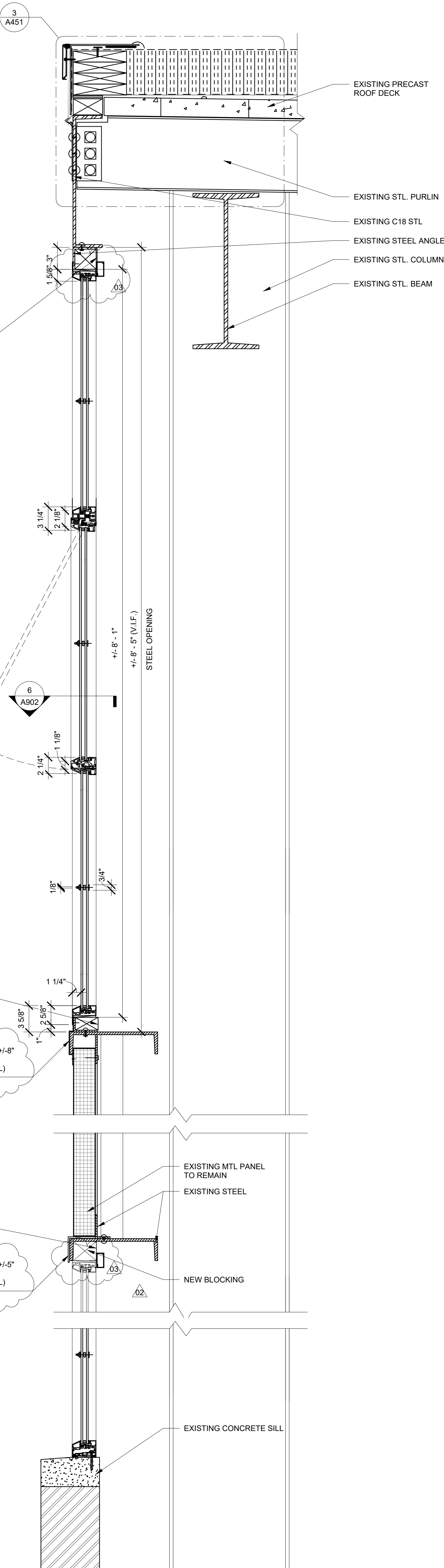
4 ROOF TO WALL TRANSITION
SCALE: 1 1/2\"/>



5 SECTION DETAIL - MASONRY WINDOW INFILL
SCALE: 1 1/2\"/>



6 SECTION DETAIL
FIXED WINDOW
SCALE: 1 1/2\"/>



7 SECTION DETAIL
OPERABLE WINDOW
SCALE: 1 1/2\"/>

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NO.	REVISIONS	DATE
01	ISSUED FOR PERMIT	10/01/2025
02	ISSUED FOR BID	10/01/2025

DWG. TITLE

DETAILS

GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE	SCALE	DWN.	CHK.
10/01/2025	As indicated	MJC	BS1

PROJ. No. 432607
DWG. No.