



Office of General Services

DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 4 TO PROJECT NO. M3167

CONSTRUCTION WORK REPLACE ROOFS, WINDOWS, AND EXTERIOR MASONRY REPAIRS BUILDINGS 19 AND 37 BEDFORD HILLS CORRECTIONAL FACILITY 247 HARRIS ROAD BEDFORD HILLS, NY

May 1, 2026

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.
--

GENERAL REQUIREMENTS

1. SECTION 015633.01 - SECURITY: Discard the Section bound in the Project Manual and substitute the Section (pages 015633.01 – 1 thru 015633.01 – 7) noted "ADDENDUM#4 Revised 04/28/2026".

SPECIFICATIONS

2. SECTION 030130 - MAINTENANCE OF CAST-IN-PLACE CONCRETE: Add the accompanying Section (pages 030130 – 1 thru 030130 – 6) to the Project Manual.
3. SECTION 085113 - ALUMINUM WINDOWS: Discard the Section bound in the Project Manual and substitute the Section (pages 085113 – 1 thru 085113 – 8) noted "ADDENDUM#4 Revised 04/28/2026".
4. SECTION 085663 STEEL DETENTION WINDOW: Discard the Section bound in the Project Manual and substitute the Section (pages 085663 – 1 thru 085663 – 10) noted "ADDENDUM#4 Revised 04/28/2026".
5. SECTION 088000 - GLAZING: Discard the Section bound in the Project Manual and substitute the Section (pages 088000 – 1 thru 088000 – 10) noted "ADDENDUM#4 Revised 04/28/2026".
6. SECTION 093013 - CERAMIC TILING: Discard the Section bound in the Project Manual and substitute the Section (pages 093013 – 1 thru 093013 – 10) noted "ADDENDUM#4 Revised 04/28/2026".

DRAWINGS

7. Revised Drawings:
 - a. Drawing Nos. A-203, A-204, A205, A206, A207, A208, A-209, A-210, A-601, A604, A-605, A-606, A-607, A608, noted ADDENDUM #4 dated 4/28/2026, accompanies this Addendum and supersedes the same numbered previously issued drawing.
8. Addendum Drawing:
 - a. Drawing No. A-609 and A-610, noted ADDENDUM #4 dated 4/28/2026, accompanies this Addendum and forms part of the Contract Documents.

END OF ADDENDUM

Brady M. Sherlock, P.E.
Director, Division of Design
Design & Construction

SECTION 015633.01 - SECURITY

PART 1 - GENERAL

1.1 SUMMARY

- A. The Work of this Contract is being performed at a secure Correctional Facility.
- B. Any reference to the Contractor, subcontractors, suppliers, and equipment manufacturers shall mean those entities and any/all of their employees.
- C. Contractor and any subcontractors, suppliers and equipment manufacturers must comply with and adhere to the Facility's security regulations. A copy of the Facility's security regulations will be distributed at the initial job meeting.
 - 1. Any situation not covered by the Facility's security regulations should be brought to the attention of the Director's Representative, the Corrections Officer, and any assigned Facility staff.

1.2 SCHEDULING FOR CORRECTION OFFICER COVERAGE

- A. If at any time a contractor or subcontractor is performing work within the secure perimeter of a Correctional Facility, Correction Officer coverage will be provided as deemed appropriate by the Deputy Superintendent for Security ("DSS").
 - 1. If the construction site is within a control fenced area, which is an area inaccessible to incarcerated individuals outside the Facility's secure perimeter, or when construction sites are in close proximity to one another or to an existing post, then the DSS will modify the amount of security coverage or determine if security coverage is necessary.
 - 2. In all cases, sufficient security coverage will be provided to maintain the project schedule and to ensure that the Facility's security requirements are met.
- B. Contractor must notify the Director's Representative, at least 48 hours in advance of each day's activities, regarding the number of crews that will be working and when and where they will be working.
 - 1. Failure to work the number of crews for the times and areas as scheduled shall make the Contractor liable for the additional costs to the State for Correction Officer coverage resulting from such changes, unless 48 hours advance notice has been given for any changes that affect Correctional Officer coverage.

1.3 SECURITY REGULATIONS

- A. Background Security Checks: The Work of this contract is being performed at a secure Correctional Facility. Contractors' and Subcontractors' employees at the Facility will be

fingerprinted without charge by the Facility I.D. Officer and shall be subject to the approval of the NYS Department of Corrections and Community Supervision (“DOCCS”).

1. As a result of information gained through fingerprinting, anyone deemed inappropriate to work in a correctional facility will not be allowed access to the Work site. Former incarcerated individuals of the New York State correctional system or that of another state, or any county, city, or federal government correctional system, may not be permitted inside a correctional facility, unless they are reviewed and approved by the Facility Superintendent, in consultation with the assigned Facility Operations Assistant Commissioner.
 2. Contractors should anticipate that it could take up to two weeks for DOCCS to complete required security background checks as described above.
- B. Work Hours: The Contractor shall anticipate an eight and one half hour workday, which shall include up to a total of one and one-half hours of total anticipated processing time each day for entrance to and departure from the Work site.
1. The actual time when Contractor’s employees, including truck drivers, may enter and leave the Facility will be established by the Facility. Employees who are more than 15 minutes late for their scheduled entrance time may be denied entry, with the exception of the Construction Superintendent.
 2. Employees, other than approved superintendents and truck drivers, will not be allowed to leave the Facility during the workday, and will be required to bring their lunches and eat in the Work site.
- C. Identification Cards: Two photo identification cards will be furnished and maintained by the Facility for all employees, including subcontractors’ employees.
1. One card will be issued to each person for use at all times while on Facility property and returned upon exiting Facility premises.
 2. The duplicate card will be retained by the Facility for their file.
 3. Additionally, each person entering the Facility shall be hand stamped using the ultraviolet hand-stamping technique, shall sign a logbook to indicate the time entering and leaving the Facility, and will be processed into the Facility via a walk-through metal detector, a hand-held metal detector, or the use of a Cellsense detector.
- D. Civilian Clothing:
1. No clothing shall be unattended on Facility property.
 2. No clothing shall be left behind at the Facility.
 3. All additional clothing must be removed from the Facility daily.
 4. Each contractor will be responsible for personal clothing.
 5. Any loss of such clothing must be reported to the Corrections Officer on duty.
 6. Green clothing may not be worn by Contractor’s personnel.
 7. Excessive civilian clothing will not be allowed on Facility premises at any time.
- E. Controlled Substances: Alcoholic beverages, cannabis, as used herein shall refer to any form of cannabis that has psychoactive properties, or illegal drugs of any kind will not be allowed on Facility premises.

1. Prescription medications must be brought to the attention of security personnel upon arrival.
 2. A single day supply of prescription medicine will be allowed into the Facility.
 3. Persons under the influence of illegal drugs, cannabis, or alcohol will not be allowed into the Facility and may be permanently removed from the construction project.
- F. Weapons: Firearms, ammunition, knives, or other weapons (including mace or pepper spray), handcuff keys, and explosives will not be allowed on Facility premises at any time.
- G. Contact with Incarcerated Individuals: Contact, communication, or exchange of any article with incarcerated individuals is strictly prohibited. Any attempts by incarcerated individuals to contact or communicate with contractors must be reported immediately to the Correction Officer on duty.
- H. Emergency Event Procedures:
1. In the event of an emergency of any kind, which may interfere with the welfare or operation and security of the Facility or its personnel, the Facility reserves the right to stop Work for a period of time.
 2. During this period, Contractors shall remain in designated areas and shall follow directions of the Correction Officer(s) or Facility Employee(s) on duty.
 3. Failure to follow direction will not be tolerated and may result in removal from the Facility.
- I. Tools and Equipment:
1. The Contractor's workers must daily provide and maintain with the DSS and the Tool Control Officer a complete itemized inventory of all tools entering and leaving the Correctional Facility.
 - a. All tools must be removed from the Facility daily.
 - b. The contractor's workers shall assist security staff in checking tools in and out of the Facility and assume responsibility for the tools daily.
 - c. All contractors and subcontractors, employees, tools, materials, and vehicles entering a secured area must be checked in and out through an area designated by the Facility (i.e., Sally Port) daily.
 - d. Facility staff must be notified immediately if a tool is discovered missing.
 - e. Make every effort to limit the number of tools brought into the Facility.
 - f. Only appropriate tools that are anticipated to be required for the current project should be included in the tool inventory.
 - g. Powder-actuated tools are not allowed unless approved by DOCCS. All requests for use shall be submitted to the Director's Representative on company letterhead.
 - h. DOCCS Form No. 4071B "Tool Accountability for Outside Contractors" will be utilized for signature by DOCCS staff to document the approval and accuracy of the submitted daily tool inventory. Staff will account for the tools every day by signing this form prior to the contractor exiting the Facility. The form will then be attached to the tool inventory and placed in the tool container with a copy to the Facility DSS.
- J. Project Documents: Blueprints, contract documents, and project reference documents are regarded as secure information and shall be inventoried, manifested, and handled accordingly. All such project documents are to be secured, accounted for, and turned over to the Facility at the

conclusion of the project. In exceptional circumstances, other arrangements for secure storage, handling, and accountability of these documents may be made if approved by the DSS.

K. Electronic Devices: Cellular phones, wireless phones, tablets, pagers, laptop computers, personal digital assistants, any device with global positioning (GPS) capabilities, any device with audio recording capabilities, cameras, electronic cigarettes or other similar devices, are regulated as described below:

1. Phones:
 - a. The possession of cell phones within the secure perimeter is strictly prohibited.
 - b. The use of cell phones outside the secure perimeter is permitted.
 - c. Phone access will be provided to the Contractor, who will be responsible for the cost of all calls at a predetermined price per minute.
 - d. If a communication device is approved for use on Facility property by the Facility Superintendent or designee for a specific task, it must be placed on the contact tool inventory list, and strictly accounted for.
 - e. If a phone is allowed for use at the Facility as stated above, it must be removed from the Facility on a daily basis. Such a device must not interfere in any way with any of the DOCCS radio systems.
2. Radios: Radios require approval for use on Facility property by the Superintendent for a specific task. If approved, radios must be strictly accounted for and removed from the Facility on a daily basis and cannot interfere in any way with any of DOCCS Facility radio systems.
3. Laptop Computers: Laptop computers (with or without modems) will be allowed when necessary for the installation, maintenance, or repair of equipment. They must be removed each day from the Work site and be placed on the tool inventory list. A request for use must be approved and included on a daily gate pass.
4. Pagers: Only those pagers necessary for the performance of the Project will be allowed and require prior approval by the Facility Superintendent or designee.
5. Cameras: Cameras will be allowed when necessary for the performance of the work project, only upon approval of the Facility Superintendent or designee for a specific purpose that is noted on the gate clearance.
 - a. Photographs taken on facility grounds will be reviewed by security staff designated by the Facility DSS.
 - b. All cameras must be removed daily from the Facility.
6. Vehicles: Any vehicles equipped with GPS, Navigation, cell phone, and internet systems are subject to all electronic device requirements and provisions as identified above.

L. Control of Vehicles and Heavy Equipment:

1. All Contractor vehicles and heavy equipment must be removed from secure areas daily.
2. Parking of vehicles on State property will be permitted only in those areas designated by the Facility, if available.
3. All vehicles left unattended on Facility grounds must have windows closed, ignition off, doors and trunks securely locked with keys removed at all times and must be equipped with a steering wheel lock and locking fuel caps or a siphon-proof gas tank inlet.

4. Vehicles are subject to search while on Facility property with the owner/operator present.
 5. All speed limits must be adhered to on Facility grounds.
 6. Vehicles and construction equipment that could be employed to effect an escape, or to breach the perimeter controls of a facility, shall be stored in a secure area outside the Facility (secure perimeter) where practical. When heavy equipment must be left inside the Facility, it shall be disabled in accordance with the Facility regulations.
 7. No vehicle will be allowed access to any other area without proper authorization.
 8. Pickup Trucks:
 - a. Open beds of pickup trucks must be empty.
 - b. All areas of pickup trucks with bed caps or covers, and enclosed trailers, must be able to be secured.
 9. Heavy Equipment must be disabled as directed by Facility personnel.
- M. Containers: When Conex boxes and large trash containers are filled up while being utilized at a correctional facility as part of a construction project, they must remain at the facility for two facility counts before they can be removed. Containers will be thoroughly searched by security staff before being removed from the Facility.
- N. Fire and Safety
1. Handling of Combustible Materials:
 - a. Open fires at the construction site will not be permitted.
 - b. Surplus dirt, rubbish, and waste material, particularly combustible materials such as paper, packing boxes, cardboard, or scrap lumber, must be removed from the premises each night or more often as directed.
 - c. The Work site must be cleaned daily of all debris that would jeopardize the safety and security of the Facility.
 - d. Any work that would constitute a fire hazard or related breach to security at the Facility must be addressed to the satisfaction of the DSS or designee prior to the end of the workday.
 2. Caustic and Volatile Materials:
 - a. Gasoline, oil, or other fuels must be stored as directed.
 - b. Proper precautions must be taken as directed by the DSS.
 - c. Safety Data Sheets (SDS) must be provided by the Contractor prior to any Work on the project.
 - d. Flammable materials must be contained in approved cans while being carried throughout the Facility.
 - e. The Deputy Superintendent for Administration (“DSA”) will advise outside contractors of any hazardous chemicals/materials that may be encountered in the normal course of their Work at the Facility.
 - f. During initial job meetings with outside contract workers, the DSA or designee will review hazardous chemicals/materials that the Contractor may use, to ensure that the products are properly accounted for and secured when not in use.
 - g. The Work site must be cleaned daily of all debris that would jeopardize the safety and security of the Facility. Any work actions that would constitute a breach to the

security of the Facility must be addressed to the satisfaction of the DSS prior to the end of the workday.

3. Smoking: No smoking is allowed indoors.
4. Confined Space Entry:
 - a. Contractors are responsible for their own confined space entry, equipment, and rescue procedures.
 - b. When contractors are working in a permit-required space, they must notify the Facility permit issuer and obtain a permit from the Facility designee prior to the entry. No permit is issued for more than one shift.
 - c. The Contractor shall debrief the Facility permit issuer of any hazards that were confronted or created in the permit spaces.
5. Lockout/Tagout: Contractors will be required to follow Facility electrical lockout/tagout procedures prior to performing Work. These procedures must be reviewed by the Facility Plant Superintendent, or Facility designee.
6. Safety: Contractors will be required to adhere to OSHA standards and practices to ensure a safe work environment.
7. Debris Inspection: Any dirt, rubbish, and construction debris will be thoroughly inspected by DOCCS personnel prior to being removed from the Facility. Any container with construction debris left unattended (such as dumpsters) will be held inside the Facility through a facility count before its removal from the Facility will be allowed.
8. Right to Know: The DSA will advise Contractors of hazardous chemicals/materials, if any, that may be encountered in the normal course of their Work at the Facility. During initial job meetings, the DSA or designee will review hazardous chemicals/materials that the Contractor may use to ensure that the products are properly accounted for and secured when not in use.

O. Ladders:

1. All ladders must be removed by the Contractor from secure areas on a daily basis.
2. Ladders must be secured by chain and locked to a stationary object when not in use or in a secure area.
3. A ladder inventory, by size, shall be maintained by the Contractor's representative in charge of the Work areas.
4. A copy of the inventory shall be sent to the DSS and the Facility's Tool Control Supervisor.

P. Scaffolding:

1. All scaffolding must be secured by chain and locked to a stationary object when not in use or in a secure area.
2. Smaller scaffolding rigs (i.e., Bakers-style scaffolding) must be removed from secure areas on a daily basis.
3. A scaffolding inventory, by component, shall be maintained by the Contractor's representative in charge of the Work areas.
4. A copy of the scaffolding inventory shall be sent to the DSS and Facility's Tool Control Supervisor.

Q. Materials and Equipment:

1. Storage of building materials and equipment on Facility premises will be permitted in areas designated by the Facility Superintendent or designee.
2. The Facility will not receive, unload, or store any items or materials, tools, or equipment for the Contractor's workers.
3. Shipments of materials and supplies for the Project may not be delivered to the Facility for receipt by Facility personnel, with the exception of security equipment (i.e. keys and locks), which must be shipped directly to the Facility arsenal.
4. All materials and equipment used on the project must be delivered by the Contractor into the Facility through the designated gate and the Contractor must exit the Facility through the same gate.
5. Use of institutional equipment or incarcerated individuals labor is not permitted.
6. The Work area must be cleaned daily of debris and materials that would jeopardize the safety and security of the Facility, as determined by the Facility Superintendent or designee.
7. Work actions by the Contractor that would constitute a breach of the Facility's security, as determined by the Facility Superintendent or designee, must be addressed to the satisfaction of the DSS prior to the end of the workday.

R. Contractors and Related Employees

1. The Office of General Services (OGS) Director's Representative will act as a liaison between the Facility and the Contractor.
2. The hiring of help, and meetings regarding the hires, are to take place outside the institutional ground at the choice of the interested parties.
3. Each of the Contractor's workers will be issued a copy of Form No. 4071A "Guidelines for Construction Projects." These guidelines and this directive must be explained to each contract worker for the contracting company by a DOCCS employee. All contractors will acknowledge receipt of this directive and the information in Form No. 4071A by signature on page 6 of the form.
4. Job stewards are to discuss labor relations outside the Facility, away from the premises. Representatives of labor organizations will not be permitted in the construction area unless accompanied by a foreman for the Contractor or OGS with approval of the Superintendent or designee.
5. Any person visiting the construction site other than an authorized Contractor or employee must be approved prior to their arrival by the Superintendent or designee. Construction overtime will not be permitted without the prior consent of OGS in consultation with the Facility Superintendent, the DSS, or designee, allowing for sufficient time for DOCCS to provide proper security coverage.
6. Gifts or gratuities to New York State employees are prohibited.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 015633

SECTION 030130 - MAINTENANCE OF CAST-IN-PLACE CONCRETE

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. Removal of deteriorated concrete and subsequent replacement and patching.

1.3 REFERENCES

- A. International Concrete Repair Institute (ICRI) – 1000 Westgate Dr #252, St. Paul, MN 55114; (651) 366-6095; www.irci.org.
 - 1. Guideline No. 310.1R-2008 – Guideline for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion.

1.4 SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, chemical composition, physical properties, test data, and mixing, preparation, and application instructions.
- E. Product Test Reports: For each cementitious patching mortar, for tests performed by manufacturer and witnessed by a qualified testing agency.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Each packaged patching-mortar manufacturer shall employ Company Service Advisors who are available for consultation and Project-site inspection and on-site assistance.
- B. Concrete-Maintenance Specialist Qualifications: Engage an experienced concrete-maintenance firm that employs installers and supervisors who are trained and approved by manufacturer to apply packaged patching-mortar to perform work of this Section. Firm shall have completed work similar in material, design, and extent to that indicated for this Project with a record of successful in-service performance. Experience in only installing or patching new concrete is insufficient experience for concrete-maintenance work.
 - 1. Field Supervision: Concrete-maintenance specialist firm shall maintain experienced full-time supervisors on Project site during times that concrete-maintenance work is in progress.
- C. Unless noted otherwise, conform to the requirements of the International Concrete Repair Institute, Guideline No. 310.1R-2008 – Guideline for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturer's written instructions for minimum and maximum temperature requirements and other conditions for storage.
- B. Store cementitious materials off the ground, under cover, and in a dry location.
- C. Store aggregates covered and in a dry location; maintain grading and other required characteristics and prevent contamination.

1.7 FIELD CONDITIONS

- A. Cold-Weather Requirements for Cementitious Materials: Do not apply unless concrete-surface and air temperatures are above 40 deg F and will remain so for at least 48 hours after completion of Work.
- B. Cold-Weather Requirements for Cementitious Materials: Comply with the following procedures:
 - 1. When air temperature is below 40 deg F, heat patching-material ingredients and existing concrete to produce temperatures between 40 and 90 deg F.
 - 2. When mean daily air temperature is between 25 and 40 deg F, cover completed Work with weather-resistant insulating blankets for 48 hours after repair or provide enclosure and heat to maintain temperatures above 32 deg F within the enclosure for 48 hours after repair.
 - 3. When mean daily air temperature is below 25 deg F, provide enclosure and heat to maintain temperatures above 32 deg F within the enclosure for 48 hours after repair.
- C. Hot-Weather Requirements for Cementitious Materials: Protect repair work when temperature and humidity conditions produce excessive evaporation of water from patching materials. Provide

artificial shade and wind breaks, and use cooled materials as required. Do not apply to substrates with temperatures of 90 deg F and above.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: For repair products, obtain each color, grade, finish, type, and variety of product from single source and from single manufacturer with resources to provide products of consistent quality in appearance and physical properties.

2.2 BONDING AGENTS

- A. Mortar Scrub Coat: Mix consisting of 1 part portland cement and 1 part fine aggregate complying with ASTM C144 except 100 percent passing a No. 16 sieve.

2.3 PATCHING MORTAR

- A. Patching Mortar Requirements:
 - 1. Only use patching mortars that are recommended by manufacturer for each applicable horizontal, vertical, or overhead use orientation.
 - 2. Color and Aggregate Texture: Provide patching mortar and aggregates of colors and sizes necessary to produce patching mortar that matches existing, adjacent, exposed concrete. Blend several aggregates if necessary to achieve suitable matches.
 - 3. Coarse Aggregate for Patching Mortar: ASTM C33, washed aggregate, Size No. 8, Class 5S. Add to patching-mortar mix only as permitted by patching-mortar manufacturer.
- B. Polymer-Modified, Cementitious Patching Mortar : Packaged, dry mix for repair of concrete and that contains a non-redispersible latex additive as either a dry powder or a separate liquid that is added during mixing.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. ARDEX Americas.
 - b. Dayton Superior.
 - c. Euclid Chemical Company (The); an RPM company.
 - d. Sika Corporation.
 - e. Simpson Strong-Tie Co., Inc.
 - f. Approved equivalent.

2.4 MISCELLANEOUS MATERIALS

- A. Portland Cement: ASTM C150, Type I, II, or III unless otherwise indicated.

- B. Water: Potable.

2.5 MIXES

- A. General: Mix products, in clean containers, according to manufacturer's written instructions.
 - 1. Do not add water, thinners, or additives unless recommended by manufacturer.
 - 2. When practical, use manufacturer's premeasured packages to ensure that materials are mixed in proper proportions. When premeasured packages are not used, measure ingredients using graduated measuring containers; do not estimate quantities or use shovel or trowel as unit of measure.
 - 3. Do not mix more materials than can be used within time limits recommended by manufacturer. Discard materials that have begun to set.
- B. Mortar Scrub Coat: Mix dry ingredients with enough water to provide consistency of thick cream.

PART 3 - EXECUTION

3.1 CONCRETE MAINTENANCE

- A. Have concrete-maintenance work performed only by qualified concrete-maintenance specialist.
- B. Comply with manufacturers' written instructions for surface preparation and product application.

3.2 EXAMINATION

- A. Notify Director's Representative seven days in advance of dates when areas of deteriorated or delaminated concrete and deteriorated reinforcing bars will be located.
- B. Locate areas of deteriorated or delaminated concrete using hammer or chain-drag sounding and mark boundaries. Mark areas for removal by simplifying and squaring off boundaries. At columns and walls make boundaries level and plumb unless otherwise indicated.
- C. Perform surveys as the Work progresses to detect hazards resulting from concrete-maintenance work.

3.3 PREPARATION

- A. Ensure that supervisory personnel are on-site and on duty when concrete maintenance work begins and during its progress.
- B. Protect persons, motor vehicles, surrounding surfaces of building being repaired, building site, plants, and surrounding buildings from harm resulting from concrete maintenance work.

1. Comply with each product manufacturer's written instructions for protections and precautions. Protect against adverse effects of products and procedures on people and adjacent materials, components, and vegetation.
 2. Provide temporary barricades, barriers, and directional signage to exclude public from areas where concrete maintenance work is being performed.
 3. Contain dust and debris generated by concrete maintenance work and prevent it from reaching the public or adjacent surfaces.
 4. Use water-mist sprinkling and other wet methods to control dust only with adequate, approved procedures and equipment that ensure that such water will not create a hazard or adversely affect other building areas or materials.
 5. Protect adjacent surfaces and equipment by covering them with heavy polyethylene film and waterproof masking tape or a liquid strippable masking agent. If practical, remove items, store, and reinstall after potentially damaging operations are complete.
 6. Dispose of debris and runoff from operations by legal means and in a manner that prevents soil erosion, undermining of paving and foundations, damage to landscaping, and water penetration into building interiors.
- C. Preparation for Concrete Removal: Examine construction to be repaired to determine best methods to safely and effectively perform concrete maintenance work. Examine adjacent work to determine what protective measures will be necessary. Make explorations, probes, and inquiries as necessary to determine condition of construction to be removed in the course of repair.
1. Verify that affected utilities have been disconnected and capped.

3.4 REMOVAL OF CONCRETE

- A. Do not overload structural elements with debris.
- B. Remove deteriorated and delaminated concrete by breaking up and dislodging from reinforcement.
- C. Test areas where concrete has been removed by tapping with hammer, and remove additional concrete until unsound and disbonded concrete is completely removed.
- D. Thoroughly clean removal areas of loose concrete, dust, and debris.

3.5 INSTALLATION OF PATCHING MORTAR

- A. Place patching mortar as specified in this article unless otherwise recommended in writing by manufacturer.
 1. Provide forms where necessary to confine patch to required shape.
 2. Wet substrate and forms thoroughly and then remove standing water.
- B. Pretreatment: Apply specified mortar scrub coat and slurry coat.
- C. General Placement: Place patching mortar by troweling toward edges of patch to force intimate contact with edge surfaces. For large patches, fill edges first and then work toward center, always

troweling toward edges of patch. At fully exposed reinforcing bars, force patching mortar to fill space behind bars by compacting with trowel from sides of bars.

- D. Finishing: Allow surfaces of lifts that are to remain exposed to become firm and then finish to a surface matching adjacent concrete.
- E. Curing: Wet-cure cementitious patching materials, including polymer-modified cementitious patching materials, for not less than seven days by water-fog spray or water-saturated absorptive cover.

END OF SECTION 030130

SECTION 085113 - ALUMINUM WINDOWS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes aluminum windows for exterior locations.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 2. Review and discuss the finishing of aluminum windows that is required to be coordinated with the finishing of other aluminum work for color and finish matching.
 - 3. Review, discuss, and coordinate the interrelationship of aluminum windows with other exterior wall components. Include provisions for anchoring, flashing, weeping, sealing perimeters, and protecting finishes.
 - 4. Review and discuss the sequence of work required to construct a watertight and weathertight exterior building envelope.
 - 5. Inspect and discuss the condition of substrate and other preparatory work performed by other trades.

1.3 SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, glazing and fabrication methods, dimensions of individual components and profiles, hardware, and finishes for aluminum windows.
 - 2. Include manufacturer's installation instructions.
- E. Shop Drawings: For aluminum windows.
 - 1. Include plans, elevations, sections, hardware, accessories, insect screens, operational clearances, and details of installation, including anchor, flashing, and sealant installation.

- F. Samples: Corner section for each type of window unit and for each color specified, 8 by 8 inches in size.
 - 1. Include as part of corner section: frame, sash, and insect screen.
 - 2. Provide manufacturer's standard color finishes for selection.
- G. Product Schedule: For aluminum windows. Use same designations indicated on Drawings.
- H. Quality Control Submittals:
 - 1. Qualification Data: For manufacturer and Installer.
 - a. Names and address of 3 similar projects that Installer has worked on during the past 5 years.
 - 2. Product Test Reports: For each type of aluminum window, for tests performed by a qualified testing agency.
 - 3. Field quality-control reports.
 - 4. Sample Warranties: For manufacturer's warranties.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A manufacturer capable of fabricating aluminum windows that meet or exceed performance requirements indicated and of documenting this performance by test reports and calculations.
- B. Installer Qualifications: An installer acceptable to aluminum window manufacturer for installation of units required for this Project and have a minimum three years' experience.
- C. Label: each window unit shall have a AAMA or WDMA Certification label affixed to it.

1.5 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace aluminum windows that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Failure to meet performance requirements.
 - b. Structural failures including excessive deflection, water leakage, condensation, and air infiltration.
 - c. Faulty operation of movable sash and hardware.
 - d. Deterioration of materials and finishes beyond normal weathering.
 - e. Failure of insulating glass.
 - 2. Warranty Period:
 - a. Window: 10 years from date of Substantial Completion.
 - b. Glazing Units: 10 years from date of Substantial Completion.

- c. Aluminum Finish: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain aluminum windows from single source from single manufacturer.

2.2 WINDOW PERFORMANCE REQUIREMENTS

- A. Product Standard: Comply with AAMA/WDMA/CSA 101/I.S.2/A440 for definitions and minimum standards of performance, materials, components, accessories, and fabrication unless more stringent requirements are indicated.

- 1. Window Certification: AAMA certified with label attached to each window.

- B. Performance Class and Grade: AAMA/WDMA/CSA 101/I.S.2/A440 as follows:

- 1. Minimum Performance Class: AW.
 - 2. Minimum Performance Grade: 30.

- C. Thermal Transmittance: NFRC 100 maximum whole-window U-factor of 0.38 Btu/sq. ft. x h x deg F .

- D. Solar Heat-Gain Coefficient (SHGC): NFRC 200 maximum whole-window SHGC of 0.36.

- E. Condensation-Resistance Factor (CRF): Provide aluminum windows tested for thermal performance according to AAMA 1503, showing a CRF of 52.

- F. Thermal Movements: Provide aluminum windows, including anchorage, that allow for thermal movements resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

- 1. Temperature Change: 120 deg F ambient; 180 deg F material surfaces.

- G. Sound Transmission Class (STC): Rated for not less than 30 STC when tested for laboratory sound transmission loss according to ASTM E90 and determined by ASTM E413.

- H. Outside-Inside Transmission Class (OITC): Rated for not less than 26 OITC when tested for laboratory sound transmission loss according to ASTM E90 and determined by ASTM E1332.

2.3 ALUMINUM WINDOWS

- A. Types: Provide the following types in locations indicated on Drawings:
 - 1. Double hung.

2. Fixed.

B. Frames and Sashes: Aluminum extrusions complying with AAMA/WDMA/CSA 101/I.S.2/A440.

1. Thermally Improved Construction: Fabricate frames, sashes, and muntins with an integral, concealed, low-conductance thermal barrier located between exterior materials and window members exposed on interior side in a manner that eliminates direct metal-to-metal contact. Retain "Glass," "Windborne-Debris-Impact-Resistant Laminated Glass," "Insulating-Glass Units," or "Windborne-Debris-Impact-Resistant Insulating-Glass Units" paragraph below to suit Project, or revise if other type of glazing unit is necessary.

C. Hardware, General: Provide manufacturer's standard hardware fabricated from aluminum, stainless steel, carbon steel complying with AAMA 907, or other corrosion-resistant material compatible with adjacent materials; designed to smoothly operate, tightly close, and securely lock windows, and sized to accommodate sash weight and dimensions.

1. Exposed Hardware Color and Finish: As selected by Director's Representative from manufacturer's full range.

D. Hung Window Hardware:

1. Counterbalancing Mechanism: Complying with AAMA 902, concealed, of size and capacity to hold sash stationary at any open position.
2. Locks and Latches: Allow unobstructed movement of the sash across adjacent sash in direction indicated and operated from the inside only. Provide key-operated custodial locks.
3. Tilt Latch: Releasing latch allows sash to pivot about horizontal axis to facilitate cleaning exterior surfaces from the interior.

E. Weather Stripping: Provide full-perimeter weather stripping for each operable sash unless otherwise indicated.

F. Fasteners: Noncorrosive and compatible with window members, trim, hardware, anchors, and other components.

1. Exposed Fasteners: Do not use exposed fasteners to greatest extent possible. For application of hardware, use fasteners that match finish hardware being fastened.

2.4 ACCESSORIES

A. Dividers (False Muntins): Provide extruded-aluminum divider grilles in designs indicated for each sash lite.

1. Type: Permanently located between insulating-glass lites.
2. Pattern: As indicated on Drawings.
3. Profile: As selected by Director's Representative from manufacturer's full range.

B. Subsills: Thermally broken, extruded-aluminum subsills in configurations indicated on Drawings.

- C. Receptor System: Two-piece, snap-together, thermally broken, extruded-aluminum receptor system that anchors windows in place.

2.5 INSECT SCREENS

- A. General: Fabricate insect screens to integrate with window frame. Provide screen for each operable exterior sash. Screen wickets are not permitted.
 - 1. Type and Location: Full, outside for double-hung sashes.
- B. Aluminum Frames: Manufacturer's standard aluminum alloy complying with SMA 1004 or SMA 1201. Fabricate frames with mitered or coped joints or corner extrusions, concealed fasteners, and removable PVC spline/anchor concealing edge of frame.
 - 1. Tubular Framing Sections and Cross Braces: Roll formed from aluminum sheet.
- C. Aluminum Wire Fabric: 18-by-16 mesh of 0.011-inch-diameter, coated aluminum wire.
 - 1. Wire-Fabric Finish: Natural bright.

2.6 FABRICATION

- A. Fabricate aluminum windows in sizes indicated. Include a complete system for assembling components and anchoring windows.
- B. Glaze aluminum windows in the factory.
- C. Weather strip each operable sash to provide weathertight installation.
- D. Weep Holes: Provide weep holes and internal passages to conduct infiltrating water to exterior.
- E. Provide water-shed members above side-hinged sashes and similar lines of natural water penetration.

2.7 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.8 ALUMINUM FINISHES

- A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- B. High-Performance Organic Finish (Three-Coat Fluoropolymer): AA-C12C40R1x (Chemical Finish: cleaned with inhibited chemicals; Chemical Finish: conversion coatings; Organic Coating: manufacturer's standard three-coat, thermocured system consisting of specially formulated inhibitive primer, fluoropolymer color coat, and clear fluoropolymer topcoat, with both color coat and clear topcoat containing not less than 70 percent polyvinylidene fluoride resin by weight). Prepare, pretreat, and apply coating to exposed metal surfaces to comply with AAMA 2605 and with coating and resin manufacturers' written instructions.
 - 1. Color and Gloss: Match existing windows.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Verify rough opening dimensions, levelness of sill plate, and operational clearances.
- C. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure weathertight window installation.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with manufacturer's written instructions for installing windows, hardware, accessories, and other components. For installation procedures and requirements not addressed in manufacturer's written instructions, comply with installation requirements in ASTM E2112.
- B. Install windows level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction to produce weathertight construction.
- C. Install windows and components to drain condensation, water penetrating joints, and moisture migrating within windows to the exterior.
- D. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

3.3 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
 - 1. Testing and inspecting agency will interpret tests and state in each report whether tested work complies with or deviates from requirements.
- B. Testing Services: Testing and inspecting of installed windows shall take place as follows:
 - 1. Testing Methodology: Testing of windows for air infiltration and water resistance shall be performed according to AAMA 502.
 - 2. Air-Infiltration Testing:
 - a. Test Pressure: That required to determine compliance with AAMA/WDMA/CSA 101/I.S.2/A440 performance class indicated.
 - b. Allowable Air-Leakage Rate: 1.5 times the applicable AAMA/WDMA/CSA 101/I.S.2/A440 rate for product type and performance class rounded down to one decimal place.
 - 3. Water-Resistance Testing:
 - a. Test Pressure: Two-thirds times test pressure required to determine compliance with AAMA/WDMA/CSA 101/I.S.2/A440 performance grade indicated.
 - b. Allowable Water Infiltration: No water penetration.
 - 4. Testing Extent: Three windows of each type, consisting of three fixed and three double hung windows, as selected by Director's Representative and a qualified independent testing and inspecting agency. Windows shall be tested after perimeter sealants have cured.
 - 5. Test Reports: Prepared according to AAMA 502.
- C. Windows will be considered defective if they do not pass tests and inspections.
- D. Prepare test and inspection reports.

3.4 ADJUSTING, CLEANING, AND PROTECTION

- A. Adjust operating sashes and hardware for a tight fit at contact points and weather stripping for smooth operation and weathertight closure.
- B. Clean exposed surfaces immediately after installing windows. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
 - 1. Keep protective films and coverings in place until final cleaning.
- C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.
- D. Protect window surfaces from contact with contaminating substances resulting from construction operations. If contaminating substances do contact window surfaces, remove contaminants immediately according to manufacturer's written instructions.

END OF SECTION 085113

SECTION 085663 STEEL DETENTION WINDOW

PART 1 - GENERAL

1.1 RELATED WORK SPECIFIED ELSEWHERE

- A. Joint Sealants: Section 079200.
- B. Glass and Glazing: Section 088100.
- C. General Conditions: Section 007213.

1.2 MANUFACTURERS

- A. Manufacturers:
 - 1. Basis of Design: Hope's Windows, Inc., 84 Hopkins Avenue, P.O. Box 580, Jamestown, New York 14702. Phone (716) 665-5124; www.hopeswindows.com.

1.3 REFERENCES

- A. Except as shown or specified otherwise, the Work of this Section shall meet the requirements of the following:
 - 1. Steel Window Specifications by the Steel Window Institute (SWI).
 - 2. Structural Welding Code - Steel, AWS D1.1 and Structural Welding Code - Sheet Steel, AWS D1.3, as applicable, by the American Welding Society (AWS Codes).

1.4 WINDOW TYPES AND DESCRIPTIONS

- A. Type 1 Detention Windows: Steel maximum security detention windows with fully welded frames, horizontal and vertical grid steel tee muntins, tool resisting steel detention bars, and top hinged in-swing ventilators, and a fixed angular safety screen is located to the exterior covering the ventilated area.
 - 1. Shown as Type A, B, C, D, E, G, H, I, K, L and M on Drawings.
- B. Type 4 Detention Windows: Fixed steel maximum security detention windows with fully welded frames, horizontal and vertical grid steel tee muntins without detention screens.
 - 1. Shown as N and O Type on Drawings.

1.5 PERFORMANCE REQUIREMENTS

- A. Air Leakage: Meet or exceed ASTM E 283, Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors. Maximum allowable air infiltration and exfiltration 1/2 cfm/lin ft of crack perimeter when subjected to an exterior to interior static test pressure difference of 1.57 psf across window unit.
- B. Water Penetration: Meet or exceed ASTM E 331, Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference. No water leakage for 15 minutes when window is subjected to a rate of flow of 5 gal/sq ft/hr with test pressure difference across window unit of 2.86 psf.
- C. Winter Nighttime NFRC U-value: $\leq 0.38 \text{ Btu}/(\text{h}\cdot\text{ft}^2\cdot^\circ\text{F})$ for fixed fenestration; $\leq 0.45 \text{ Btu}/(\text{h}\cdot\text{ft}^2\cdot^\circ\text{F})$ for operable fenestration.
- D. Solar Heat-Gain Coefficient (SHGC): NFRC 200 maximum whole-window SHGC of 0.36.

1.6 SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Submittals related to this specification section shall be forwarded from the Contractor and/or his agent(s) as complete submittal packages. All information required from this section, including Installer's Qualifications, Shop Drawings, Rough Opening Dimensions, Product Data, Samples, and Quality Control submittals shall be submitted as one complete package. Partial or incomplete submittal packages will be rejected.
- E. Shop Drawings: Show window types, quantities, fabrication details, and connections to adjacent construction, including existing jamb, head, and sill conditions, and all associated dimensions. Include documentation of rough in field dimensions obtained for each window location. Include details of screens, hardware, insulation, and glazing details.
- F. Rough Opening Dimensions: Provide a completed 'Rough Opening Dimensioning Verification Chart' documenting all windows (chart attached at the end of this specification). This informational submittal will be reviewed and returned as 'Acknowledged' only as the Contractor is solely responsible for fully verifying and coordinating this data.
- G. Product Data: Catalog sheets, specifications, and installation instructions.
- H. Samples:
 - 1. Sample of screen: 6" x 6" size
 - 2. Hardware: Each item required.
 - a. Spring catch (By Jamestown Bronze or Equal). Brass, fully machined.

- b. Lever Handle (Hopes '60-2' fastener' type, antique bronze, satin white, bronze).
 - c. Removable springs, removable parts or disassembly without the use of tools is unacceptable.
3. Color Samples for Factory Prefinished Windows: Manufacturer's color for the specified finish listed in Section 2.01, H. of this specification.

I. Quality Control Submittals:

- 1. Manufacturer's Qualifications Data:
 - a. Names and addresses of 5 similar projects that have been in operation for not less than 3 years producing custom steel windows.
 - b. Manufacturer's listed in Section 1.02 are exempt from this submittal requirement.
- 2. Installers Qualifications Data:
 - a. Name of each person who will be performing the Work and their employer's name, business address and telephone number.
 - b. Names and addresses of 3 similar projects that each person has worked on during the past 3 years.
 - c. Window manufacturer's installer certification.
- 3. Test Reports:
 - a. Certified air leakage and water penetration test reports for each type of window unit required. Testing shall have been completed on window system being submitted.

J. Contract Closeout Submittals:

- 1. Operation and Maintenance Data: Two copies of owner's manual, including instructions for cleaning windows and touching-up finish.

K. Re-Evaluation Fee: In accordance with the General Conditions 07213 Article 4.7. In accordance with Article 4.7 of the General Conditions, a re-evaluation processing fee of \$250 will be levied against the Contractor for each re-evaluation of a Submittal or Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content, or format.

1.7 QUALITY ASSURANCE

- A. Detention Windows Manufacturer's Qualifications: The manufacturer shall be regularly engaged in the production of custom steel windows, shall have furnished steel windows for 5 projects of similar scale to that of this project, and that have been in operation for not less than 3 years. Window manufacturer shall be subject to the approval of the Director.
- B. Installers Qualifications: The persons installing the windows and their Supervisor shall be personally experienced in steel window work and shall have been regularly employed by a company that installs steel detention windows as a primary source of work for a minimum of 3 years.

C. Testing Agency:

1. Air infiltration and water penetration tests shall be performed by a qualified independent testing laboratory.

D. Field Dimensioning and Existing Conditions Verification:

1. Field verify all existing window opening conditions, including all rough opening dimensions. Document dimensions and confirm how variations in rough opening dimensions will be incorporated into selection of final window sizes.
2. Submit summary of findings, including any conditions which deviate with Contract Drawings.

E. Project Benchmark Installation:

1. Prior to installation of windows, fully remove one existing window unit at each location where a new window type is scheduled to be provided. This shall include removal of the existing window unit(s), including removals of any hazardous materials, structural items, or other associated components required in conjunction with the Work. The existing window selected for removal must not create a security breach and the locations selected shall be approved by the Director's Representative prior to removal of any window or associated component.
2. Weather tightness, energy efficiency, and security shall be maintained for the existing window opening at designated benchmark installation locations.
3. After approval by the Director's Representative, install a single window unit of each window type scheduled for the project, in its/their final location(s) where existing window investigation pull occurred. Install window(s) with all materials, fasteners, welds, joints, interior and exterior sealants, hardware, and all other accessories required for a complete window system installation.
4. Do not start the remainder of the window installation until the Director's Representative has approved each benchmark window installation.
5. Approved windows will be the standard of workmanship required for all windows installed in like conditions. Failure to maintain this standard will be cause for rejection of the Work.
6. Maintain approved windows until all Work has been installed and approved.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Deliver windows in sturdy, protective crates, or containers.
- B. Store and handle windows in a manner that will not cause damage to the finish.

1.9 MAINTENANCE MATERIALS

- A. Touch-up Kit: For every 20 windows installed (and fraction thereof), furnish detention window manufacturer's factory finish touch-up kit for the factory finish on windows. Store touch-up kits at the site where directed.
 1. Label kits to identify locations used.

- B. Security Fastener Tools: Furnish two (2) sets of tools for installing, adjusting, and/or removing security fasteners.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Guard Frames, Muntins, Ventilator Frames, Ventilator Jambs, and Sill Rails composed of hot dipped galvanized hot rolled steel sections. Operable vent portion of frames shall be electro-galvanized per ASTM B633-11.
- B. Perimeter head, jamb, sills and muntins shall be hot-rolled steel sections, with hot dipped galvanized zinc coating in accordance with ASTM A123. Perimeter head, jamb, and sill shall weigh not less than 2 pounds per lineal foot and muntins shall weigh not less than 1.85 pounds per lineal foot. Frame members shall have profiles and dimensions as indicated on drawings.
- C. Glazing Beads: Formed steel glazing beads, screw-on type.
 - 1. Drill holes for screws before finishing. Space holes one inch from ends and 6 inches on center.
 - 2. Finish: Match window frame color specified below.
- D. Weatherstripping:
 - 1. Q-Lon Weatherseal (TM)
 - 2. Q-LON® Foam Seals, QFS 375 by Schlegel.
 - 3. 0.375" Silicone Teardrop Self-Adhesive Weatherstrip - Z488 BY Trademark Hardware.
 - 4. 0.5" Silicone Teardrop Self-Adhesive Weatherstrip - Z188 BY Trademark Hardware.
 - 5. Or equal.
- E. Hardware:
 - 1. Operating Arms: Solid bronze, OR steel.
 - 2. Pivots: Steel pivot leafs with brass pins.
 - 3. Friction and Limit Devices: Steel pivot or butt type hinges for interior bottom pivoted and exterior top hinged ventilators, with steel pivot side arms with bronze friction shoes to limit ventilator opening to 45 degrees.
 - 4. Exposed Hardware: Solid Brass or Bronze, tumbled and oxidized to match US20 finish, and lacquered.
- F. Anchors: Perimeter anchors shall be 1-1/4 inch x 1-1/4 inch hot-rolled steel angles or formed plate, both 3/16 inch thick.
- G. Angular Safety Screen:
 - 1. Screen frame: Angle shape formed of A60 hot-dip process zinc coating sheet steel not less than #12 gauge.
 - 2. Screen Cloth Clamping Plate: Formed of sheet steel not less than #12 gauge.
 - 3. Screen Cloth:

- a. Unless Otherwise Indicated: 0.028 inch diameter #304 stainless steel wire 12 x 12 double fold and hem the mesh at frame engagement.
- 4. Wickets: Horizontal sliding unit made from screen cloth and perimeter frame matching requirements specified above.
- H. Paint Finish:
 - 1. Pretreatment - Zinc phosphate (bonderized) treated in a multi-stage process or equal.
 - 2. – E-COAT, PPG powercron 8000 or equal
 - 3. Finish Coat - PPG Polyurethane or equal.
 - a. Custom Color: Match color of existing windows.
- I. Fasteners: Stainless steel, unless otherwise specified.
 - 1. Exposed Fasteners: Stainless steel Torx vandal resistant truss head for exposed screws and bolts, finish and color to match windows. Installed fasteners through painted frames shall match color and finish of exposed side of material being fastened.
- J. Sealing Mastic: Non-staining sealant material recommended by window manufacturer.
- K. Rigid Insulation: Rigid cellular polyurethane or polyisocyanurate thermal insulation boards surfaced with aluminum foil on both sides; minimum aged R value of 3.6 @ 75 degrees F per 1/2 inch thickness meeting the requirements of ASTM C591-11.
- L. Rigid Insulation Adhesive: Type recommended by the rigid insulation manufacturer.
- M. Open-Cell Polyurethane Foam Insulation: At head and jamb only, ASTM C 1029, Type II, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E 84, compatible with adjacent rigid insulation.
- N. Cold Galvanizing Compound: Single component compound giving 93 percent pure zinc in the dried film and meeting the requirements of SSPC-Paint 20 (rev. 2002).

2.2 FABRICATION

- A. Fabricate windows in accordance with approved shop drawings.
- B. All formed frame members and muntins shall have detailed profile shapes and dimensions as indicated on drawings.
- C. Ventilator Sections: Hot rolled steel with integral flanges providing parallel double contact surfaces around perimeter of each ventilator.
 - 1. Fabricate ventilator sections with a continuous integral dovetail groove located on the interior contact surface for the reception of weatherstripping.
 - 2. Aluminum bedding channels at ventilators are not acceptable.

- D. Corners of frames, ventilators, and angular safety screens shall be mitered or coped. Exposed and contact surfaces shall be finished smooth and flush with adjacent surfaces.
1. Corner joints of frames and ventilators exposed to the weather shall be continuously welded and ground smooth on the exposed surface and spot welded on the concealed surface.
 2. Corner joints of angular safety screens shall be continuously welded on the concealed surface.
- E. Glazing: Windows shall be factory glazed by window manufacturer. Fabricate windows for outside glazing with glazing beads ON THE INTERIOR. Size glazing beads to match glazing rebates specified and to suit glass types specified.
- F. Weatherstripping: Continuous weatherstripping inserted in an integral dovetail groove located in the same plane in the interior contact surface of ventilator sections around the entire perimeter of ventilator. Weatherstripping that relies on screw applied weatherstripping will not be acceptable.
- G. Tolerance for Window Size (height and width) Dimensions: + 1/16 inch.
- H. Mullions: Fabricate to the design and profile shown on the Drawings. Finish mullions and covers to match windows.
- I. Muntin to muntin intersections shall be mechanically interlocked to obtain maximum strength without bending or distorting the sections. Guard frame and muntin intersections shall have 1/16 inch joints provided across inside and outside faces, which after assembly shall be deep welded solid. Welds may project not more than 1/16 inch, except where ventilators and screens are attached. Space vertical muntins not more than 6-3/8 inches on center and horizontal muntins not more than 9-3/8 inches on center.
- J. Anchor Accessories: Fabricate to shape and size, and furnish in quantity, as required to securely install and connect the Work of this Section to the construction shown.
- K. Hardware: Unless otherwise shown or specified, window manufacturer's standard hardware series produced for use with the particular type of window, location, and screen condition.
1. Spring Catch (By Jamestown Bronze, 174 Hopkins Ave, Jamestown NY, 14701 or Equal): Solid brass or bronze. fully machined.
 - a. Minimum 9/16" bolt diameter with minimum bolt length of 1-3/4" yielding no less than 3/8" engagement surface. Brass ring pull shall be fabricated no less than 7/32" thick. Clear ring opening shall be minimum 1 1/16" diameter.
 2. Lever Handle (Basis of Design, Hopes '60-2' fastener' type, antique bronze, satin white, bronze)
 3. Removable springs, removable parts or disassembly without the use of tools is unacceptable.

2.3 FINISHING

- A. Guard Frames, Muntins, Ventilator Frames, Ventilator Jambs, and Sill Rails composed of hot dipped galvanized hot rolled steel sections. Operable vent portion of frames shall be electro-galvanized per ASTM B633-11.
- B. Perimeter head, jamb, sills and muntins shall be hot-rolled steel sections, with hot dipped galvanized zinc coating in accordance with ASTM A123. Perimeter head, jamb, and sill shall weigh not less than 2 pounds per lineal foot and muntins shall weigh not less than 1.85 pounds per lineal foot. Frame members shall have profiles and dimensions as indicated on drawings.
- C. After all galvanizing is completed, chemically or mechanically clean all materials to remove mill scale, dirt, oil and other foreign matter. Provide one of the two approved shop finish systems listed below.
- D. Shop Finish System: E-COAT System.
 - 1. After fabrication; windows, covers, plates, screen frames and glazing beads shall be bonderized in a 13 stage E-COAT process, as a preparation for receiving paint.
 - 2. After pretreatment, a coat of PPG epoxy primer shall be electro-statically applied. (Type of primer depends on type of paint finish selected.)
 - 3. After prime coat, a top coat of PPG polyurethane shall be applied.
 - 4. All concealed steel members and perimeter anchors shall be protected by electro-galvanizing or zinc phosphate and prime painted.
- E. Shop Finish System: Bonderized and Polyester Powder Coat
 - 1. Bonderizing: After shot blasting; all materials to be bonderized or pretreated by a four stage process as a preparation for receiving paint, as follows.
 - a. High pressure wash with degreaser applied at minimum 150 degrees Fahrenheit.
 - b. Warm water rinse.
 - c. Zinc or Iron phosphate applied at minimum 130 degrees Fahrenheit.
 - d. Warm water rinse with a non-chrome post treatment solution.
 - 2. Prime Paint: After bonderizing, a coat of zinc rich thermosetting epoxy prime paint shall be applied and oven baked.
 - a. Bake at 325 degrees Fahrenheit.
 - b. Dry film thickness of primer to be a minimum of 1.5 mils.
 - 3. Finish Paint: After prime coat, a baked on polyester powder coat finish system shall be applied.
 - a. Bake at 410 degrees Fahrenheit.
 - b. Total dry film thickness to be a minimum of 3.0 mils.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Examine surfaces to receive detention windows for defects that will adversely affect the execution and quality of the Work. Do not proceed until unsatisfactory conditions are corrected.
 - 1. Check locations and conditions of required built-in anchors.

3.2 INSTALLATION

- A. Install the Work of this Section in accordance with the manufacturer's printed instructions, except as shown or specified otherwise.
 - 1. Install Angular Safety Screens at all ventilators unless specifically indicated otherwise.
- B. Anchor window units securely in place, plumb, level, aligned, without warp.
 - 1. Weld window weld plates to windows and built-in anchors with one inch long welds spaced 9 inches on center maximum.
 - 2. Weld channel surrounds to interior side of frames with one inch long welds spaced 9 inches on center maximum.
- C. Seal metal to metal joints, screw heads, and unneeded fastener holes with sealing mastic.
- D. Fill all voids around head, jambs, and sill with spray foam insulation or as indicated on drawings. Insulation shall not interfere with operable hardware or sill weeps.

3.3 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
 - 1. Testing and inspecting agency will interpret tests and state in each report whether tested work complies with or deviates from requirements.
- B. Testing Services: Testing and inspecting of installed windows shall take place as follows:
 - 1. Testing Methodology: Testing of windows for air infiltration and water resistance shall be performed according to AAMA 502.
 - 2. Air-Infiltration Testing:
 - a. Test Pressure: That required to determine compliance with AAMA/WDMA/CSA 101/I.S.2/A440 performance class indicated.
 - b. Allowable Air-Leakage Rate: 1.5 times the applicable AAMA/WDMA/CSA 101/I.S.2/A440 rate for product type and performance class rounded down to one decimal place.

3. Water-Resistance Testing:

- a. Test Pressure: Two-thirds times test pressure required to determine compliance with AAMA/WDMA/CSA 101/I.S.2/A440 performance grade indicated.
- b. Allowable Water Infiltration: No water penetration.

4. Testing Extent: Three windows of each type, consisting of three fixed and three awning windows, as selected by Director's Representative and a qualified independent testing and inspecting agency. Windows shall be tested after perimeter sealants have cured.

5. Test Reports: Prepared according to AAMA 502.

C. Windows will be considered defective if they do not pass tests and inspections.

D. Prepare test and inspection reports

3.4 ADJUSTING

- A. Touch-up welded and abraded surfaces with a coating of cold galvanizing compound and multiple finish coats to match color and sheen of exposed factory applied finish.
- B. Adjust ventilators and hardware for smooth operation and weathertight closure. Lubricate hardware and other moving parts.

3.5 CLEANING

- A. Clean window units promptly after completion of installation.

3.6 PROTECTION

- A. Protect installed windows and finish as necessary from adjacent work and cleaning operations.

END OF SECTION 085663

SECTION 088000 - GLAZING

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. Insulating glass.
 - 2. Glazing sealants.
 - 3. Glazing tapes.
 - 4. Miscellaneous glazing materials.
- B. Related Requirements:
 - 1. Section 085113 "Aluminum Windows"
 - 2. Section 085663 "Steel Detention Windows Hot Rolled Framing"

1.3 DEFINITIONS

- A. Glass Manufacturers: Firms that produce primary glass, fabricated glass, or both, as defined in referenced glazing publications.
- B. Glass Thicknesses: Indicated by thickness designations in millimeters in accordance with ASTM C1036.
- C. IBC: International Building Code the Uniform Code.
- A. Interspace: Space between lites of an insulating-glass unit.

1.4 COORDINATION

- A. Coordinate glazing channel dimensions to provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances.

1.5 ACTION SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.

- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.
 - 1. Include manufacturer'
- E. Submit an Environmental Product Declaration (EPD) from the manufacturer for glass within this specification section, if available. A statement of the contractor's good faith effort to obtain the EPD shall be provided if not available.
 - 1. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 *Environmental labels and declarations*, ISO 14044 *Environmental management – Life cycle assessment*, and ISO 21930 *Core rules for environmental product declarations of construction products and services*.
- F. Glass Samples: For each type of the following products; 12 inches (300 mm) square.
 - 1. Insulating glass.
- G. Quality Control Submittals:
 - 1. Product Certificates: For glass.
 - 2. Product Test Reports: For fabricated glass and glazing sealants, for tests performed by a qualified testing agency.
 - a. For glazing sealants, provide test reports based on testing current sealant formulations within previous 36-month period.
 - 3. Preconstruction adhesion and compatibility test report.
 - 4. Sample Warranties: For special warranties.

1.6 QUALITY ASSURANCE

- A. Fabricated-Glass Manufacturer Qualifications: A qualified manufacturer of fabricated glass units who is approved and certified by primary glass manufacturer.
- B. Installer Qualifications: A qualified glazing contractor for this Project who is certified under the North American Contractor Certification Program (NACC) for Architectural Glass & Metal (AG&M) contractors.
- C. Glass Testing Agency Qualifications: A qualified independent testing agency accredited according to the NFRC CAP 1 Certification Agency Program.
- D. Sealant Testing Agency Qualifications: An independent testing agency qualified according to ASTM C1021 to conduct the testing indicated.

1.7 PRECONSTRUCTION TESTING

- A. Preconstruction Adhesion and Compatibility Testing: Test each glass product, tape sealant, gasket, glazing accessory, and glass-framing member for adhesion to and compatibility with elastomeric glazing sealants.
 - 1. Testing is not required if data are submitted based on previous testing of current sealant products and glazing materials matching those submitted.
 - 2. Use ASTM C1087 to determine whether priming and other specific joint-preparation techniques are required to obtain rapid, optimum adhesion of glazing sealants to glass, tape sealants, gaskets, and glazing channel substrates.
 - 3. Test no fewer than eight Samples of each type of material, including joint substrates, shims, sealant backings, secondary seals, and miscellaneous materials.
 - 4. Schedule enough time for testing and analyzing results to prevent delaying the Work.
 - 5. For materials failing tests, submit sealant manufacturer's written instructions for corrective measures including use of specially formulated primers.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials in accordance with manufacturer's written instructions. Prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

1.9 FIELD CONDITIONS

- A. Environmental Limitations: Do not proceed with glazing when ambient and substrate temperature conditions are outside limits permitted by glazing material manufacturers and when glazing channel substrates are wet from rain, frost, condensation, or other causes.
 - 1. Do not install glazing sealants when ambient and substrate temperature conditions are outside limits permitted by sealant manufacturer or are below 40 deg F (4.4 deg C).

1.10 WARRANTY

- A. Manufacturer's Special Warranty for Insulating Glass: Manufacturer agrees to replace insulating-glass units that deteriorate within specified warranty period. Deterioration of insulating glass is defined as failure of hermetic seal under normal use that is not attributed to glass breakage or to maintaining and cleaning insulating glass contrary to manufacturer's written instructions. Evidence of failure is obstruction of vision by dust, moisture, or film on interior surfaces of glass.
 - 1. Warranty Period: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations for Glass: Obtain glass from single source from single manufacturer.
- B. Source Limitations for Glazing Accessories: For each product and installation method, obtain from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. General: Installed glazing systems shall withstand normal thermal movement and wind and impact loads (where applicable) without failure, including loss or glass breakage attributable to defective manufacture, fabrication, or installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; or other defects in construction.
- B. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design glazing.
- C. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated determined in accordance with the IBC and ASTM E1300:
 - 1. Design Wind Pressures: Determine design wind pressures applicable to Project in accordance with ASCE/SEI 7, based on heights above grade indicated on Drawings.
 - a. Basic Wind Speed: 90 mph (40 m/s).
 - b. Importance Factor: 1.0.
 - c. Exposure Category: B.
 - 2. Maximum Lateral Deflection: For glass supported on all four edges, limit center-of-glass deflection at design wind pressure to not more than 1/50 times the short-side length or 1 inch (25 mm), whichever is less.
- E. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with 16 CFR 1201, Category II.
- F. Thermal and Optical Performance Properties: Provide glass with performance properties specified, as indicated in manufacturer's published test data, based on procedures indicated below:
 - 1. Retain subparagraphs below that apply to types of glass for which thermal and optical performance properties are specified.
 - 2. For insulating-glass units, properties are based on units of thickness indicated for overall unit and for each lite.
 - 3. U-Factors: Center-of-glazing values, in accordance with NFRC 100 and based on LBL's WINDOW 7 computer program, expressed as Btu/sq. ft. x h x deg F (W/sq. m x K).
 - 4. SHGC and Visible Transmittance: Center-of-glazing values, in accordance with NFRC 200 and based on LBL's WINDOW 7 computer program.
 - 5. Visible Reflectance: Center-of-glazing values, in accordance with NFRC 300.
- G. Acoustic Performance:
 - 1. Exterior Glazing: 33 OITC.

2.3 GLASS PRODUCTS, GENERAL

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below unless more stringent requirements are indicated. See these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. IGMA Publication for Insulating Glass: SIGMA TM-3000, "North American Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use."
- B. Insulating-Glass Certification Program: Permanently marked either on spacers or on at least one component lite of units with appropriate certification label of the IGCC.
- C. Thickness: Where glass thickness is indicated, it is a minimum. Provide glass that complies with performance requirements and is not less than thickness indicated.
- D. Strength: Where annealed float glass is indicated, provide annealed float glass, heat-strengthened float glass, or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where heat-strengthened float glass is indicated, provide heat-strengthened float glass or fully tempered float glass as needed to comply with "Performance Requirements" Article. Where fully tempered float glass is indicated, provide fully tempered float glass.

2.4 GLASS PRODUCTS

- A. Reflective- and Low-E-Coated Vision Glass: ASTM C1376.

2.5 INSULATING GLASS

- A. Type M Glass: Organically Sealed Insulating Glass Units; ASTM C1036, applicable Type and Class for glass indicated below, quality Q3 for Type I glass; manufacturer's standard edge construction of spacers and sealants permanently bonded to glass surfaces and hermetically sealed to provide an argon air space 1/2 inch thick with -60 degrees F. dew point; fabricated of the following glass.
 - 1. Exterior Glass: (6.92 mm/0.27 inch) laminated glass made up of (2.7 mm/0.104 inch) clear float glass, (1.52 mm/0.060 inch) PVB interlayer, (2.7 mm/0.104 inch) float glass with primary Low-E coating on surface 4.
 - 2. Interior Glass: (6.92 mm/0.27 inch) laminated glass made up of (2.7 mm/0.104 inch) clear float glass, (1.52 mm/0.060 inch) PVB interlayer, (2.7 mm/0.104 inch) float glass with secondary Low-E coating on surface 8.
 - 3. Total Glass Thickness: 1 inch.
 - 4. Primary Low-E coating SunGuard SN 68 (grey) (or equal, TBD by client) and secondary Low-E coating IS 20 (or equal, TBD by client), visible light transmission 65%, outdoor reflectivity 13%, 0.35 Solar Heat Gain.
 - 5. Winter Nighttime NFRC U-value: $\leq 0.38 \text{ Btu}/(\text{h} \cdot \text{ft}^2 \cdot ^\circ\text{F})$ for fixed fenestration; $\leq 0.45 \text{ Btu}/(\text{h} \cdot \text{ft}^2 \cdot ^\circ\text{F})$ for operable fenestration.

2.6 GLAZING SEALANTS

A. General:

1. Compatibility: Compatible with one another and with other materials they contact, including glass products, seals of insulating-glass units, and glazing channel substrates, under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.
2. Suitability: Comply with sealant and glass manufacturers' written instructions for selecting glazing sealants suitable for applications indicated and for conditions existing at time of installation.
3. Colors of Exposed Glazing Sealants: As selected by Architect from manufacturer's full range of industry colors.

2.7 GLAZING TAPES

A. Back-Bedding Mastic Glazing Tapes: Preformed, butyl-based, 100 percent solids elastomeric tape; nonstaining and nonmigrating in contact with nonporous surfaces; with or without spacer rod as recommended in writing by tape and glass manufacturers for application indicated; and complying with ASTM C1281 and AAMA 800 for products indicated below:

1. AAMA 804.3 tape, where indicated.
2. AAMA 806.3 tape, for glazing applications in which tape is subject to continuous pressure.
3. AAMA 807.3 tape, for glazing applications in which tape is not subject to continuous pressure.

B. Expanded Cellular Glazing Tapes: Closed-cell, PVC foam tapes; factory coated with adhesive on both surfaces; and complying with AAMA 800 for the following types:

1. AAMA 810.1, Type 1, for glazing applications in which tape acts as primary sealant.
2. AAMA 810.1, Type 2, for glazing applications in which tape is used in combination with a full bead of liquid sealant.

2.8 MISCELLANEOUS GLAZING MATERIALS

A. General: Provide products of material, size, and shape complying with referenced glazing standard, recommended in writing by manufacturers of glass and other glazing materials for application indicated, and with a proven record of compatibility with surfaces contacted in installation.

B. Cleaners, Primers, and Sealers: Types recommended by sealant or gasket manufacturer.

C. Setting Blocks:

1. EPDM with Shore A durometer hardness of 85, plus or minus 5.
2. Type recommended in writing by sealant or glass manufacturer.

D. Spacers:

1. Neoprene blocks or continuous extrusions of hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
2. Type recommended in writing by sealant or glass manufacturer.

E. Edge Blocks:

1. EPDM with Shore A durometer hardness per manufacturer's written instructions.
2. Type recommended in writing by sealant or glass manufacturer.

F. Cylindrical Glazing Sealant Backing: ASTM C1330, Type O (open-cell material), of size and density to control glazing sealant depth and otherwise produce optimum glazing sealant performance.

2.9 FABRICATION OF GLAZING UNITS

A. Fabricate glazing units in sizes required to fit openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with written instructions of product manufacturer and referenced glazing publications, to comply with system performance requirements.

1. Allow for thermal movements from ambient and surface temperature changes acting on glass framing members and glazing components.
 - a. Temperature Change: 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine framing, glazing channels, and stops, with Installer present, for compliance with the following:

1. Manufacturing and installation tolerances, including those for size, squareness, and offsets at corners.
2. Presence and functioning of weep systems.
3. Minimum required face and edge clearances.
4. Effective sealing between joints of glass-framing members.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings not firmly bonded to substrates.

- B. Examine glazing units to locate exterior and interior surfaces. Label or mark units as needed so that exterior and interior surfaces are readily identifiable. Do not use materials that leave visible marks in the completed Work.

3.3 GLAZING, GENERAL

- A. Comply with combined written instructions of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are indicated, including those in referenced glazing publications.
- B. Protect glass edges from damage during handling and installation. Remove damaged glass from Project site and legally dispose of off Project site. Damaged glass includes glass with edge damage or other imperfections that, when installed, could weaken glass, impair performance, or impair appearance.
- C. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction testing.
- D. Install setting blocks in sill rabbets, sized and located to comply with referenced glazing publications, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- E. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- F. Provide spacers for glass lites where length plus width is larger than 50 inches (1270 mm).
 - 1. Locate spacers directly opposite each other on both inside and outside faces of glass. Install correct size and spacing to preserve required face clearances, unless gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and to comply with system performance requirements.
 - 2. Provide 1/8-inch- (3-mm-) minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- G. Provide edge blocking where indicated or needed to prevent glass lites from moving sideways in glazing channel, as recommended in writing by glass manufacturer and in accordance with requirements in referenced glazing publications.
- H. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- I. Set glass lites with proper orientation so that coatings face exterior or interior as specified.
- J. Where wedge-shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.
- K. Square cut wedge-shaped gaskets at corners and install gaskets in a manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended in writing by gasket manufacturer.

3.4 TAPE GLAZING

- A. Position tapes on fixed stops so that, when compressed by glass, their exposed edges are flush with or protrude slightly above sightline of stops.
- B. Install tapes continuously, but not necessarily in one continuous length. Do not stretch tapes to make them fit opening.
- C. Cover vertical framing joints by applying tapes to heads and sills first, then to jambs. Cover horizontal framing joints by applying tapes to jambs, then to heads and sills.
- D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- E. Do not remove release paper from tape until right before each glazing unit is installed.
- F. Apply heel bead of elastomeric sealant.
- G. Center glass lites in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
- H. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.5 GASKET GLAZING (DRY)

- A. Cut compression gaskets to lengths recommended by gasket manufacturer to fit openings exactly, with allowance for stretch during installation.
- B. Insert soft compression gasket between glass and frame or fixed stop so it is securely in place with joints miter cut and bonded together at corners.
- C. Installation with Drive-in Wedge Gaskets: Center glass lites in openings on setting blocks and press firmly against soft compression gasket by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended in writing by gasket manufacturer.
- D. Installation with Pressure-Glazing Stops: Center glass lites in openings on setting blocks and press firmly against soft compression gasket. Install dense compression gaskets and pressure-glazing stops, applying pressure uniformly to compression gaskets. Compress gaskets to produce a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended in writing by gasket manufacturer.
- E. Install gaskets so they protrude past face of glazing stops.

3.6 SEALANT GLAZING (WET)

- A. Install continuous spacers, or spacers combined with cylindrical sealant backing, between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel and blocking weep systems until sealants cure. Secure spacers or spacers and backings in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces of sealants to provide a substantial wash away from glass.

3.7 CLEANING AND PROTECTION

- A. Immediately after installation, remove nonpermanent labels and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for buildup of dirt, scum, alkaline deposits, or stains.
 - 1. If, despite such protection, contaminating substances do contact with glass, remove substances immediately as recommended in writing by glass manufacturer. Remove and replace glass that cannot be cleaned without damage to coatings.
- C. Remove and replace glass that is damaged during construction period.
- D. Wash glass on both exposed surfaces not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended in writing by glass manufacturer.

END OF SECTION 088000

SECTION 093013 - CERAMIC TILING

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. Porcelain tile.
 - 2. Stone thresholds.

1.3 DEFINITIONS

- A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.
- B. ANSI A108 Series: ANSI A108.01, ANSI A108.02, ANSI A108.1A, ANSI A108.1B, ANSI A108.1C, ANSI A108.4, ANSI A108.5, ANSI A108.6, ANSI A108.9, ANSI A108.10, ANSI A108.11, ANSI A108.13, ANSI A108.14, ANSI A108.15, ANSI A108.16, and ANSI A108.17, which are contained in its "Specifications for Installation of Ceramic Tile."
- C. Face Size: 12"x12".

1.4 SUBMITTALS

- A. General: Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.
- E. Sustainable Design Submittals:
- F. Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces.

- G. Samples for Initial Selection: For tile, grout, and accessories involving color selection.
- H. Qualification Data: For Installer.
 - 1. Name of each person who will be performing the work, trade certificates, and their employer's name, business address, and telephone number.
 - 2. Names and addresses of 3 similar projects that each person has worked on during the past 5 years.
- I. Master Grade Certificates: For each shipment, type, and composition of tile, signed by tile manufacturer and Installer.
- J. Product Certificates: For each type of product.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.
 - 2. Grout: Furnish quantity of grout equal to 3 percent of amount installed for each type, composition, and color indicated.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications:
 - 1. Installer employs only Ceramic Tile Education Foundation Certified Installers or installers recognized by the U.S. Department of Labor as Journeyman Tile Layers for Project.
- B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 - 1. Build mockup of each type of floor tile installation.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.
- B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.

1.8 FIELD CONDITIONS

- A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations for Tile: Obtain tile of each type and color or finish from single source or producer.
 - 1. Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.
- B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from single manufacturer and each aggregate from single source or producer.
 - 1. Obtain setting and grouting materials, except for unmodified Portland cement and aggregate, from single manufacturer.
 - 2. Obtain waterproof membrane and crack isolation membrane, except for sheet products, from manufacturer of setting and grouting materials.
- C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer:
 - 1. Stone thresholds.
 - 2. Waterproof membrane.

2.2 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
- B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.02, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.

2.3 TILE PRODUCTS

- A. Ceramic Tile Type- porcelain tile.

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Daltile.
 - b. Approved equivalent.
2. Certification: Tile certified by the Porcelain Tile Certification Agency.
3. Face Size: 12 by 12 inches
4. Face Size Variation: Rectified.
5. Thickness: 5/16 inch
6. Face: As indicated.
7. Dynamic Coefficient of Friction: Not less than 0.42.
8. Tile Color, Glaze, and Pattern: Modern Hearth, White ash square, matte finish
9. Grout Color: As indicated by manufacturer's designations.

2.4 THRESHOLDS

- A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.
 1. Bevel edges at 1:2 slope, with lower edge of bevel aligned with or up to 1/16 inch above adjacent floor surface. Finish bevel to match top surface of threshold. Limit height of threshold to 1/2 inch or less above adjacent floor surface.

2.5 WATERPROOF MEMBRANE

- A. General: Manufacturer's standard product, selected from the following, that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
- B. Chlorinated Polyethylene Sheet: ASTM D4068; Nonplasticized, chlorinated polyethylene faced on both sides with nonwoven polyester fabric.
 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Noble Company (The); Chloraloy®.
 - b. Approved equivalent.
 2. Nominal Thickness: 0.030 inch.
 3. Nominal Thickness: 0.040 inch.
- C. Polyethylene Sheet: Polyethylene faced on both sides with fleece webbing; 0.008-inch minimum nominal thickness.
 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Mapei Corporation; Mapeguard® WP 200.

- b. Schluter Systems L.P; KERDI.
 - c. Schönox; HPS North America, Inc.; Schonox AB.
 - d. Approved equivalent.
- D. Latex-Portland Cement Waterproof Mortar: Flexible, waterproof mortar consisting of cement-based mix and latex additive.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Boiardi Products Corporation; a QEP company; Elastiment 323 Cement Based Waterproofing, Anti-Fracture/Crack Suppression Membrane.
 - b. Laticrete International, Inc.; Laticrete Hydro Ban® Cementitious Waterproofing Membrane.
 - c. MAPEI Corporation; Mapelastic Turbo.
 - d. Approved equivalent.

2.6 SETTING MATERIALS

- A. Portland Cement Mortar (Thickset) Installation Materials: ANSI A108.02.
 - 1. Cleavage Membrane: Asphalt felt, ASTM D226, Type I (No. 15); or polyethylene sheeting, ASTM D4397, 4.0 mils thick.
 - 2. Moisture Vapor Emission Control Membranes: As specified in Section 090561.13 "Moisture Vapor Emission Control".
- B. Standard Dry-Set Mortar (Thinset): ANSI A118.1.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:
 - a. Custom Building Products; PremiumPlus® Non-Modified Thin-Set Mortar.
 - b. Laticrete International, Inc.; Laticrete 317 Mortar.
 - c. MAPEI Corporation; Kerabond®.
 - d. Summitville Tiles, Inc.; S-777 Thin Set Mortar.
 - e. Approved equivalent.
 - 2. For wall applications, provide mortar that complies with requirements for nonsagging mortar in addition to the other requirements in ANSI A118.1.
 - 3. Provide prepackaged, dry-mortar mix containing dry, redispersible, vinyl acetate or acrylic additive to which only water must be added at Project site.

2.7 GROUT MATERIALS

- A. Standard Cement Grout: ANSI A118.6; with antimicrobial enhanced properties.
 - 1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to the following:

- a. Custom Building Products; Fusion Pro® Single Component® Grout.
- b. Laticrete International, Inc.; 1500 Sanded Grout.
- c. MAPEI Corporation; Ultracolor® Plus FA.
- d. Summitville Tiles, Inc.; S-687 Fungus and Mildew Resistant Unsanded Grout.
- e. Approved equivalent.

B. Grout for PregROUTed Tile Sheets: Same product used in factory to pregROUT tile sheets.

2.8 MISCELLANEOUS MATERIALS

- A. Vapor-Retarder Membrane: Polyethylene sheeting, ASTM D4397, 4.0 mils thick.
- B. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.
- C. Floor Sealer: Manufacturer's standard product for sealing grout joints and that does not change color or appearance of grout.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. ColorSealPro; www.colorsealpro.com.
 - b. Laticrete International, Inc.
 - c. Modern Stone Technologies; www.modernstonecare.com.
 - d. Approved equivalent.
- D. Patching Compound: A trowelable, latex-modified, portland cement-based patching compound suitable for repair of existing tile surfaces and substrates, compatible with tile-setting materials specified in this Section, capable of featheredge application, suitable for use in wet areas, and providing a hard, durable surface resistant to shrinkage and cracking with good bond to existing tile and substrate.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - a. Custom Building Products.
 - b. Laticrete International, Inc.
 - c. MAPEI Corporation.
 - d. Approved equivalent.

2.9 MIXING MORTARS AND GROUT

- A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.

- B. Add materials, water, and additives in accurate proportions.
- C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Moisture Testing of Concrete Slabs on Grade: Perform tests so that each test area does not exceed 1000 sq. ft., and perform no fewer than three tests in each installation area and with test areas evenly spaced in installation areas.
 - 1. Relative Humidity Test: Using in-situ probes, ASTM F2170. Proceed with installation only after substrates have a maximum 75 percent relative humidity level measurement or a level acceptable to the setting bed manufacturer.
- B. Proceed with installation only after unsatisfactory conditions have been corrected

3.2 EXISTING TILE REPAIR

- A. Prepare existing tile surfaces to receive new work. Verify surfaces are clean, stable, and suitable for repair.
- B. Clean existing tile surfaces of dirt, residue, and contaminants prior to repair. Coordinate with mold remediation work specified under Specs Section 028533 Mold Remediation And Disposal.
- C. Crack Repair
 - 1. Clean cracks of dust and debris.
 - 2. Fill cracks using trowelable patching compound compatible with materials specified in this Section.
 - 3. Finish flush with adjacent tile surfaces.
- D. Missing Tile Areas
 - 1. Remove loose material and debris from areas of missing tiles.
 - 2. Fill voids with patching compound to match adjacent tile elevation.
 - 3. Feather edges to provide smooth transition.
- E. Loose or Hollow Tiles
 - 1. Remove individual loose or hollow-sounding tiles encountered during preparation.
 - 2. Patch resulting areas to provide a sound, flush surface.
- F. Surface Condition
 - 1. Ensure repaired areas are smooth, level, and free of loose or unsound material prior to installation.

3.3 PREPARATION

- A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with adhesives or thinset mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.
- B. Where indicated, prepare substrates to receive waterproof membrane by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot toward drains.

3.4 INSTALLATION OF CERAMIC TILE

- A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
- B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
 - 1. Porcelain Tile: 1/4 inch.
- D. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
 - 1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.
- E. Stone Thresholds: Install stone thresholds in same type of setting bed as adjacent floor unless otherwise indicated.
 - 1. At locations where mortar bed (thickset) would otherwise be exposed above adjacent floor finishes, set thresholds in mortar (thinset).
 - 2. Do not extend waterproof membrane under thresholds set in standard dry-set mortar. Fill joints between such thresholds and adjoining tile set on waterproof membrane with elastomeric sealant.
- F. Floor Sealer: Apply floor sealer to cementitious grout joints in tile floors according to floor-sealer manufacturer's written instructions. As soon as floor sealer has penetrated grout joints, remove excess sealer and sealer from tile faces by wiping with soft cloth.

3.5 INSTALLATION OF WATERPROOF MEMBRANE

- A. Install waterproof membrane to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.
- B. Allow waterproof membrane to cure and verify by testing that it is watertight before installing tile or setting materials over it.

3.6 ADJUSTING AND CLEANING

- A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.
- B. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
 - 1. Remove grout residue from tile as soon as possible.
 - 2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

3.7 PROTECTION

- A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.
- B. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
- C. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

3.8 INTERIOR CERAMIC TILE INSTALLATION SCHEDULE

- A. Interior Floor Installations, Concrete Subfloor:
 - 1. Ceramic Tile Installation: TCNA F111 and ANSI A108.1A; cement mortar bed (thickset) with cleavage membrane.
 - a. Ceramic Tile Type:
 - b. Bond Coat for Cured-Bed Method: Standard dry-set mortar.
 - c. Grout: Standard sanded cement grout.

END OF SECTION 093013



CONSULTANT

FPM ENGINEERING & GEOLOGY, P.C.

CERTIFICATE OF AUTHORIZATION: #0019166

DESIGN CONSULTANT

RZAPS

RICARDO ZURITA ARCHITECTURE & PLANNING, P.C.



UNIFORM CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.



CONTRACT:

CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIOR
MASONRY REPAIRS,
BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT: NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

	04/28/2026	ADDENDUM #4
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	M3167-C	
DESIGNED BY:	RZAPS	
DRAWN BY:	RZAPS	
FIELD CHECK:		
APPROVED:	RZ	

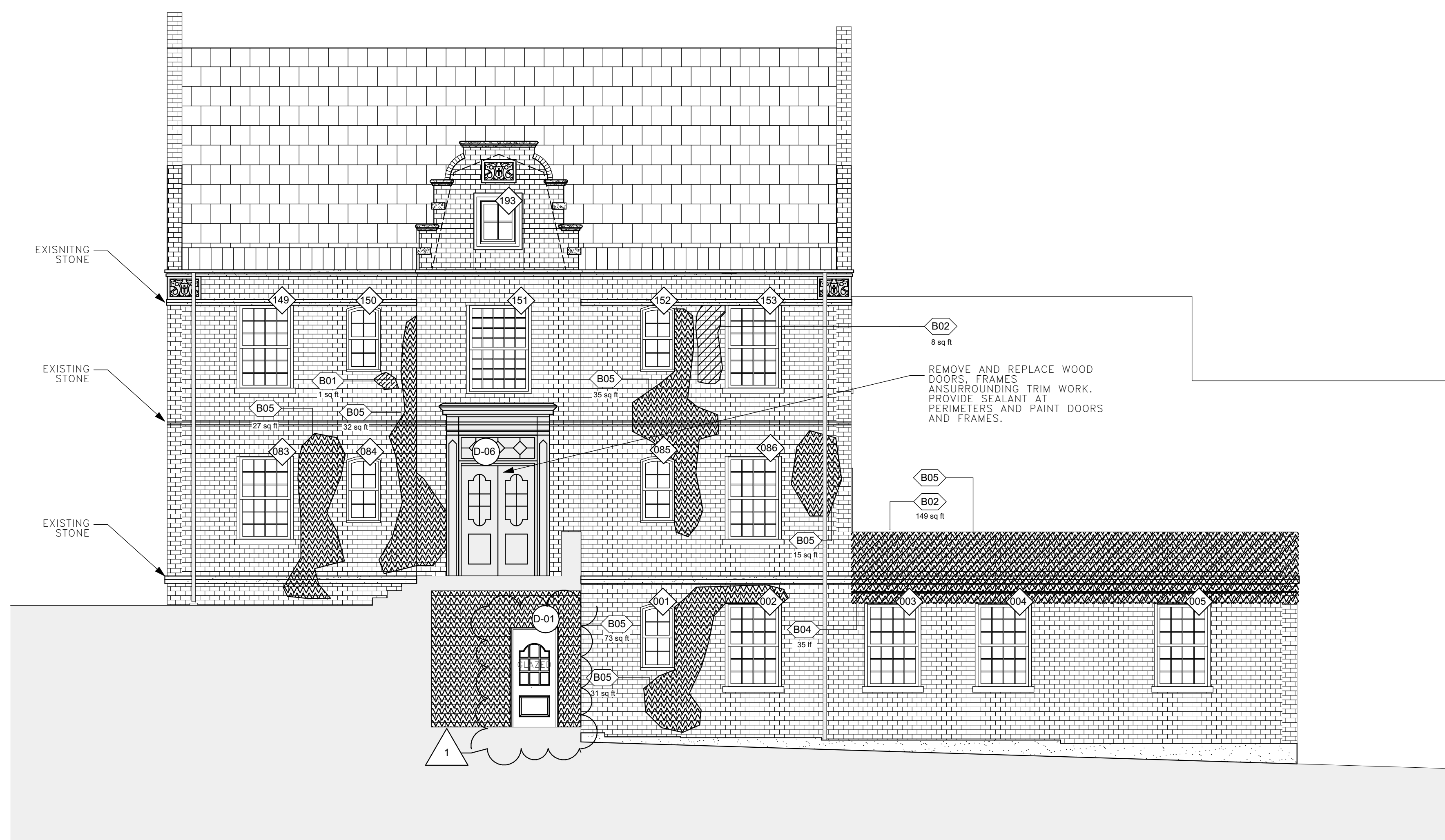
SHEET TITLE:

BLDG 37 - EXTERIOR
ELEVATION A

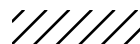
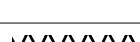
DRAWING NUMBER:

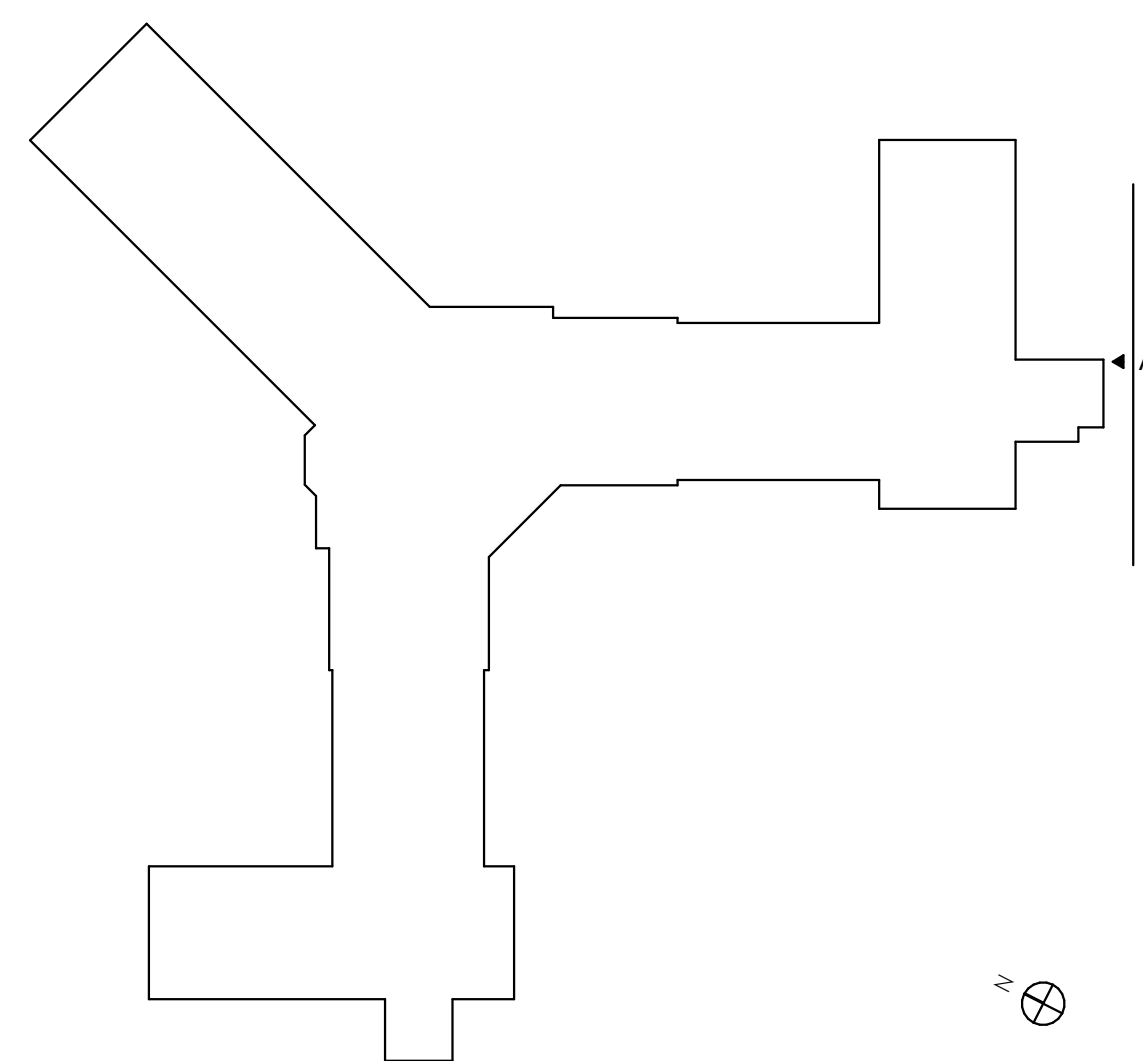
A-203

SHEET 23 OF 53



1
A-203 ELEVATION A
SCALE: 3/16" = 1'-0"

BLDG 37 (DAVIS) – REPAIR & CLEANING LEGEND – ELEVATION A				
SYMBOL	CODE	TREATMENT	DETAIL	QUANTITY
	B01	REPLACE AND STITCH IN MASONRY	A-501/1-2-4	1 SQ FT
	B02	RAKE & REPOINT FACE MASONRY	A-501/5-6	159 SQ FT
	B04	STITCH STEP CRACK AT MORTAR JOINTS	A-501/4	35 LF
	B05	EFFLORESCENCE REMOVAL	N/A	362 SQ FT
	B06	BLACK STAIN REMOVAL	N/A	—



KEY PLAN

BLDG 37 (DAVIS) - EXTERIOR SCOPE OF WORK

1. IN ADDITION TO MASONRY REPAIR QUANTITIES INDICATED ON DRAWINGS, PROVIDE UP TO 500SF OF BRICK REPOINTING AND UP TO 200SF OF BRICK REPLACEMENTS AT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE DIRECTOR'S REPRESENTATIVE.

2. PROVIDE MASONRY CLEANING FULL HEIGHT AT ALL BRICK FACADES OF THE BUILDING TO REMOVE DIRT STAINS, MILDEW, EFFLORESCENCE AND DISCOLORATION INCLUDING DORMERS, PARAPETS, SERVICE AREA RETAINING WALLS AND EXPOSED FOUNDATIONS.

3. REPOINT MORTAR JOINTS AT ALL STONE COPINGS, ALL STONE INLAIS AND ALL ORNAMENTAL STONEMWORK AT TOP OF ROOFS AND DORMERS.

4. CLEAN ALL EXISTING STONE FACADES TO REMOVE DIRT, STAINING, AND DISCOLORATION, INCLUDING ANY STONE AREAS AFFECTED BY THE WORK.

5. REMOVE ALL ABANDONED ANCHORS AND PATCH VOID PER DETAIL 3/A-50V.

6. REMOVE ALL UNUSED OR NON-FUNCTIONING SATELLITE DISHES, CABLES AND ANTENNAS. REMOVE, STORE, AND REINSTALL FUNCTIONING AND IN-USE SATELLITE DISHES, CABLES AND ANTENNAS; ASSUME 70% OF SATELLITE DISHES, CABLES, AND ANTENNAS ARE FUNCTIONING. COORDINATE WITH DIRECTOR'S REPRESENTATIVE. PATCH VOID PER DETAIL 3/A-501.

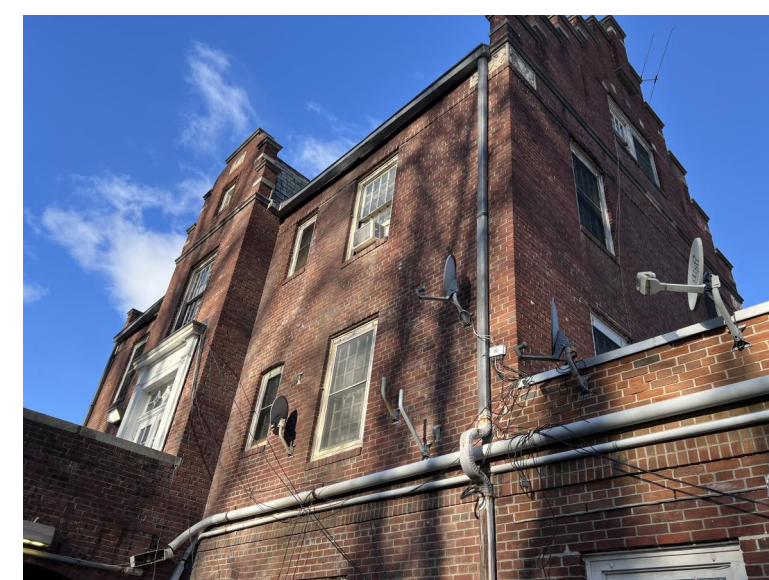
7. REMOVE EXISTING WINDOW-MOUNTED AC UNITS AND TURN OVER TO FACILITY. COORDINATE THIS WORK WITH THE DIRECTOR'S REPRESENTATIVE.

8. REMOVE AND REPLACE STEEL LINTELS ABOVE WINDOWS AT UP TO 50% OF THE WINDOW OPENINGS. SEE 11/A-607.



SET DISHES QUANTITY: 5.
AC UNITS QUANTITY: 3.
CABLE LENGHT: 450 LF.

ESTIMATED QUANTITIES ARE FOR BID PURPOSES ONLY AND ARE APPROXIMATE.



REVISÉD DRAWING 04/28/2026



CONSULTANT

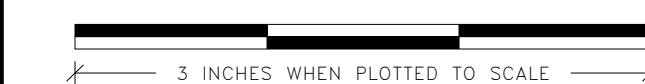
FPM ENGINEERING & GEOLOGY, P.C.

CERTIFICATE OF AUTHORIZATION: #0019166

DESIGN CONSULTANT

RZAPS

RICARDO ZURITA ARCHITECTURE & PLANNING, P.C.



UNIFORM CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY,
UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE
PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT,
ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT
FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE
NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS
AND IS A CLASS 'A' MISDEMEANOR.



REGISTRATION EXPIRES
5/31/2020

CONTRACT:

CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIOR
MASONRY REPAIRS,
BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT: NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

[illegible]

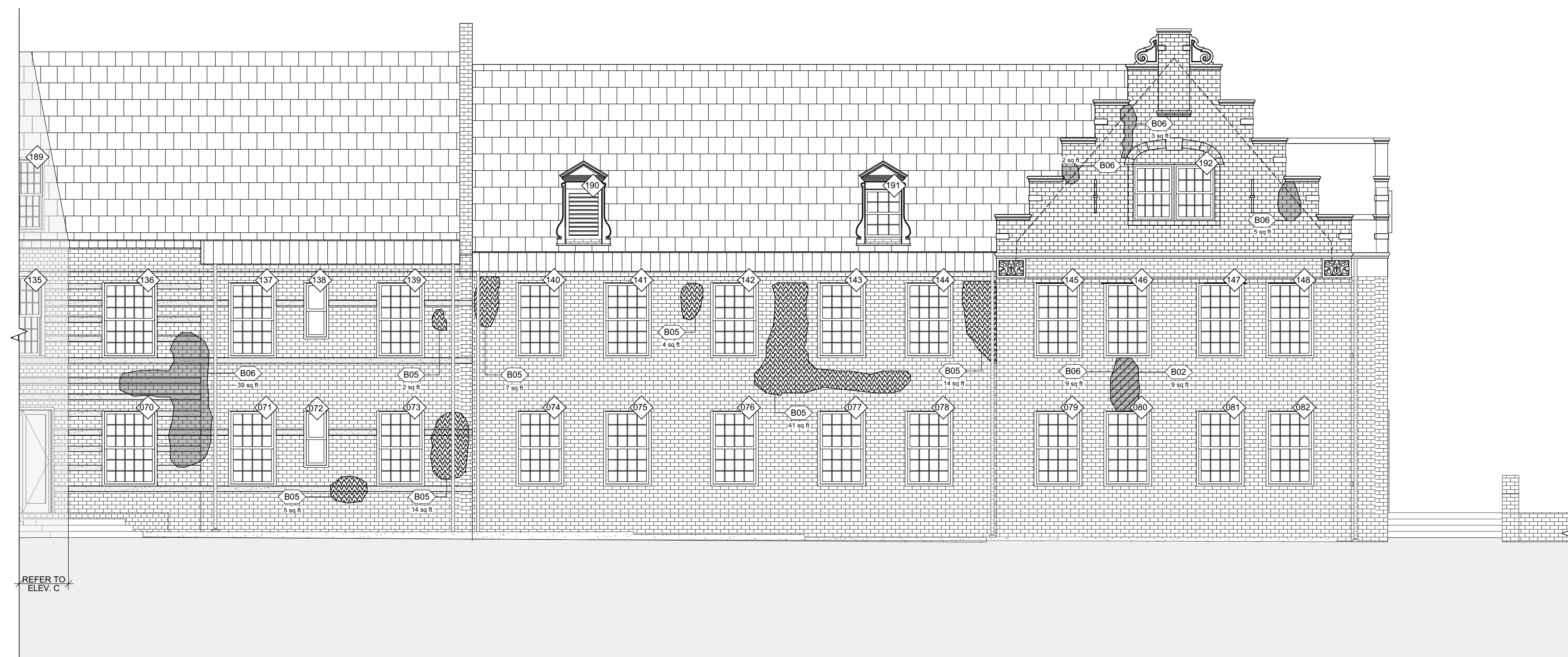
SHEET TITLE:

BLDG 37 - EXTERIOR
ELEVATION B

DRAWING NUMBER:

A-204

SHEET 24 OF 53

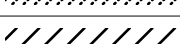


REFER TO
ELEV. C.



ELEVATION B

SCALE: 3/16" = 1'-0"

BLDG 37 (DAVIS) – REPAIR & CLEANING LEGEND – ELEVATION B				
SYMBOL	CODE	TREATMENT	DETAIL	QUANTITY
	B01	REPLACE AND STITCH IN MASONRY	A-501/1-2-4	-
	B02	RAKE & REPOINT FACE MASONRY	A-501/5-6	9 SQ FT
	B04	STITCH STEP CRACK AT MORTAR JOINTS	A-501/4	35 LF
	B05	EFFLORESCENCE REMOVAL	N/A	87 SQ FT
	B06	BLACK STAIN REMOVAL	N/A	58 SQ FT

BLDG 37 (DAVIS) - EXTERIOR SCOPE OF WORK

1. IN ADDITION TO MASONRY REPAIR QUANTITIES INDICATED ON DRAWINGS, PROVIDE UP TO 500SF OF BRICK REPOINTING AND UP TO 200SF OF BRICK REPLACEMENTS AT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE DIRECTOR'S REPRESENTATIVE.

2. PROVIDE MASONRY CLEANING FULL HEIGHT AT ALL BRICK FACADES OF THE BUILDING TO REMOVE DIRT STAINS, MILDEW, EFFLORESCENCE AND DISCOLORATION INCLUDING DORMERS, PARAPETS, SERVICE AREA RETAINING WALLS AND EXPOSED FOUNDATIONS.

3. REPOINT MORTAR JOINTS AT ALL STONE COPINGS, ALL STONE INLAIS AND ALL ORNAMENTAL STONEMWORK AT TOP OF ROOFS AND DORMERS.

4. CLEAN ALL EXISTING STONE FACADES TO REMOVE DIRT, STAINING, AND DISCOLORATION, INCLUDING ANY STONE AREAS AFFECTED BY THE WORK.

5. REMOVE ALL ABANDONED ANCHORS AND PATCH VOID PER DETAIL 3/A-50V.

6. REMOVE ALL UNUSED OR NON-FUNCTIONING SATELLITE DISHES, CABLES AND ANTENNAS. REMOVE, STORE, AND REINSTALL FUNCTIONING AND IN-USE SATELLITE DISHES, CABLES AND ANTENNAS; ASSUME 70% OF SATELLITE DISHES, CABLES, AND ANTENNAS ARE FUNCTIONING. COORDINATE WITH DIRECTOR'S REPRESENTATIVE. PATCH VOID PER DETAIL 3/A-501.

7. REMOVE EXISTING WINDOW-MOUNTED AC UNITS AND TURN OVER TO FACILITY. COORDINATE THIS WORK WITH THE DIRECTOR'S REPRESENTATIVE.

8. REMOVE AND REPLACE STEEL LINTELS ABOVE WINDOWS AT UP TO 50% OF THE WINDOW OPENINGS. SEE 11/A-607.



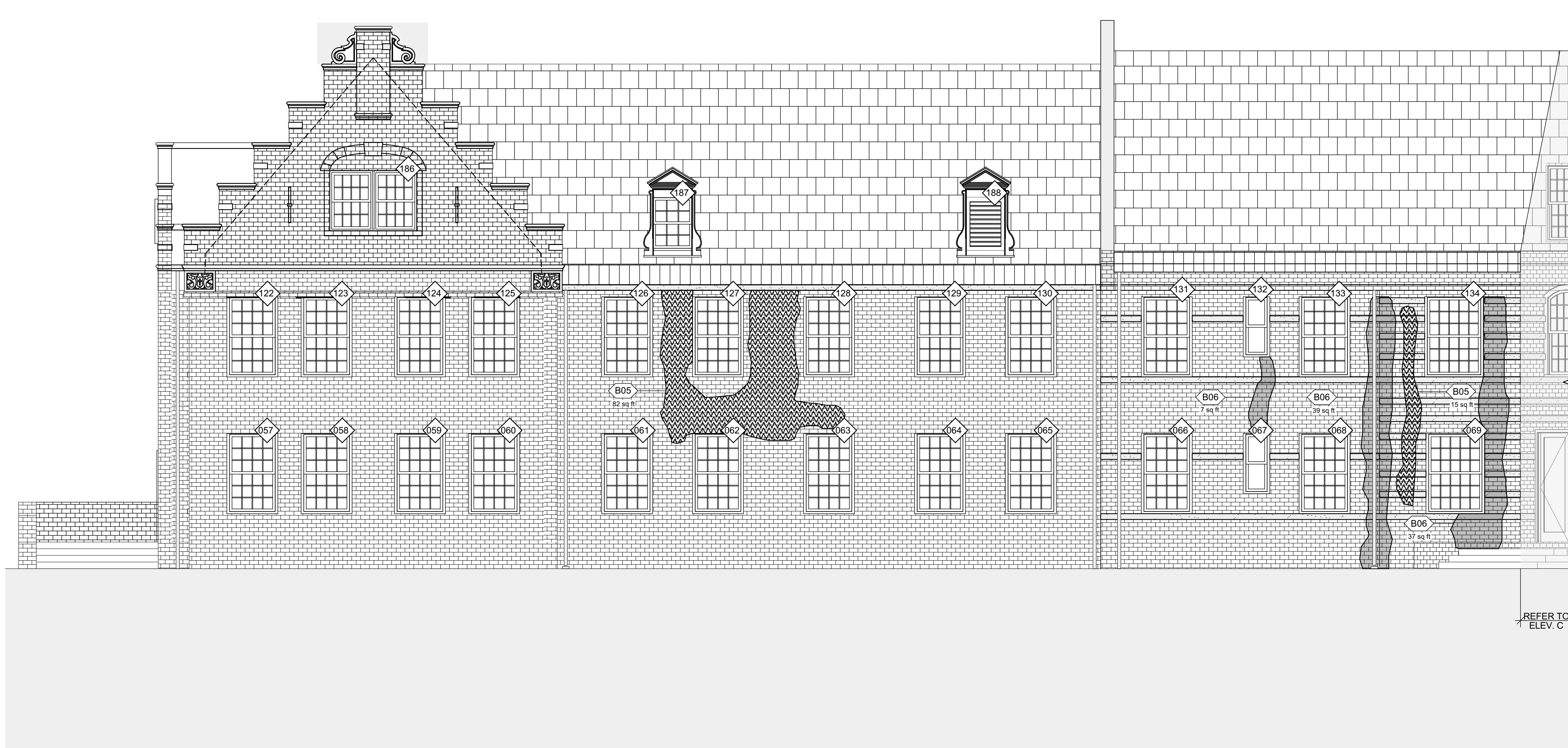
SET DISHES QUANTITY: 19.
AC UNITS QUANTITY: 15.
CABLE LENGHT: 420 LF.

ESTIMATED QUANTITIES ARE FOR BID PURPOSES ONLY AND ARE APPROXIMATE.

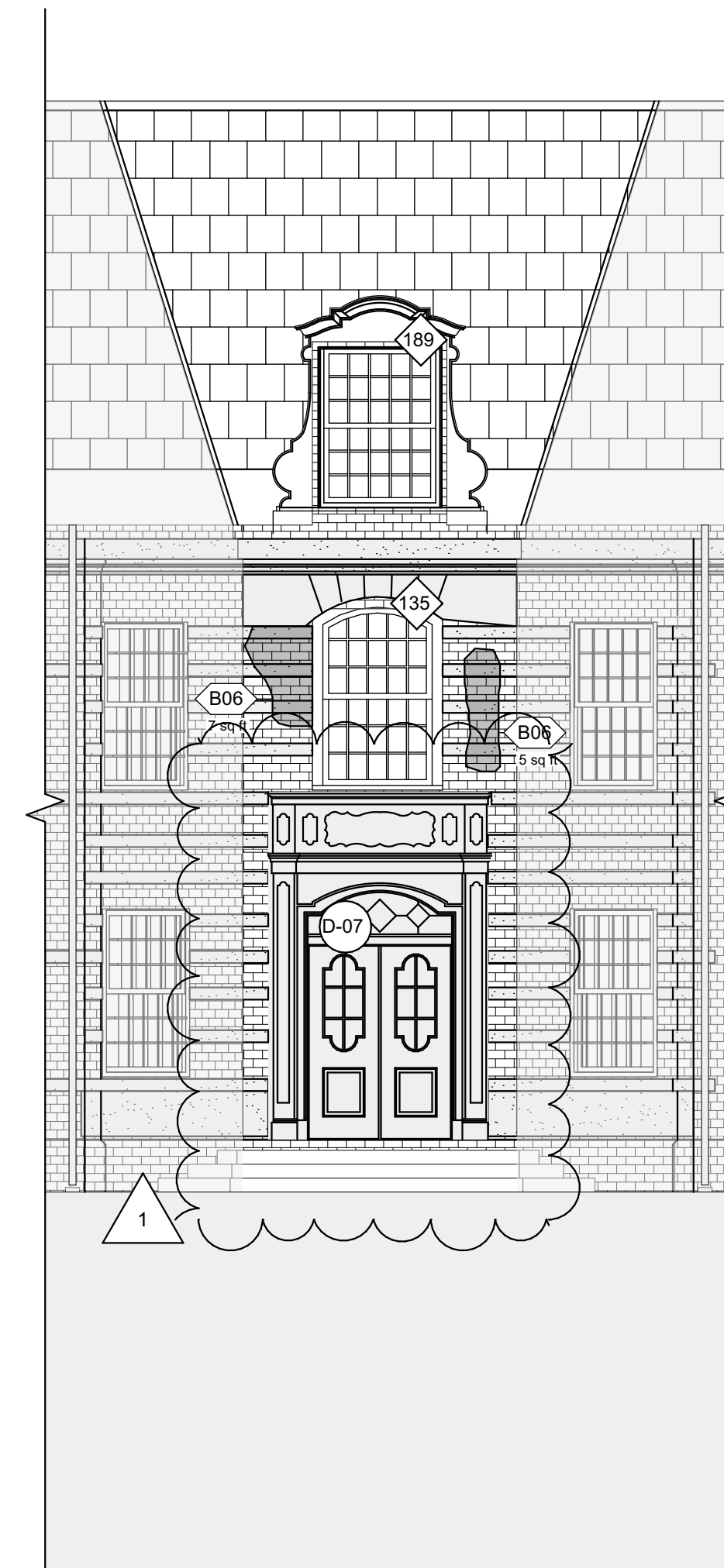


KEY PLAN

REVISÉD DRAWING 04/28/2026



1
A-205 ELEVATION D
SCALE: 3/16" = 1'-0"



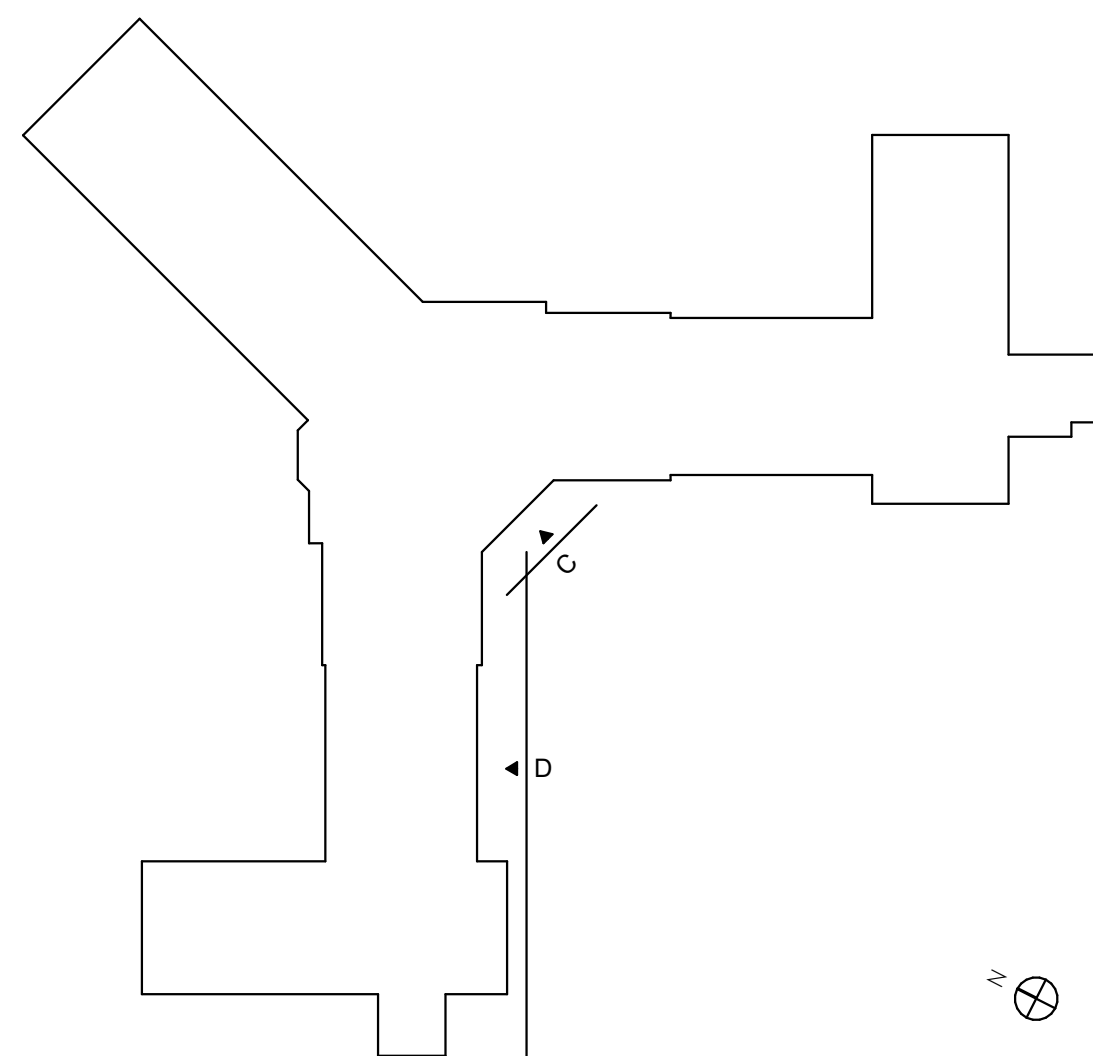
2
A-205 ELEVATION C
SCALE: 3/16" = 1'-0"

BLDG 37 (DAVIS) - REPAIR & CLEANING LEGEND - ELEVATION C & D				
SYMBOL	CODE	TREATMENT	DETAIL	QUANTITY
	B01	REPLACE AND STITCH IN MASONRY	A-501/1-2-4	-
	B02	RAKE & REPOINT FACE MASONRY	A-501/5-6	-
	B03	STITCH STEP CRACK AT MORTAR JOINTS	A-501/4	-
	B05	EFFLORESCENCE REMOVAL	N/A	97 SQ FT
	B06	BLACK STAIN REMOVAL	N/A	95 SQ FT

- BLDG 37 (DAVIS) - EXTERIOR SCOPE OF WORK
1. IN ADDITION TO MASONRY REPAIR QUANTITIES INDICATED ON DRAWINGS, PROVIDE UP TO 500SF OF BRICK REPOINTING AND UP TO 200SF OF BRICK REPLACEMENTS AT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE DIRECTOR'S REPRESENTATIVE.
 2. PROVIDE MASONRY CLEANING FULL HEIGHT AT ALL BRICK FACADES OF THE BUILDING TO REMOVE DIRT STAINS, MILDEW, EFFLORESCENCE AND DISCOLORATION INCLUDING DORMERS, PARAPETS, SERVICE AREA RETAINING WALLS AND EXPOSED FOUNDATIONS.
 3. REPOINT MORTAR JOINTS AT ALL STONE COPINGS, ALL STONE INLAIS AND ALL ORNAMENTAL STONWORK AT TOP OF ROOFS AND DORMERS.
 4. CLEAN ALL EXISTING STONE FACADES TO REMOVE DIRT, STAINING, AND DISCOLORATION, INCLUDING ANY STONE AREAS AFFECTED BY THE WORK.
 5. REMOVE ALL ABANDONED ANCHORS AND PATCH VOID PER DETAIL 3/A-501.
 6. REMOVE ALL UNUSED OR NON-FUNCTIONING SATELLITE DISHES, CABLES AND ANTENNAS. REMOVE, STORE, AND REINSTALL FUNCTIONING AND IN-USE SATELLITE DISHES, CABLES AND ANTENNAS; ASSUME 70% OF SATELLITE DISHES, CABLES, AND ANTENNAS ARE FUNCTIONING. COORDINATE WITH DIRECTOR'S REPRESENTATIVE. PATCH VOID PER DETAIL 3/A-501.
 7. REMOVE EXISTING WINDOW MOUNTED AC UNITS AND TURN OVER TO FACILITY. COORDINATE THIS WORK WITH THE DIRECTOR'S REPRESENTATIVE.
 8. REMOVE AND REPLACE STEEL LINTELS ABOVE WINDOWS AT UP TO 50% OF THE WINDOW OPENINGS. SEE 11/A-607.



SET DISHES QUANTITY: 6.
AC UNITS QUANTITY: 17.
CABLE LENGTH: 300 LF.
ESTIMATED QUANTITIES ARE FOR BID PURPOSES ONLY AND ARE APPROXIMATE.



KEY PLAN

1



CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIOR MASONRY REPAIRS, BUILDINGS 19 AND 37

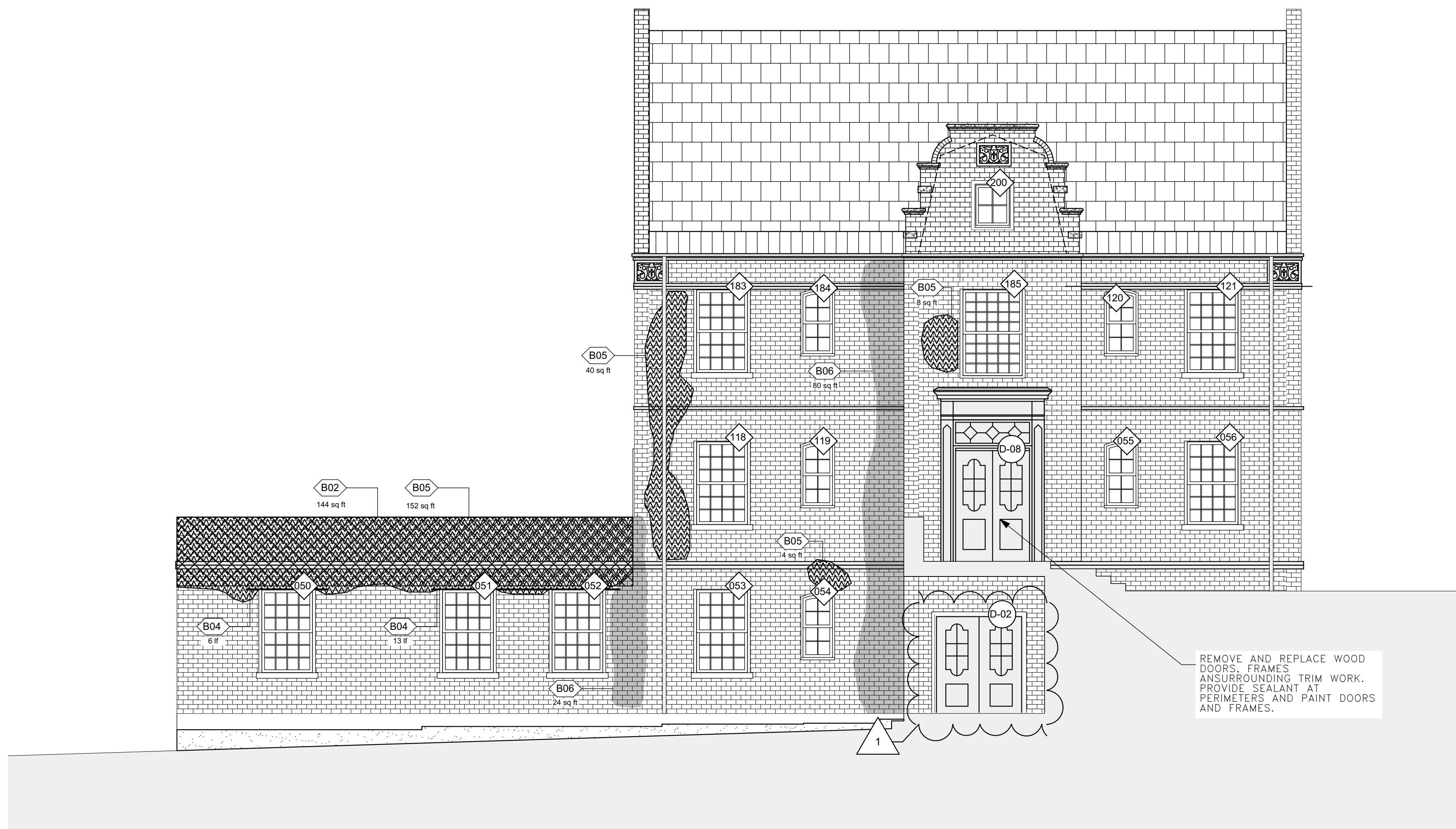
LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT:
NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

1	04/28/2026	ADDENDUM #4
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	M3167-C	
DESIGNED BY:	RZAPS	
DRAWN BY:	RZAPS	
FIELD CHECK:		
APPROVED:	RZ	

SHEET TITLE:
BLDG 37 - EXTERIOR
ELEVATION E

DRAWING NUMBER:
A-206



1
A-206
ELEVATION E
SCALE: 3/16" = 1'-0"

BLDG 37 (DAVIS) - REPAIR & CLEANING LEGEND - ELEVATION E				
SYMBOL	CODE	TREATMENT	DETAIL	QUANTITY
	B01	REPLACE AND STITCH IN MASONRY	A-501/1-2-4	-
	B02	RAKE & REPOINT FACE MASONRY	A-501/5-6	144 SQ FT
	B04	STITCH STEP CRACK AT MORTAR JOINTS	A-501/4	19 LF
	B05	EFFLORESCENCE REMOVAL	N/A	204 SQ FT
	B06	BLACK STAIN REMOVAL	N/A	104 SQ FT

BLDG 37 (DAVIS) - EXTERIOR SCOPE OF WORK

- IN ADDITION TO MASONRY REPAIR QUANTITIES INDICATED ON DRAWINGS, PROVIDE UP TO 500SF OF BRICK REPOINTING AND UP TO 200SF OF BRICK REPLACEMENTS AT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE DIRECTOR'S REPRESENTATIVE.
- PROVIDE MASONRY CLEANING FULL HEIGHT AT ALL BRICK FACADES OF THE BUILDING TO REMOVE DIRT STAINS, MILDEW, EFFLORESCENCE AND DISCOLORATION INCLUDING DORMERS, PARAPETS, SERVICE AREA RETAINING WALLS AND EXPOSED FOUNDATIONS.
- REPOINT MORTAR JOINTS AT ALL STONE COPINGS, ALL STONE INLAYS AND ALL ORNAMENTAL STONWORK AT TOP OF ROOFS AND DORMERS.
- CLEAN ALL EXISTING STONE FACADES TO REMOVE DIRT, STAINING, AND DISCOLORATION, INCLUDING ANY STONE AREAS AFFECTED BY THE WORK.
- REMOVE ALL ABANDONED ANCHORS AND PATCH VOID PER DETAIL 3/A-501.
- REMOVE ALL UNUSED OR NON-FUNCTIONING SATELLITE DISHES, CABLES AND ANTENNAS. REMOVE, STORE, AND REINSTALL FUNCTIONING AND IN-USE SATELLITE DISHES, CABLES AND ANTENNAS. ASSUME 70% OF SATELLITE DISHES, CABLES, AND ANTENNAS ARE FUNCTIONING. COORDINATE WITH DIRECTOR'S REPRESENTATIVE. PATCH VOID PER DETAIL 3/A-501.
- REMOVE EXISTING WINDOW MOUNTED AC UNITS AND TURN OVER TO FACILITY. COORDINATE THIS WORK WITH THE DIRECTOR'S REPRESENTATIVE.
- REMOVE AND REPLACE STEEL LINTELS ABOVE WINDOWS AT UP TO 50% OF THE WINDOW OPENINGS. SEE 11/A-607.



SET DISHES QUANTITY: 7.
AC UNITS QUANTITY: 3.
CABLE LENGTH: 300 LF.
ESTIMATED QUANTITIES ARE FOR BID PURPOSES ONLY AND ARE APPROXIMATE.





CONSULTAN

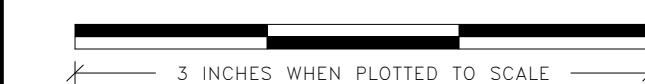
FPM ENGINEERING & GEOLOGY, P.C

CERTIFICATE OF AUTHORIZATION: #0019166

DESIGN CONSULTANT

RZAPS

RICARDO ZURITA ARCHITECTURE & PLANNING, P.C.



UNIFORM CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.



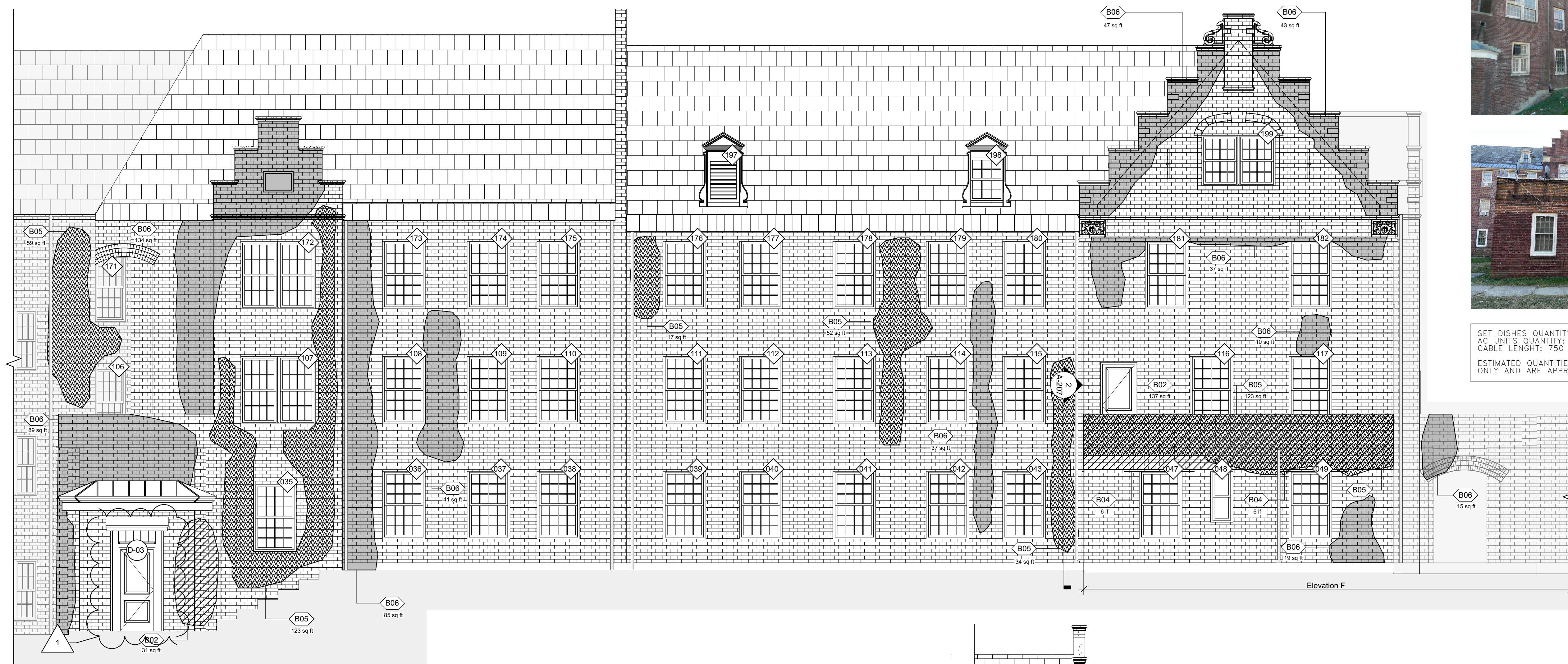
CONTRACT:

CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIO
MASONRY REPAIRS,
BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT: NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION



SET DISHES QUANTITY: 6.
AC UNITS QUANTITY: 19.
CABLE LENGHT: 750 LF.

ESTIMATED QUANTITIES ARE FOR BID PURPOSES ONLY AND ARE APPROXIMATE.

1 ELEVATION F-H
A-20 SCALE: 3/16" = 1'-0"

BLDG 37 (DAVIS) – REPAIR & CLEANING LEGEND – ELEVATION F-H				
SYMBOL	CODE	TREATMENT	DETAIL	QUANTITY
	B01	REPLACE AND STITCH IN MASONRY	A-501/1-2-4	–
	B02	RAKE & REPOINT FACE MASONRY	A-501/5-6	168 SQ. FT.
	B04	STITCH STEP CRACK AT MORTAR JOINTS	A-501/4	12 LF.
	B05	EFFLORESCENCE REMOVAL	N/A	408 SQ. FT.
	B06	BLACK STAIN REMOVAL	N/A	557 SQ. FT.

BLDG 37 (DAVIS) - EXTERIOR SCOPE OF WORK

1. IN ADDITION TO MASONRY REPAIR QUANTITIES INDICATED ON DRAWINGS, PROVIDE UP TO 500SF OF BRICK REPOINTING AND UP TO 200SF OF BRICK REPLACEMENTS AT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE DIRECTOR'S REPRESENTATIVE.

2. PROVIDE MASONRY CLEANING FULL HEIGHT AT ALL BRICK FACADES OF THE BUILDING TO REMOVE DIRT STAINS, MILDEW, EFFLORESCENCE AND DISCOLORATION INCLUDING DORMERS, PARAPETS, SERVICE AREA RETAINING WALLS AND EXPOSED FOUNDATIONS.

3. REPOINT MORTAR JOINTS AT ALL STONE COPINGS, ALL STONE INLAYS AND ALL ORNAMENTAL STONEMWORK AT TOP OF ROOFS AND DORMERS.

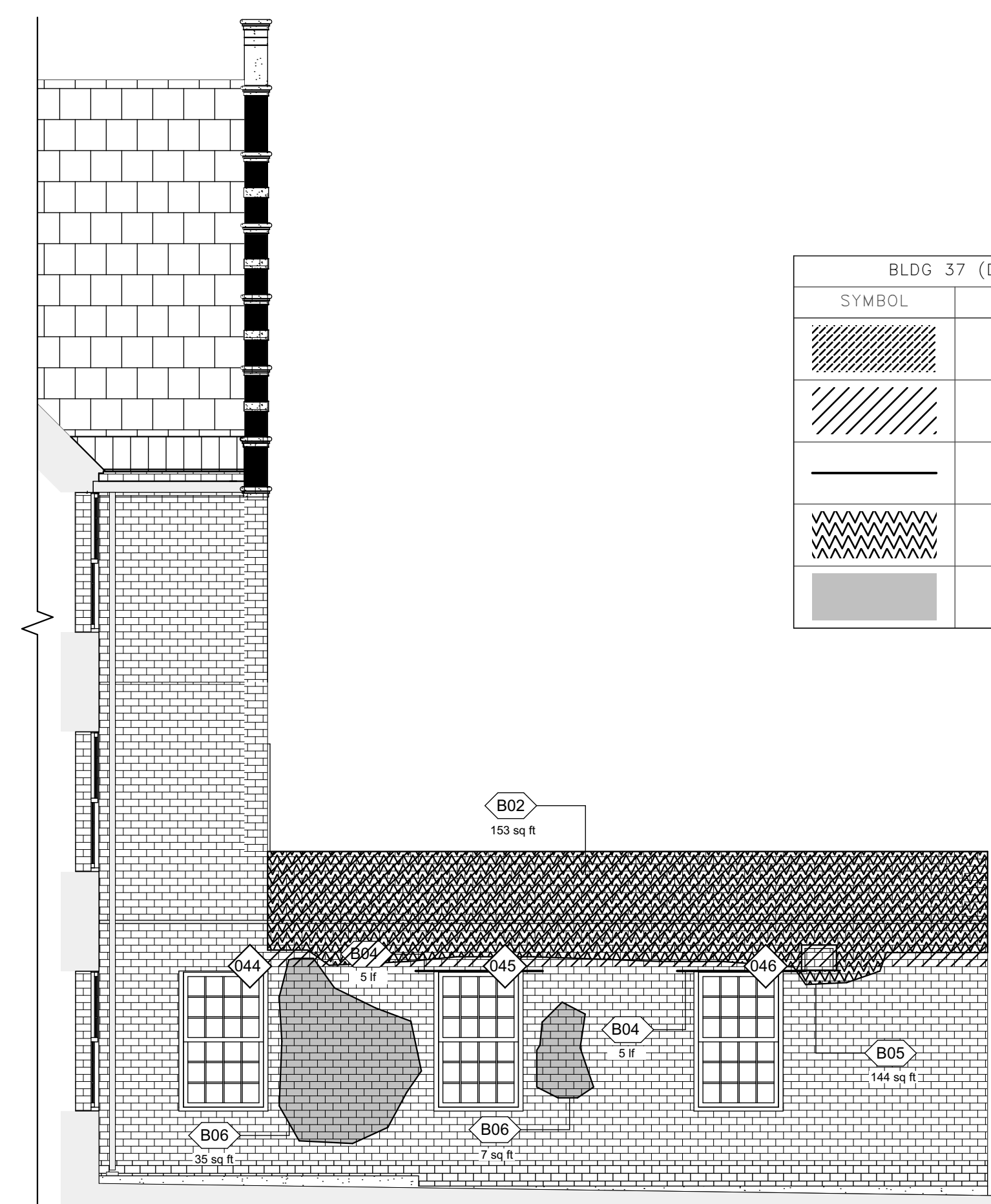
4. CLEAN ALL EXISTING STONE FACADES TO REMOVE DIRT, STAINING, AND DISCOLORATION, INCLUDING ANY STONE AREAS AFFECTED BY THE WORK.

5. REMOVE ALL ABANDONED ANCHORS AND PATCH VOID PER
DETAIL 3/A-50V.

6. REMOVE ALL UNUSED OR NON-FUNCTIONING SATELLITE DISHES, CABLES AND ANTENNAS. REMOVE, STORE, AND REINSTALL FUNCTIONING AND IN-USE SATELLITE DISHES, CABLES AND ANTENNAS; ASSUME 70% OF SATELLITE DISHES, CABLES, AND ANTENNAS ARE FUNCTIONING. COORDINATE WITH DIRECTOR'S REPRESENTATIVE. PATCH VOID PER DETAIL 3/A-501.

7. REMOVE EXISTING WINDOW-MOUNTED AC UNITS AND TURN OVER TO FACILITY, COORDINATE THIS WORK WITH THE DIRECTOR'S REPRESENTATIVE.

8. REMOVE AND REPLACE STEEL LINTELS ABOVE WINDOWS AT UP TO 50% OF THE WINDOW OPENINGS. SEE 11/A-607.



SET DISHES QUANTITY: 3.
AC UNITS QUANTITY: 1.
CABLE LENGHT: 450 LF.

ESTIMATED QUANTITIES ARE FOR BID PURPOSES ONLY AND ARE APPROXIMATE.

KEY PLAN

2
A-20/ ELEVATION G
SCALE: 3/16" = 1'-0"

REVISÉD DRAWING 04/28/2026

SHEET 27 OF 53



CONSULTANT

FPM ENGINEERING & GEOLOGY, P.C.

CERTIFICATE OF AUTHORIZATION: #0019166

DESIGN CONSULTANT

RZAPS

RICARDO ZURITA ARCHITECTURE & PLANNING, P.C.



UNIFORM CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY,
UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE
PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT,
ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT
FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE
NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS
AND IS A CLASS 'A' MISDEMEANOR.



CONTRACT:

CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIOR
MASONRY REPAIRS,
BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT: NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

(1)	04/28/2026	ADDENDUM #4
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	M3167-C	
DESIGNED BY:	RZAPS	
DRAWN BY:	RZAPS	
FIELD CHECK:		
APPROVED:	RZ	

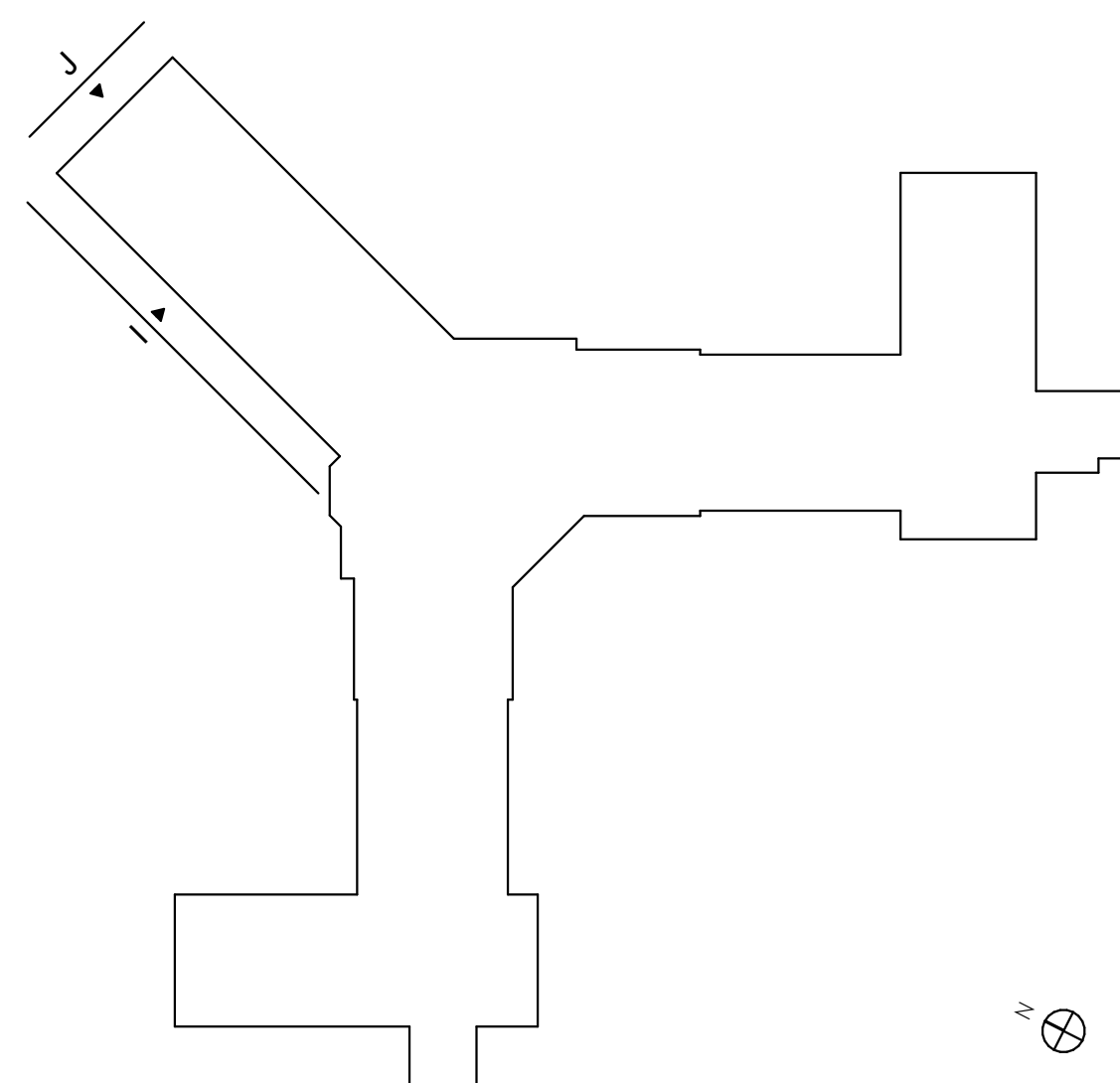
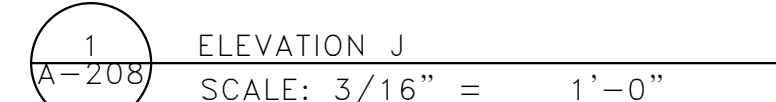
SHEET TITLE:

BLDG 37 - EXTERIOR
ELEVATIONS J & I

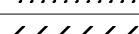
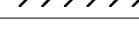
DRAWING NUMBER:

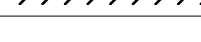
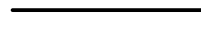
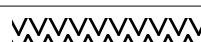
A-208

SHEET 28 OF 53



KEY PLAN

BLDG 37 (DAVIS) — REPAIR & CLEANING LEGEND — ELEVATION J				
SYMBOL	CODE	TREATMENT	DETAIL	QUANTITY
	B01	REPLACE AND STITCH IN MASONRY	A-501/1-2-4	—
	B02	RAKE & REPOINT FACE MASONRY	A-501/5-6	149 SQ FT
	B04	STITCH STEP CRACK AT MORTAR JOINTS	A-501/4	7 LF
	B03	EFFLORESCENCE REMOVAL	N/A	189 SQ FT
	B05	BLACK STAIN REMOVAL	N/A	138 SQ FT

BLDG 37 (DAVIS) – REPAIR & CLEANING LEGEND – ELEVATION I				
SYMBOL	CODE	TREATMENT	DETAIL	QUANTITY
	B01	REPLACE AND STITCH IN MASONRY	A-501/1-2-4	—
	B03	RAKE & REPOINT FACE MASONRY	A-501/5-6	86 SQ FT
	B04	STITCH STEP CRACK AT MORTAR JOINTS	A-501/4	35 LF
	B05	EFFLORESCENCE REMOVAL	N/A	317 SQ FT
	B06	BLACK STAIN REMOVAL	N/A	210 SQ FT

BLDG 37 (DAVIS) - EXTERIOR SCOPE OF WORK

1. IN ADDITION TO MASONRY REPAIR QUANTITIES INDICATED ON DRAWINGS, PROVIDE UP TO 500SF OF BRICK REPOINTING AND UP TO 200SF OF BRICK REPLACEMENTS AT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE DIRECTOR'S REPRESENTATIVE.

2. PROVIDE MASONRY CLEANING FULL HEIGHT AT ALL BRICK FACADES OF THE BUILDING TO REMOVE DIRT STAINS, MILDEW, EFFLORESCENCE AND DISCOLORATION INCLUDING DORMERS, PARAPETS, SERVICE AREA RETAINING WALLS AND EXPOSED FOUNDATIONS.

3. REPOINT MORTAR JOINTS AT ALL STONE COPINGS, ALL STONE INLAYS AND ALL ORNAMENTAL STONEMWORK AT TOP OF ROOFS AND DORMERS.

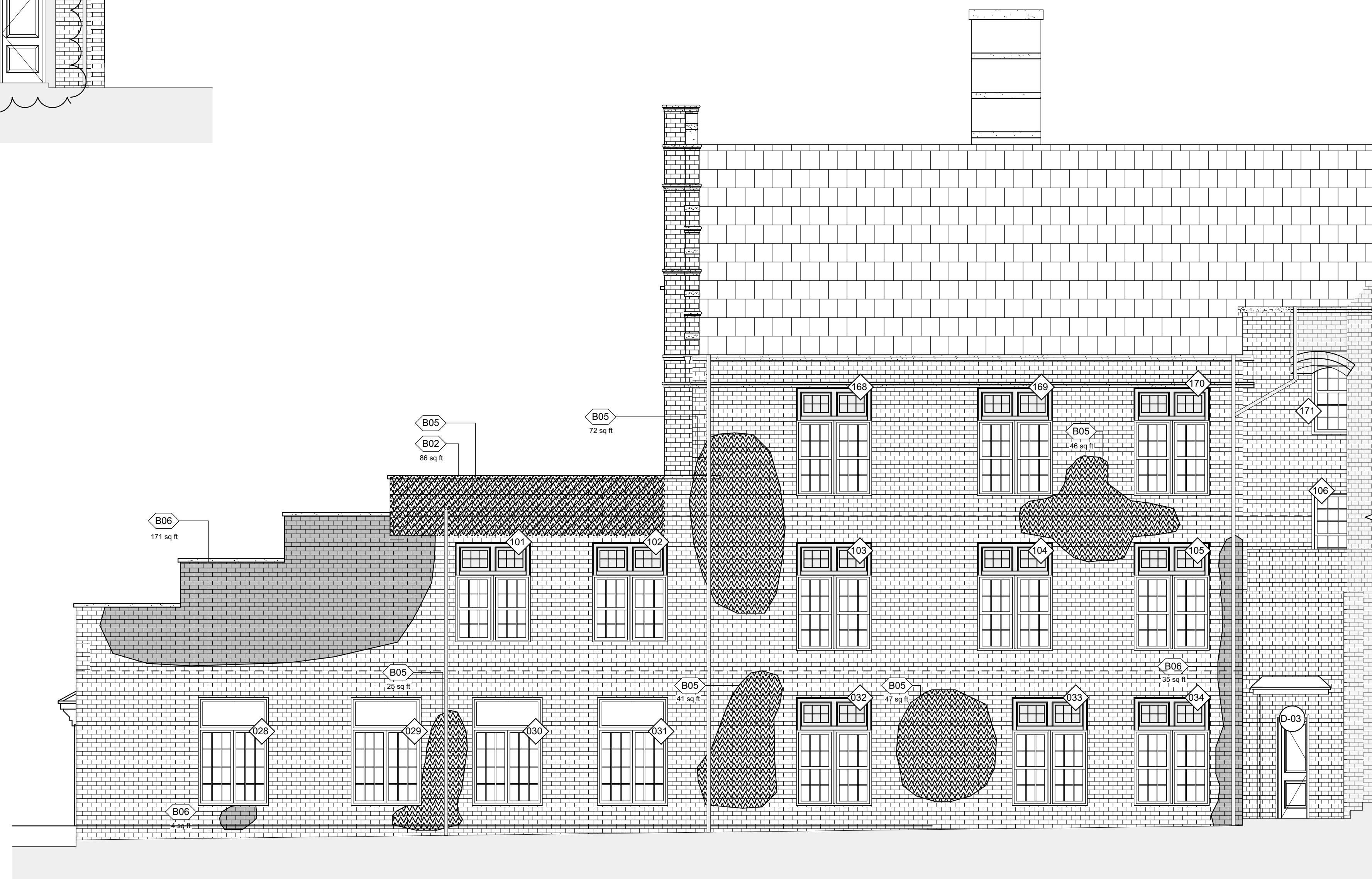
4. CLEAN ALL EXISTING STONE FACADES TO REMOVE DIRT, STAINING, AND DISCOLORATION, INCLUDING ANY STONE AREAS AFFECTED BY THE WORK.

5. REMOVE ALL ABANDONED ANCHORS AND PATCH VOID PER
DETAIL 3/A-501.

6. REMOVE ALL UNUSED OR NON-FUNCTIONING SATELLITE DISHES, CABLES AND ANTENNAS. REMOVE, STORE, AND REINSTALL FUNCTIONING AND IN-USE SATELLITE DISHES, CABLES AND ANTENNAS; ASSUME 70% OF SATELLITE DISHES, CABLES, AND ANTENNAS ARE FUNCTIONING. COORDINATE WITH DIRECTOR'S REPRESENTATIVE. PATCH VOID PER DETAIL 3/A-501.

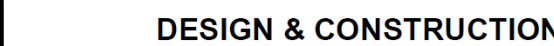
7. REMOVE EXISTING WINDOW-MOUNTED AC UNITS AND TURN OVER TO FACILITY. COORDINATE THIS WORK WITH THE DIRECTOR'S REPRESENTATIVE.

8. REMOVE AND REPLACE STEEL LINTELS ABOVE WINDOWS AT UP TO 50% OF THE WINDOW OPENINGS. SEE 11/A-607.



2
A-208 ELEVATION 1
SCALE: 3/16" = 1'-0"

REVISÉD DRAWING 04/28/2026



CONSULTAN

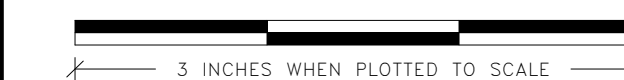
FPM ENGINEERING & GEOLOGY, P.C.

CERTIFICATE OF AUTHORIZATION: #0019166

DESIGN CONSULTANT

RZAPS

RICARDO ZURITA ARCHITECTURE & PLANNING, P.C.



UNIFORM CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY,
UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE
PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT,
ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT
FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE
NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS
AND IS A CLASS 'A' MISDEMEANOR.



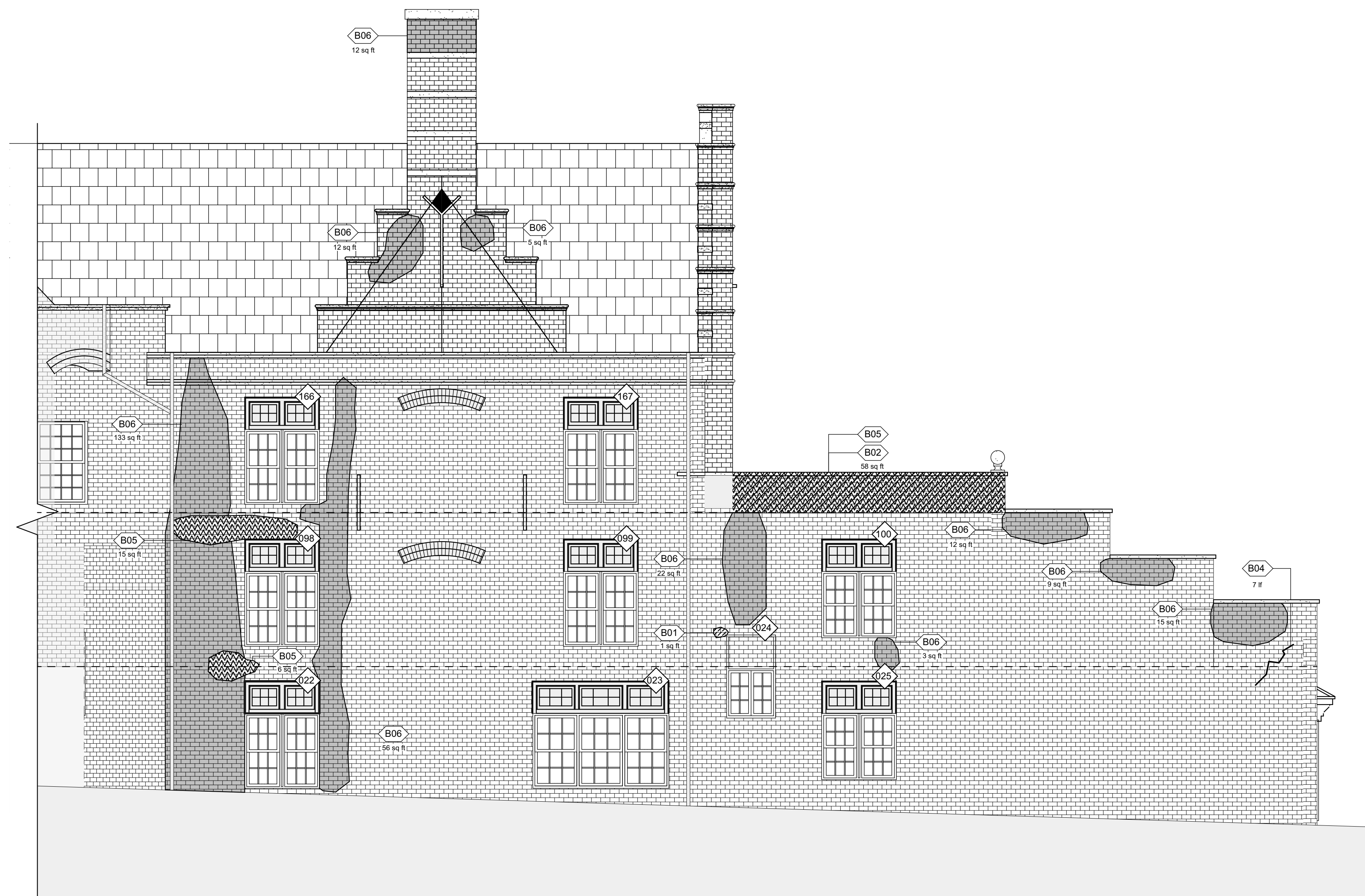
CONTRACT

CONSTRUCTION

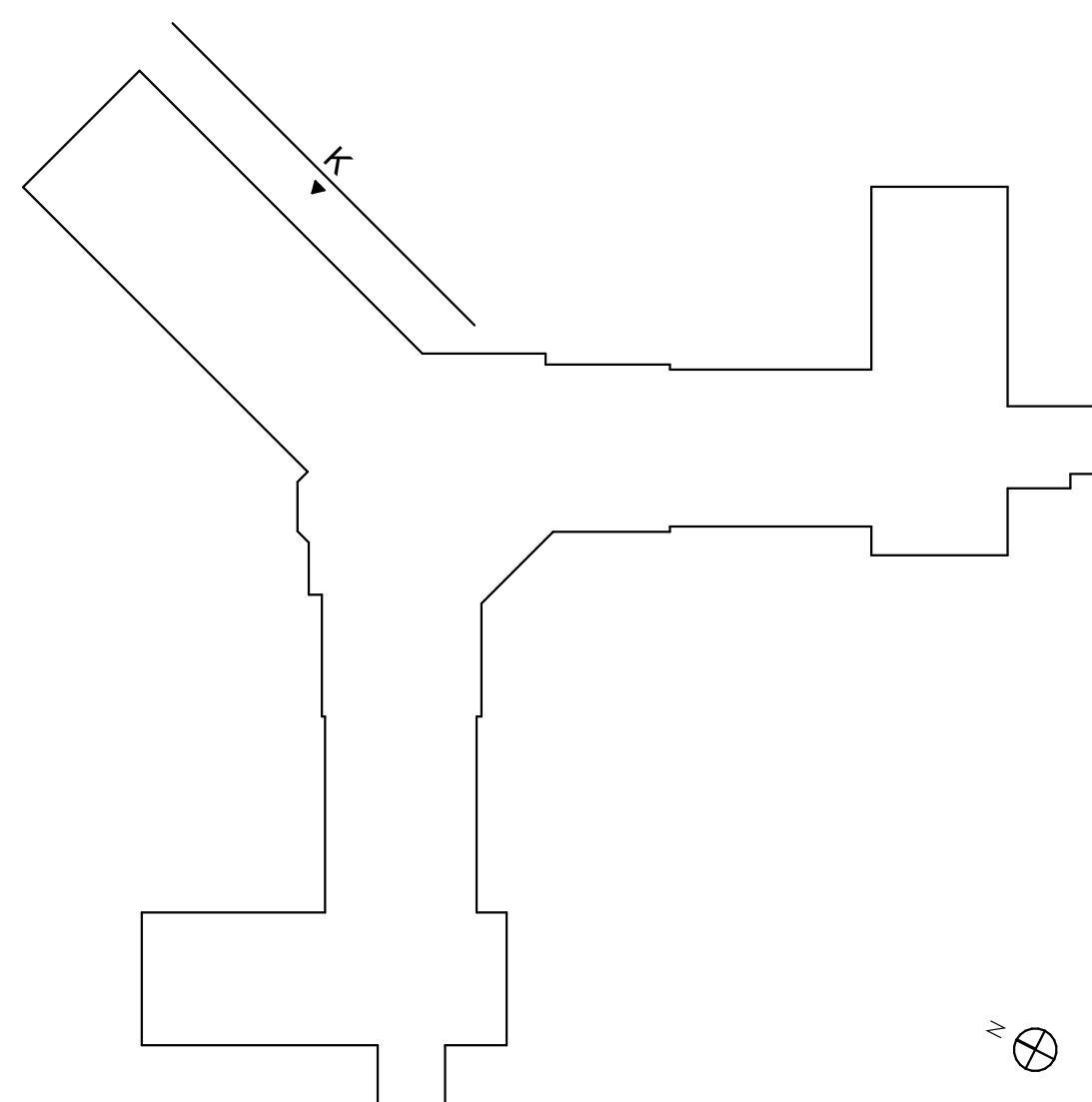
TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIO
MASONRY REPAIRS,
BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT: NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION



1
A-209 ELEVATION K
SCALE: 3/16" = 1'-0"



KEY PLAN

BLDG 37 (DAVIS) — REPAIR & CLEANING LEGEND — ELEVATION K				
SYMBOL	CODE	TREATMENT	DETAIL	QUANTITY
	B01	REPLACE AND STITCH IN MASONRY	A-501/1-2-4	1 SQ FT
	B03	RAKE & REPOINT FACE MASONRY	A-501/5-6	58 SQ FT
	B04	STITCH STEP CRACK AT MORTAR JOINTS	A-501/4	7 LF
	B05	EFFLORESCENCE REMOVAL	N/A	79 SQ FT
	B06	BLACK STAIN REMOVAL	N/A	279 SQ FT

BLDG 37 (DAVIS) - EXTERIOR SCOPE OF WORK

1. IN ADDITION TO MASONRY REPAIR QUANTITIES INDICATED ON DRAWINGS, PROVIDE UP TO 500SF OF BRICK REPOINTING AND UP TO 200SF OF BRICK REPLACEMENTS AT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE DIRECTOR'S REPRESENTATIVE.

2. PROVIDE MASONRY CLEANING FULL HEIGHT AT ALL BRICK FACADES OF THE BUILDING TO REMOVE DIRT STAINS, MILDEW, EFFLORESCENCE AND DISCOLORATION INCLUDING DORMERS, PARAPETS, SERVICE AREA RETAINING WALLS AND EXPOSED FOUNDATIONS.

3. REPOINT MORTAR JOINTS AT ALL STONE COPINGS, ALL STONE INLAIS AND ALL ORNAMENTAL STONEMWORK AT TOP OF ROOFS AND DORMERS.

4. CLEAN ALL EXISTING STONE FACADES TO REMOVE DIRT, STAINING, AND DISCOLORATION, INCLUDING ANY STONE AREAS AFFECTED BY THE WORK.

5. REMOVE ALL ABANDONED ANCHORS AND PATCH VOID PER
DETAIL 3/A-501

6. REMOVE ALL UNUSED OR NON-FUNCTIONING SATELLITE DISHES, CABLES AND ANTENNAS. REMOVE, STORE, AND REINSTALL FUNCTIONING AND IN-USE SATELLITE DISHES, CABLES AND ANTENNAS; ASSUME 70% OF SATELLITE DISHES, CABLES, AND ANTENNAS ARE FUNCTIONING. COORDINATE WITH DIRECTOR'S REPRESENTATIVE. PATCH VOID PER DETAIL 3/A-501.

7. REMOVE EXISTING WINDOW-MOUNTED AC UNITS AND TURN OVER TO FACILITY. COORDINATE THIS WORK WITH THE DIRECTOR'S REPRESENTATIVE.

8. REMOVE AND REPLACE STEEL LINTELS ABOVE WINDOWS AT UP TO 50% OF THE WINDOW OPENINGS. SEE 11/A-607.



AC UNITS QUANTITY: 2.
CABLE LENGTH: 100 LF.

ESTIMATED QUANTITIES ARE FOR BID PURPOSES ONLY AND ARE APPROXIMATE.

REVISD DRAWING 04/28/2026

	04/28/2026	ADDENDUM #4	
MARK	DATE	DESCRIPTION	
PROJECT NUMBER:	M3167-C		
DESIGNED BY:	RZAPS		
DRAWN BY:	RZAPS		
FIELD CHECK:			
APPROVED:	RZ		
SHEET TITLE:			

BLDG 37 - EXTERIOR
ELEVATION K

DRAWING NUMBER

R: A-209

SHEET 29 OF 52



CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIOR MASONRY REPAIRS, BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT:
NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

04/28/2026 APPENDUM #4

MARK DATE DESCRIPTION

PROJECT NUMBER: M3167-C

DESIGNED BY: RZAPS

DRAWN BY: RZAPS

FIELD CHECK:

APPROVED: RZ

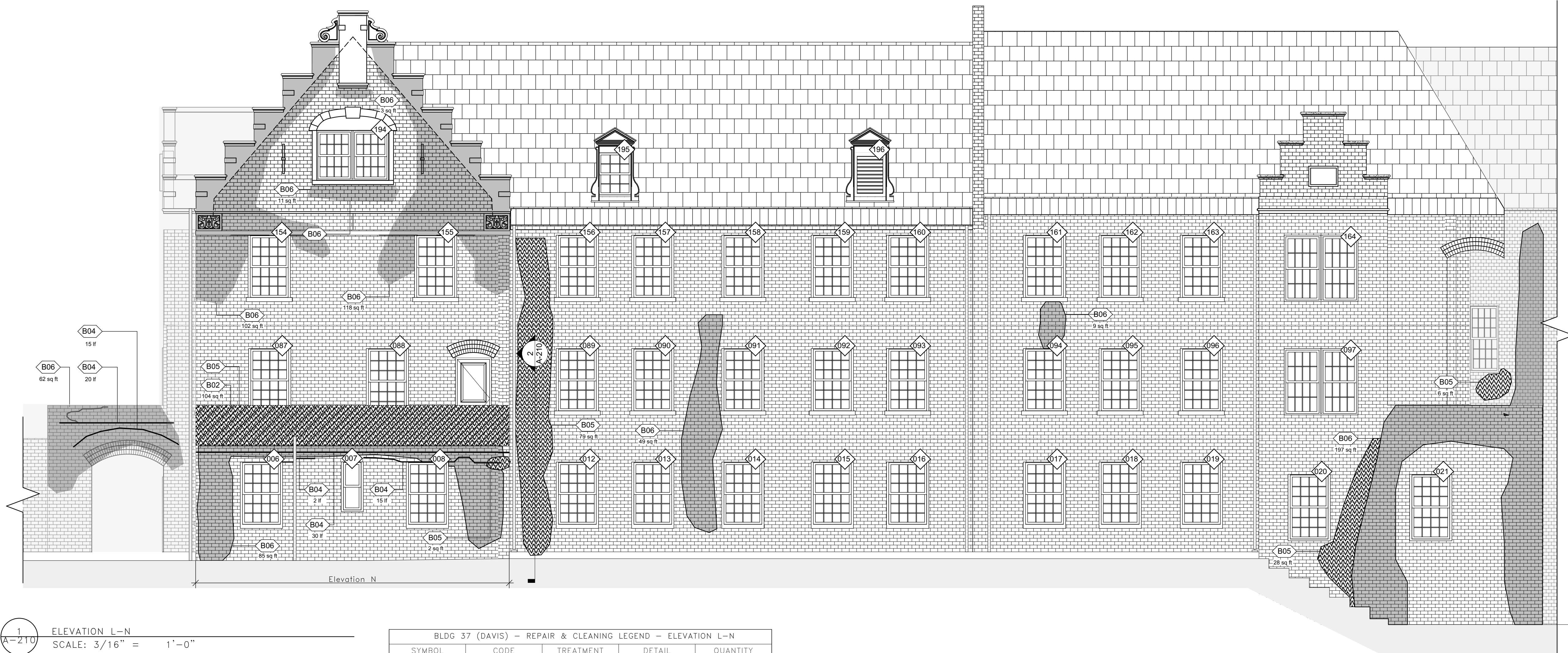
SHEET TITLE:

BLDG 37 - EXTERIOR
ELEVATION L-N & M

DRAWING NUMBER:

A-210

SHEET 30 OF 53



1
A-210

ELEVATION L-N

SCALE: 3/16" = 1'-0"

BLDG 37 (DAVIS) - REPAIR & CLEANING LEGEND - ELEVATION L-N				
SYMBOL	CODE	TREATMENT	DETAIL	QUANTITY
	B01	REPLACE AND STITCH IN MASONRY	A-501/1-2-4	-
	B02	RAKE & REPOINT FACE MASONRY	A-501/5-6	104 SQ FT
	B03	STITCH STEP CRACK AT MORTAR JOINTS	A-501/4	82 LF
	B05	EFFLORESCENCE REMOVAL	N/A	217 SQ FT
	B06	BLACK STAIN REMOVAL	N/A	636 SQ FT

BLDG 37 (DAVIS) - REPAIR & CLEANING LEGEND - ELEVATION M				
SYMBOL	CODE	TREATMENT	DETAIL	QUANTITY
	B01	REPLACE AND STITCH IN MASONRY	A-501/1-2-4	-
	B02	RAKE & REPOINT FACE MASONRY	A-501/5-6	143 SQ FT
	B03	STITCH STEP CRACK AT MORTAR JOINTS	A-501/4	20 LF
	B05	EFFLORESCENCE REMOVAL	N/A	175 SQ FT
	B06	BLACK STAIN REMOVAL	N/A	47 SQ FT

BLDG 37 (DAVIS) - EXTERIOR SCOPE OF WORK

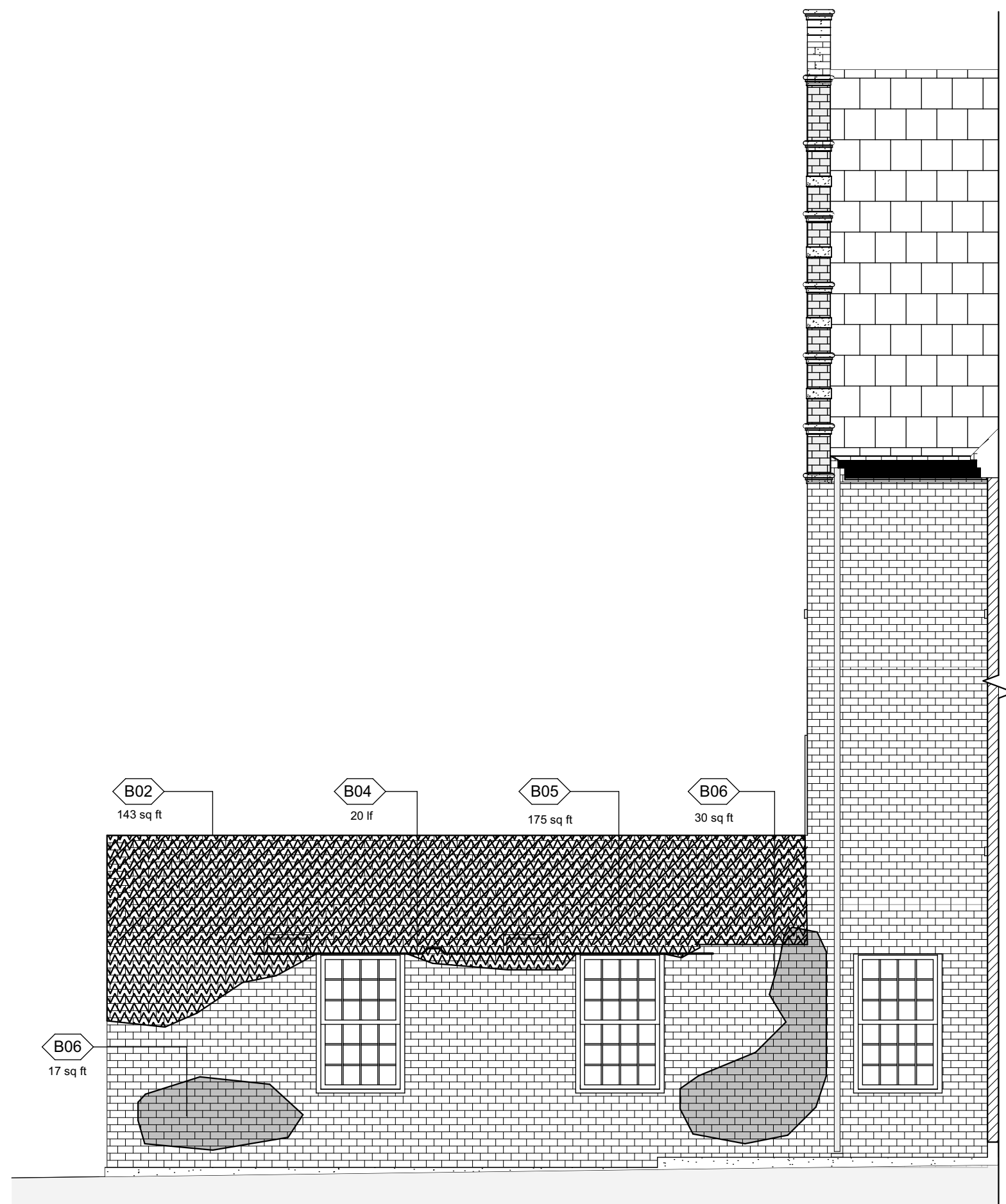
1. IN ADDITION TO MASONRY REPAIR QUANTITIES INDICATED ON DRAWINGS, PROVIDE UP TO 500SF OF BRICK REPOINTING AND UP TO 200SF OF BRICK REPLACEMENTS AT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE DIRECTOR'S REPRESENTATIVE.
2. PROVIDE MASONRY CLEANING FULL HEIGHT AT ALL BRICK FACADES OF THE BUILDING TO REMOVE DIRT STAINS, MILDEW, EFFLORESCENCE AND DISCOLORATION INCLUDING DORMERS, PARAPETS, SERVICE AREA RETAINING WALLS AND EXPOSED FOUNDATIONS.
3. REPOINT MORTAR JOINTS AT ALL STONE COPINGS, ALL STONE INLAIS AND ALL ORNAMENTAL STONWORK AT TOP OF ROOFS AND DORMERS.
4. CLEAN ALL EXISTING STONE FACADES TO REMOVE DIRT, STAINING, AND DISCOLORATION, INCLUDING ANY STONE AREAS AFFECTED BY THE WORK.
5. REMOVE ALL ABANDONED ANCHORS AND PATCH VOID PER DETAIL 3/A-501.
6. REMOVE ALL UNUSED OR NON-FUNCTIONING SATELLITE DISHES, CABLES AND ANTENNAS. REMOVE, STORE, AND REINSTALL FUNCTIONING AND IN-USE SATELLITE DISHES, CABLES AND ANTENNAS. ASSUME 70% OF SATELLITE DISHES, CABLES, AND ANTENNAS ARE FUNCTIONING. COORDINATE WITH DIRECTOR'S REPRESENTATIVE. PATCH VOID PER DETAIL 3/A-501.
7. REMOVE EXISTING WINDOW-MOUNTED AC UNITS AND TURN OVER TO FACILITY. COORDINATE THIS WORK WITH THE DIRECTOR'S REPRESENTATIVE.
8. REMOVE AND REPLACE STEEL LINTELS ABOVE WINDOWS AT UP TO 50% OF THE WINDOW OPENINGS. SEE 11/A-607.



SET DISHES QUANTITY: 1.
AC UNITS QUANTITY: 1.
CABLE LENGTH: 200 LF.
ESTIMATED QUANTITIES ARE FOR BID PURPOSES ONLY AND ARE APPROXIMATE.



SET DISHES QUANTITY: 2.
AC UNITS QUANTITY: 17.
CABLE LENGTH: 450 LF.
ESTIMATED QUANTITIES ARE FOR BID PURPOSES ONLY AND ARE APPROXIMATE.



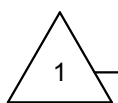
2
A-210

ELEVATION M

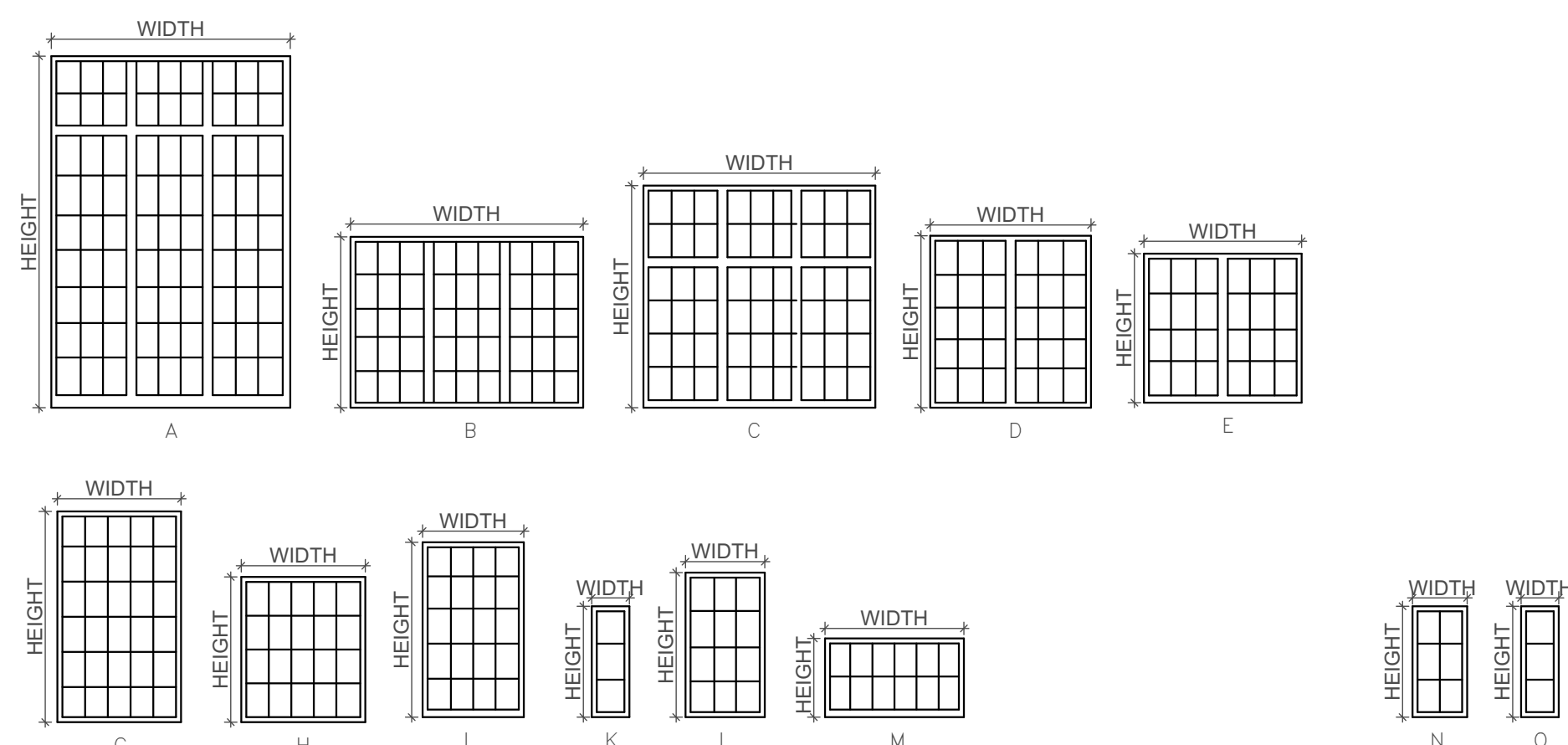
SCALE: 3/16" = 1'-0"

REVISED DRAWING 04/28/2026

KEY PLAN

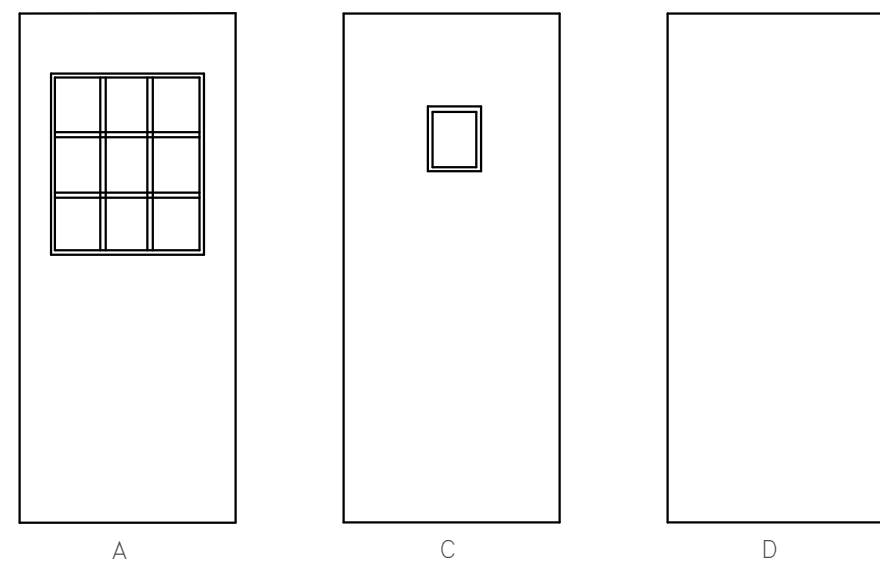


NOTE: PROVIDE TEMPORARY BARRIERS FOR ALL WINDOWS WITHIN THE SCOPE OF WORK SEE A 605/4&5



3
A-601 DOCCS STANDARD TYPE 4
SCALE: 3/8" = 1'-0"

HARDWARE SET 2: FOR DOUBLE DOOR
 - LOCKSET WITH LEVER: SCHAFF 19050 SERIES MORTISE LOCK, 32D SATIN STAINLESS STEEL
 - HINGES: 4" ABH 4500 TORX 32D SATIN STAINLESS STEEL
 - SURFACE CLOSER: LCN 4040XP REC MC SR1 689
 - OVERHEAD STOP AND HOLDER, GLYNN-JOHNSON 814S 32D
 - DOOR GASKETING, NATIONAL GUARD 700NA
 - WEATHERSTRIPPING, NATIONAL GUARD 120NA TORX
 - SILENCERS
 - ADA THRESHOLD, NATIONAL GUARD 950N
 - AUTOMATIC FLUSH BOLTS, IVES F84D 32D
 - COORDINATOR, IVES COR 52" W/FL 20" 32D



2 BLDG 19 - DOOR TYPE
A-601 SCALE: 3/8" = 1'-0"



CONSULTAN

FPM ENGINEERING & GEOLOGY, P.C

CERTIFICATE OF AUTHORIZATION: #0019166

DESIGN CONSULTANT

RZAPS

RICARDO ZURITA ARCHITECTURE & PLANNING, P.C.



UNIFORM CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY,
UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE
PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT,
ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT
FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE
NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS
AND IS A CLASS 'A' MISDEMEANOR.



CONTRACT:

CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIO
MASONRY REPAIRS,
BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT: NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

	04/28/2026	ADDENDUM #4
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	M3167-C	
DESIGNED BY:	RZAPS	
DRAWN BY:	RZAPS	
FIELD CHECK:		
APPROVED:	RZ	

SHEET TITLE

BLDG 19 - WINDOW/
DOOR SCHEDULES AND
TYPES

DRAWING NUMBER

A-601



UNIFORM CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.



CONTRACT:

CONSTRUCTION

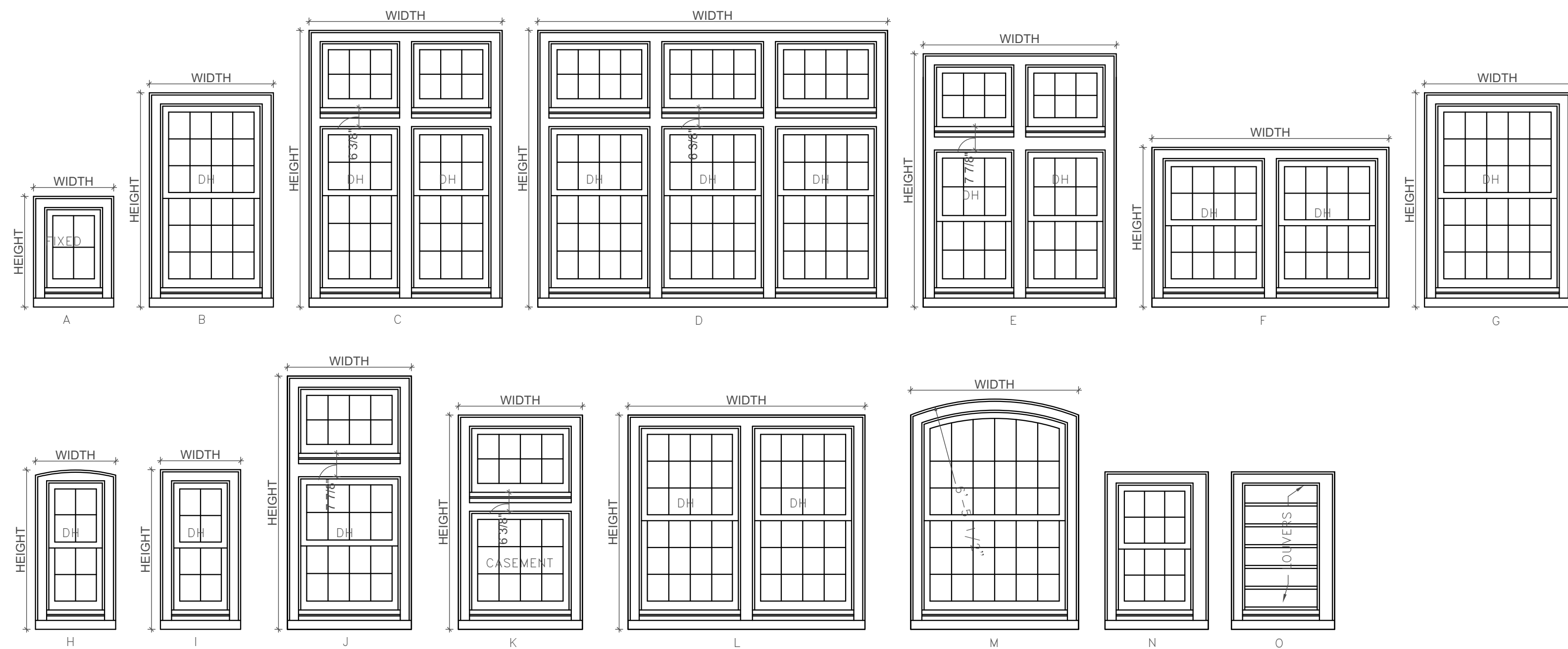
TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIOR MASONRY REPAIRS, BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT:
NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

1	04/28/2026	ADDENDUM #4
MARK	DATE	DESCRIPTION
PROJECT NUMBER:	M3167-C	
DESIGNED BY:	RZAPS	
DRAWN BY:	RZAPS	
FIELD CHECK:		
APPROVED:	RZ	
SHEET TITLE:		

BLDG 37 - DOOR SCHEDULE & WINDOW/DOOR TYPES



DOOR & HARDWARE NOTES

1. REMOVE AND REPLACE DOORS TO MATCH EXISTING. REPAIR DAMAGE AT SURROUNDING TRIM WORK. PROVIDE SEALANT, PAINT FRAMES.
2. ALL LOCK/LATCH SETS TO BE ADA-COMPLIANT LEVER HANDLES.
3. ALL HARDWARE FINISH TO BE SATIN STAINLESS STEEL US32D FINISH, UON.
4. ALL DOORS SHALL BE FURNISHED WITH DOOR HARDWARE, FOR A COMPLETE INSTALLATION. DOOR PULLS SHALL BE PROVIDED ON BOTH SIDES OF DOORS. UON. PROVIDE SCHEDULED DOOR HARDWARE, INCLUDING CLOSERS, TO BOTH LEAVES AT PAIRED DOORS. UON.
5. HINGE QUANTITY AND LOCATIONS SHALL COMPLY WITH HARDWARE MANUFACTURER'S RECOMMENDATIONS, INCLUDING STANDARDS ESTABLISHED BY MANUFACTURERS OF DOORS AND FRAMES. ALL HINGES TO BE FULLY MORTISED, UON.
6. ALL METAL DOORS TO BE 1-3/4" THICK UON ON SCHEDULE OR DETAIL DRAWINGS.
7. ALL DOOR CLOSERS TO BE MOUNTED ON ROOM SIDE, WHERE APPLICABLE.
8. ALL DOOR FRAMES TO RECEIVE SILENCERS (3 MINIMUM).
9. HOLLOW METAL FRAMES TO BE WELDED TYPE 14 GA. HOLLOW METAL DOORS TO BE SEAMLESS, 16 GA. FACE THICKNESS AND REINFORCED TO RECEIVE SCHEDULED HARDWARE, TYP.
10. G.C./C.M. IS RESPONSIBLE TO CONFIRM INTER-COMPATABILITY OF ALL HARDWARE AND FUNCTIONS.
11. ALL WOOD DOORS TO BE CONSTRUCTED TO COMPLY WITH AWI PREMIUM GRADE DESIGNATION. ALL DOORS SHALL BE SOLID CORE. HOLLOW CORES NOT PERMITTED. UON. STILE AND RAIL DOORS TO BE CONSTRUCTED USING SOLID LUMBER. FLUSH DOORS SHALL HAVE PARTICLEBOARD CORE WITH HARDWOOD EDGES BONDED TO CORE AND SANDED PRIOR TO APPLICATION OF VENEER FACES. ALL EDGES TO BE OF SAME SPECIES AS VENEER.
12. ALL UNDERCUTS AT NON-ACOUSTICAL DOORS TO BE 3/4" UON.
13. ALL SURFACE MOUNTED HARDWARE (CLOSERS, DOOR HOLDERS, ASTRAGALS, ETC.) ON DOORS SHALL BE FASTENED WITH CONCEALED FASTENERS. THRU-BOLTS WITH EXPOSED FASTENERS ON OPPOSITE FACE OF DOOR ARE NOT ACCEPTABLE.
14. PROVIDE FLOOR KEYING, MASTER KEYING AND GRANDMASTER KEYING CONFIGURATION. COORDINATE WITH TENANT AND BUILDING MANAGEMENT FOR KEYING REQUIREMENTS, INCLUDING DOOR CYLINDER REQUIREMENTS.
15. WHERE OCCURS, ALL GLASS AT DOOR VISION LITES, SIDE LITES AND BORROWED LITES SHALL BE 3/8" THICK, CLEAR TEMPERED GLASS WITH NEOPRENE GASKETS UON.
16. G.C./C.M. IS RESPONSIBLE TO PROVIDE ALL DOORS IN THE DIRECTION OF SWING AS SHOWN ON FLOOR PLANS, UON.
17. G.C./C.M. IS RESPONSIBLE TO VERIFY AND CONFIRM ALL QUANTITIES.
18. ALL HARDWARE MOUNTED ON DOOR EDGES SHALL BE FULLY MORTISED UON.

WINDOW & HARDWARE NOTES

1. REMOVE ALL WINDOWS, LOUVERS AND SCREENS THROUGHOUT.
2. REMOVE AND REPLACE ALL INTERIOR METAL WINDOW SILLS TO MATCH EXISTING APPEARANCE AND PROFILE.
3. REPLACE OR CLEAN EXTERIOR SILL AS PER A-201 & A-202. SEE DETAILS 12&13/A-607.
4. MODIFY AND REPAIR SURROUNDING BRICK JAMBS AND PROVIDE SEALANT AT WINDOW PERIMETERS.
5. PATCH AND PAINT INTERIOR PLASTER JAMBS, HEADS AND SURROUNDING WALLS AROUND WINDOWS FOR THE FULL LENGTH OF THE WINDOW WALL TO EXTEND TO THE CORNER OF EACH ROOM.
6. PROVIDE STEEL SECURITY ANCHORAGE INTO THE MASONRY WALLS.
7. SEE ABATEMENT DRAWINGS H-101/H-104 FOR ABATEMENT SCOPE OF WORK.

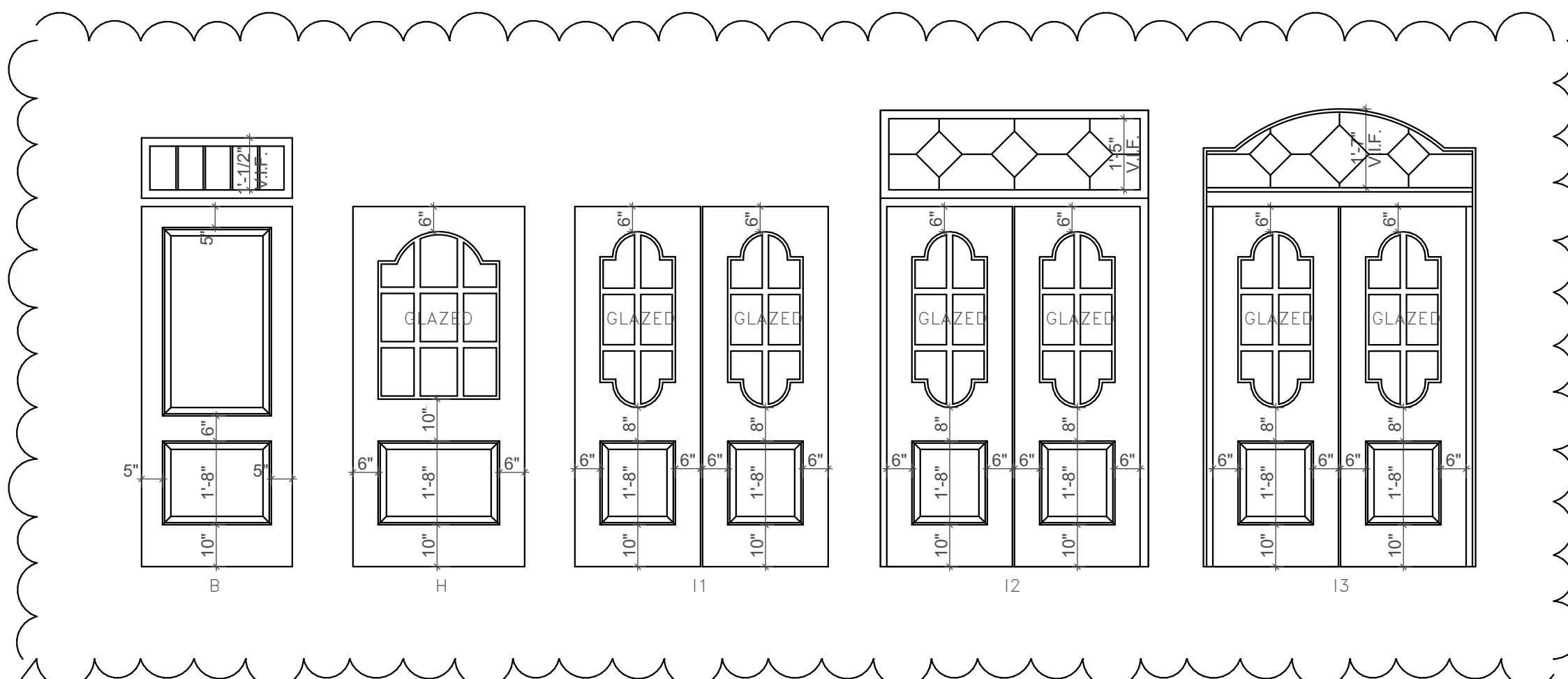
1 BLDG 37 - WINDOW TYPE
A-604 SCALE: 3/8" = 1'-0"

BLDG 37 (DAVIS) – DOOR SCHEDULE								
ID	TYPE	DESCRIPTION	DOOR SIZE		MATERIAL	FINISH	REMARKS	HARDWARE SET
			NOMINAL WIDTH	NOMINAL HEIGHT				
B.37 – 1ST FL								
D-01	H	SINGLE DOOR	3'-0"	6'-8"	WOOD	SHOP PAINTED		1
D-02	I1	DOUBLE DOOR	6'-0"	6'-8"	WOOD	SHOP PAINTED		2
D-03	B	SINGLE DOOR WITH TRANSOM	3'-0"	7'-4"	WOOD	SHOP PAINTED		1
D-04	B	SINGLE DOOR WITH TRANSOM	3'-0"	7'-2"	WOOD	SHOP PAINTED		1
D-05	B	SINGLE DOOR WITH TRANSOM	3'-0"	7'-2"	WOOD	SHOP PAINTED		1
B.37 – 2ND FL								
D-06	I2	DOUBLE DOOR WITH TRANSOM	6'-0"	8'-0"	WOOD	SHOP PAINTED		2
D-07	I3	DOUBLE DOOR WITH TRANSOM	6'-0"	8'-2 7/8"	WOOD	SHOP PAINTED		2
D-08	I2	DOUBLE DOOR WITH TRANSOM	6'-0"	6'-8"	WOOD	SHOP PAINTED		2
1	D-09	SINGLE DOOR	3'-0"	7'-6"	H.M.	SHOP PAINTED	SEE 3-4-5/A-555	1
	D-10	SINGLE DOOR	3'-0"	7'-2 1/2"	H.M.	SHOP PAINTED	SEE 3-4-5/A-555	1
B.37 – 3RD FL								
D-11	–	SINGLE DOOR	3'-0"	7'-2"	H.M.	SHOP PAINTED	SEE 3-4-5/A-555	1
D-12	–	SINGLE DOOR	3'-0"	7'-2"	H.M.	SHOP PAINTED	SEE 3-4-5/A-555	1

HARDWARE SET 1: FOR SINGLE DOOR
- LOCKSET WITH LEVER: SCHLAGE L9050 SERIES MORTISE LOCK, 32D SATIN STAINLESS STEEL
- CONTINUOUS HINGES, ABH A500 SEC-TORX 32D SATIN STAINLESS STEEL
- SURFACE CLOSER, LCN 4040XP REG MC SRI 689
- OVERHEAD STOP AND HOLDER, GLYNN-JOHNSON 814S 32D
- DOOR GASKETING, NATIONAL GUARD 700NA
- WEATHERSTRIPPING, NATIONAL GUARD 220NA TORX
- SILENCERS
- ADA THRESHOLD, NATIONAL GUARD 950N

HARDWARE SET 2: FOR DOUBLE DOOR
- LOCKSET WITH LEVER: SCHLAGE L9050 SERIES MORTISE LOCK, 32D SATIN STAINLESS STEEL
- CONTINUOUS HINGES, ABH A500 SEC-TORX 32D SATIN STAINLESS STEEL
- SURFACE CLOSER, LCN 4040XP REG MC SRI 689
- OVERHEAD STOP AND HOLDER, GLYNN-JOHNSON 814S 32D
- DOOR GASKETING, NATIONAL GUARD 700NA
- WEATHERSTRIPPING, NATIONAL GUARD 220NA TORX
- SILENCERS
- ADA THRESHOLD, NATIONAL GUARD 950N
- AUTOMATIC FLUSH BOLTS, IVES FB42 32D
- COORDINATOR, IVES COR 52" W/FL 20" 32D

2 BLDG 37 - DOOR TYPE
A-604 SCALE: 3/8" = 1'-0"





CONSULTAN

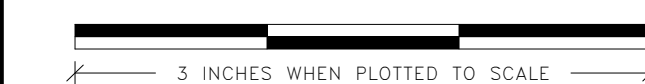
FPM ENGINEERING & GEOLOGY, P.C.

CERTIFICATE OF AUTHORIZATION: #0019166

DESIGN CONSULTANT

RZAPS

RICARDO ZURITA ARCHITECTURE & PLANNING, P.C.



UNIFORM CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATION AND IS A CLASS 'A' MISDEMEANOR.



CONTRACT: CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIO
MASONRY REPAIRS,
BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT: NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

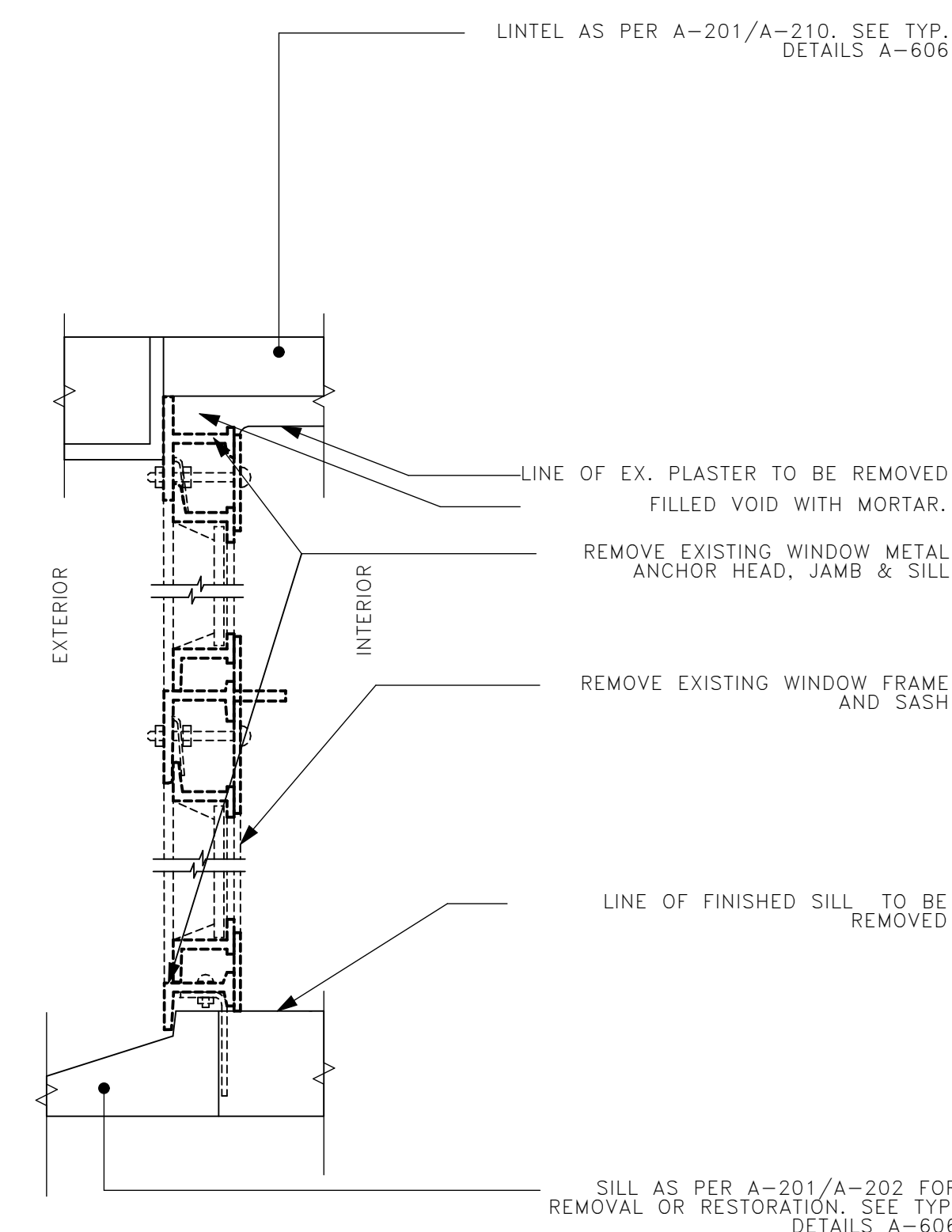
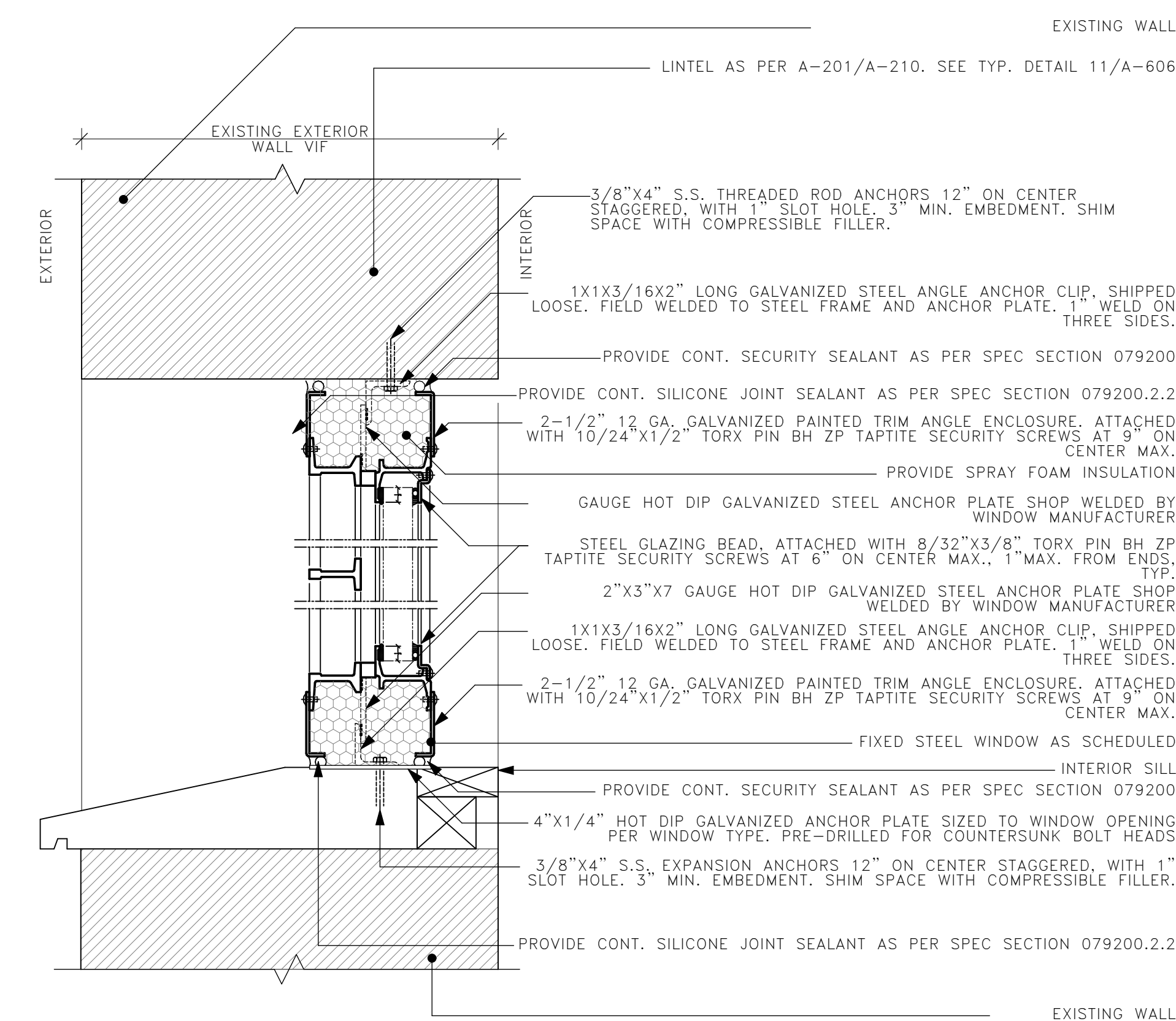
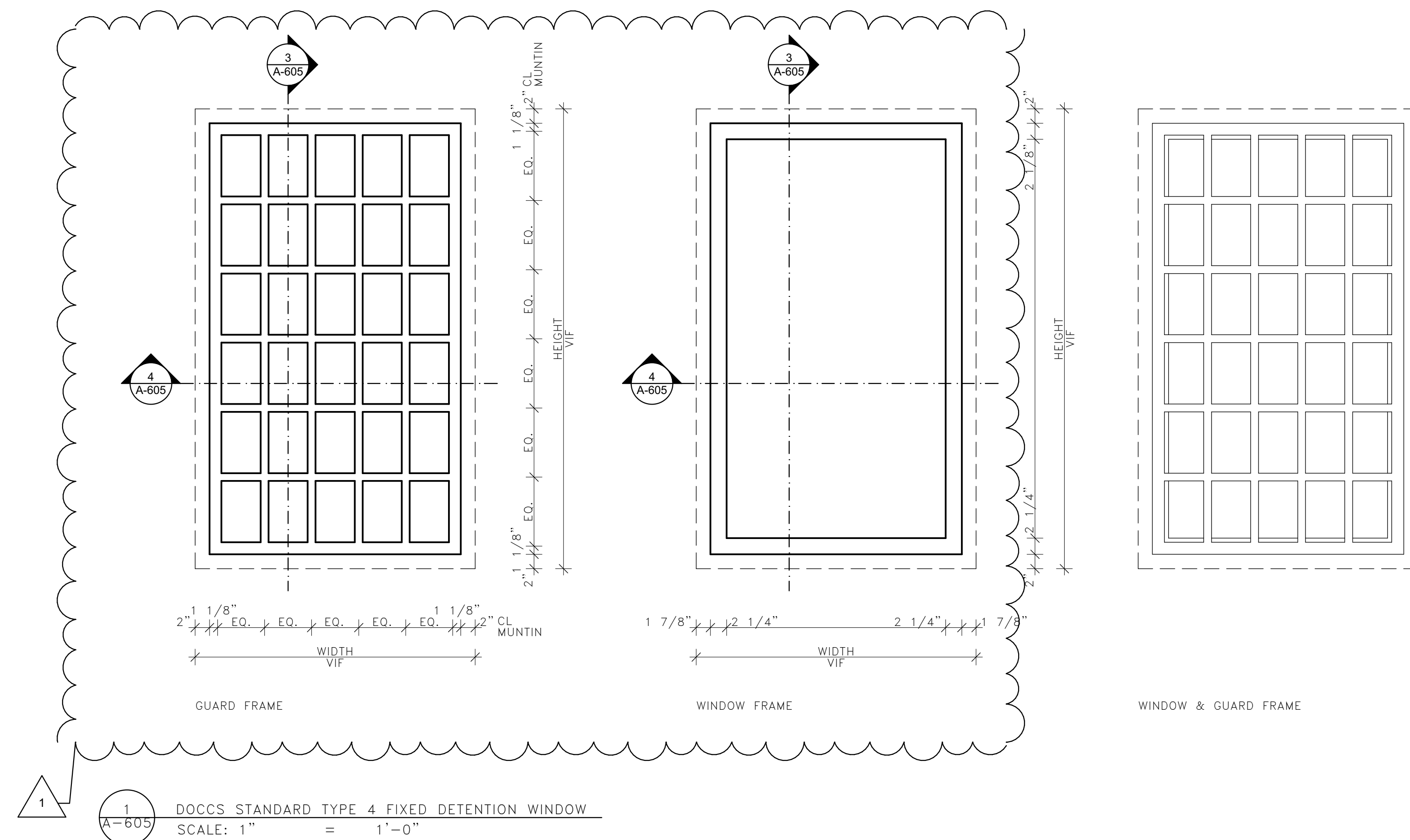
[illegible]

BLDG 19 - WINDOW
REMOVAL & TYPE 4
FIXED WINDOW DETAILS

DRAWING NUMBER

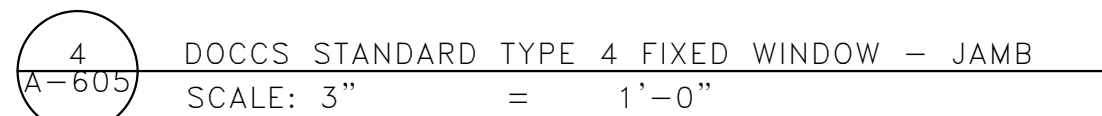
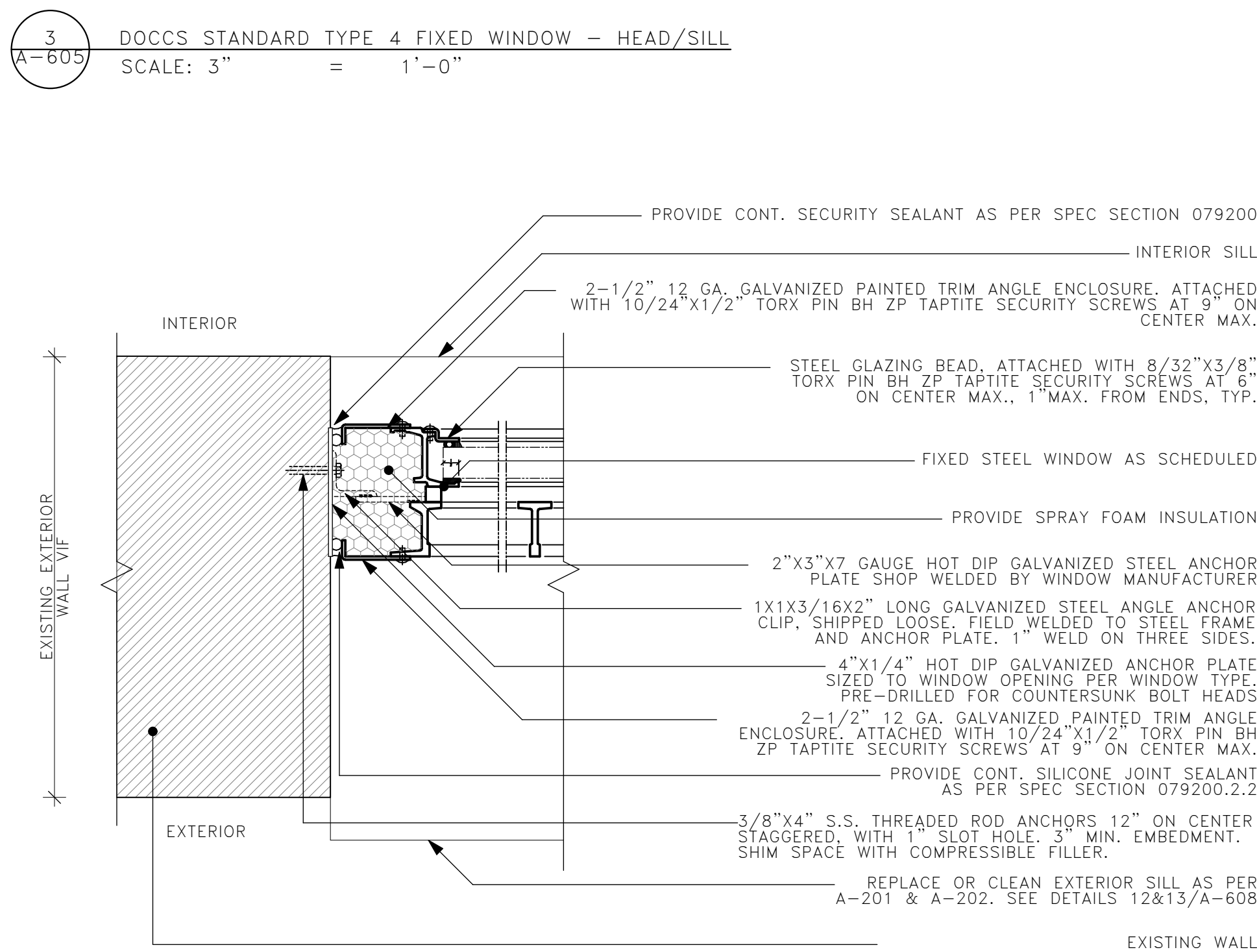
A-605

SHEET 48 OF 50

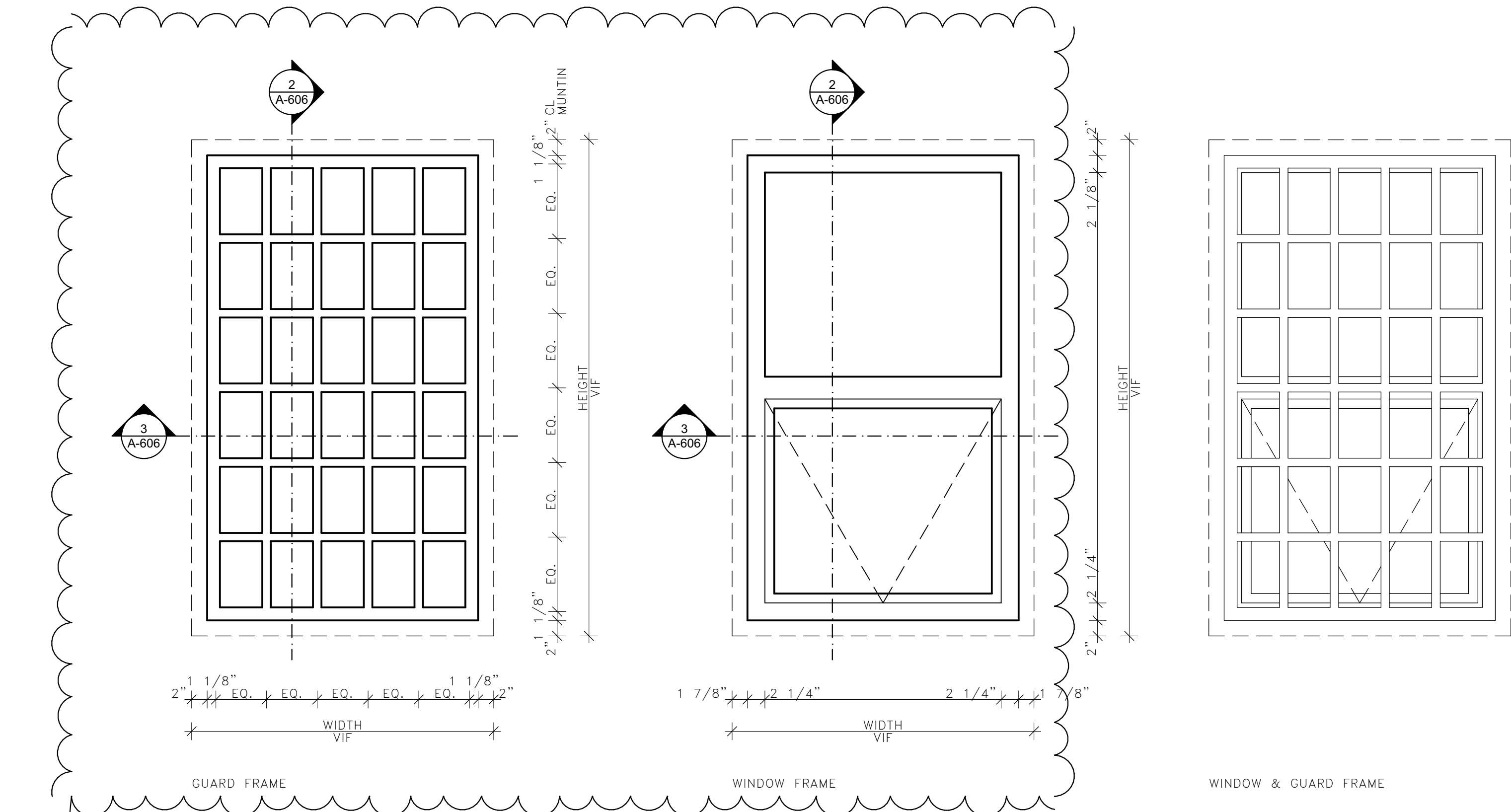


NOTE:

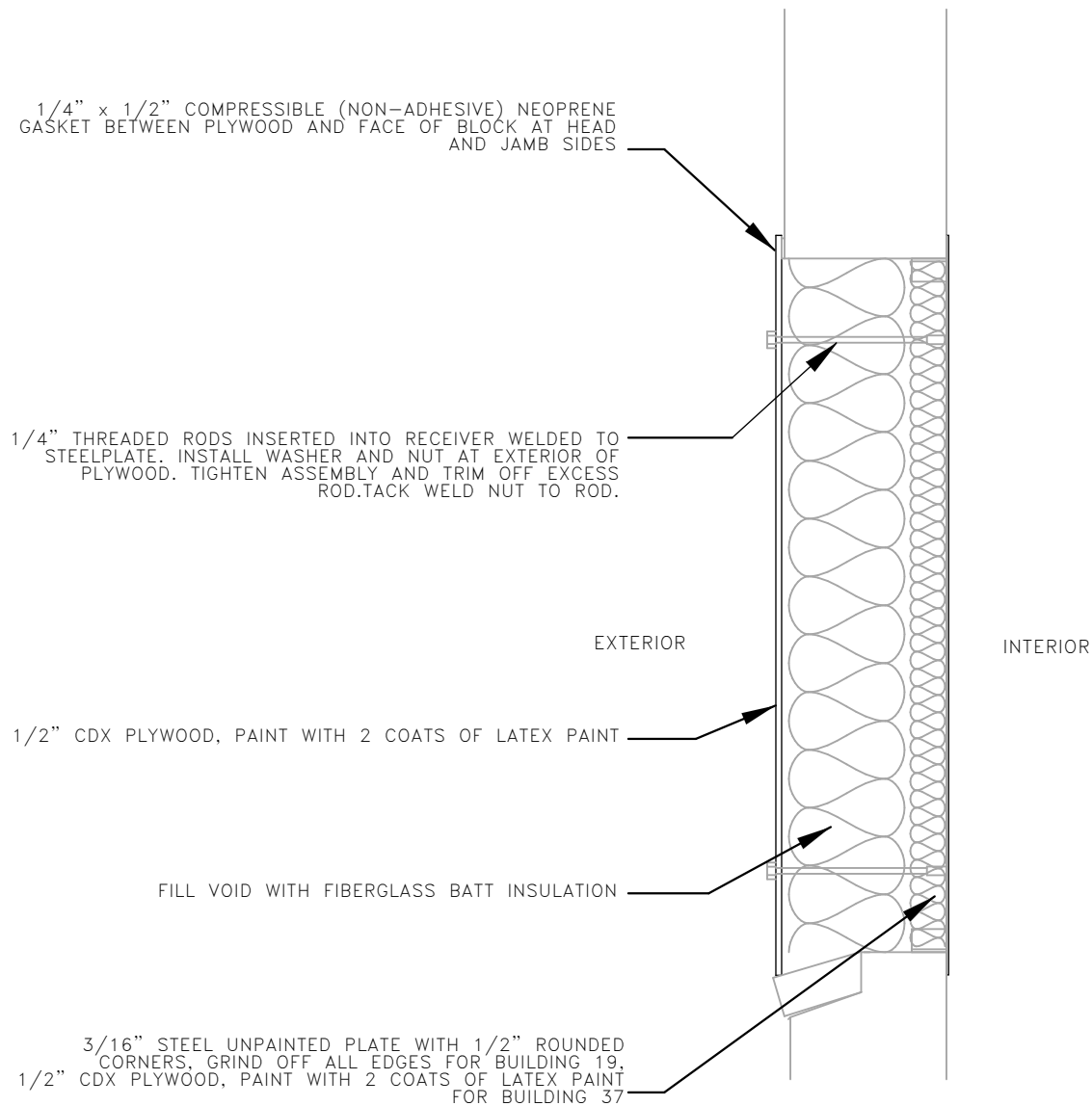
AT ALL WINDOW LOCATIONS, REPAIR, PATCH, OR REPLACE ALL ADJACENT AND AFFECTED BUILDING ELEMENTS, INCLUDING WALL SURFACES, JAMBS, HEADS, SILLS, TRIM, AND SURROUNDING FINISHES THAT ARE DAMAGED DURING REMOVAL OR CONSTRUCTION, TO MATCH EXISTING MATERIALS, PROFILES, AND FINISHES.



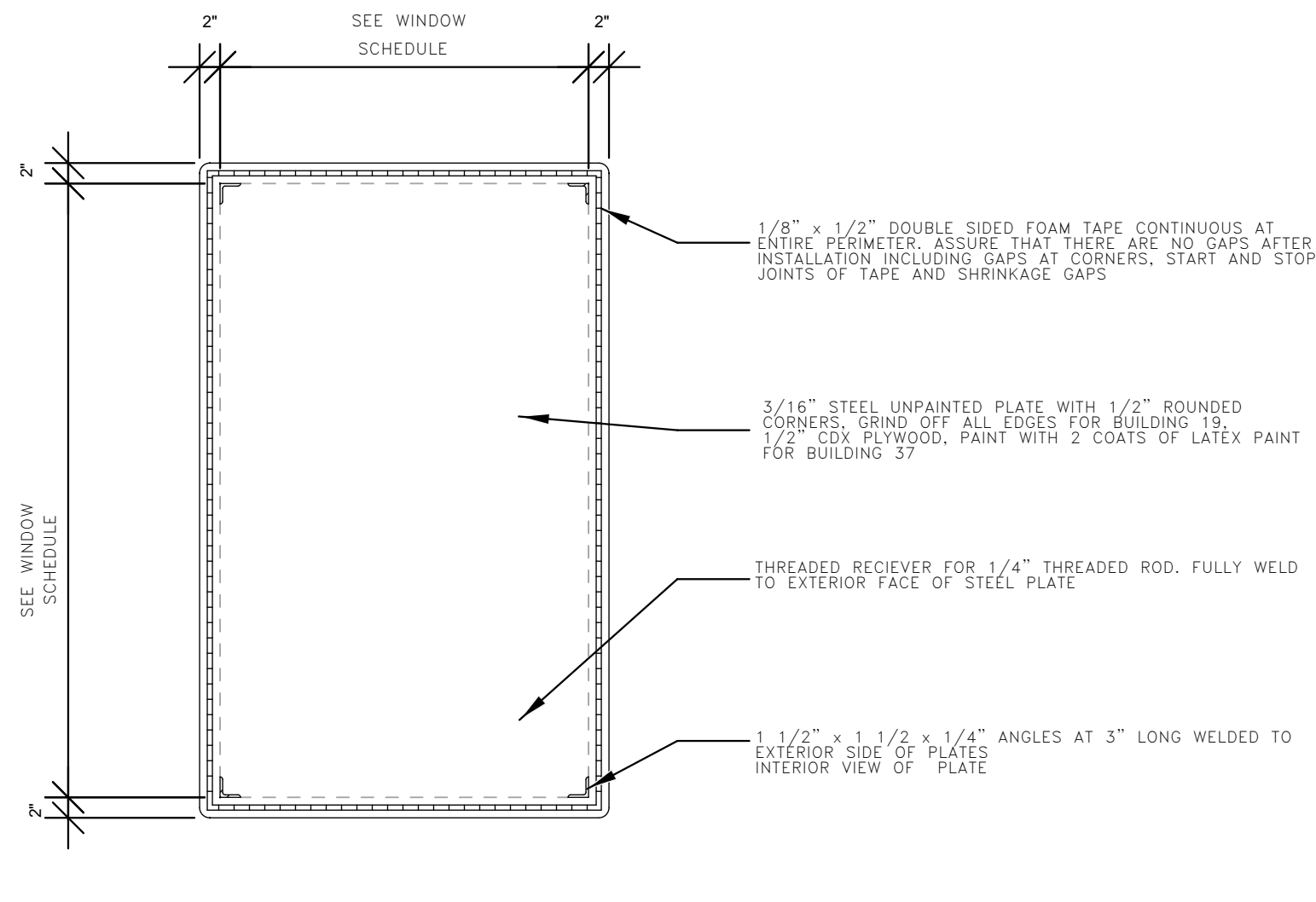
REVISÉD DRAWING 04/28/2026



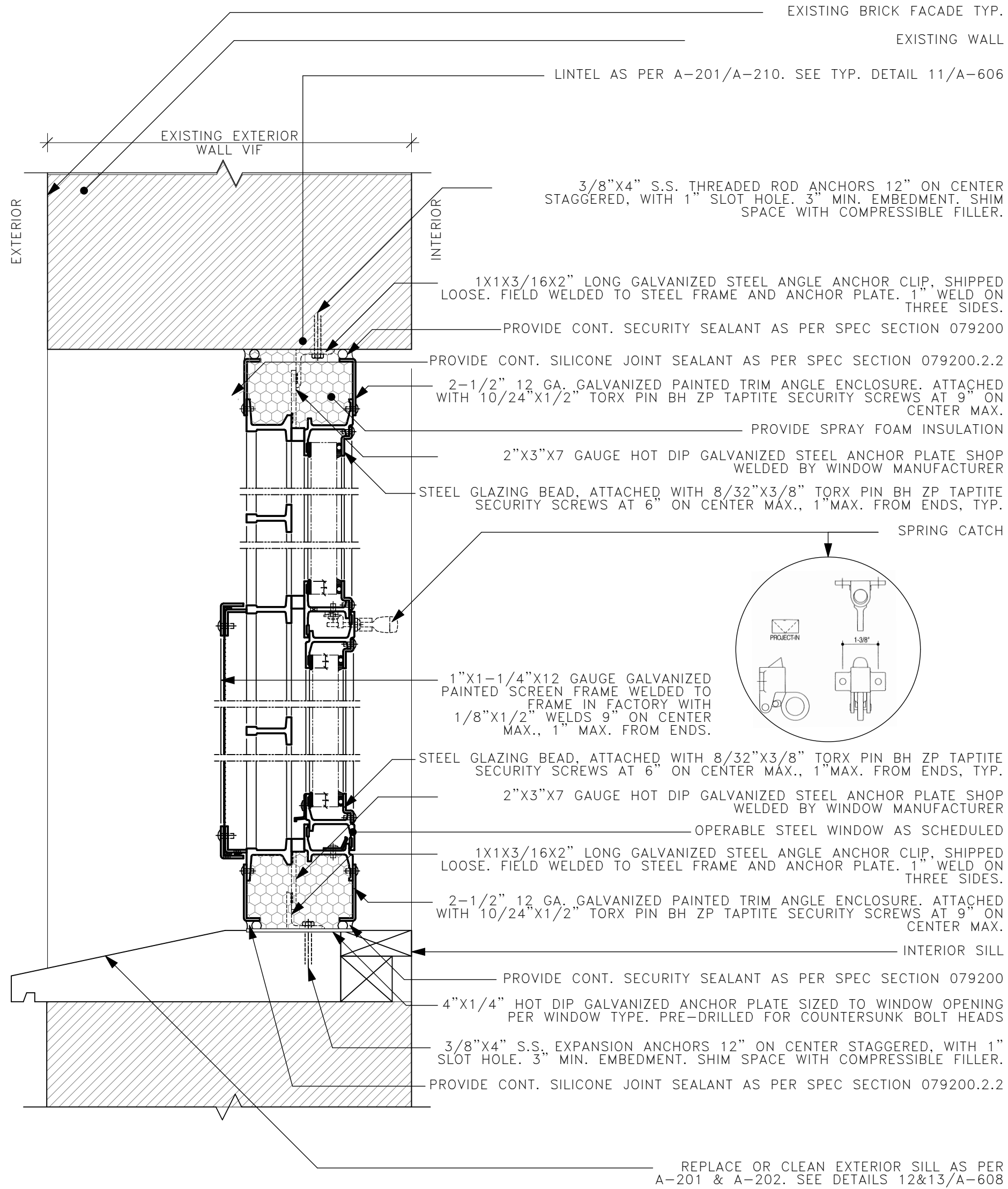
1
A-606 DOCCS STANDARD TYPE 1 AWNING DETENTION WINDOW
SCALE: 1" = 1'-0"



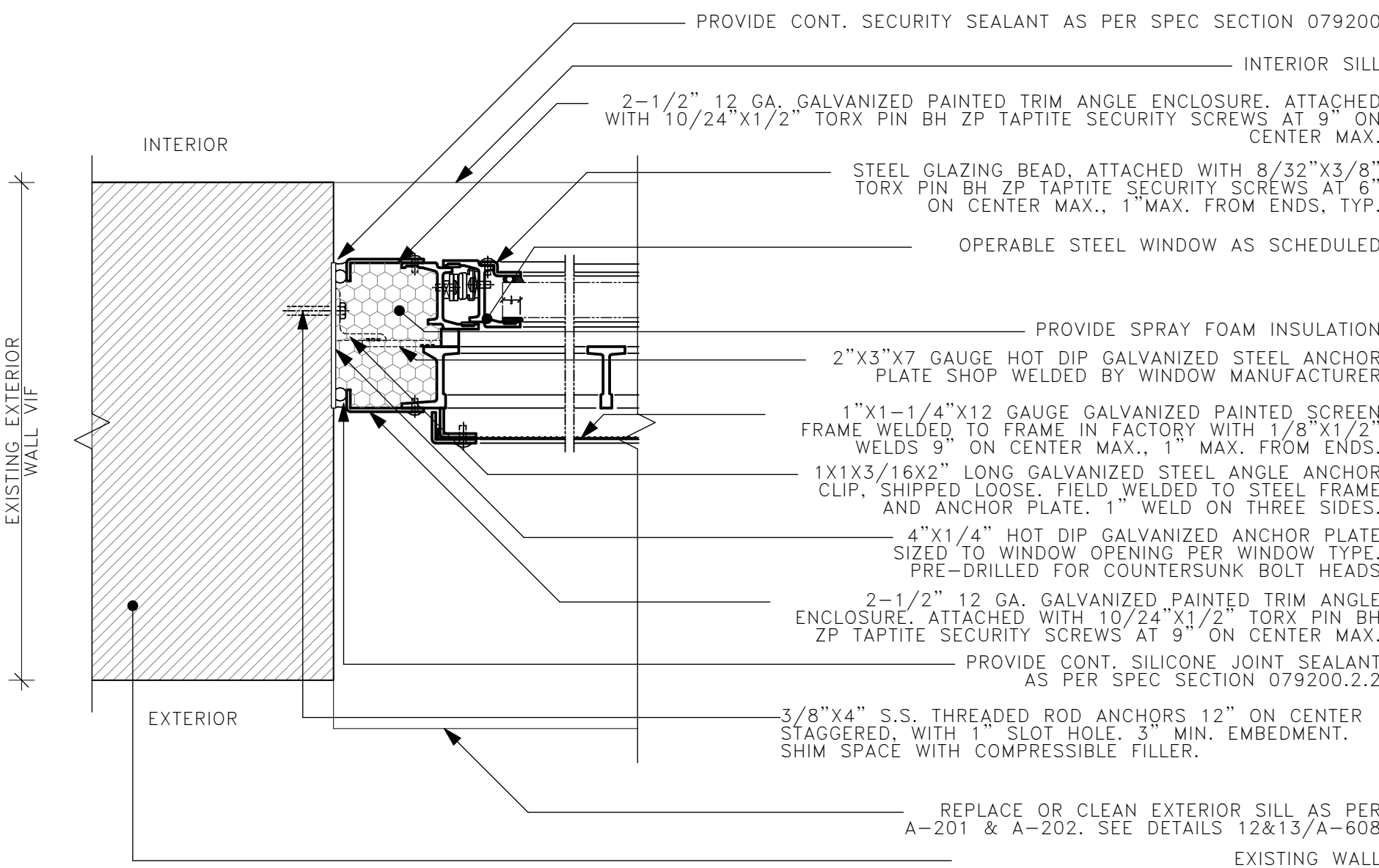
4
A-606 TEMPORARY WINDOW SECURITY BARRIER SECTION
SCALE: 3/4" = 1'-0"



5
A-606 TEMPORARY WINDOW SECURITY BARRIER
SCALE: 3/4" = 1'-0"



2
A-606 DOCCS STANDARD TYPE 1 AWNING WINDOW - HEAD/SILL
SCALE: 3" = 1'-0"



3
A-606 DOCCS STANDARD TYPE 1 AWNING WINDOW - HEAD/SILL
SCALE: 3" = 1'-0"

REVISED DRAWING 04/28/2026



UNIFORM CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.



CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIOR MASONRY REPAIRS, BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT:
NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

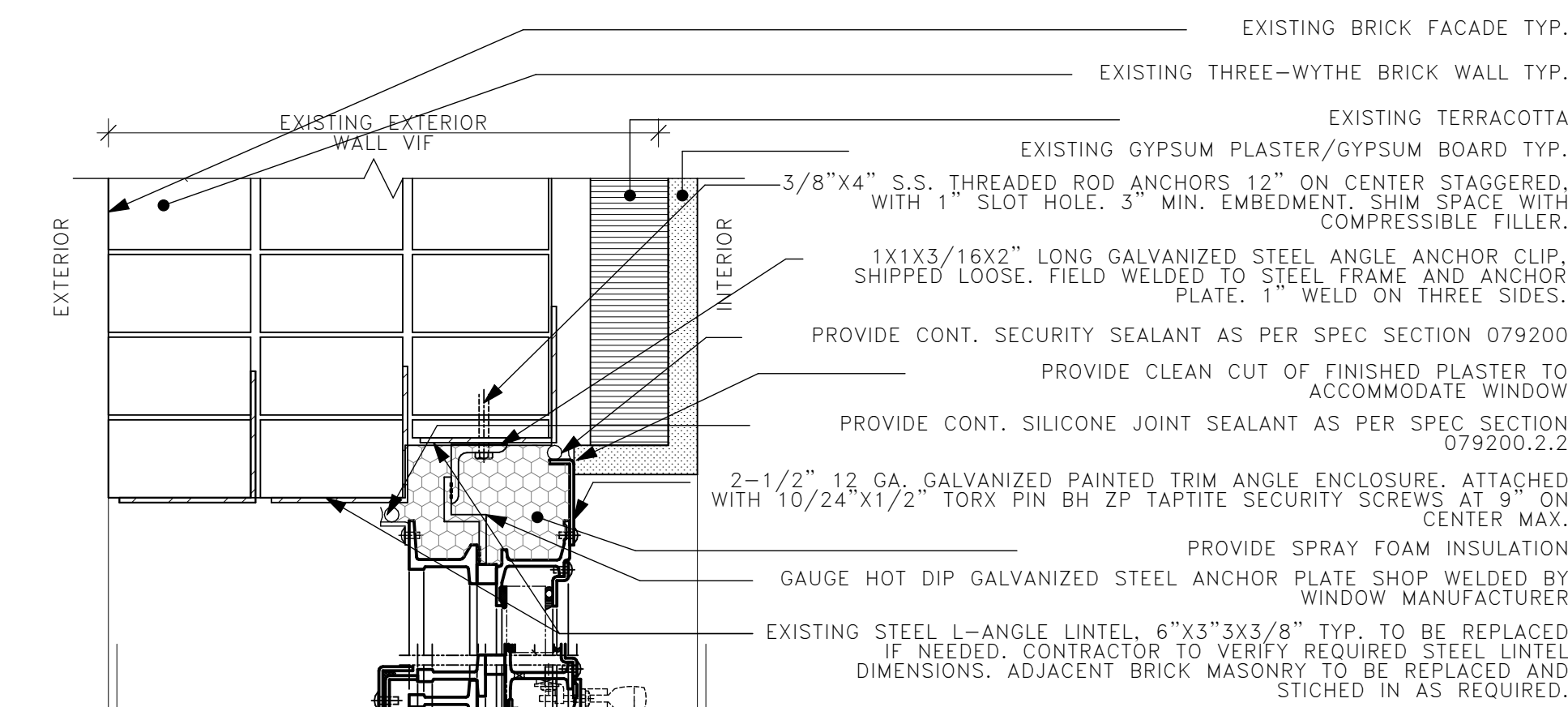
MARK	DATE	DESCRIPTION
1	04/28/2026	ADDENDUM #4
PROJECT NUMBER:	M3167-C	
DESIGNED BY:	RZAPS	
DRAWN BY:	RZAPS	
FIELD CHECK:		
APPROVED:	RZ	

SHEET TITLE:

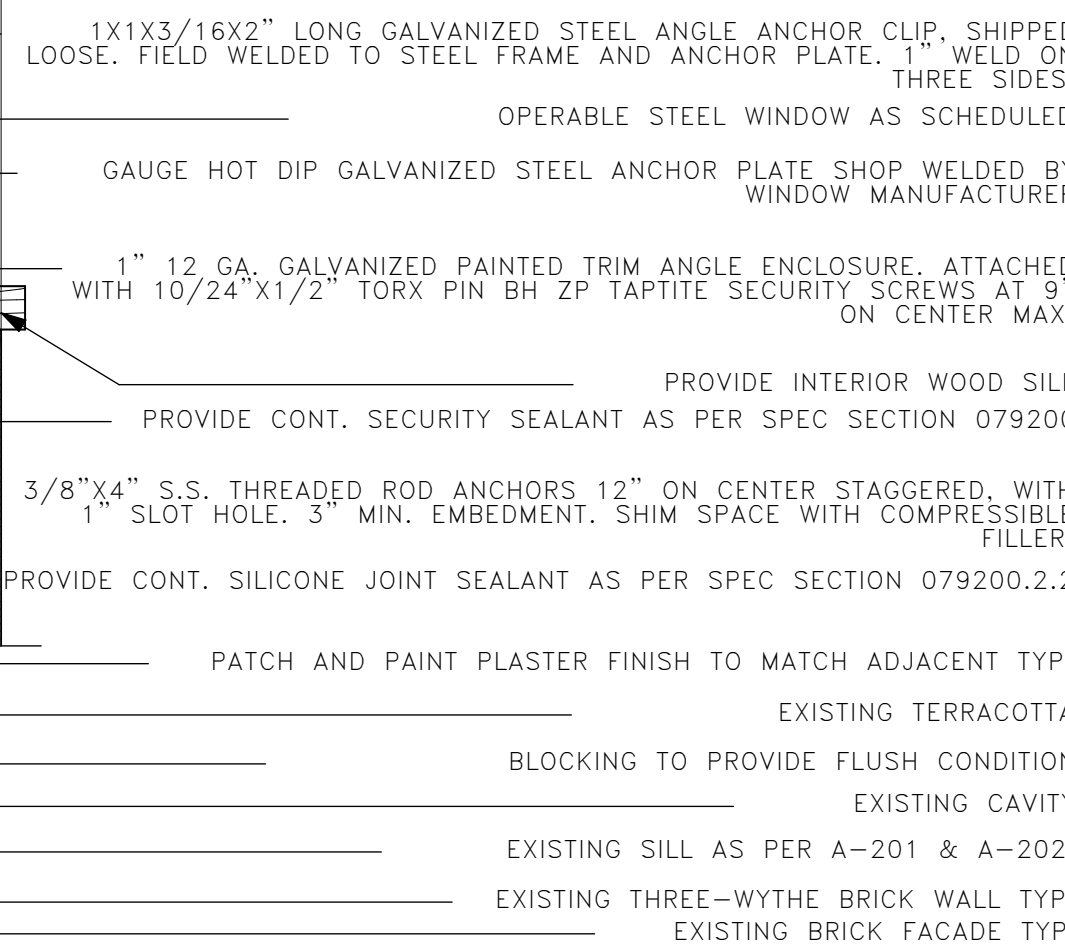
BLDG 19 -
TEMPORARY WINDOW
BARRIER & TYPE 1
AWNING WINDOW
DETAILS

DRAWING NUMBER:

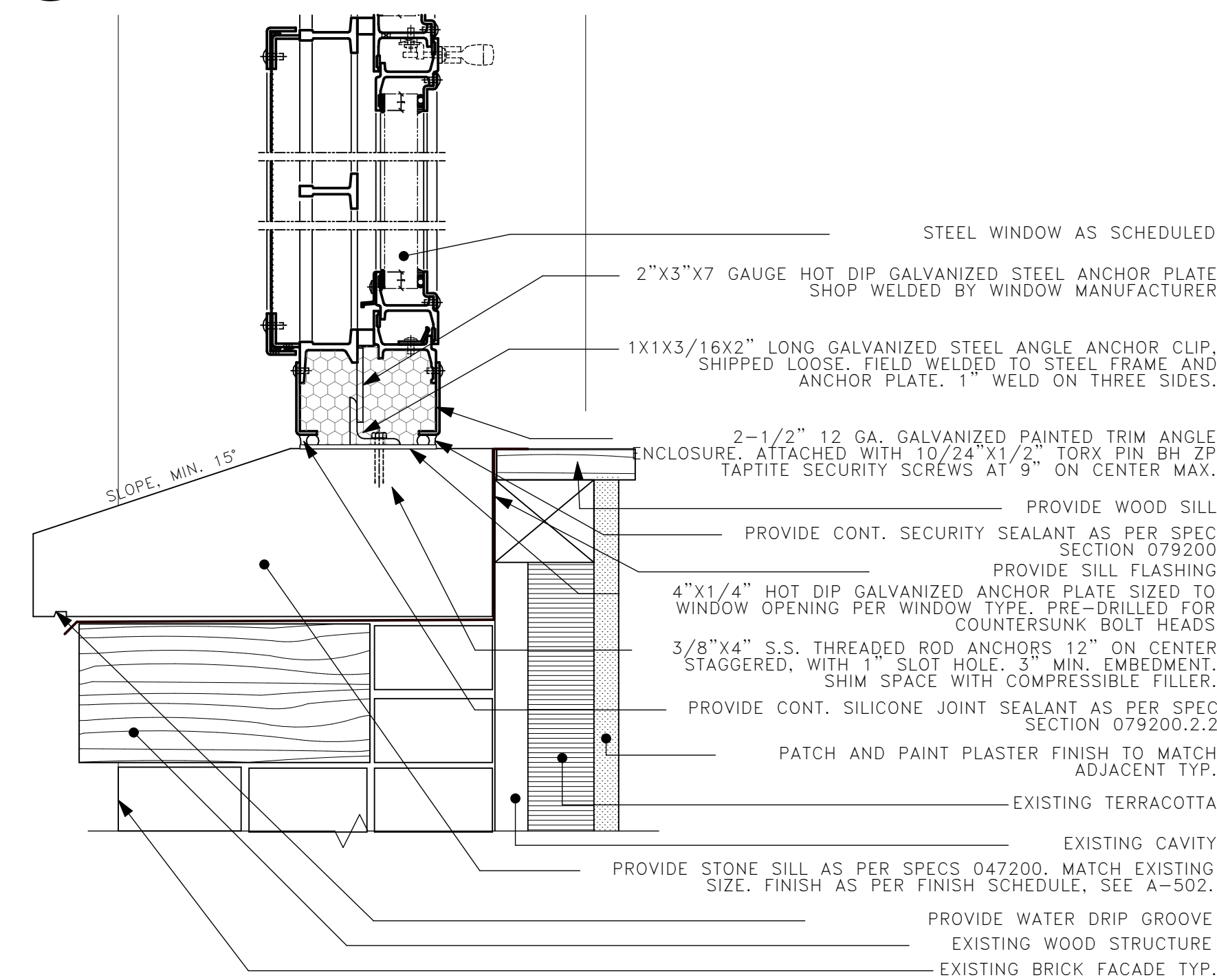
A-606



1
A-607
HEAD DETAIL
SCALE: 3" = 1'-0"

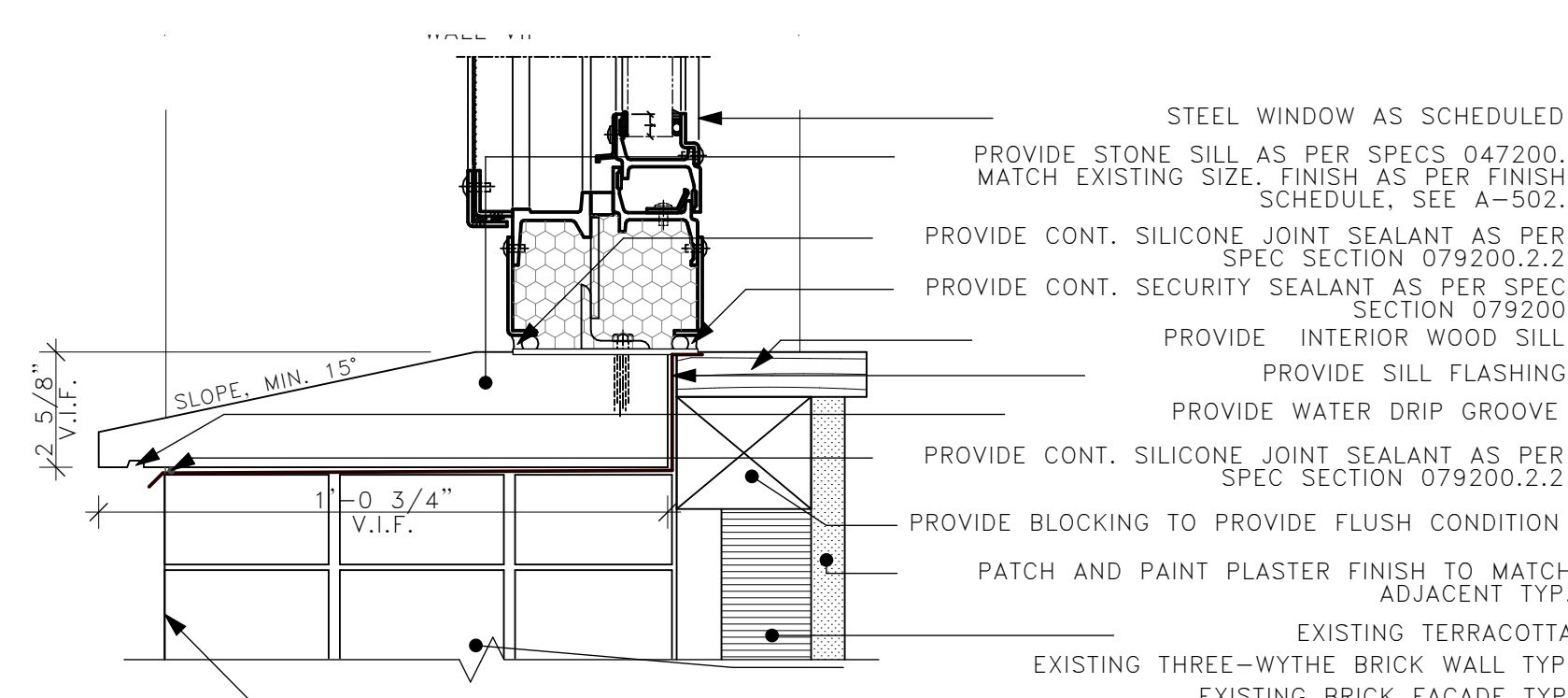


2
A-607
BUILDING 19 HEAD DETAIL
SCALE: 3" = 1'-0"

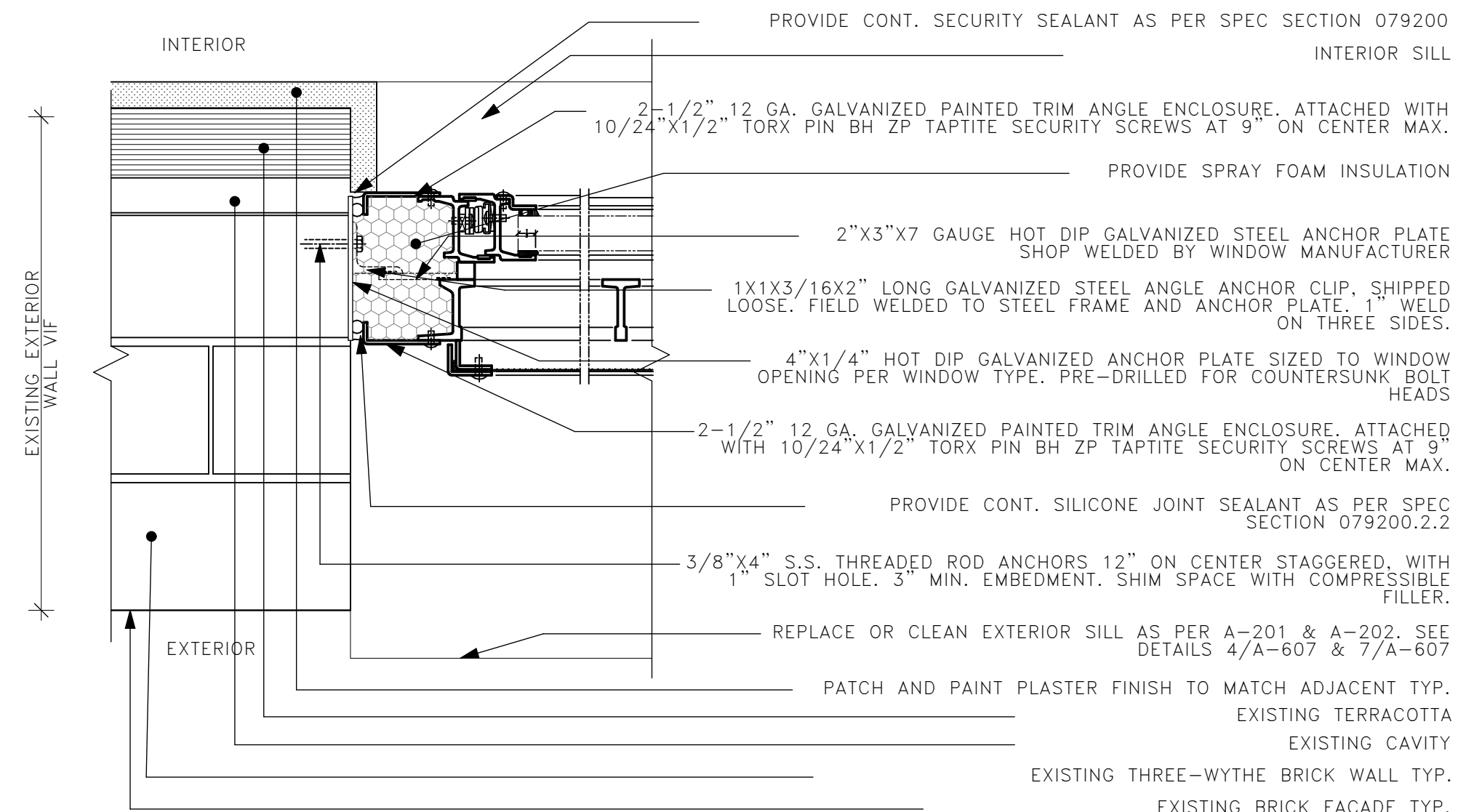


5
A-607
BUILDING 19 SILL DETAIL
SCALE: 3" = 1'-0"

4
A-607
BUILDING 19 SILL DETAIL
SCALE: 3" = 1'-0"

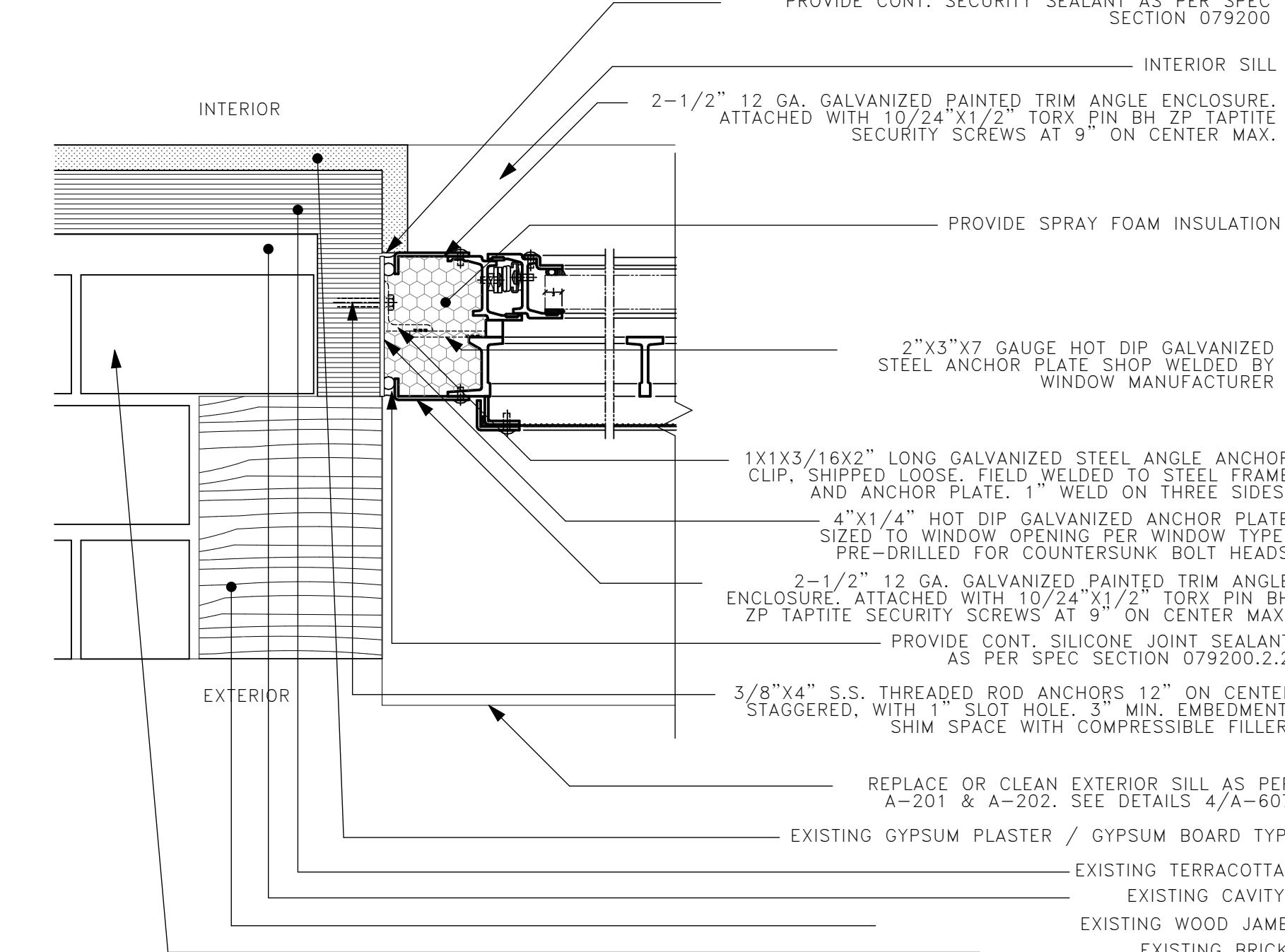


7
A-607
BUILDING 19 SILL DETAIL
SCALE: 3" = 1'-0"

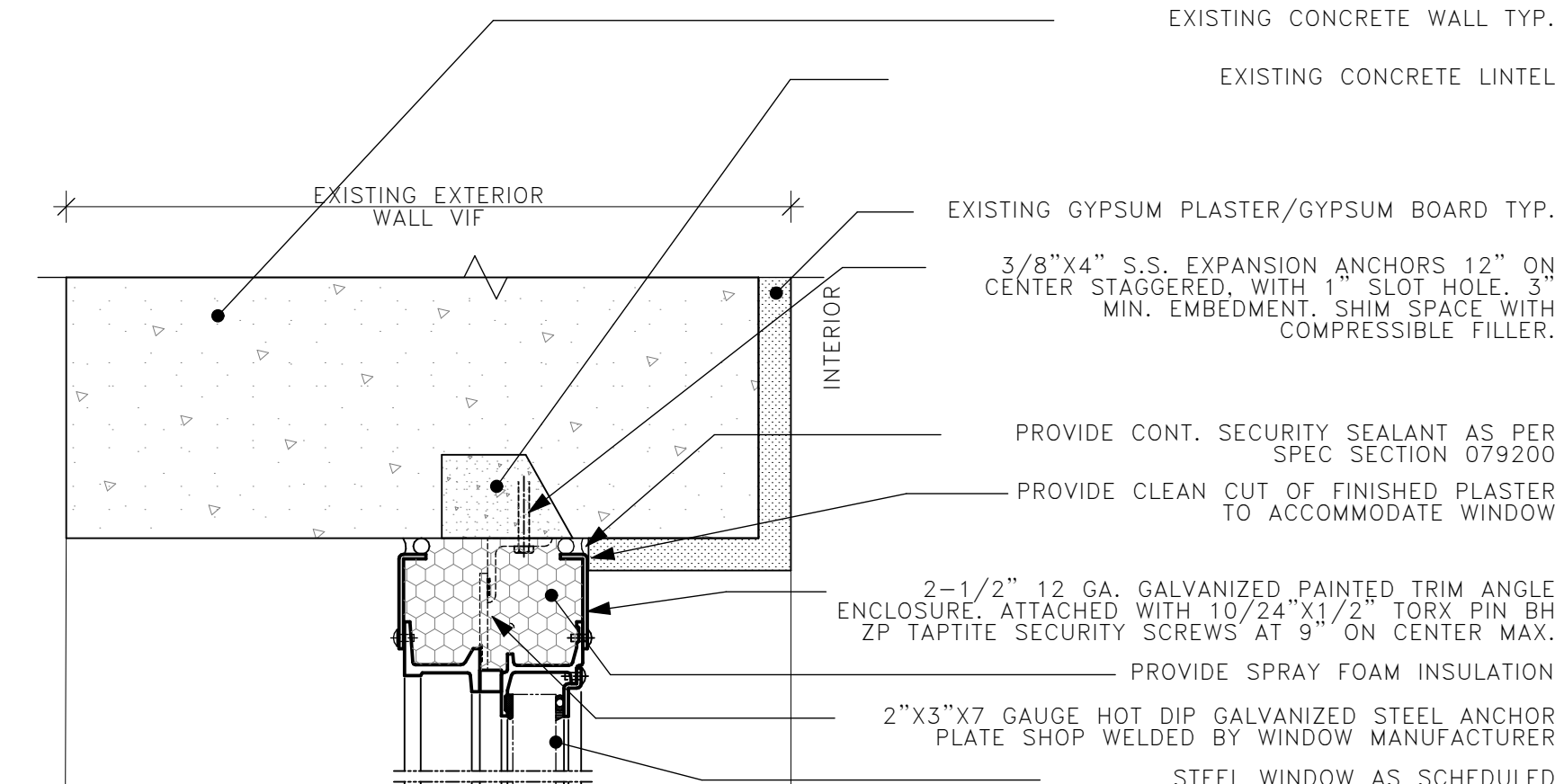


8
A-607
BUILDING 19 JAMB DETAIL
SCALE: 3" = 1'-0"

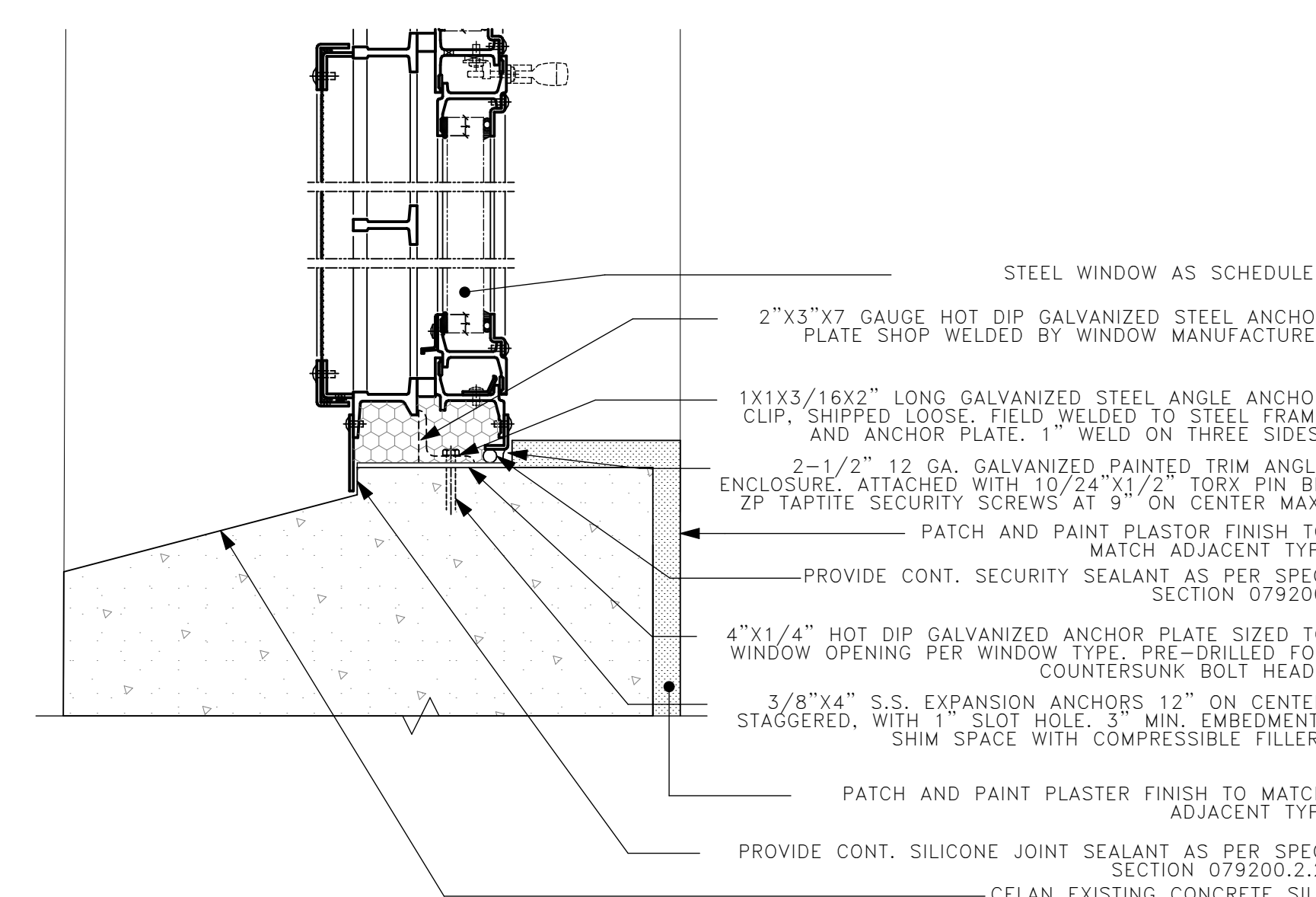
9
A-607
BUILDING 19 JAMB DETAIL
SCALE: 3" = 1'-0"



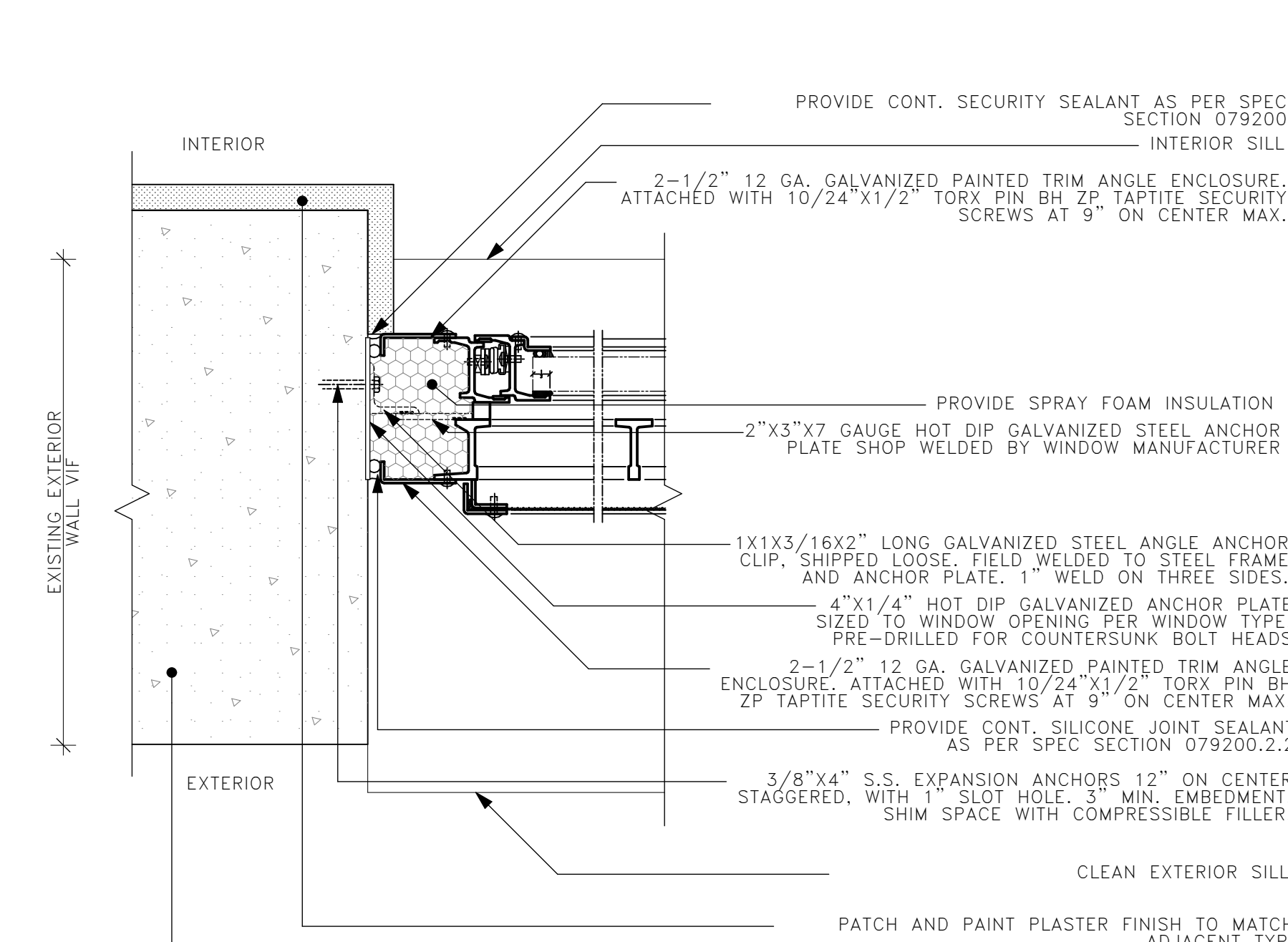
NOTE:
1. COORDINATE WINDOW ANCHRING W/ EXISTING CONDITION AND WINDOW MANUFACTURE.
2. NEW WINDOW TO BE ALIGNED WITH EXISTING WINDOW EXTERIOR FACE.
3. USE FAST-CURE ANCHORING ADHESIVE @THREADED ANCHORS.



3
A-607
BUILDING 19 HEAD DETAIL
SCALE: 3" = 1'-0"



6
A-607
BUILDING 19 SILL DETAIL
SCALE: 3" = 1'-0"



10
A-607
BUILDING 19 JAMB DETAIL
SCALE: 3" = 1'-0"

Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

FPM ENGINEERING & GEOLOGY, P.C.

CERTIFICATE OF AUTHORIZATION: #0019166

DESIGN CONSULTANT

RZAPS

RICARDO ZURITAARCHITECTURE & PLANNING, P.C.

UNIFORM CODE COMPLIANCE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

CONTRACT:
CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIOR MASONRY REPAIRS, BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT:
NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND COMMUNITY SUPERVISION

MARK	DATE	DESCRIPTION
1	04/28/2026	ADDENDUM #4

PROJECT NUMBER:
M3167-C

DESIGNED BY:
RZAPS

DRAWN BY:
RZAPS

FIELD CHECK:

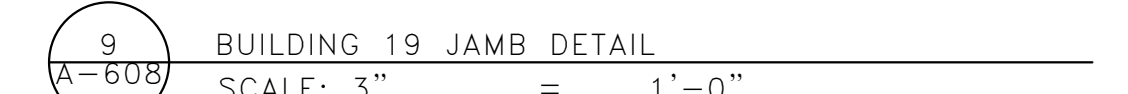
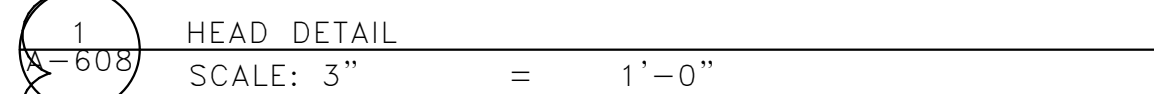
APPROVED:
RZ

SHEET TITLE:
BLDG 19 - WINDOW DETAILS - TYPE 1
AWNING WINDOW

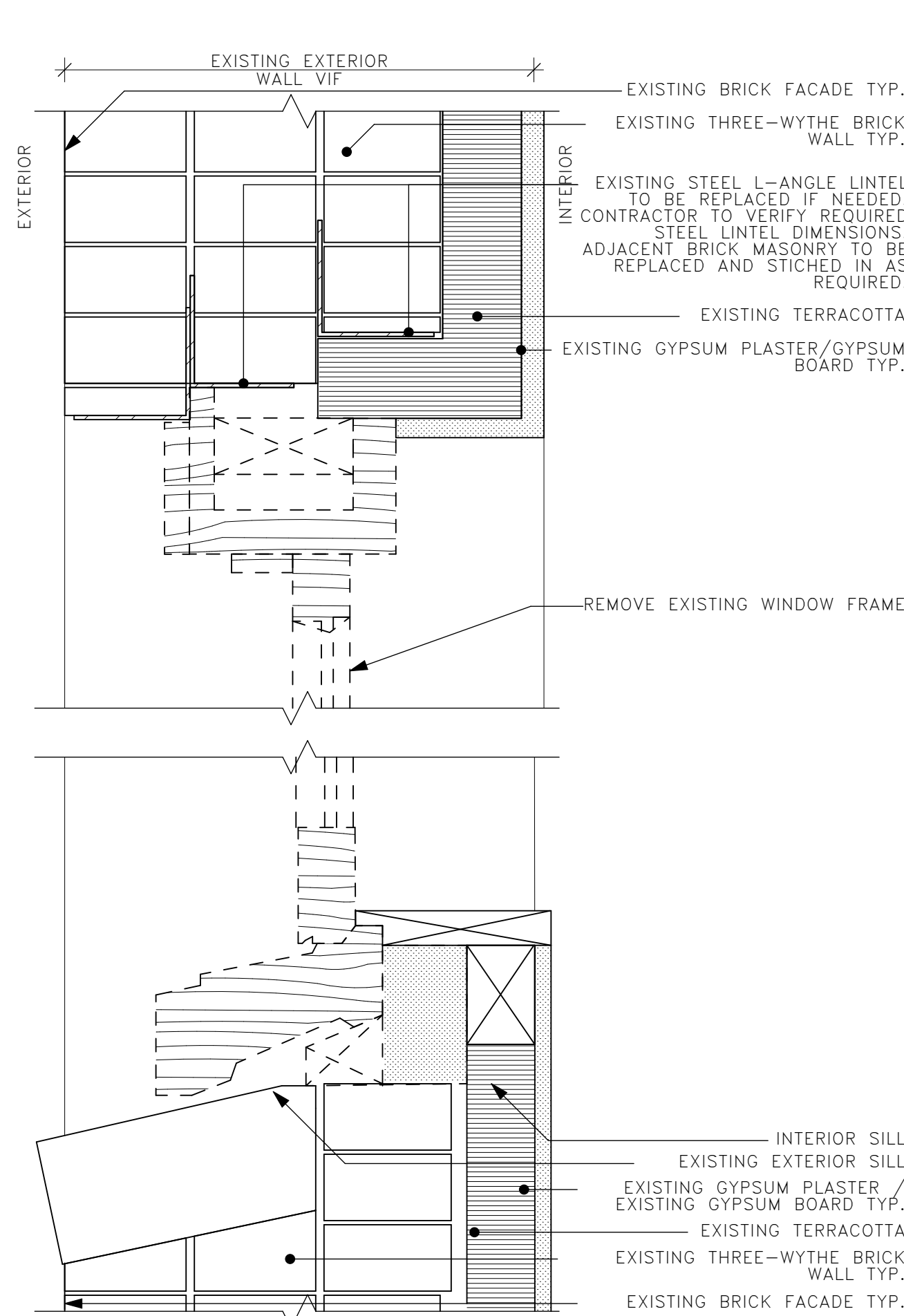
DRAWING NUMBER:
A-607

SHEET 50 OF 53

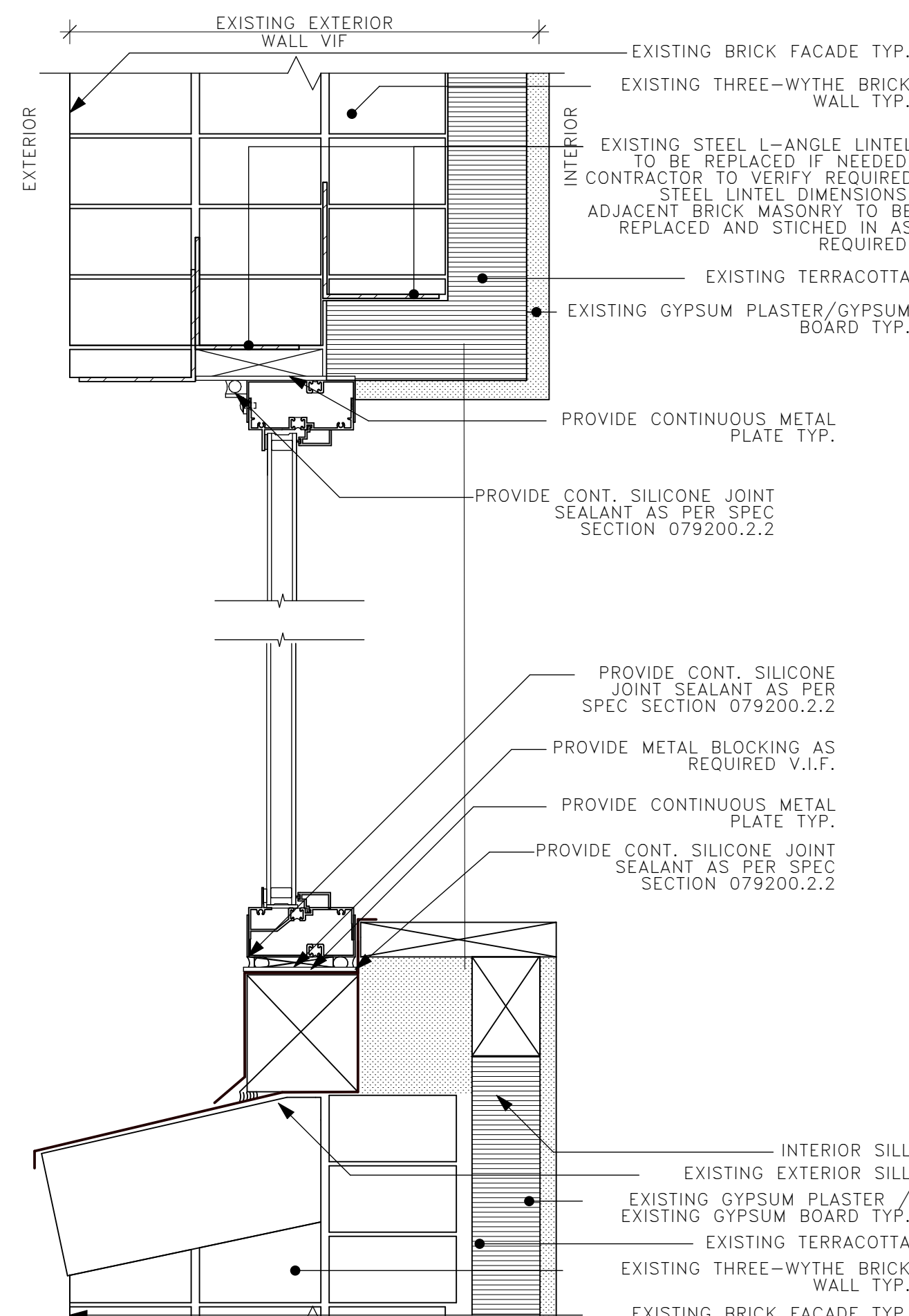
REVISED DRAWING 04/28/2026



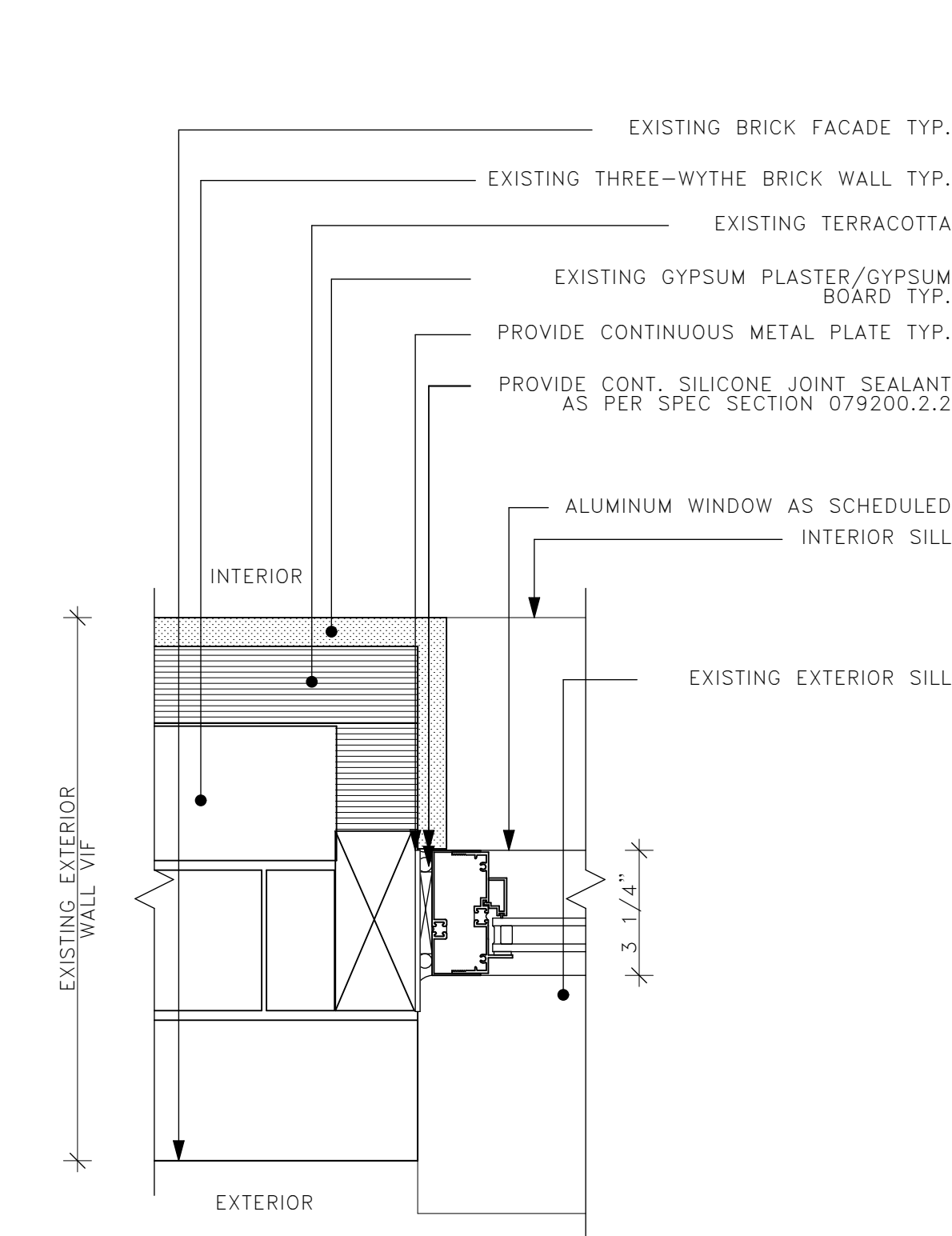
REVISED DRAWING 04/28/2026



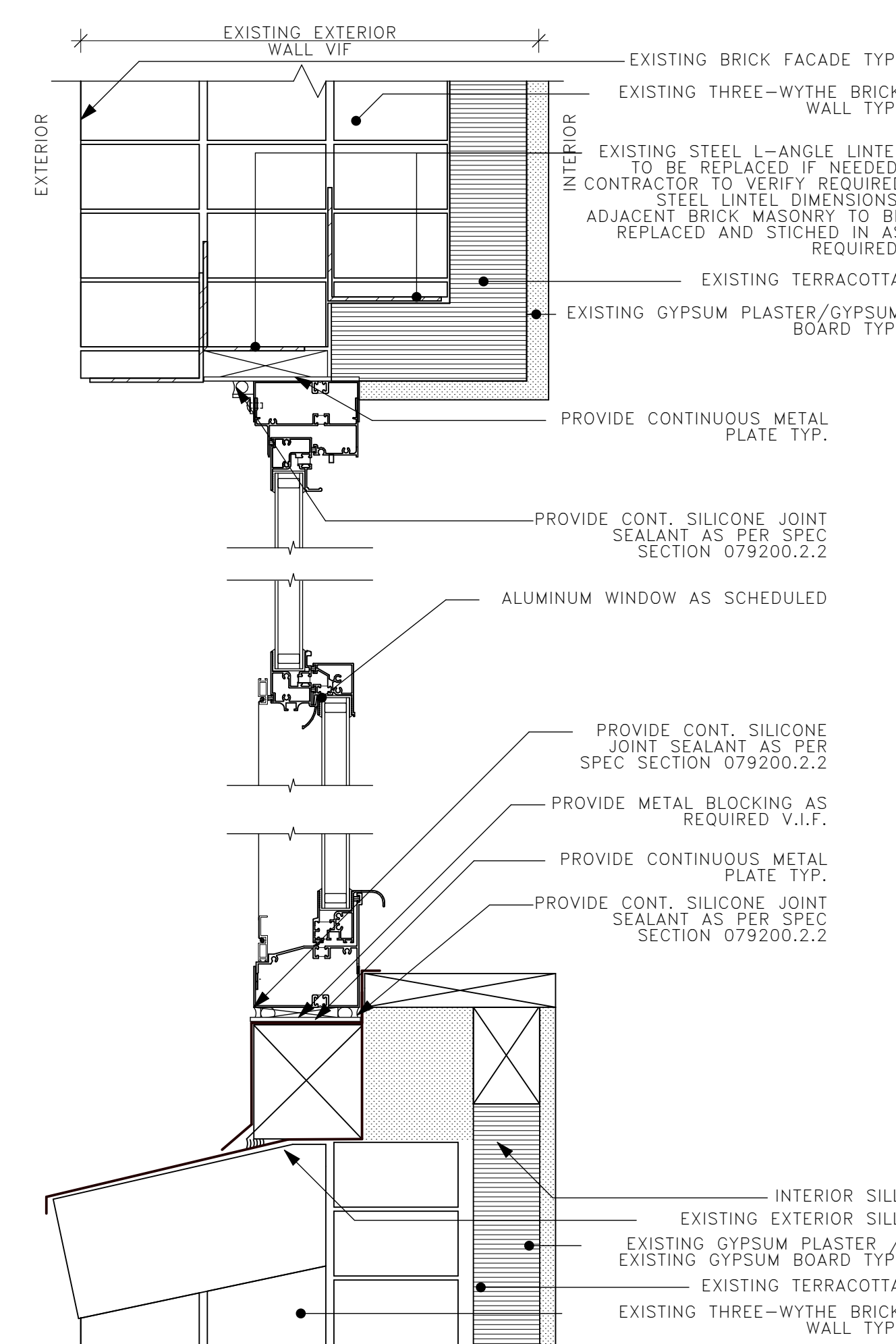
1 BLDG 37 - WINDOW REMOVAL DETAIL
SCALE: 3" = 1'-0"



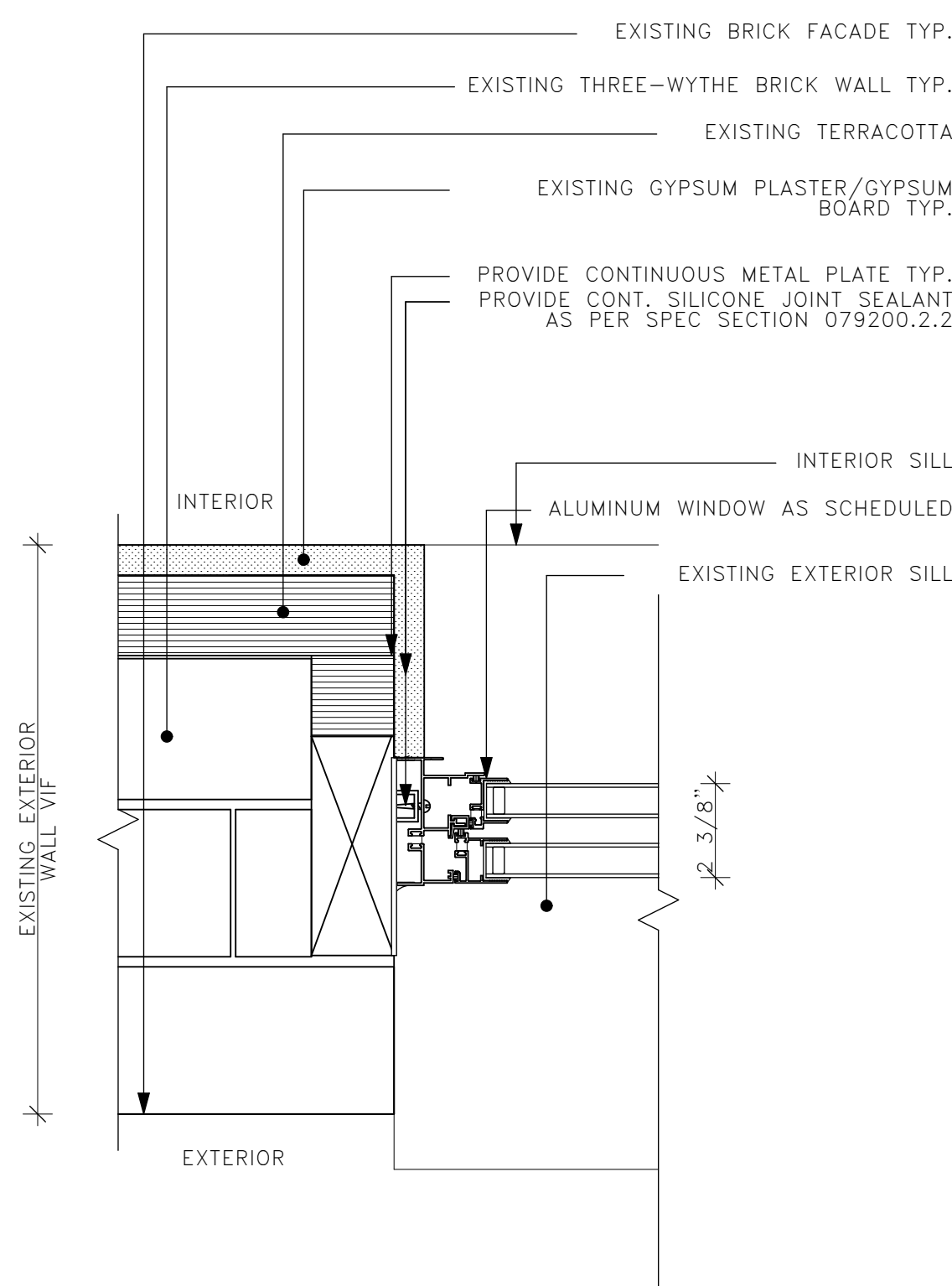
2 BLDG 37 - ALUMINUM FIXED WINDOW - HEAD/SILL
SCALE: 3" = 1'-0"



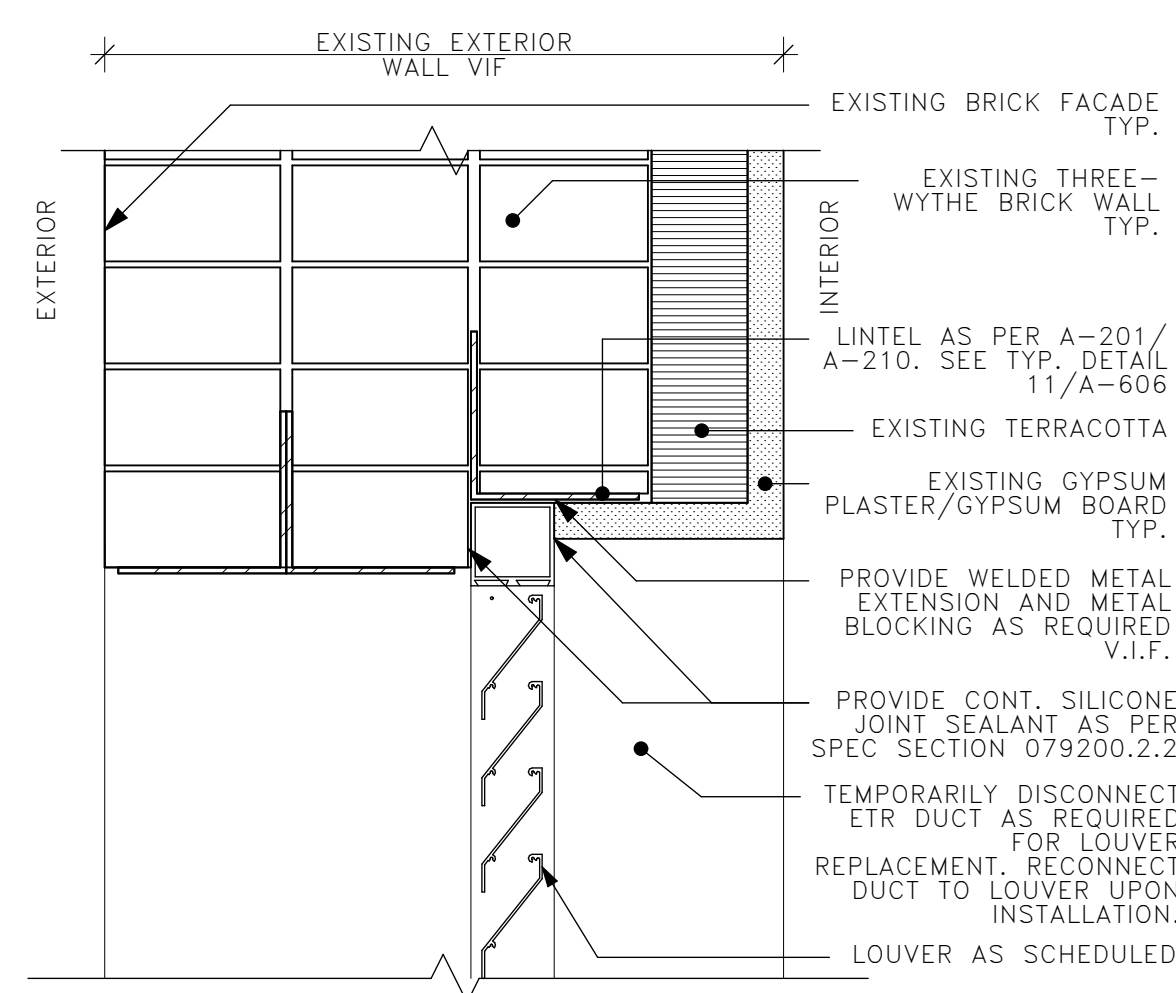
3 BLDG 37 - ALUMINUM FIXED WINDOW - JAMB
SCALE: 3" = 1'-0"



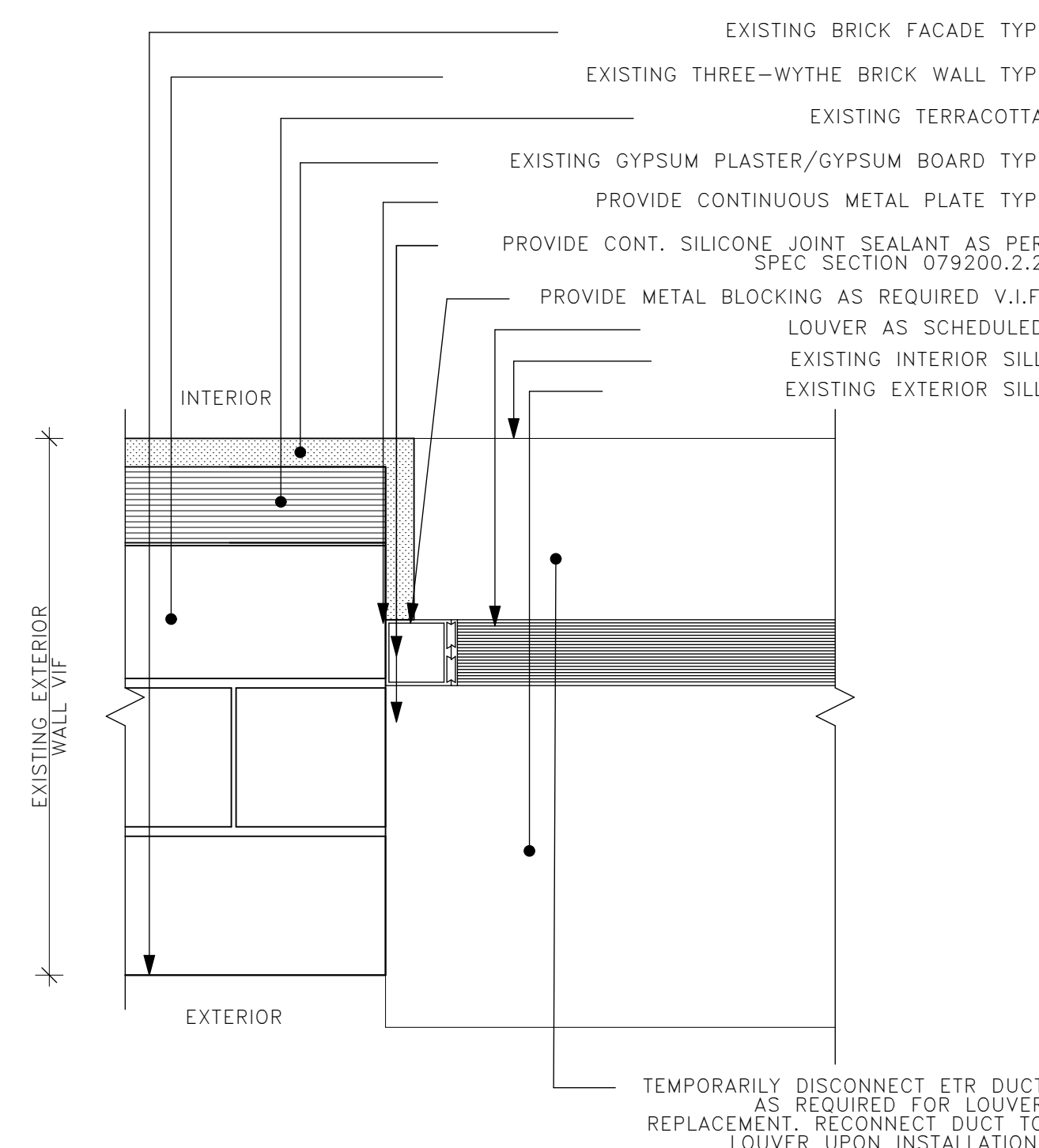
4 BLDG 37 - ALUMINUM DOUBLE HUNG WINDOW - HEAD/SILL
SCALE: 3" = 1'-0"



5 BLDG 37 - ALUMINUM DOUBLE HUNG WINDOW - JAMB
SCALE: 3" = 1'-0"



6 BLDG 37 - LOUVER - HEAD/SILL
SCALE: 3" = 1'-0"



7 BLDG 37 - LOUVER - HEAD/SILL
SCALE: 3" = 1'-0"

NOTE:
AT ALL WINDOW LOCATIONS, REPAIR, PATCH, OR REPLACE ALL ADJACENT AND AFFECTED BUILDING ELEMENTS, INCLUDING WALL SURFACES, JAMBS, HEADS, SILLS, TRIM, AND SURROUNDING FINISHES THAT ARE DAMAGED DURING REMOVAL OR CONSTRUCTION, TO MATCH EXISTING MATERIALS, PROFILES, AND FINISHES.



UNIFORM CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.



CONTRACT: CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIOR MASONRY REPAIRS, BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

CLIENT:
NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION

MARK	DATE	DESCRIPTION
1	04/28/2026	ADDENDUM #4
PROJECT NUMBER:	M3167-C	
DESIGNED BY:	RZAPS	
DRAWN BY:	RZAPS	
FIELD CHECK:		
APPROVED:	RZ	

SHEET TITLE:

BLDG 37 - WINDOW & LOUVER DETAILS

DRAWING NUMBER:

A-609



CONSULTAN

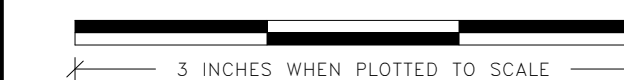
FPM ENGINEERING & GEOLOGY, P.C

CERTIFICATE OF AUTHORIZATION: #0019166

DESIGN CONSULTANT

RZAPS

RICARDO ZURITA ARCHITECTURE & PLANNING, P.C.



UNIFORM CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 UNIFORM CODE OF NEW YORK STATE.

ENERGY CODE COMPLIANCE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN
PROFESSIONAL'S KNOWLEDGE, BELIEF AND
PROFESSIONAL JUDGEMENT, THESE PLANS AND/
OR SPECIFICATIONS ARE IN COMPLIANCE WITH
THE 2025 ENERGY CODE OF NEW YORK STATE.

WARNING:

THE ALTERATION OF THIS MATERIAL IN ANY WAY,
UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE
PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT,
ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT
FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE
NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS
AND IS A CLASS 'A' MISDEMEANOR.



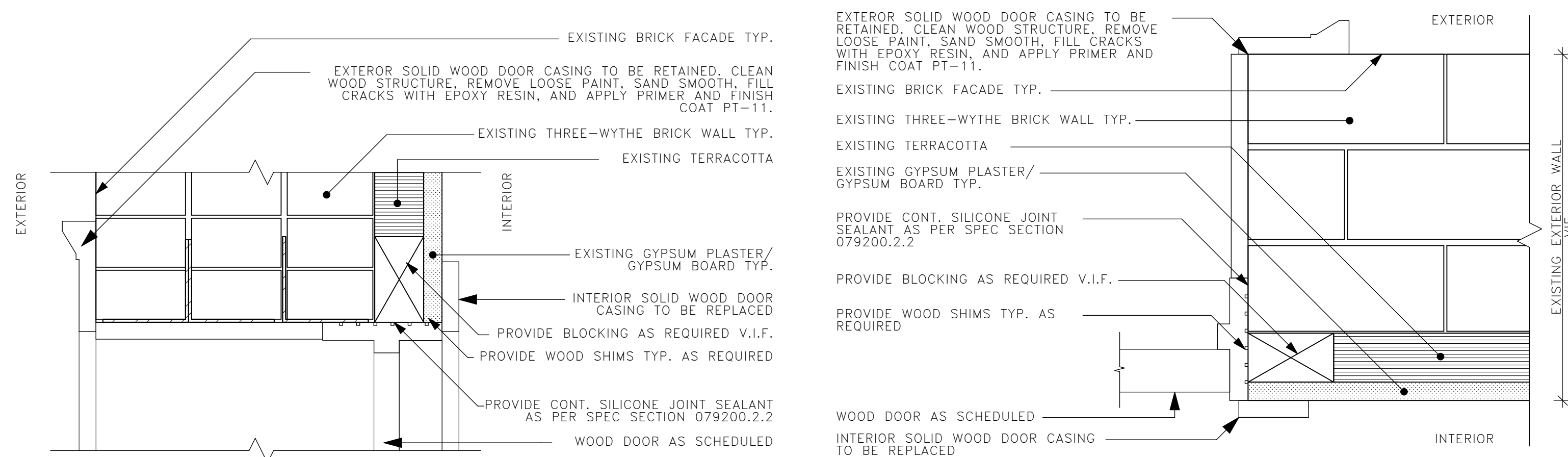
CONTRACT:

CONSTRUCTION

TITLE:
REPLACE ROOFS, WINDOWS, AND EXTERIO
MASONRY REPAIRS,
BUILDINGS 19 AND 37

LOCATION:
BEDFORD HILLS CORRECTIONAL FACILITY
247 HARRIS ROAD
BEDFORD HILLS, NY

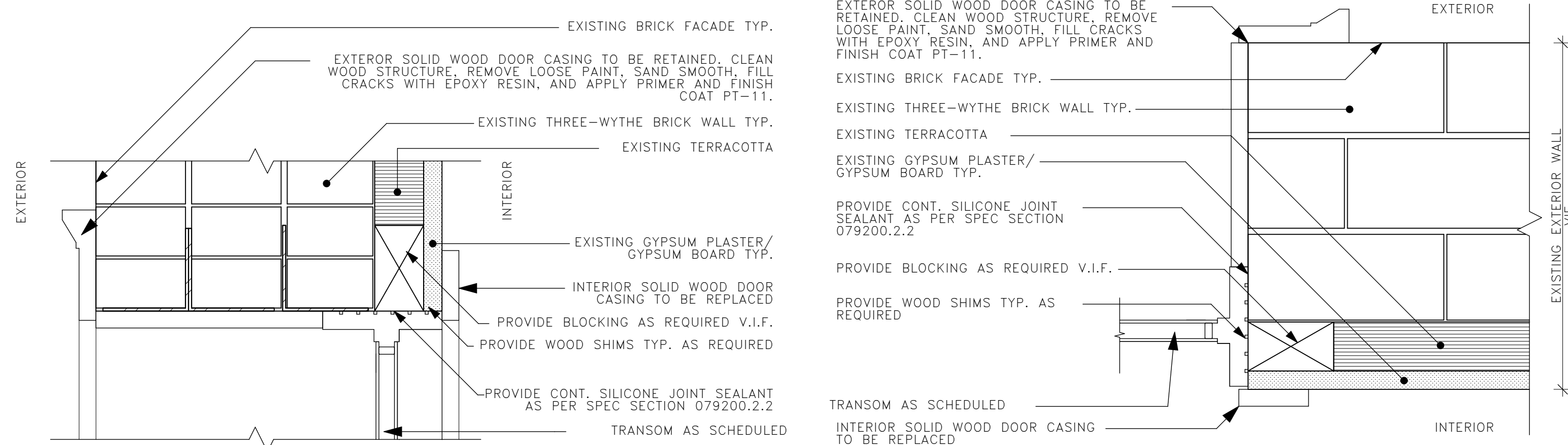
CLIENT: NEW YORK STATE
DEPARTMENT OF CORRECTIONS AND
COMMUNITY SUPERVISION



1
A-610

BLDG 19 & 37 - EXTERIOR WOOD DOOR - HEAD DETAIL
SCALE: 3" = 1'-0"

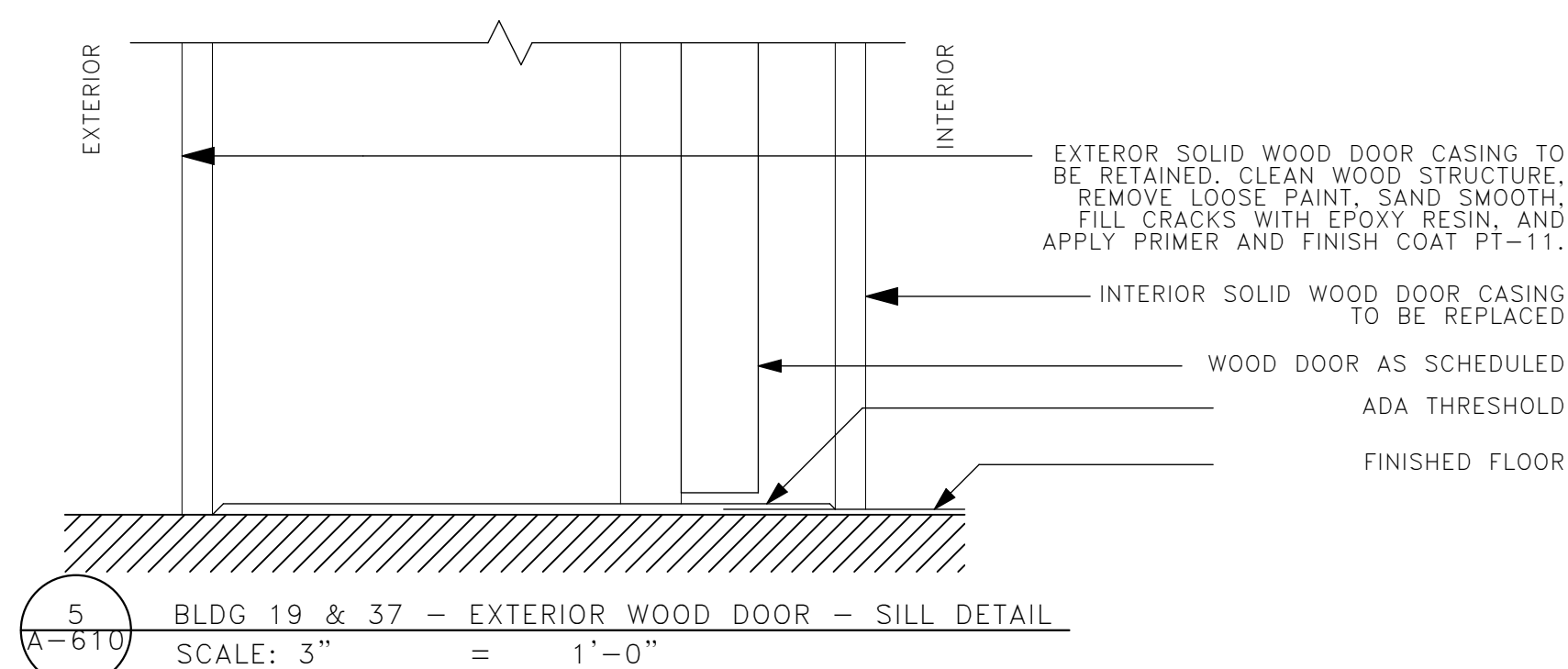
2 BLDG 19 & 37 - EXTERIOR WOOD DOOR - JAMB DETAIL
A-610 SCALE: 3" = 1'-0"



3
A-610

BLDG 37 - EXTERIOR WOOD DOOR TRANSOM - HEAD DETAIL
SCALE: 3" = 1'-0"

4
A-610 BLDG 37 - EXTERIOR WOOD DOOR TRANSOM - JAMB DETAIL
SCALE: 3" = 1'-0"



5 BLDG 19 & 37 - EXTERIOR WOOD DOOR - SILL DETAIL
A-610 SCALE: 3" = 1'-0"

[illegible]

SHEET TITLE

BLDG 19 & 37 - DOOR
DETAILS, BUILDING 37
- WINDOW DETAILS

DRAWING NUMBER

A-610

ADDENDUM DRAWING 04/28/2026

SHEET 53 OF 53