DESIGN & CONSTRUCTION GROUP
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EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 3 TO PROJECT NO. 45791

CONSTRUCTION, HVAC, PLUMBING, AND ELECTRICAL WORK
REPLACE ROOFS AND REPAIR FAÇADE
BUILDING NO. 73
CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BOULEVARD
QUEENS VILLAGE, NY

October 22, 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 WORK REQUIREMENTS - COMMON

1. SECTION 011000.01 SUMMARY OF THE WORK: Discard the Document bound in the Project Manual and substitute the accompanying Document (pages 011000.01-1 thru 011000.01-6) noted "Addendum 3".

2. SECTION 015000.02 CONSTRUCTION FACILITIES & TEMPORARY CONTROLS: Discard the Document bound in the Project Manual and substitute the accompanying Document (pages 015000.02-1 thru 015000.02-7) noted "Addendum 3".

CONSTRUCION WORK SPECIFICATIONS

3. SECTION 055213 PIPE AND TUBE RAILINGS: Discard the Section bound in the Project Manual and substitute with the accompanying Section (pages 055213 – 1 thru - 055213 – 12) noted "Addendum 3."

HVAC WORK SPECIFICATIONS

1. SECTION 230900 INSTRUMENTATION AND CONTROLS FOR HVAC: Discard the Document bound in the Project Manual and substitute the accompanying Document (pages 230900-1 thru 230900-11) noted "Addendum 3".

2. SECTION 238126 SPLIT-SYSTEM AIR-CONDITIONERS: Discard the Document bound in the Project Manual and substitute the accompanying Document (pages 238126-1 thru 238126-10) noted "Addendum 3".

GENERAL WORK DRAWINGS

4. Revised Drawings:
   a. Drawing Nos. G-003 and G-005, noted Addendum #3, dated 10/20/2026, accompanies this Addendum and supersedes the same numbered previously issued drawings.

CONSTRUCION WORK DRAWINGS

1. Revised Drawings:
   a. Drawing Nos. A-100, A-103, A-104, A-105, A-202, A-210, S-101, S-102, S-104, S-202, S-401, noted Addendum #3, dated 10/20/2026, accompanies this Addendum and supersedes the same numbered previously issued drawings.

HVAC WORK DRAWINGS

1. Revised Drawings:
   a. Drawing Nos. M-001, M-101, M-500, noted Addendum #3, dated 10/20/2026, accompanies this Addendum and supersedes the same numbered previously issued drawings.

ELECTRICAL WORK DRAWINGS

1. Revised Drawings:
   a. Drawing Nos. E-001, E-002, E-100, E-300, E-301, E-400, E-401, noted Addendum #3, dated 10/20/2026, accompanies this Addendum and supersedes the same numbered previously issued drawings.

END OF ADDENDUM

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

SECTION 011000.01 - SUMMARY OF THE WORK

PART 1 - GENERAL

1.1 WORK COVERED BY CONTRACT DOCUMENTS

A. The title and location of the Work is printed on the cover of this Project Manual.

B. Type of Contract: Fixed price.

1.2 RELATED CONTRACTS

A. The Project consists of the following separate contracts:

1. Construction Work Project No. 45791 – C.
2. HVAC Work Project No. 45791 – H.
3. Plumbing Work Project No. 45791 – P.
4. Electrical Work Project No. 45791 – E.

B. The suffix letter at the end of the project number distinguishes the separate contracts. The Sections in Division 01 of the Specifications that have more than one suffix letter (such as this Section) are common to each related contract.

1.3 SUBSTANTIAL AND PHYSICAL COMPLETION DATES

A. Substantially complete the Work within 550 days after the Agreement is approved by the Comptroller.

1. The time allocated for the performance of work under this contract includes ten days for notification of the Contractor of the Comptroller's approval of the Agreement.
2. The approval of the Agreement by the Comptroller constitutes the filing of the Contract Documents as a public record and notice to the Contractor that a fully executed contract exists between the Contractor and the State.

B. Physically complete the Work within ninety days after the established Substantial Completion date.

1.4 CONTRACT AWARD SUBMITTALS

A. Submittal No. 1: Submit the CONTRACTOR'S LIST OF SUBCONTRACTORS-SUPPLIERS information required in SCHEDULES AND RECORDS Article in Section 013000 not later than fifteen days after approval of the Contract by the Comptroller.

B. Submittal No. 2: Submit Preliminary Project Schedule-related information noted in Section 013113 – Project Planning and Scheduling or Section 013200 – Construction Progress

Documentation, whichever section is applicable, within fifteen days after approval of the Contract by the Comptroller for review by the Director's Representative and OGS Scheduling.

C. Submittal No. 3: Submit the Submittal Coordinator Qualifications not later than ten days after Award. Include resume and references, and other certification, licenses, or other requested information.

1.5 RESTRICTED WORK PERIOD

A. Construction Work Contract: Do not perform the roofing and related Work on or after 1 December and up to, but not including, 1 April unless approved otherwise, in writing, by the Director. During this period, clear the roof of materials, equipment, and debris. Maintain the roof in a watertight condition.

B. Construction Work Contract: Do not perform the waterproofing and related Work on or after 1 December and up to, but not including, 1 April unless approved otherwise, in writing, by the Director. During this period, clear the work area of materials, equipment, and debris. Waterproofing and related work associated with the façade rehabilitation scope of work, such as in-wall flashings and below-grade waterproofing, is permitted, when performed in accordance with temperature restrictions defined by the Contract Documents and manufacturers' published literature.

C. Construction Work Contract: Do not perform the asphalt paving Work on or after 15 November and up to, but not including, 15 April unless approved otherwise, in writing, by the Director. During this period, leave the disturbed earthwork areas stabilized for winter shutdown and clear the Work area of materials, equipment, and debris.

D. HVAC Work Contract: Do not perform Work requiring shutting off active heating piping and equipment on or after 15 October and up to, but not including, 1 May unless approved otherwise, in writing, by the Director.

E. Asbestos-containing materials will be abated by the Construction Work Contractor. Do not perform other Work in the area of such activity during the abatement of asbestos-containing materials.

1.6 ITEMS NOT INCLUDED

A. The following items shown on the drawings are not included in the Contract:

1. Items indicated "NIC" (Not in Contract).
2. Existing construction indicated as "(E)," except where such construction is to be removed, replaced, or altered.

1.7 CONFINED SPACE

A. Comply with confined space and permit-required confined space as defined in Title 29, Part 1910, Section 146 of the Code of Federal Regulations (29CFR 1910.146).

B. Comply with Safety Requirements for Confined Spaces (ANSI/ASSE Z117.1-2009).

C. All spaces shall be treated as permit-required confined spaces until the Contractor and/or subcontractors are able to reclassify the space to a nonpermit confined space as per 29CFR 1910.146 and ANSI/ASSE Z117.1-2009.

D. Indicated confined spaces are not intended to limit or define Contractor's or subcontractors' regulatory compliance requirements. In addition to confined spaces indicated on the drawings, other confined spaces may be present or created by the work of this Contract. Notify the Director's Representative, in writing, of confined spaces created or eliminated during execution of the Work.

E. For the purpose of inspecting ongoing work, furnish at no additional cost to the State, personnel, as directed, to allow the Director's Representative to enter confined space and permit-required confined space in compliance with Title 29, Part 1910, Section 146 of the Code of Federal Regulations (29CFR 1910.146).

1.8 OCCUPANCY

A. This is an occupied Facility. The basement, first, and second floors are occupied; the third floor is unoccupied. The building will be occupied and operational during execution of the Work. Ingress to and egress from the building shall be maintained at all times.

1.9 CONTRACTOR USE OF PREMISES

A. Work hours shall be as established by the Facility authorities through the Director's Representative.

B. Inform the Director's Representative of work area access requirements. The Director's Representative will coordinate and schedule the requirements with Facility staff to obtain and ensure the timely availability of work areas.

C. Check in with the Facility Representative, as directed, at the beginning of each workday. Furnish information regarding where employees will be working during the day.

D. Comply with the Facility's Visitor Identification Policy. A copy of the current policy will be distributed at the initial job meeting.

E. The following items are not allowed on the Site or on Facility premises:

1. Firearms, ammunition, weapons, and dangerous instruments (other than tools required for the Work).
2. Alcoholic beverages and persons under the influence of same.
3. Cannabis and persons under the influence of same. Cannabis, as used herein, shall refer to any form of cannabis that has psychoactive properties.
4. Illegal controlled substances and persons under the influence of same.
5. Cameras (except with written permission from the Director's Representative).

F. Comply with Facility policies relating to smoking at the Site.

G. Routes of ingress and egress within the building to the location of the Work shall be as directed by the Director's Representative.

H. Store materials and perform the Work so that pedestrian and vehicular traffic is not obstructed.

I. Do not diminish the level of life safety during performance of the Work.

J. Furniture and portable equipment that interferes with execution of the Work will be removed and reset by Facility personnel.

K. Utility Outages and Shutdowns: Do not interrupt utility services or branch services within the building except for the time required to make new connections. Arrange with the Director's Representative for the time and duration of interruptions of services. Provide temporary services required to maintain building services at all times other than during scheduled interruptions.

L. Use of Existing Elevators:

1. Elevators for transportation of workers and materials will be designated by the Director's Representative. Arrange the time and duration of such use with the Director's Representative. Do not exceed capacity of elevators. Provide padding or other protection for the car.
2. During Periods of Exclusive Use:

    a. Operate elevators. Prevent unauthorized persons from using elevators.
    b. Where an existing elevator service contract exists, make arrangements through the Director's Representative for repairs required due to misuse or negligence. Pay elevator service company's fees for repairs.
    c. Where an existing elevator service contract does not exist, have repairs required due to misuse or negligence made by a qualified elevator company.

M. Be responsible and accountable for employees, suppliers, subcontractors, and their employees with regard to their use of the premises. Direct them to comply with the Facility Regulations and with the security and traffic regulations.

N. Furnish Facility authorities with a telephone number or method to contact the supervisor for the Work in case of an emergency after work hours, including weekends and holidays.

O. Comply with applicable federal and State of New York Right-to-Know Law provisions. Provide Safety Data Sheets (SDSs) documents for products that have SDS data prior to use on the project site.

1. Upload and maintain electronic SDS documents on the Submittals Website (SDS tab).
2. SDS tab is organized by prime contracts. To be readily identified, name products with SDS by specification section number and product name.
3. Supply and maintain one hard copy of the appropriate SDS on the project site and one hard copy with the Facility's Right-to-Know Information Officer.

P. Direct employees to be watchful for people in or near the work area where safety hazards may be present. Notify the Facility Safety/Security Department, if necessary, to remove them from the work area or Site.

Q. Report fire and other emergency situations to the Facility Safety/Security Department immediately.

1.10 FACILITY REGULATIONS

A. Do not physically, verbally, or psychologically mistreat patients, clients, or other persons at the Facility.

B. Do not receive from or give to patients, clients, or other persons at the Facility, any items (food, cigarettes, money, matches, mail, etc.), as this practice may be harmful to the treatment plan or may be illegal.

C. Do not have sexual relations with any patient or client. This, even at their invitation, is a crime and may be a felony.

D. HVAC Work, Plumbing Work, and Electrical Work Contracts:

1. Unless specifically indicated otherwise, furnish drawings or written information to the Construction Work Contractor covering the openings and chases required in new construction for the Work. If such information is not furnished at least 24 hrs before start of the applicable part of the Construction Work Contractor's work, all necessary cutting, patching, and refinishing will be included in the Contract at no additional cost to the State.

1.11 SPRAYED-ON FIREPROOFING FOR NEW CONSTRUCTION

A. Construction Work Contract:

1. Notify the related contractors five working days prior to the application of fireproofing.
2. If related contractors fail to install hangers, clips, sleeves, and other items that will penetrate the fireproofing, the related contractors will be required to cut and repair the fireproofing at their own expense.

B. HVAC Work, Plumbing Work, and Electrical Work Contracts:

1. The Construction Work Contractor will give five working days' notice prior to application of fireproofing.
2. If hangers, clips, sleeves, and other items that will penetrate the fireproofing are not in place before application of the fireproofing by the Construction Work Contractor, all necessary cutting and repair of the fireproofing will be included in the Contract at no additional cost to the State.

1.12 REFERENCE SPECIFICATIONS AND STANDARDS

A. Comply with the requirements of the various specifications and standards referred to in these Specifications, except where they conflict with the requirements of these Specifications. Such reference specifications and standards shall be the date of latest revision in effect at the time of receiving bids unless the date is given.

1.13 LAYING OUT

A. Examine the Contract Documents thoroughly and promptly report any errors or discrepancies to the Director's Representative before commencing the Work.

B. Lay out the Work in accordance with the Contract Documents.

1. Layouts that require the establishment of property lines or monuments shall be performed by a Land Surveyor licensed by New York State.

1.14 SPECIAL INSPECTIONS

A. Special Inspections and tests are required by Chapter 17 of the Building Code of New York State (BCNYS). Inspections & Testing Services will be provided by the state unless otherwise noted.

B. Contractors are responsible for notifying the Director's Representative regarding individual inspections listed in the **STATEMENT OF SPECIAL INSPECTIONS**. Contractors shall cooperate with the inspectors and testing agencies, and sufficient notice and lead time (minimum 48 hrs) must be allowed for inspection and testing to be performed.

C. Where deficiencies are identified, the Contractor must take corrective actions to comply with the contract documents or remedy the deficiencies in accordance with Article 9 of the General Conditions.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 011000.01

SECTION 015000.02 - CONSTRUCTION FACILITIES & TEMPORARY CONTROLS

PART 1 - GENERAL

1.1 DESCRIPTION

A. Provide the construction facilities and temporary controls necessary for the Work unless otherwise indicated.

1. The construction facilities and temporary controls specified to be provided by a particular contract shall be kept operational by that contractor for the Work of all related contracts at all times Work is being performed by a contractor.
2. The construction facilities and temporary controls specified to be provided by a particular contractor shall be installed as soon after award of the Contract as necessary to enable the Work of each contract to proceed on schedule and maintained until completion of the Work of all related contracts unless otherwise directed in writing.
3. Any contractor who requires additions to the construction facilities and temporary controls specified to be provided by another contractor shall provide and maintain them.

1.2 RELATED WORK SPECIFIED ELSEWHERE

A. Disposal of Asbestos-Containing Materials: Section 028213.

1.3 TEMPORARY LIGHT AND POWER

A. Electrical energy for temporary light and power will be made available without charge.

B. All Contracts:

1. Any contractor requiring additional lighting shall provide additional fluorescent fixtures or incandescent lampholders (with lamps), but in no case shall the load on any branch circuit or feeder exceed its rated capacity.
2. Install materials for temporary light and power in conformance with the National Electrical Code.
3. Materials for temporary light and power need not be new if they are in satisfactory operating condition.
4. Provide ground-fault protection for personnel (such as portable plug-in type ground-fault circuit-interrupters) on single-phase 15 and 20 A receptacle outlets that are in use.
5. Receptacle outlets, portable cord connectors, and attachment plugs shall have standard NEMA configurations.
6. As the progress of the Work allows, and as approved, completed portions of the permanent wiring and electrical service may be utilized for temporary light and power.

1.4 TEMPORARY WATER

A. Water will be made available for the Work without charge at source or sources directed within the limits of the existing supply and usage.

B. Construction Work Contract:

1. Make arrangements and pay for water for temporary service.
2. Provide and maintain a temporary water system, of such size and capacity as to adequately supply the needs of all contractors during performance of their Work.
3. Provide barrels at locations as required for the Work.

C. All Contracts: Prevent waste of water.

1.5 TEMPORARY TOILETS

A. Construction Work Contract: Provide toilet facilities for contractors' and subcontractors' employees engaged on the Project, including employees of other contractors. Locate toilets where directed and maintain them in a sanitary condition.

NUMBER OF EMPLOYEES	MINIMUM NUMBER OF FACILITIES
20 or less	One (1) toilet
20 or more	One (1) toilet and one (1) urinal per forty (40) employees
200 or more	One (1) toilet and one (1) urinal per fifty (50) employees

*Toilet/Urinal Combinations shall count as only one facility.

1. Where water and sewer connections are available, provide water closets; otherwise, provide approved chemical or electric toilets.
2. Inside buildings, locate toilet facilities no more than four stories or 60 ft above or below, nor more than 500 ft travel on the same level from the work location of any person.
3. Locate toilet facilities no more than 1,000 ft from any work location.

a. Exception: Mobile crews having readily available transportation to nearby toilet facilities.

1.6 PROTECTION OF WORK AND EXISTING PROPERTY

A. Protect installed Work and existing property during performance of the Work.

B. Maintain the building in a watertight condition during performance of the Work.

C. Provide temporary and removable protection for installed products. Control activity in the immediate work area to prevent damage.

D. Provide protective coverings at wall projections, jambs, sills, and soffit of openings.

E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, and movement of heavy objects by covering them with durable sheet materials.

F. Protect smoke detectors from airborne dust and debris.

1. At the beginning of each workday, provide protective coverings over smoke detectors in areas where airborne dust and debris will be generated by the Work.
2. At the end of the workday, clean the areas in which the smoke detectors are located by whatever means necessary to ensure that airborne dust and debris will not contaminate the smoke detectors, then remove protective coverings.
3. Provide signs, instructions, and alternate methods for reporting a fire during the periods that the smoke detectors are covered.
4. Notify the Director's Representative and have procedures approved.

G. Prohibit traffic or storage upon waterproofed and roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.

H. Protect existing trees and plants during performance of the Work unless otherwise indicated. Box trees and plants within the grading limit lines. Do not deposit excavated materials or store building materials around trees or plants. Do not attach guy wires to trees.

I. Prohibit traffic from landscaped areas.

J. Cleaning Tools of Cementitious and Other Insoluble Materials:

1. Do not wash tools in sinks or other sanitary drainage systems. Protect all drainage systems from debris that can clog or damage piping and fixtures.
2. Take all precautions necessary to prevent cementitious and other insoluble materials from flowing into floor drains.
3. Dispose of excess cementitious and other insoluble debris with the other rubbish.

1.7 BARRIERS AND ENCLOSURES

A. All Contracts: Provide barriers during performance of the Work to:

1. Prevent unauthorized entry to work areas.
2. Allow for the State's occupancy of the Site.
3. Protect existing facilities and adjacent properties from damage.
4. Protect vehicular and pedestrian traffic.

B. Construction Work Contract:

1. Temporary Dust Barriers: Provide temporary dust barriers to prevent the spread of dust from the work areas. Construct the dust barriers of wood framing sheathed with 6 mil polyethylene film. Secure the dust barriers in place without damaging existing construction.
2. Scaffolding, Hoist, and Equipment Barriers: Provide temporary fence enclosures as required to prevent unauthorized persons from coming in contact with ground-supported scaffolding, hoists, and equipment.

1.8 TEMPORARY FENCE ENCLOSURE

A. Construction Work Contract:

1. Provide temporary fence not less than 8 ft in height above grade.
2. Fabric: #9 ga galvanized steel, or equal gage aluminum, woven together into 2 in. diamond mesh, with both top and bottom edges having a twisted and barbed finish.
3. Posts, Rails, and Connections: Standard galvanized steel products of an approved manufacturer, of the size and types as required and approved. Provide top and bottom rails between all posts, secured with bolted connections.
4. Gates: Provide access gates for passage of employees and materials, complete with padlock. Fabricate gates with galvanized steel pipe perimeter covered with same fabric specified for fence. Furnish the Director's Representative with two keys per gate.
5. ~~Provide each post and gate with "V" shaped extension arms and with three (3) strands per side of four-point heavy galvanized steel barbed wire.~~
6.5. Erection: ~~Set posts 4 ft into the ground and~~ Provide ballasted posts not more than 10 ft apart. Install bottom rail not more than 2 in. above existing grade. Pull fabric taut and wire tightly to posts and rails at not more than 2 ft on center.
7.6. Maintain the temporary fence enclosure throughout the life of the Contract or until directed to be removed. Replace all items or portions of fence enclosure damaged or destroyed.

1.9 SECURITY

A. Key Deposits: A $25 deposit will be required for each key issued by the Facility. Deposits will be refunded upon return of the keys.

B. Facility Key Regulations

1. Sign Facility keys out and in on a daily basis unless otherwise directed.
2. Keep keys on person at all times while on the premises. Do not loan or give keys to other persons.
3. Do not remove keys from the premises without written permission from the Director's Representative.
4. Report lost, missing, or stolen keys immediately to the Facility Safety/Security Department. Assume responsibility for cost of necessary key and lock replacement as a result of lost, missing, or stolen keys.

C. Identification Cards

D. Promptly relock doors and security screens located in access routes, storage areas, and work areas after use.

E. Restore, by the end of each workday, existing in-place safety/security items such as doors, screens, and alarm systems components, that required removal, replacement, or adjustment to perform the Work, unless otherwise authorized in writing by the Director's Representative.

F. Remove all tools and materials from patient-occupied work areas when the work areas are not attended by employees and at the end of each workday. Store tools in a locked toolbox, cabinet, or shed. Store materials where directed in a location secure from access by patients and clients.

1.10 WATER CONTROLS

A. Provide and maintain pumping equipment necessary to keep the work areas free from water. Discharge water into existing storm drainage systems or otherwise disperse as directed.

1.11 FIRE PREVENTION

A. Take precautions necessary to prevent fires.

B. Fuel for cutting and heating torches shall be acetylene or LP gas only and shall be contained in Underwriters Laboratory– or Federal Department of Transportation–approved containers.

C. Furnish and maintain a currently inspected 20 lb capacity multiclass ABC fire extinguisher in the immediate vicinity where welding tools or torches are in use.

D. Furnish and maintain a currently inspected fire extinguisher of the appropriate class and size whenever the temporary storage of materials changes that area's classification of fire load or life safety.

E. Do not use flammable liquids, other than those specified, within a building without the written approval from the Director's Representative.

F. Tarpaulins shall be flameproof and shall be securely anchored when attached to scaffolding or when used to enclose any portion of a building.

G. If required by the nature of the work and Facility regulations, the Contractor shall obtain from the Facility and pay all costs associated with "Hot Work Permits," including fire watches to execute the work of its Contract. Perform hot work in accordance with the Fire Code of New York State and the Hot Work Program approved for the work. Prior to, during, and after performing hot work, inspect the hot work area for compliance with the requirements of the permitted Hot Work Program.

1. Post signage "Caution: Hot Work In Progress - Stay Clear" in conspicuous locations warning others before they enter a hot work area where the area is accessible to persons other than the operator of the hot work equipment.

H. Include facility hot works permit program requirements in the project manual appendix.

1. See applicable Facility permits and conditions bound in the Appendix.

1.12 TEMPORARY FIRE PROTECTION

A. If the existing building is to be partially occupied during the course of the project, all existing exits, fire walls, fire barriers, and fire protection systems shall be continuously maintained in the occupied phases in compliance with the Fire Code of New York State. Comply with NFPA 241 for items not specifically addressed in the Fire Code of New York State.

B. Those portions occupied by the Facility must be available for their use 24 hrs a day, seven days a week during the Contract period unless otherwise scheduled in these documents.

C. Prior to removal of existing fire walls, fire barriers, and fire protection systems, if such removal is part of the work, install equivalent temporary fire walls, fire barriers, and fire protection systems as defined in these documents and as approved by the Director's Representative and/or the facilities representative.

D. The cost of all labor, fire watches, variances, materials, installations, maintenance, and removal of such temporary fire protection systems or modifications to the existing systems are the responsibility of the Contractor. Install permanent fire walls, fire barriers, and fire protection systems, if provided as part of the work, as soon as practical.

1.13 ACCESS ROADS

A. Routes of ingress and egress on the premises to the location of the Work shall be as directed.

B. Keep designated access roads clear of dirt and debris resulting from the Work.

C. Provide means of removing mud from vehicle wheels before entering paved roads.

1.14 PARKING

A. All Contracts:

1. Park vehicles in areas where directed.
2. Keep designated parking areas clear of dirt and debris resulting from the Work.
3. If requested, register vehicles that are to be parked at the Facility with the Facility Safety/Security Department.
4. Remove ignition key from unattended vehicles and lock doors.

B. Construction Work Contract: Remove snow from parking areas allocated to all contractors.

1.15 RUBBISH REMOVAL

A. Clean up and containerize the rubbish (refuse, debris, waste materials, and removed materials and equipment) resulting from the Work at least once a day and more often if the rubbish interferes with the Work of others or presents a hazard. Leave work areas broom clean, except where more-stringent cleaning is specified, at the end of each day. Locate containerized rubbish on the Site where directed.

B. Remove rubbish from State property at least once a week and more often if the rubbish presents a hazard. Properly dispose of rubbish.

C. Burning of rubbish will not be permitted.

1.16 RELOCATION AND REMOVALS

A. Should a change in location of any construction facilities and temporary controls be necessary in order to progress the Work properly, remove and relocate such items as directed.

1. Electrical Work Contract: Frequently relocate/revise the temporary lighting as Contractors progress the Work of their contracts causing changes to the condition of the building (installation or relocation of walls, partitions, ceilings, equipment, etc.). Keep pace with the changes and maintain a minimum of 10 foot-candles in each recomposed work area.

B. Remove the construction facilities and temporary controls when they are no longer required. Restore permanent facilities used for or connected to temporary facilities to their original condition or better.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION 015000.02

SECTION 055213 - PIPE AND TUBE RAILINGS

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. Steel railings.
~~1.~~2. Aluminum railings

1.3 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of anchorages for railings. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

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:

1. Manufacturer's product lines of mechanically connected railings.
2. Fasteners.
3. Post-installed anchors.
4. Handrail brackets.
5. Shop primer.
6. Intermediate coats and topcoats.

7. Nonshrink, nonmetallic grout.
8. Metal finishes.
9. Paint products.

E. Shop Drawings: Include plans, elevations, sections, details, attachments to other work, and welding procedure specifications (WPS).

F. Samples for Initial Selection: For products involving selection of color, texture, or design, including mechanical finishes.

G. Samples for Verification: For each type of exposed finish required.

1. Sections of each distinctly different linear railing member, including handrails, top rails, posts, and balusters, including finish.
2. Fittings and brackets.
3. Assembled Sample of railing system, made from full-size components, including top rail, post, handrail, and infill. Sample need not be full height.

a. Show method of connecting and finishing members at intersections.

~~F.~~H. Delegated-Design Submittal: For railings, including analysis and design data signed and sealed by the qualified professional engineer, licensed in the State of New York, responsible for their preparation.

~~G.~~I. Qualification Data: For professional engineer's experience with providing delegated-design engineering services of the kind indicated, including documentation that engineer is licensed and registered in the State of New York

~~H.~~J. Welding certificates.

~~I.~~K. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.

~~J.~~L. Product Test Reports: For tests on railings performed by a qualified testing agency, in accordance with ASTM E894 and ASTM E935.

~~K.~~M. Research Reports: For post-installed anchors, from ICC-ES or other qualified testing agency acceptable to authorities having jurisdiction.

~~L.~~N. Source quality-control reports.

1. Documentation to confirm compliance.

1.5 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel in accordance with the following:

1. AWS D1.1, "Structural Welding Code - Steel."
~~1.~~2. AWS D1.2, "Structural Welding Code – Aluminum."

B. If the value of the contract exceeds $100,000 all structural steel, reinforcing steel and other major steel items to be incorporated in the Work of this Contract shall be produced and made in whole or substantial part in the United States, its territories or possessions.

C. Benchmarks:

1. The Benchmark Inspection establishes conformance to the Project Specifications when construction of each type of Work is first started.
2. The Director's Representative and the Contractor establish the extent of the first Work of each specific type to be used as a Benchmark, and the Work approved at each Benchmark will be the standard for this Work through its completion.
3. This Benchmark Inspection is conducted and documented when the first portion of any new Work is in place.
4. Benchmark Inspections should be the most numerous inspection type performed in the project.
5. The Director's Representative and Contractor's Representative will be present, and the Director's Design Consultant and Facility Representative will be invited to each Benchmark and their attendance will be at their discretion.
6. Follow-Up Benchmark Inspections will be conducted to ensure that the Work continues to be in conformance to the requirements of the Project.
7. BDC – 381 Benchmark Inspection Form to be provided.
8. Benchmarks to include the following scope items:

    a. Provide railings at Benchmark Nos. 11 and 14.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Protect mechanical finishes on exposed surfaces of railings from damage by applying a strippable, temporary protective covering before shipping.

1.7 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with railings by field measurements before fabrication.

1. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers.
2. Protect steel members and packaged materials from corrosion and deterioration.
3. Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures.

    a. Repair or replace damaged materials or structures as directed.

B. Store and handle galvanized steel members per the recommendations of the American Galvanized Association.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, licensed and registered to practice in the State of New York, to design railings, including attachment to building construction.

B. Structural Performance: Railings, including attachment to building construction, shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:

1. Handrails and Top Rails of Guards:

a. Uniform load of 50 lbf/ ft. applied in any direction.
b. Concentrated load of 200 lbf applied in any direction.
c. Uniform and concentrated loads need not be assumed to act concurrently.

2. Infill of Guards:

a. Concentrated load of 50 lbf applied horizontally on an area of 1 sq. ft.
b. Infill load and other loads need not be assumed to act concurrently.

C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.

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

2.2 METALS, GENERAL

A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.

B. Brackets, Flanges, and Anchors: Cast or formed metal of same type of material and finish as supported rails unless otherwise indicated.

1. Provide type of bracket with flange tapped for concealed anchorage to threaded hanger bolt and that provides 1-1/2-in. clearance from inside face of handrail to finished wall surface.

2.3 STEEL RAILINGS

A. 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:

1. Hollaender Mfg. Co.
2. Kee Safety, Inc.
3. VIVA Railings, LLC.
4. Approved equivalent.

B. Source Limitations: Obtain each type of railing from single source from single manufacturer.

C. Tubing: ASTM A500 (cold formed).

D. Pipe: ASTM A53, Type F or Type S, Grade A, Standard Weight (Schedule 40), unless another grade and weight are required by structural loads.

1. Provide galvanized finish for exterior installations and where indicated.

E. Plates, Shapes, and Bars: ASTM A36.

F. Cast Iron Fittings: Either gray iron, ASTM A48, or malleable iron, ASTM A47, unless otherwise indicated.

2.4 ALUMINUM RAILINGS

A. 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:

1. Fixfast USA.
2. Hollaender Mfg. Co.
3. Superior Aluminum Products, Inc.
4. Approved equivalent.

B. Source Limitations: Obtain each type of railing from single source from single manufacturer.

C. Aluminum, General: Provide alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with not less than the strength and durability properties of alloy and temper designated below for each aluminum form required.

D. Extruded Bars and Tubing: ASTM B221, Alloy 6063-T5/T52.

E. Extruded Structural Pipe and Round Tubing: ASTM B429, Alloy 6063-T6.

1. Provide Standard Weight (Schedule 40) pipe unless otherwise indicated.

F. Drawn Seamless Tubing: ASTM B210, Alloy 6063-T832.

G. Plate and Sheet: ASTM B209, Alloy 6061-T6.

H. Die and Hand Forgings: ASTM B247, Alloy 6061-T6.

I. Castings: ASTM B26, Alloy A356.0-T6.

~~2.4~~2.5 FASTENERS

A. Fastener Materials:

1. Ungalvanized-Steel Railing Components: Plated steel fasteners complying with ASTM F1941, Class Fe/Zn 5 for zinc coating.
2. Hot-Dip Galvanized Railing Components: hot-dip zinc-coated steel fasteners complying with ASTM A153 or ASTM F2329 for zinc coating.
3. Aluminum Railing Components recommended by Aluminum Railing manufacturer.
~~3.~~4. Finish exposed fasteners to match appearance, including color and texture, of railings.

B. Fasteners for Anchoring Railings to Other Construction: Select fasteners of type, grade, and class required to produce connections suitable for anchoring railings to other types of construction and capable of withstanding design loads.

C. Fasteners for Interconnecting Railing Components:

1. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless otherwise indicated.
2. Provide concealed fasteners for interconnecting railing components and for attaching them to other work, unless exposed fasteners are unavoidable or are the standard fastening method for railings indicated.
3. Provide security torx hex socket flat-head machine screws for exposed fasteners unless otherwise indicated.

D. Post-Installed Anchors: Fastener systems with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC193 or ICC-ES AC308.

1. Material for Exterior Locations: Alloy Group 2 stainless-steel bolts, ASTM F593, and nuts, ASTM F594.

~~2.5~~2.6 MISCELLANEOUS MATERIALS

A. Handrail Brackets: Cast aluminum, center of handrail 2-1/2 in. from face of railing

B. "Universal Shop Primer" Paragraph below specifies a typical primer for painted finishes that provides minimum protection to steel.

C. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.

1. Use primer containing pigments that make it easily distinguishable from zinc-rich primer.

D. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc-coated metal and compatible with finish paint systems indicated.

E. Intermediate Coats and Topcoats: Provide products that comply with Section 099114 “Exterior Paintings” (MPI Standards).

F. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout, complying with ASTM C1107. Provide grout specifically recommended by manufacturer for interior and exterior applications.

~~2.6~~2.7 FABRICATION

A. General: Fabricate railings to comply with requirements indicated for design, dimensions, member sizes and spacing, details, finish, and anchorage**,** but not less than that required to support structural loads.

B. Shop-assemble railings to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations.

1. Clearly mark units for reassembly and coordinated installation.
2. Use connections that maintain structural value of joined pieces.

C. Cut, drill, and punch metals cleanly and accurately.

1. Remove burrs and ease edges to a radius of approximately 1/32 in. unless otherwise indicated.
2. Remove sharp or rough areas on exposed surfaces.

D. Form work true to line and level with accurate angles and surfaces.

E. Fabricate connections that are exposed to weather in a manner that excludes water.

1. Provide weep holes where water may accumulate.
2. Locate weep holes in inconspicuous locations.

F. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.

G. Connections: Fabricate railings with welded or bolted connections unless otherwise indicated.

H. Welded Connections: Cope components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.

1. Comply with AWS requirements and approved welding procedure specifications.
2. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
3. Obtain fusion without undercut or overlap.
4. Remove flux immediately.
5. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Finish #3 welds; utilitarian appearance not subject to view, partially dressed weld with spatter removed.

I. Nonwelded Connections: Connect members with concealed mechanical fasteners and fittings. Fabricate members and fittings to produce flush, smooth, rigid, hairline joints.

1. Fabricate splice joints for field connection, using an epoxy structural adhesive, if this is manufacturer's standard splicing method.

J. Form changes in direction as follows:

1. As detailed.
2. By bending or by inserting prefabricated elbow fittings.

3. By flush bends or by inserting prefabricated flush-elbow fittings.
4. By radius bends of radius indicated or by inserting prefabricated elbow fittings of radius indicated.
5. By bending to smallest radius that will not result in distortion of railing member.

K. Bend members in jigs to produce uniform curvature for each configuration required. Maintain cross section of member throughout entire bend without buckling, twisting, cracking, or otherwise deforming exposed surfaces of components.

L. Close exposed ends of hollow railing members with prefabricated cap and end fittings of same metal and finish as railings.

M. Provide wall returns at ends of wall-mounted handrails unless otherwise indicated. Close ends of returns unless clearance between end of rail and wall is 1/4 in. or less.

N. Brackets, Flanges, Fittings, and Anchors: Provide wall brackets, flanges, miscellaneous fittings, and anchors to interconnect railing members to other work unless otherwise indicated.

1. At brackets and fittings fastened to plaster or gypsum board partitions, provide crush-resistant fillers or other means to transfer loads through wall finishes to structural supports and prevent bracket or fitting rotation and crushing of substrate.

O. Provide inserts and other anchorage devices for connecting railings to concrete or masonry work.

1. Fabricate anchorage devices capable of withstanding loads imposed by railings.
2. Coordinate anchorage devices with supporting structure.

P. For railing posts set in concrete, provide stainless steel sleeves not less than 6 in. long with inside dimensions not less than 1/2 in. greater than outside dimensions of post, with metal plate forming bottom closure.

Q. For removable railing posts, fabricate slip-fit sockets from stainless steel tube or pipe whose ID is sized for a close fit with posts; limit movement of post without lateral load, measured at top, to not more than one-fortieth of post height.

1. Provide socket covers designed and fabricated to resist being dislodged.
2. Provide chain with eye, snap hook, and staple across gaps formed by removable railing sections at locations indicated. Fabricate from same metal as railings.

R. Toe Boards: Where indicated, provide toe boards at railings around openings and at edge of open-sided floors and platforms. Fabricate to dimensions and details indicated.

~~2.7~~2.8 STEEL FINISHES ~~AND IRON FINISHES~~

A. For nongalvanized-steel railings, provide nongalvanized ferrous-metal fittings, brackets, fasteners, and sleeves; however, hot-dip galvanize anchors to be embedded in exterior concrete or masonry.

B. Preparation for Shop Priming: Prepare uncoated ferrous-metal surfaces to comply with SSPC-SP 6/NACE No. 3**.**

1. Exterior Railings: SSPC-SP 6/NACE No. 3.
2. Railings Indicated To Receive Zinc-Rich Primer: SSPC-SP 6/NACE No. 3.
3. Railings Indicated To Receive Primers Specified in Section 099114 "Exterior Painting": SSPC-SP 6/NACE No. 3.

C. Primer Application: Apply shop primer to prepared surfaces of railings unless otherwise indicated. Comply with requirements in SSPC-PA 1 for shop painting. Primer need not be applied to surfaces to be embedded in concrete or masonry.

1. Shop prime uncoated railings with zinc-rich primer is primers specified in Section 099114 "Exterior Paintings" (MPI Standards) are indicated.
2. Do not apply primer to galvanized surfaces.

D. Shop-Painted Finish: Comply with Section 099114 “Exterior Paintings” (MPI Standards).

1. Color: As selected by Director’s Representative from manufacturer's full range.

E. High-Performance Coating: Apply epoxy intermediate and polyurethane topcoats to prime-coated surfaces. Comply with coating manufacturer's written instructions and with requirements in SSPC-PA 1 for shop painting. Apply at spreading rates recommended by coating manufacturer.

1. Color: As selected by Director’s Representative from manufacturer's full range.

2.9 ALUMINUM FINISHES

A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are unacceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

B. High-Performance Organic Finish, Two-Coat Polyvinylidene Fluoride (PVDF): Fluoropolymer finish complying with AAMA 2605 and containing not less than 70 percent polyvinylidene fluoride (PVDF) resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

1. Color and Gloss: As selected by Director’s Representative from manufacturer's full range.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Perform cutting, drilling, and fitting required for installing railings.

1. Fit exposed connections together to form tight, hairline joints.

2. Install railings level, plumb, square, true to line; without distortion, warp, or rack.
3. Set railings accurately in location, alignment, and elevation; measured from established lines and levels.
4. Do not weld, cut, or abrade surfaces of railing components that are coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
5. Set posts plumb within a tolerance of 1/16 in. in 3 ft.
6. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 in. in 12 ft.

B. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

1. Coat concealed surfaces of aluminum that will be in contact with grout, concrete, masonry, wood, or dissimilar metals, with a heavy coat of bituminous paint.

C. Adjust railings before anchoring to ensure matching alignment at abutting joints.

D. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.

3.2 RAILING CONNECTIONS

A. Nonwelded Connections: Use mechanical or adhesive joints for permanently connecting railing components. Use wood blocks and padding to prevent damage to railing members and fittings. Seal recessed holes of exposed locking screws, using plastic cement filler colored to match finish of railings.

B. Welded Connections: Use fully welded joints for permanently connecting railing components. Comply with requirements for welded connections in "Fabrication" Article, whether welding is performed in the shop or in the field.

C. Expansion Joints: Install expansion joints at locations indicated but not farther apart than required to accommodate thermal movement. Provide slip-joint internal sleeve, extending 2 in. beyond joint on either side; fasten internal sleeve securely to one side; and locate joint within 6 in. of post.

3.3 ANCHORING POSTS

A. Use stainless steel pipe sleeves preset and anchored into concrete for installing posts. After posts are inserted into sleeves, fill annular space between post and sleeve with nonshrink, nonmetallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions.

~~A.~~B. Form or core-drill holes not less than 5 in. deep and 3/4 in. larger than OD of post for installing posts in concrete. Clean holes of loose material, insert posts, and fill annular space between post and concrete with nonshrink, nonmetallic grout, mixed and placed to comply with anchoring material manufacturer's written instructions.

~~B.~~C. Cover anchorage joint with flange of same metal as post, attached to post with setscrews.

~~C.~~D. Leave anchorage joint exposed with anchoring material flush with adjacent surface.

~~D.~~E. Anchor posts to metal surfaces with flanges, angle type, or floor type, as required by conditions, connected to posts and to metal supporting members as follows:

1. For steel railings, weld flanges to post and bolt to metal supporting surfaces.
2. For aluminum railings, attach posts as indicated, using fittings designed and engineered for this purpose.

3.4 ATTACHING RAILINGS

A. Anchor railing ends to concrete and masonry with flanges connected to, railing ends and anchored to wall construction with anchors and bolts.

B. Anchor railing ends to metal surfaces with flanges bolted to metal surfaces and connected to railing ends, using nonwelded connections.

C. Attach handrails to walls with wall brackets, except where end flanges are used. Provide brackets with 1-1/2-in.clearance from inside face of handrail and finished wall surface.

1. Use type of bracket with flange tapped for concealed anchorage to threaded hanger bolt
2. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.

D. Secure wall brackets and railing end flanges to building construction as follows:

1. For concrete and solid masonry anchorage, use drilled-in expansion shields and hanger or lag bolts.
2. For hollow masonry anchorage, use toggle bolts.

3.5 REPAIR

A. Touchup Painting:

1. Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

    a. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.

B. Touchup Painting: ~~Cleaning and t~~Touchup painting of field welds, bolted connections, and abraded areas of shop paint as recommended by the finish manufacturer~~are specified in Section 099114 "Exterior Painting (MPI Standards)~~.

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3.6 CLEANING

A. Clean by washing thoroughly with clean water and soap and rinsing with clean water.

3.7 PROTECTION

A. Protect finishes of railings from damage during construction period with temporary protective coverings approved by railing manufacturer. Remove protective coverings at time of Substantial Completion.

B. Restore finishes damaged during installation and construction period, so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit, or provide new units.

END OF SECTION 055213

SECTION 230900 - INSTRUMENTATION AND CONTROL FOR HVAC

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Control panel enclosures.
2. Thermostats.
3. Time clocks.
4. Alarm system.
5. Control air dampers.
6. Direct digital control system components.

B. Related Requirements:

1. Section 230513 - Common Motor Requirements for HVAC Equipment: Product requirements for electric motors.
2. Section 230553 - Identification for HVAC Piping and Equipment: Nameplates and labeling for control panels specified in this Section.
3. Section 230993 - Sequence of Operations for HVAC Controls: Sequences of operation implemented using products specified in this Section.
4. Project 45791-E Section 260502 - Basic Electrical Materials and Methods for Direct Digital Building Control System
5. Project 45791-E Section 260519 - Low Voltage Electrical Power Conductors and Cables

1.2 DEFINITION

A. FRP: Fiberglass-reinforced plastic.

1.3 REFERENCE STANDARDS

A. Air Movement and Control Association International, Inc.:

1. AMCA 500-D - Laboratory Methods of Testing Dampers for Rating.

B. American Society of Heating, Refrigerating and Air-Conditioning Engineers:

1. ASHRAE 62.1 - Ventilation for Acceptable Indoor Air Quality.

C. American Society of Mechanical Engineers:

1. ASME B16.18 - Cast Copper Alloy Solder Joint Pressure Fittings.
2. ASME B16.22 - Wrought Copper and Copper Alloy Solder Joint Pressure Fittings.

D. ASTM International:

1. ASTM A126 - Standard Specification for Gray Iron Castings for Valves, Flanges, and Pipe Fittings.
2. ASTM A536 - Standard Specification for Ductile Iron Castings.
3. ASTM B32 - Standard Specification for Solder Metal.
4. ASTM B88 - Standard Specification for Seamless Copper Water Tube.
5. ASTM B88M - Standard Specification for Seamless Copper Water Tube (Metric).
6. ASTM B280 - Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service.
7. ASTM D2737 - Standard Specification for Polyethylene (PE) Plastic Tubing.

E. American Welding Society:

1. AWS A5.8 - Specification for Filler Metals for Brazing and Braze Welding.
2. AWS A5.8M - Specification for Filler Metals for Brazing and Braze Welding.

F. National Electrical Manufacturers Association:

1. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).
2. NEMA DC 3 - Residential Controls - Electrical Wall-Mounted Room Thermostats.

G. National Fire Protection Association:

1. NFPA 72 - National Fire Alarm and Signaling Code.
2. NFPA 90A - Installation of Air-Conditioning and Ventilating Systems.

H. Underwriters Laboratories, Inc.:

1. UL 1820 - Fire Test of Pneumatic Tubing for Flame and Smoke Characteristics.

1.4 COORDINATION

A. Section 013000 - Administrative Requirements: Requirements for coordination.

1.5 PREINSTALLATION MEETINGS

A. Section 013000 - Administrative Requirements: Requirements for preinstallation meeting.

B. Convene minimum one week prior to commencing Work of this Section.

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. Section 013300 - Submittal Procedures: Requirements for submittals.

E. Product Data:

1. Submit description and engineering data for each control system component, including sizing as applicable.

F. Shop Drawings:

1. Indicate operating data, system drawings, wiring diagrams, and written, detailed operational description of sequences.
2. Coordinate submittals with information requested in Section 230993 - Sequence of Operations for HVAC Controls.

G. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

H. Qualifications Statements:

1. Submit qualifications for manufacturer and installer.
2. Submit manufacturer's approval of installer.

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

J. Manufacturer’s installation instructions shall be provided along with product data.

K. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).

1.7 CLOSEOUT SUBMITTALS

A. 017716 – Contract Closeout: Requirements for closeout procedures.

B. Project Record Documents: Record actual locations of control components, including panels, thermostats, and sensors.

C. Operation and Maintenance Data: Submit inspection period, cleaning methods, recommended cleaning materials, and calibration tolerances.

1.8 MAINTENANCE MATERIAL SUBMITTALS

A. 017716 – Contract Closeout: Requirements for maintenance materials.

1.9 QUALITY ASSURANCE

A. Perform Work according to the State of New York State standard.

1.10 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three years' experience.

B. Installer: Company specializing in performing Work of this Section with minimum three years' experience and approved by manufacturer.

1.11 DELIVERY, STORAGE, AND HANDLING

A. Section 016500 – Materials and Equipment: Requirements for transporting, handling, storing, and protecting products.

B. Inspection: Accept controls on-Site in original factory packaging and inspect for damage.

C. Store materials according to manufacturer's instructions.

1.12 EXISTING CONDITIONS

A. Field Measurements:

1. Verify field measurements prior to fabrication.
2. Indicate field measurements on Shop Drawings.

1.13 WARRANTY

A. 017716 – Contract Closeout: Requirements for warranties.

B. Furnish five-year manufacturer's warranty for each control-system component HVAC instrumentation.

PART 2 - PRODUCTS

2.1 CONTROL COMPONENT MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by the following:

1. Alerton Inc.
2. American Auto-Matrix.
3. Automated Logic Corporation.
4. Delta Controls Inc.

5. Distech Controls.
6. Honeywell International Inc.
7. Invensys Building Systems.
8. Johnson Controls, Inc.
9. KMC Controls (formerly Kreuter Manufacturing Company).
10. Reliable Controls Corporation.
11. Schneider Electric USA, Inc.
12. Siemens Industry, Inc., Building Technologies Division.
13. Teletrol Systems Incorporated.
14. Trane.
15. Approved equivalent.

~~B. Manufacturers:~~

~~1. Section 013300- Submittals - Product Requirements.~~

~~2.2 CONTROL PANEL ENCLOSURES~~

~~A. Furnish enclosure for each system under automatic control.~~

~~B. Equipment Mounting:~~

~~1. Within Cabinet: Relays and controls.~~
~~2. Flush on Cabinet Panel Face: Temperature indicators, pressure gages, pilot lights, push buttons, and switches.~~

~~C. Covers:~~

~~1. Continuous hinge.~~
~~2. Closure: Flush latch operable by key.~~

~~2.3~~2.2 THERMOSTATS

A. Provided by unit manufacturer.

1. Provide locking cover.

~~2.4~~2.3 ALARM SYSTEM

A. Manufacturers:

1. Section 013300- Submittals - Product Requirements

B. 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:

1. Honeywell
2. Johnson Controls

3. Trane Co.
4. Approved equivalent.

C. Components:

1. Alarm Panel:

a. Individual indication, horn.
b. SILENCE-ACKNOWLEDGE switch.
c. TEST switch.
d. Dry contacts for future use with remote alarm monitoring system to indicate each alarm condition.

2. Remote Panels:

a. Duplicate functions of primary panel.
b. Alarm SILENCE-ACKNOWLEDGE switch, to acknowledge alarm from each panel.

~~3. Main Alarm Panel:~~

~~a. Dry contacts for use with remote alarm monitoring system to indicate each alarm condition.~~

D. Control Sequences:

1. At alarm condition, light is energized to flash and audible alarm is energized.
2. Audible alarm is de-energized when ACKNOWLEDGE switch is pushed.
3. System annunciates alarm conditions by continuous light until trouble condition has cleared.
4. Alarm is annunciated again if second alarm occurs before first alarm has cleared.

~~2.5~~2.4 CONTROL AIR DAMPERS

A. Manufacturers:

1. Section 013300- Submittals - Product Requirements.

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Arrow United Industries.
2. Ruskin Company.
3. Approved equivalent.

B. Frames:

1. Materials: Extruded aluminum, welded or riveted with corner reinforcement.

C. Blades:

1. Material: Extruded aluminum

2. Attach to minimum 1/2-in. (13-mm) shafts with set screws.

D. Seals:

1. Blades:

a. Material: Synthetic elastomeric.
b. Mechanically attached.
c. Field replaceable.

2. Jambs: Stainless-steel spring.

E. Outside Air Damper Leakage: Maximum rate of 3 cfm per sq. ft. at 1 in. wg pressure differential.

F. Maximum Pressure Differential: 6-in. wg (1.5 kPa).

G. Temperature Limits: Minus 40 to 200 degrees F (Minus 40 to 93 degrees C).

~~2.6~~2.5 ELECTRIC DAMPER ACTUATORS

A. Manufacturers:

1. Section 013300- Submittals - Product Requirements

B. Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Belimo
2. Bettis
3. Siemens
4. Approved equivalent.

C. Operation: Two position.

D. Mounting: Direct.

E. Stroke:

1. Full Stroke: 90 seconds, end to end.
2. Spring Return: 15 seconds, return to normal.

F. Protection: Electronic stall.

G. Nominal Power: 120 V ac.

H. Torque: Sized for minimum 150 percent of required duty.

I. Duty Cycle: Rated for 65,000 cycles.

J. Accessories:

1. Cover-mounted transformer.
2. Auxiliary potentiometer.
3. Damper linkage.
4. Direct-drive feedback potentiometer.
5. Output position feedback.
6. Field-selectable, rotational, spring return direction.
7. Field-adjustable zero and span.
8. End switch.

~~2.7~~2.6 DIRECT DIGITAL CONTROL SYSTEM COMPONENTS

A. Temperature Sensors:
1. Accuracy:
a. Sensing Accuracy: Plus or minus 0.5 degree F (0.3 degree C).
b. Minimum Display Accuracy and Resolution: Plus or minus 1 degree F (0.6 degree C).

2. Communications Port: Built in.
3. Space Sensors:

a. Digital with LCD display, day-night override button, and set point slide adjustment override options.
b. Set Point Slide Adjustment: Capable of being software-limited by automation system, to limit amount of room adjustment.

~~B. Airflow Switches:~~

~~1. Description: UL listed; SPDT snap acting; pilot-duty rated at minimum 125 VA.~~
~~2. Type: Paddle as indicated in sequences of operation.~~
~~3. Scale Range: 0 to 1500 ft./min~~
~~4. Sensitivity: Adjustable.~~
~~5. Enclosure: Comply with NEMA 250 "Enclosures for Electrical Equipment (1000 Volts Maximum)", Type 1.~~

~~C. Refrigerant Detectors:~~

~~1. Description: Dual-level detectors, using solid-state sensors.~~
~~2. Alarm:~~

~~a. Preset: 300 ppm.~~
~~b. Indicator light.~~
~~c. SILENCE switch and light.~~
~~d. TEST switch and light.~~
~~e. TROUBLE light.~~

~~3. Auxiliary Relay: Preset for 150 ppm.~~

~~2.8~~2.7 OPERATION

A. Electrical Characteristics:
   1. Project 45791-E Section 260502 - Basic Electrical Materials and Methods for Direct Digital Building Control System
   2. Project 45791-E Section 260519 - Low Voltage Electrical Power Conductors and Cables

B. Motors: As specified in Section 230513 - Common Motor Requirements for HVAC Equipment.

C. Disconnect Switch: Factory mounted on equipment.

PART 3 - EXECUTION

3.1 EXAMINATION

A. 017716 – Contract Closeout Requirements for installation examination.

B. Verify locations of thermostats and other exposed control sensors with Drawings before installation.

C. Verify that building systems to be controlled are ready to operate.

3.2 INSTALLATION

A. Thermostats:
   1. Install thermostats in aspirating boxes.

B. Control Panels:

   1. Install control panels adjacent to associated equipment on vibration-free walls or freestanding supports.
   2. Use one cabinet for each system.
   3. Install engraved plastic nameplates for instruments and controls inside cabinet and engraved plastic nameplates on cabinet face, as specified in Section 230553 - Identification for HVAC Piping and Equipment.
   4. Label with appropriate equipment or system designation as specified in Section 230553 - Identification for HVAC Piping and Equipment.

C. Installation Standards: Install Work according to NYS electrical code and NEC standards.

3.3 FIELD QUALITY CONTROL

A. Section 014000 - Quality Requirements: Requirements for inspecting and testing.

B. After completion of installation, test and adjust control equipment.

C. Submit data showing set points and final adjustments of controls.

D. Calibration:

1. Check calibration of instruments.
2. Recalibrate instruments out of calibration.
3. Replace defective instruments.

E. Equipment Acceptance:

1. Adjust, repair, modify, or replace components failing to perform as specified, and rerun tests.
2. Make final adjustments to equipment under direction of manufacturer's representative.

F. Furnish Installation Certificate from equipment manufacturer's representative attesting that equipment has been properly installed and is ready for startup and testing.

3.4 DEMONSTRATION

A. 017716 – Contract Closeout: Requirements for demonstration and training.

B. Demonstrate complete operation of systems, including sequence of operation, equipment startup, shutdown, routine maintenance, and emergency repair procedures, to Director’s Representative's personnel.

3.5 MAINTENANCE

A. 017716 – Contract Closeout Requirements for maintenance service.

B. Provide service and maintenance of control system for one year from date of Substantial Completion.

C. Furnish complete service of controls systems, including callbacks.

D. Provide systematic examination, adjustment, and lubrication of unit and controls checkout and adjustments.

E. Repair or replace parts according to manufacturer's operating and maintenance data, using parts produced by manufacturer of original equipment.

F. Perform Work without removing units from service during normal building occupied hours.

G. Replacement Parts:
1. Ensure personnel availability to fulfill parts service without unreasonable loss of time.

H. Perform Work using personnel under supervision of manufacturer or original installer.

I. Do not assign or transfer maintenance service to agent or subcontractor without prior written consent of Director’s Representative.

END OF SECTION 230900

SECTION 238126 - SPLIT-SYSTEM AIR-CONDITIONERS

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 split-system air-conditioning and heat-pump units consisting of separate evaporator-fan and compressor-condenser components.

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 indicated. Include rated capacities, operating characteristics, and furnished specialties and accessories. Include performance data in terms of capacities, outlet velocities, static pressures, sound power characteristics, motor requirements, and electrical characteristics.

E. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.

1. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
2. Wiring Diagrams: For power, signal, and control wiring.

F. Field quality-control reports.

G. Warranty: Sample of special warranty.

1.4 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For split-system air-conditioning units to include in emergency, operation, and maintenance manuals.

1.5 QUALITY ASSURANCE

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

B. ASHRAE Compliance:

1. Fabricate and label refrigeration system to comply with ASHRAE 15, "Safety Standard for Refrigeration Systems."

C. ASHRAE/IES Compliance: Applicable requirements in ASHRAE/IES 90.1.

1.6 COORDINATION

A. Coordinate sizes and locations of supports with actual equipment provided.

1.7 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of split-system air-conditioning units that fail in materials or workmanship within specified warranty period.

1. Warranty Period:

a. For Compressor: Five year(s) from date of Substantial Completion.
b. For Parts: Five year(s) from date of Substantial Completion.
c. For Labor: Five year(s) from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. 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:

1. Mitsubishi Electric & Electronics USA, Inc.
2. Carrier Global Corporation.
3. Coleman Company Inc. (The).
4. Friedrich Air Conditioning Company.
5. Lennox Industries, Inc.; Lennox International.
6. Mitsubishi Electric & Electronics USA, Inc.
7. Samsung HVAC.
8. SANYO North America Corporation.
9. Trane.
10. YORK; brand of Johnson Controls International plc, Building Solutions North America.
11. Approved equivalent.

~~2.2 INDOOR UNITS (5 TONS OR LESS)~~

~~A. Concealed Evaporator Fan Components:~~

~~1. Chassis: Galvanized steel with flanged edges, removable panels for servicing, and insulation on back of panel.~~
~~2. Insulation: Faced, glass fiber duct liner.~~
~~3. Refrigerant Coil: Copper tube, with mechanically bonded aluminum fins and thermal expansion valve. Comply with ARI 206/110.~~
~~4. Fan: Forward-curved, double-width wheel of galvanized steel; directly connected to motor.~~
~~5. Fan Motors:~~
~~a. Multitapped, multispeed with internal thermal protection and permanent lubrication.~~
~~b. Wiring Terminations: Connect motor to chassis wiring with plug connection.~~

~~6. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1.~~
~~7. Filters: Permanent, cleanable.~~

~~B. Wall Mounted, Evaporator Fan Components:~~

~~1. Cabinet: Enameled steel with removable panels on front and ends in color selected by Architect, and discharge drain pans with drain connection.~~
~~2. Refrigerant Coil: Copper tube, with mechanically bonded aluminum fins and thermal expansion valve. Comply with ARI 206/110.~~
~~3. Fan: Direct drive, centrifugal.~~
~~4. Fan Motors:~~

~~a. Multitapped, multispeed with internal thermal protection and permanent lubrication.~~
~~b. NEMA Premium (TM) efficient motors as defined in NEMA MG 1.~~
~~c. Controllers, Electrical Devices, and Wiring: Comply with requirements for electrical devices and connections specified in electrical Sections.~~
~~d. Mount unit-mounted disconnect switches on exterior of unit.~~

~~5. Airstream Surfaces: Surfaces in contact with the airstream shall comply with requirements in ASHRAE 62.1.~~

~~6. Air Filtration Section:~~

~~a. General Requirements for Air Filtration Section:~~

~~1) Comply with NFPA 90A.~~
~~2) Minimum MERV according to ASHRAE 52.2.~~
~~3) Filter Holding Frames: Arranged for flat or angular orientation, with access doors on both sides of unit. Filters shall be removable from one side or lifted out from access plenum.~~

2.1 INDOOR UNITS WALL-MOUNTED, EVAPORATOR-FAN COMPONENTS:

A. Description: Factory-assembled and tested complete unit with components, piping, wiring, and controls required for mating to piping, power, and controls field connections.

B. Cabinet:

1. Material: Painted steel, or coated steel frame covered by a plastic cabinet, with an architectural acceptable finish suitable for tenant occupancy on exposed surfaces.
2. Insulation: Closed-cell internal insulation to provide thermal resistance and prevent condensation.
3. Internal Access: Removable panels of adequate size for field access to internal components for inspection, cleaning, service, and replacement.

C. Coil Assembly:

1. Coil Casing: Aluminum, galvanized, or stainless steel.
2. Coil Fins: Aluminum, mechanically bonded to tubes, with arrangement required by performance.
3. Coil Tubes: Copper, of diameter and thickness required by performance.
4. Unit Internal Tubing: Copper tubing with brazed joints.
5. Unit Internal Tubing Insulation: Closed-cell, of thickness to prevent condensation.
6. Factory Charge: Dehydrated air or nitrogen.
7. Testing: Factory pressure tested and verified to be without leaks.

D. Drain Assembly:

1. Pan: Non-ferrous material, with bottom sloped to low point drain connection.
2. Condensate Removal: Gravity.

    a. If a floor drain is not available at unit, provide unit with field-installed condensate pump accessory.

3. Field Piping Connection: Non-ferrous material.

E. Fan and Motor Assembly:

1. Fan(s):

    a. Direct-drive arrangement.
    b. Single or multiple fans connected to a common motor shaft and driven by a single motor.
    c. Fabricated from non-ferrous components or ferrous components with corrosion protection finish.
    d. Wheels statically and dynamically balanced.

2. Motor: Brushless DC or electronically commutated with permanently lubricated bearings.
3. Motor Protection: Integral protection against thermal, overload, and voltage fluctuations.
4. Speed Settings and Control: Multiple or variable speed with speed setting adjustable via central or wall controllers when present.
5. Vibration Control: Integral isolation to dampen vibration transmission.

F. Filter Assembly:

1. Access: Front, to accommodate filter replacement without the need for tools.
2. Media: Manufacturer's standard washable filter with antimicrobial treatment.

G. Grille Assembly: Manufacturer's standard discharge grille within front face of unit cabinet.

1. Motorized Vane: Adjustable or oscillating flow pattern.

H. Field-Installed Unit Accessories:

1. Condensate pump with integral white plastic housing for exposed surface mounting directly under indoor unit capable of at least 10 feet of lift with drain pan level sensor and overflow switch.

I. Unit Controls:

1. Factory-Installed Sensors:

a. Unit inlet air temperature.
b. Coil entering refrigerant temperature.

J. Unit Electrical:

1. Field Connection: Single point connection from outdoor unit provides power for indoor unit and signal for integral controls.

a. 3-wire plus ground 14 AWG copper wire for wire length unit up to 148 feet. Consult manufacturer installation manuals for wire sizes for longer lengths.

2. Disconnecting Means: Field-installed 3-pole switch, complying with NFPA 70.

2.2 OUTDOOR UNITS (5 TONS OR LESS)

~~C. Air-Cooled, Compressor-Condenser Components:~~

~~1. Casing: Steel, finished with baked enamel in color selected by Architect, with removable panels for access to controls, weep holes for water drainage, and mounting holes in base. Provide brass service valves, fittings, and gage ports on exterior of casing.~~
~~2. Compressor: Hermetically sealed with crankcase heater and mounted on vibration isolation device. Compressor motor shall have thermal- and current-sensitive overload devices, start capacitor, relay, and contactor.~~

~~a. Compressor Type: Scroll.~~
~~b. Refrigerant: R-454b~~

~~c. Refrigerant Coil: Copper tube, with mechanically bonded aluminum fins and liquid subcooler. Comply with ARI 206/110.~~

~~3. Heat Pump Components: Reversing valve and low-temperature air cutoff thermostat.~~
~~4. Fan: Aluminum propeller type, directly connected to motor.~~
~~5. Motor: Permanently lubricated, with integral thermal overload protection.~~
~~6. Mounting Base: Polyethylene.~~

A. Description: Factory-assembled and tested complete unit module designed for use in systems with all cooling demands.

B. Cabinet:

1. Galvanized steel and coated with a corrosion-resistant finish.

a. Coating with documented salt spray test performance of 2,000 hours according to ASTM B117 surface scratch test (SST) procedure.

2. Internal Access: Removable panels or hinged doors of adequate size for field access to internal components for inspection, cleaning, service, and replacement.

C. Compressor and Motor Assembly:

1. Positive-displacement, direct-drive and hermetically sealed rotary or scroll compressor with inverter drive. Non-inverter compressors—where LRA applies—are not allowed.
2. Protection: Integral protection against the following-

a. High and low refrigerant pressure.
b. High refrigerant and oil temperature.
c. Thermal and overload.
d. Voltage fluctuations.
e. Short cycling.

3. Vibration Control: Integral isolation to dampen vibration transmission.
4. Crankcase heater.
5. Accumulator.
6. Fusible plug.

D. Heat-Exchanger Assembly: Documented salt spray test performance of 2,000 hours according to ASTM B117 surface test (SST) procedure.

1. Plate Fin Coils:

a. Casing: Aluminum, galvanized, or stainless steel.
b. Fins: Aluminum or copper, mechanically bonded to tubes, with arrangement required by performance.

c. Tubes: Copper, of diameter and thickness required by performance.

E. Heat-Exchanger Fan and Motor Assembly:

1. Fan(s): Propeller type.

a. Horizontal discharge.
b. Direct-drive arrangement.
c. Fabricated from non-ferrous components.
d. Statically and dynamically balanced.

2. Fan Guards: Removable safety guards complying with OSHA regulations. If using metal materials, coat with corrosion-resistant coating to match performance indicated for heat exchanger.
3. Motor(s): Brushless DC or electronically commutated with permanently lubricated bearings and rated for outdoor duty.
4. Motor Protection: Integral protection against thermal, overload, and voltage fluctuations.

F. DX Capacity Control: Electronic modulating type expansion valve with linear or proportional characteristics.

G. Standard Operating Range:

1. COOL Mode: 23°F to 115°F DB.

a. Unit shall deliver 100 percent cooling capacity at minimum range.

2. HEAT Mode:

a. Standard heat pump as indicated on Drawings:

1) -4°F to 59°F WB

H. Unit Controls:

1. Factory-Installed Sensors:

a. Refrigerant suction temperature.
b. Refrigerant discharge temperature.
c. Compressor surface temperature.
d. Refrigerant high pressure.
e. Outdoor air temperature.
f. Outdoor coil heat sink temperature.
g. Outdoor coil two-phase pipe temperature.Features and Functions: Self-diagnostics, 3-minute time delay, auto-restart after power interruption.

I. Refrigerant:

1. R-454b.
2. Precharged refrigerant supplied.

J. Refrigerant Piping Allowances: System shall operate up to maximum limits without need for line size changes, traps or additional oil.

K. Unit Electrical:

1. Field Connection: Single point connection to power each outdoor unit and integral controls.
2. Disconnecting Means: Field-installed circuit breaker or switch, complying with NFPA 70.

2.3 ACCESSORIES

A. Control equipment and sequence of operation are specified in 230993.0 Sequence of Operations for HVAC Controls and 230900.0 Instrumentation and Control for HVAC.

B. Thermostat: Low voltage with subbase to control compressor and evaporator fan.

1. Compressor time delay.
2. 24-hour time control of system stop and start.
3. Liquid-crystal display indicating temperature, set-point temperature, time setting, operating mode, and fan speed.
4. Fan-speed selection including auto setting.

C. Automatic-reset timer to prevent rapid cycling of compressor.

~~C.~~D. Condensate Pump, Drain Pan Level Sensor and Drain Hose: For condensate.

~~D.~~E. Monitoring:

1. Monitor constant and variable motor loads.
2. Monitor cooling load.

2.4 CAPACITIES AND CHARACTERISTICS

1. See Schedule
2. Disconnecting Means: Field-installed 3-pole switch, complying with NFPA 70.

2.5 HVAC SYSTEM CONTROLLERS

A. Wired Controllers for Indoor Units

1. Simple Controllers for Indoor Units:

   a. Single controller capable of controlling multiple indoor units as group.
   b. Integral room temperature sensor
   c. Temperature Units: Fahrenheit and Celsius.
   d. On/Off: Turns indoor unit on or off.
   e. Operation Mode: Cool, Heat, Auto, Dehumidification, Fan Only.
   f. Temperature Display and Set-Point: Separate set points for Cooling, Heating. Adjustable in 1-degree Fahrenheit increments between.
   g. Fan Speed Setting: Select between available options furnished with unit.
   h. Airflow Direction Setting: If applicable to indoor unit style, select between available options furnished with the unit.
   i. Service Notification Display: "Filter".
   j. Error Code Notification Display: Used by service personnel to troubleshoot abnormal operation and equipment failure.
   k. Low-voltage power required for controller shall be powered through non-polar connections to indoor unit.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install units' level and plumb.

B. Install evaporator-fan components using manufacturer's standard mounting devices securely fastened to building structure.

C. Install compressor-condenser components on equipment supports.

D. Equipment Mounting:

1. Comply with requirements for vibration isolation devices specified in Section 230548.13 "Vibration Controls for HVAC."

3.2 CONNECTIONS

A. Piping installation requirements are specified in other Sections. Drawings indicate general arrangement of piping, fittings, and specialties.

B. Where piping is installed adjacent to unit, allow space for service and maintenance of unit.

3.3 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a Company Service Advisor to inspect, test, and adjust components, assemblies, and equipment installations, including connections.

B. Perform tests and inspections.

1. Manufacturer's Field Service: Engage a Company Service Advisor to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

C. Tests and Inspections:

1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
2. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

D. Remove and replace malfunctioning units and retest as specified above.

E. Prepare test and inspection reports.

3.4 STARTUP SERVICE

A. Engage a Company Field Advisor per OGS Spec Section 014216 to Perform startup service.

1. Complete installation and startup checks according to manufacturer's written instructions.

3.5 DEMONSTRATION

A. Engage a Company Field Advisor per OGS Spec Section 014216 to train Director’s Representative's Facility’s maintenance personnel to adjust, operate, and maintain units.

END OF SECTION 238126

DESIGN CRITERIA AND GENERAL REQUIREMENTS

REFER ALSO TO THE PROJECT GENERAL CONDITIONS AND SPECIFICATIONS LOCATED IN THE PROJECT MANUAL.

1.1 DESCRIPTION OF WORK:

A. FACADE AND ROOF REHABILITATION, SITE IMPROVEMENTS, STAIR AND RAMP REHABILITATION AND ADDITIONS, INTERIORS, AND ASSOCIATED BUILDING SYSTEMS, AS SHOWN ON THE DRAWINGS.

1.2 ZONING DATA:

A. ADDRESS: 79-25 WINCHESTER BOULEVARD, QUEENS, NY 11427
B. BLOCK: 7880
C. LOT: 1
D. ZONE: R3-2
E. MAP: 15c

1.3 ENVIRONMENTAL ABATEMENT

A. SOME MATERIALS IN THE EXISTING CONSTRUCTION INCLUDE HAZARDOUS MATERIALS. REFER TO THE HAZARDOUS MATERIALS REMOVAL DOCUMENTS BY ATLANTIC TESTING LABORATORIES, PC FOR ALL WORK RELATED TO THE ABATEMENT OF HAZARDOUS MATERIALS PRIOR TO PROCEEDING WITH ANY REMOVAL ACTIVITIES.

1.4 GENERAL NOTES

A. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE CODES AND LOCAL REQUIREMENTS. CONTRACTOR MUST COMPLY WITH CONTRACTOR REGISTRATION REQUIREMENTS OF ALL GOVERNING AUTHORITIES AND ALL WORKER SAFETY STANDARDS. WORK SHALL NOT COMMENCE UNTIL ALL PERMITS REQUIRED FOR THE SUBJECT PORTION OF THE WORK ARE OBTAINED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL REQUIRED PERMITS AND/OR EVIDENCE OF COMPLIANCE WITH APPLICABLE STATE AND LOCAL REGULATIONS ON SITE AT ALL TIMES DURING THE EXECUTION OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY AND ALL CONSTRUCTION PERMITS PRIOR TO THE START OF ANY CONSTRUCTION.

B. NO WORK SHALL START UNTIL APPROVAL IS OBTAINED FROM THE NEW YORK STATE OFFICE OF GENERAL SERVICES DESIGN AND CONSTRUCTION (OGS D&C) AND THE OFFICE OF MENTAL HEALTH (OMH).

C. FIELD MEASUREMENTS: VERIFY ALL SITE CONDITIONS AND DIMENSIONS BY FIELD MEASUREMENTS BEFORE MATERIAL FABRICATION OR DELIVERY AND INDICATE MEASUREMENTS ON SHOP DRAWINGS. NOTIFY THE DIRECTOR'S REPRESENTATIVE IMMEDIATELY OF ANY INCONSISTENCY BETWEEN THE CONDITIONS FOUND AND THOSE SHOWN IN THE CONTRACT DRAWINGS. COORDINATE FABRICATION SCHEDULE WITH CONSTRUCTION PROGRESS TO AVOID DELAYING THE WORK. CONSIDER THE SPECIAL CONDITIONS ASSOCIATED WITH REPAIRS TO EXISTING CONSTRUCTION WHEN MEASURING FOR SHOP DRAWINGS.

D. ALL ITEMS NOT NOTED AS "EXISTING (E)" ARE TO BE PROVIDED BY THE CONTRACTOR.

E. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY. SPECIAL PRECAUTIONS MAY BE REQUIRED IN THE VICINITY OF POWER LINES AND OTHER UTILITIES.

F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR PERFORMING THE WORK.

G. NOTIFY THE DIRECTOR'S REPRESENTATIVE AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.

H. NO SIGN OF ADVERTISEMENTS SHALL BE DISPLAYED ON THE SITE EXCEPT AS REQUIRED BY THE CONTRACT.

I. MEETINGS:
   1. HOLD A PRE-CONSTRUCTION MEETING WITH THE DIRECTOR'S REPRESENTATIVE TO DISCUSS WORK AND SCHEDULING, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
      A. CERTIFICATE OF INSURANCE.
      B. CONSTRUCTION SCHEDULE AND PROPOSED WORKFORCE.
      C. FINAL LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS.
      D. SCHEDULE OF SUBMITTALS.
      E. APPROVED APPLICATOR CERTIFICATES.
      F. SAFETY.
      G. RECORD DRAWINGS.
      H. LIST OF NAMES AND NUMBERS FOR EMERGENCY CONTACTS.
      I. REVIEW THE CONTRACT DOCUMENTS TO RESOLVE ERRORS, OMISSIONS, OR INCONSISTENCIES DISCOVERED.
      J. MAINTENANCE OF EXITS.
      K. WEATHER PROTECTION PROCEDURES.
      L. ANY WORK AFFECTING NEIGHBORING PROPERTIES.
      M. FACILITY SECURITY REQUIREMENTS.
      N. REQUIRED TEMPORARY CONTROLS.

J. REFER TO SPECIFICATION SECTION 013113 FOR SCHEDULING REQUIREMENTS.

K. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN, FURNISH, AND INSTALL ALL NECESSARY TEMPORARY SHORING, BRACING, OR OTHER MEANS OF STRUCTURAL SUPPORT TO SAFELY RETAIN ALL EXISTING BRICK AND/OR STONE MASONRY DURING CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO THE REMOVAL OF MASONRY BELOW. ALL SHORING SYSTEMS SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND INSTALLED IN ACCORDANCE WITH APPLICABLE CODES AND INDUSTRY BEST PRACTICES. THE CONTRACTOR SHALL VERIFY SITE CONDITIONS AND ENSURE THAT ADJACENT CONSTRUCTION IS ADEQUATELY SUPPORTED AT ALL TIMES.

1.5 STAGING AND PROTECTION REQUIREMENTS

A. DESIGNATED STAGING AND STORAGE AREAS ARE TO BE COORDINATED WITH THE DIRECTOR'S REPRESENTATIVE, AND MUST NOT INTERFERE WITH ANY EXISTING WORK IN PROGRESS.

B. ERECT STAGING OR SCAFFOLDING, AS REQUIRED, TO ACCESS THE WORK AREAS. ALL STAGING AND SCAFFOLDING SHALL BE DESIGNED BY AN ENGINEER LICENSED IN THE STATE OF NEW YORK, AND SHALL BE FILED WITH THE NYC BUILDING DEPARTMENT UNDER A SEPARATE APPLICATION. FOR SUSPENDED SCAFFOLDING, CONTRACTOR IS RESPONSIBLE TO INVESTIGATE THE CONDITION OF EXISTING PARAPETS AND BULKHEADS TO DETERMINE THEIR CAPACITY TO RESIST LOADS IMPOSED, INCLUDING MAKING AND RESTORING OPENINGS AND ENGAGING A LICENSED ENGINEER TO INVESTIGATE THE CONDITION OF EXISTING PARAPETS AND BULKHEADS. EXISTING PARAPETS INCLUDE MULTI-WYTHE UNREINFORCED BRICK MASONRY. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED CALCULATIONS FROM LICENSED ENGINEER DEMONSTRATING COMPLIANCE WITH THE SPECIFIED BUILDING CODES AND REFERENCED STANDARDS. THE SCAFFOLDING DESIGN SHALL COMPLY WITH THE SPECIFIED BUILDING CODES AND REFERENCED STANDARDS. PROVIDE THE DIRECTOR'S REPRESENTATIVE, OWNER AND OTHERS HIRED BY THE OWNER, SAFE ACCESS TO THE WORK DURING NORMAL WORK HOURS.

C. PROVIDE CONSTRUCTION FENCE WITH BALLASTED POSTS AND LOCKABLE GATES TO ENCLOSE WORK, STORAGE, AND STAGING AREAS FOR THE DURATION OF THE PROJECT. CONTRACTOR RESPONSIBLE FOR KEEPING ALL AREAS CLEAN AND REMOVING CONSTRUCTION DEBRIS FROM THE SITE PROMPTLY.

D. MAINTAIN REQUIRED MEANS OF EGRESS. ENTRY AREAS MUST BE MAINTAINED CLEAR AND FREE OF ALL OBSTRUCTIONS AND HAZARDS, INCLUDING TEMPORARY PLACEMENT AND DELIVERY OF BUILDING MATERIALS, TOOLS, ETC. MAINTAIN SAFE PEDESTRIAN ACCESS AROUND AND UNDER ANY SCAFFOLDING AND PUBLICLY TRAFFICKED WALK AREAS AT ALL TIMES. MAINTAIN ALL EMERGENCY EGRESS LOCATIONS, MEETING ALL APPLICABLE BUILDING CODES AND REGULATORY REQUIREMENTS.

E. PROTECT EXISTING MECHANICAL EQUIPMENT, FIXTURES AND OTHER MISCELLANEOUS BUILDING COMPONENTS SCHEDULED TO REMAIN DURING ALL WORK.

F. PROVIDE TEMPORARY WEATHERTIGHT PROTECTION OF ALL WALL OPENINGS AT THE END OF EVERY WORK DAY AND WHILE WORK IS BEING PERFORMED WHERE OPENINGS HAVE BEEN MADE. KEEP WATER OUT OF THE BUILDING AT ALL TIMES. PROVIDE WIND PROTECTION. WIND LOADS SHOULD NOT EXCEED CAPACITY OF EXPOSED BUILDING ELEMENTS AND TEMPORARY PROTECTION.

G. STAGING AND SCAFFOLD TO REMAIN IN PLACE ONLY AS NEEDED TO PERFORM THE WORK.

H. THE CONTRACTOR SHALL KEEP THE WORK SITE FREE OF DEBRIS AND ACCUMULATED REFUSE, AND SHALL LEAVE THE SITE CLEAN AT THE END OF EACH WORKING DAY.

I. HANDLE ALL MATERIALS TO PREVENT DAMAGE. PLACE MATERIALS ON PALLETS. USE CANVAS TARPAULINS TO COVER ALL STORED MATERIALS, TOP AND BOTTOM.

J. EXECUTE THE WORK WITH MINIMAL DISRUPTION TO THE OCCUPANTS AND THE OPERATION OF THE BUILDING. ACCESS TO THE SITE AND CONSTRUCTION HOURS TO BE COORDINATED WITH OGS D&C AND OMH.

K. CLEAN ALL SURFACES, MECHANICAL EQUIPMENT AND EXTERIOR GLAZING AFTER COMPLETION OF THE WORK. RESTORE HARDSCAPE, SITE CONDITIONS, AND LANDSCAPING IMPACTED BY WORK TO ORIGINAL CONDITION.

L. PER NYCBC 3307.6.4, SIDEWALK SHED SHALL BE DESIGNED AS A HEAVY DUTY SIDEWALK SHED TO CARRY A LIVE LOAD OF AT LEAST 300 PSF. NO MATERIAL SHALL BE STORED OR PLACED UPON THE SIDEWALK SHED UNLESS THE SHED IS DESIGNED FOR SUCH STORAGE, WITH SUCH AREAS OF STORAGE OR PLACEMENT CLEARLY DESIGNATED ON THE DRAWINGS.

1.6 OCCUPANT PROTECTION PLAN

A. ALL OCCUPANT SPACES OF THE BUILDING WILL BE OCCUPIED DURING THE WORK. THE THIRD FLOOR WILL REMAIN VACANT FOR THE DURATION OF THE WORK.

B. CONTRACTOR SHALL MAINTAIN ALL EGRESS PATHS WITHIN OCCUPANT SPACES, AND WITHIN HALLWAYS, LOBBIES, AND STAIR WELLS. THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF A 3 FOOT WIDE EGRESS PATH AT ALL TIMES DURING THE WORK.

C. THE CONTRACTOR SHALL NOT DISRUPT ANY FIRE SAFETY EQUIPMENT DURING THE COURSE OF THE WORK INCLUDING BUT NOT LIMITED TO, FIRE ALARMS, FIRE EXTINGUISHERS AND HOSES, ENUNCIATORS, SMOKE DETECTORS, ETC. IF THE FIRE SAFETY SYSTEMS INTERFERE WITH THE WORK, THE CONTRACTOR SHALL NOTIFY THE DIRECTOR'S REPRESENTATIVE PRIOR TO PERFORMING THE WORK.

D. ALL BUILDING MATERIALS WHICH ARE STORED AT THE SITE OR ANY AREA OF THE BUILDING ARE TO BE STORED IN A LOCKED AREA. ACCESS TO THE AREA IS TO BE CONTROLLED BY THE DIRECTOR'S REPRESENTATIVE OR THE CONTRACTOR. ALL FLAMMABLE MATERIALS ARE TO BE KEPT TIGHTLY SEALED IN THEIR RESPECTIVE MANUFACTURER'S CONTAINER, AND STORED IN AN ADEQUATELY VENTILATED SPACE AWAY FROM HEAT. STORAGE OF FLAMMABLE MATERIALS IN THE BUILDING IS NOT ALLOWED. ALL ELECTRICAL POWER IS TO BE SHUT OFF WHERE THERE ARE EXPOSED CONDUITS. ALL ELECTRICAL POWER IN THE CONSTRUCTION AREA IS TO BE SHUT OFF AFTER WORKING HOURS. CONTRACTOR TO ENSURE THERE IS NO NATURAL GAS LEAKAGE IN THE BUILDING OR ANY FLAMMABLE GAS TO BE USED DURING CONSTRUCTION.

E. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING NOISE AND DUST DURING THE WORK AS REQUIRED BY THE APPLICABLE STATE AND LOCAL REGULATIONS, AND AS INSTRUCTED BY THE DIRECTOR'S REPRESENTATIVE. CONTRACTOR SHALL SUBMIT THEIR PROPOSED CONTROL SYSTEMS TO THE DIRECTOR'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO PERFORMING THE WORK. PROVIDE LOCALIZED TEMPORARY DUST BARRIERS WHERE INDICATED OR AS NEEDED WITH SAFETY WARNING TAPE.

F. CONTRACTOR TO PROVIDE TWO WEEK NOISE LOOK AHEAD FOR APPROVAL BY THE FACILITY PRIOR TO REMOVALS AT OCCUPIED FLOORS.

G. NO STRUCTURAL WORK SHALL BE PERFORMED BY THE CONTRACTOR THAT MAY ENDANGER THE OCCUPANTS OF THE BUILDING. ALL STRUCTURAL WORK SHALL CONFORM TO THE APPROVED PLANS.

H. THE FACILITY WILL TEMPORARILY RELOCATE PERSONNEL, FUNCTIONS, AND FURNITURE FROM THE WORK AREA. HOWEVER, SURROUNDING AREAS WILL REMAIN OCCUPIED AND FULLY OPERATIONAL THROUGHOUT ALL CONSTRUCTION OPERATIONS. CONTRACTOR TO TAKE ALL NECESSARY MEASURES TO ASSURE THAT ALL NORMAL OPERATIONS THROUGHOUT THE BUILDING ARE NOT INTERRUPTED BY THEIR OPERATIONS.

I. COORDINATE ACCESS TO EACH WORK AREA WITH THE DIRECTOR'S REPRESENTATIVE BEFORE BEGINNING WORK. PROVIDE FLOOR AND INTERIOR FINISH PROTECTION THROUGHOUT THE APPROVED PASSAGEWAY. THE FACILITY MAINTAINS THE RIGHT TO LIMIT TIMES WHEN THIS PASSAGEWAY CAN BE UTILIZED FOR WORKER ACCESS, MATERIAL DELIVERY AND DEBRIS REMOVAL. CLEAN, VACUUM, OR MOP ALL INTERIOR FINISHES AS REQUIRED TO LEAVE VISIBLY CLEAN SURFACES AT THE CONCLUSION OF EACH WORK DAY.

J. UPON REMOVAL OF TEMPORARY PARTITIONS AND TEMPORARY DUST BARRIERS REMOVE ALL ANCHORS AND ADHESIVE RESIDUE. PATCH PLASTER & CONCRETE AT ALL ANCHOR REMOVAL LOCATIONS. DO NOT PAINT UNLESS SPECIFICALLY INDICATED.

1.7 UTILITY NOTES

A. NO UTILITY SERVICE SHALL BE DISRUPTED WITHOUT FIRST WRITTEN CONSENT FROM DIRECTOR'S REPRESENTATIVE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER SHOWN HEREIN OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK. CONTRACTOR IS RESPONSIBLE FOR CONTACTING UTILITY OWNERS AND MAKING SPECIAL PROVISIONS FOR WORK NEAR UTILITIES AS REQUIRED.

B. CONTRACTOR SHALL NOT ALLOW ANY UTILITY OR SERVICES TO THE NEIGHBORING BUILDINGS TO BE INTERRUPTED WITHOUT THE EXPRESSED WRITTEN PERMISSION OF THE OWNER. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL UTILITY SERVICES. IF IT IS NECESSARY FOR CONNECTIONS TO BE INTERRUPTED, THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY SERVICES (I.E. GENERATORS, PORTABLE GAS TANKS, ETC.).

C. ALL UTILITY WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. NOTIFY THE DIRECTOR'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCY FOUND BETWEEN THE FIELD CONDITIONS, THESE PLANS AND/OR GOVERNING REGULATIONS.

1.8 PROTECTION OF PEDESTRIANS

A. A SIDEWALK SHED SHALL BE ERECTED BY THE CONTRACTOR AT THE AREAS REQUIRED, PRIOR TO START OF CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL COMPLETION OF THE WORK.

B. BEFORE ERECTING SIDEWALK SHED, THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY GOVERNING NEW YORK AGENCIES.

C. SIDEWALK SHED SHALL COMPLY FULLY WITH REQUIREMENTS OF SECTION 3307 OF THE BUILDING CODE OF NEW YORK CITY AND THE CODES, THE DEPARTMENT OF TRANSPORTATION, AND STANDARDS REFERENCED ON THE DRAWINGS, WHICHEVER IS MOST STRINGENT.

D. PER NYCBC 3316, HOISTING EQUIPMENT, ITS SUPPORTS AND RUNBACK STRUCTURES SHALL BE INSTALLED, OPERATED, AND MAINTAINED TO ELIMINATE HAZARD TO THE PUBLIC OR TO PROPERTY. HOISTING EQUIPMENT, ITS SUPPORTS AND RUNBACK STRUCTURES SHALL BE DESIGNED, CONSTRUCTED AND INSPECTED IN ACCORDANCE WITH RULES PROMULGATED BY THE COMMISSIONER.

1.9 ROOFING REMOVAL AND RECONSTRUCTION - PHASING AND SCHEDULE

A. CONTRACTOR TO PROVIDE SUFFICIENT LABOR, SUPERVISION, AND RESOURCES TO REMOVE AND RECONSTRUCT EACH OF THE ROOFS FROM APRIL TO 31 OCTOBER, WITHIN THE FIRST YEAR OF THE PROJECT.

1

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 023044

O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0022089

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ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Architectural Resources

MEP ENGINEER:

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STATE OF NEW YORK · MATTHEW J. NORMANDIA · 089360 · LICENSED PROFESSIONAL ENGINEER

Matthew J. Normandia
Mechanical, Electrical & Plumbing Engineer

REGISTRATION EXPIRES: 01/31/2029

CONTRACT:

CONSTRUCTION

TITLE:

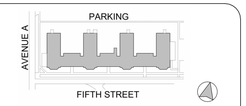
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:

CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:

NEW YORK STATE OFFICE OF MENTAL HEALTH



MARK	DATE	DESCRIPTION
1	10/20/2026	ADDENDUM #3
	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS

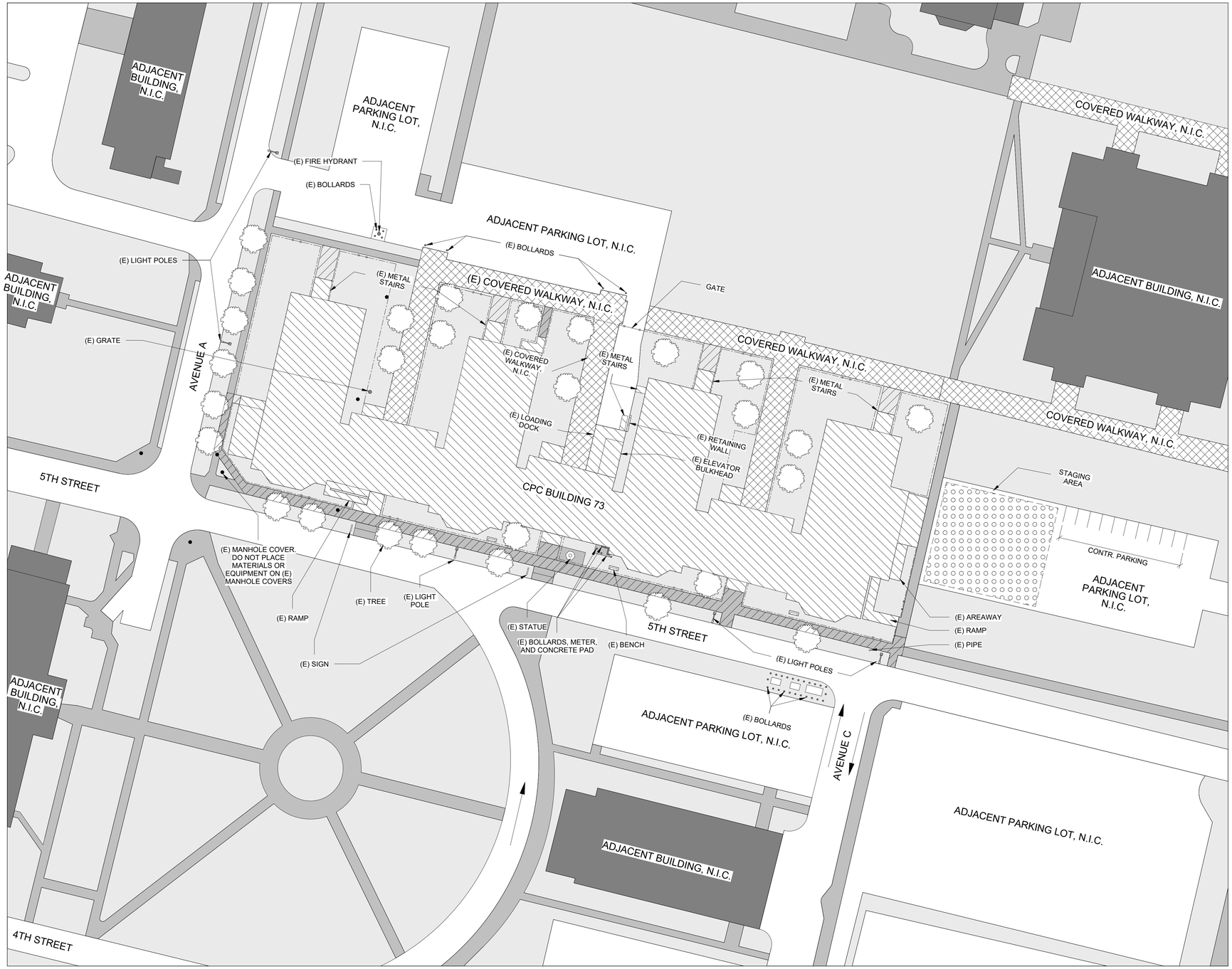
PROJECT NUMBER:	45791-C
DESIGNED BY:	MJN
DRAWN BY:	TOC
FIELD CHECK:	DAD
APPROVED:	MJN

SHEET TITLE:

GENERAL NOTES

DRAWING NUMBER:

G-003



1 SITE LOGISTICS PLAN
1/32" = 1'-0"

LEGEND

- SCOPE OF WORK
- ADJACENT BUILDING, N.I.C.
- ADJACENT COVERED WALKWAY, N.I.C.
- ROAD/PARKING, N.I.C.
- SIDEWALK, N.I.C.
- STAGING AREA
- GRADE
- OVERHEAD PROTECTION
- DIRECTIONS OF TRAFFIC FLOW
- TEMPORARY FENCE
- TEMPORARY GATE
- (E) TREE. SEE DETAIL 1/G-007 FOR TREE PROTECTION.

NOTES:

1. PROVIDE STORAGE REQUIRED FOR BUILDING MATERIALS AND EQUIPMENT AS NEEDED.
2. COORDINATE ACCESS TO CPC 73 WITH DIRECTOR'S REPRESENTATIVE. TRAFFIC MUST NOT BE BLOCKED.
3. TREES ADJACENT TO SCOPE OF WORK AREA SHOWN FOR REFERENCE. TREES OUTSIDE OF SCOPE OF WORK AREA NOT SHOWN.

OVERHEAD PROTECTION:

1. PROVIDE OVERHEAD PROTECTION OVER ALL ENTRANCES/EXITS. PROVIDE PROTECTION OVER SIDEWALKS WHERE INDICATED ON PLAN.
2. PROVIDE NECESSARY GROUNDING FOR ALL OVERHEAD PROTECTION TO PROTECT AGAINST ANY LIGHTNING STRIKE OR ELECTRICAL HAZARD.
3. OVERHEAD PROTECTION SHALL REMAIN IN PLACE UNTIL ALL CONTRACT WORK IS COMPLETED, OR AS DIRECTED BY THE DIRECTOR'S REPRESENTATIVE.
4. OVERHEAD PROTECTION CANNOT BE ATTACHED TO THE BUILDING AT ANYTIME.

CONTRACTOR'S RESPONSIBILITIES:

1. IT IS THE RESPONSIBILITY OF THE SCAFFOLD CONTRACTOR TO ENSURE SUCCESSFUL INSTALLATION, USE AND DISMANTLING OF THE SCAFFOLD AND PROVIDE A HAZARD FREE, SAFE WORK ENVIRONMENT FOR ITS WORKERS' AS WELL AS FOR THE GENERAL PUBLIC.
2. ANY AND ALL SAFE/UNSAFE FIELD CONDITIONS DIFFERING FROM THE DESIGN AND DRAWING AS WELL AS FIELD CONDITION CHANGES SHALL BE PROPERLY REPORTED TO THE DIRECTOR'S REPRESENTATIVE IMMEDIATELY.
3. THE CONTRACTOR MUST INSPECT ALL SCAFFOLD MATERIALS AND MUST DISCARD ANY UNSAFE, SUBSTANDARD, SUSPECT ITEMS IMMEDIATELY.
4. ALL PLANKS, JOINTS ON THE PIPE SCAFFOLD MUST BE SECURED PROPERLY WHILE THE SCAFFOLD IS BEING ERECTED.
5. ITEMS/EQUIPMENT SUCH AS STAIRS, RAILINGS, TOE BOARDS AND OTHER SAFETY ITEMS MUST BE INSTALLED AND MAINTAINED ACCORDING TO THE SAFETY STANDARDS OF "OSHA" AND LOCAL LAW ORDINANCES(S).
6. CONTRACTOR MUST MAINTAIN ACCESS TO ALL BUILDING ENTRANCES THROUGHOUT PROJECT.

1

SITE PROTECTION:

1. PRESERVE AND PROTECT VEGETATION AS SHOWN. PREVENT DAMAGE BY VEHICLES. RESTRICT VEHICULAR TRAFFIC TO AREAS OUTSIDE THE DRIP LINE OF TREES. PREVENT COMPACTION OF SOIL WITHIN THE DRIP LINE OF TREES AND SHRUBS. DO NOT DRIVE OR PARK VEHICLES ON LAWNS.
2. PROTECT FROM DAMAGE ALL EXISTING PHYSICAL FEATURES. RESTORE TO THEIR ORIGINAL CONDITION ALL EXISTING PHYSICAL FEATURES DAMAGED BY THE UNAUTHORIZED ACT OR OMISSION OF THE CONTRACTOR. ORIGINAL CONDITION SHALL MEAN THE CONDITION IN WHICH THE FEATURE WAS FOUND AT THE START OF WORK.
3. PROTECT (E) PIPES, TRANSFORMERS, METERS, HYDRANTS, AND MECHANICAL UNITS DURING THE DURATION OF THE WORK. DO NOT PLACE MATERIALS ON (E) MANHOLE COVERS OR EQUIPMENT.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 023044

O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0022089

ATLANTIC TESTING LABORATORIES A WBE Certified Company

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

ads ENGINEERS

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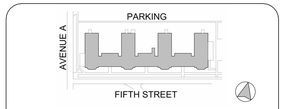
REGISTRATION EXPIRES: 01/31/2029

CONTRACT:
CONSTRUCTION

TITLE:
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:
CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:
NEW YORK STATE OFFICE OF MENTAL HEALTH

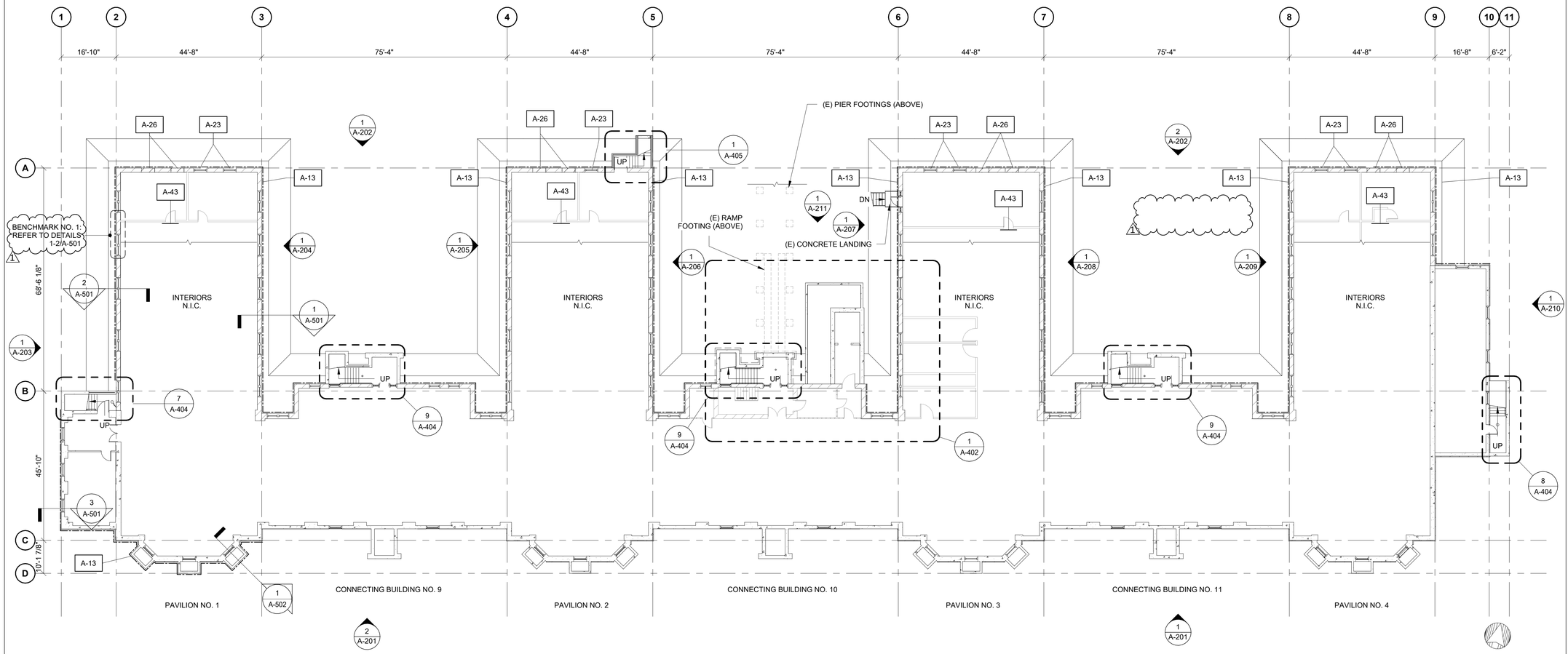


MARK	DATE	DESCRIPTION
1	10/20/2026	ADDENDUM #3
	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS

PROJECT NUMBER:	45791-C
DESIGNED BY:	MJN
DRAWN BY:	TOC
FIELD CHECK:	DAD
APPROVED:	MJN

SHEET TITLE:
SITE LOGISTICS PLAN

DRAWING NUMBER:
G-005



1 BASEMENT

1/16" = 1'-0"

Keynote Legend	
	Keynote Text
A-13	PROVIDE TERMINATION BAR AND SHEET-APPLIED WATERPROOFING MEMBRANE, METAL FLASHING, AND INSULATION. REINSTALL (E) DRAINAGE LAYER. BACKFILL SOIL. SEE A-501 AND A-502.
A-23	PROVIDE FIRE SHUTTERS AT EXTERIOR. SEE 1-4/A-516.
A-26	PROVIDE MASONRY TOOTHED INTO (E) MASONRY AT JAMBS TO FULL DEPTH OF WALL. PROVIDE INTERIOR FINISHES INBOARD OF INFILLED OPENING AND PAINT FULL INTERIOR NORTH WALL. SEE A-514.
A-43	REMOVE TEMPORARY PARTITIONS UPON COMPLETION OF THE WORK.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 023044

O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0022089

ATLANTIC TESTING LABORATORIES

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

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REGISTRATION EXPIRES: 01/31/2029

CONTRACT:

CONSTRUCTION

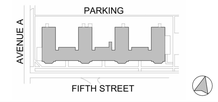
TITLE:

REPLACE ROOFS AND REPAIR
FACADE BUILDING NO. 73

LOCATION: CREEDMOOR
PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:

NEW YORK STATE
OFFICE OF MENTAL HEALTH



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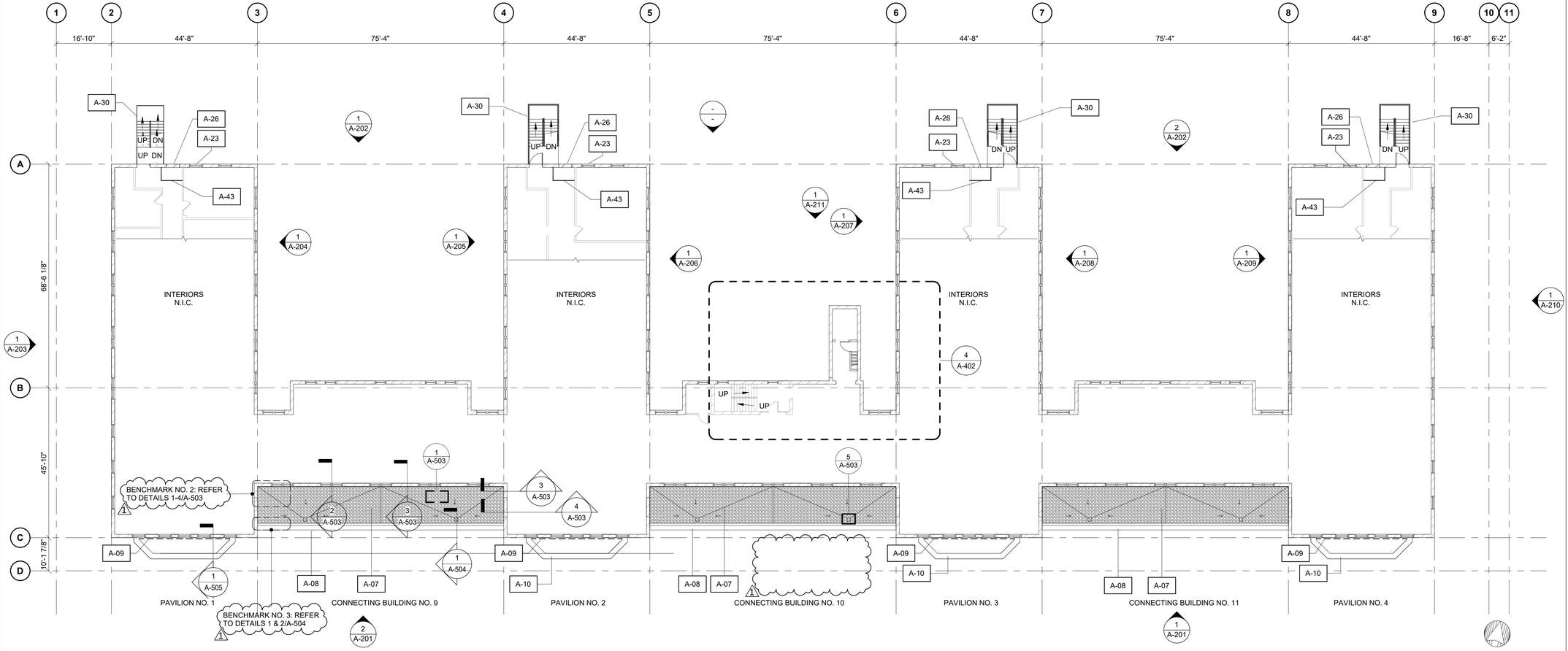
PROJECT NUMBER:	45791-C
DESIGNED BY:	MJN
DRAWN BY:	TOC
FIELD CHECK:	DAD
APPROVED:	MJN

SHEET TITLE:

BASEMENT FLOOR PLAN

DRAWING NUMBER:

A-100



1 THIRD FLOOR

1/16" = 1'-0"

Keynote Legend	
	Keynote Text
A-07	PROVIDE MODIFIED BITUMEN ROOFING SYSTEM AND COLD-FLUID APPLIED REINFORCED FLASHINGS. PROVIDE IN-WALL AND REGLET SET METAL FLASHINGS AT (E) WALLS AND BELOW (E) WINDOWS, RESPECTIVELY. SEE A-503.
A-08	PROVIDE CMU PARAPET WITH BRICK VENEER AT EXTERIOR. PROVIDE COPING STONES TO MATCH EXISTING. PROVIDE RAILINGS ANCHORED TO PARAPET INTERIOR. SEE A-504 AND S-DRAWINGS.
A-09	PROVIDE IN-WALL METAL FLASHING AND BRICK MASONRY TO MATCH EXISTING. SEE A-505.
A-10	PROVIDE MORTAR AT 100% OF (E) STONE JOINTS FOR STONE TO REMAIN, INCLUDING BETWEEN STONE AND ADJACENT MATERIALS (ENTIRE BUILDING).
A-23	PROVIDE FIRE SHUTTERS AT EXTERIOR. SEE 1-4/A-516.
A-26	PROVIDE MASONRY TOOTHED INTO (E) MASONRY AT JAMBS TO FULL DEPTH OF WALL. PROVIDE INTERIOR FINISHES INBOARD OF INFILLED OPENING AND PAINT FULL INTERIOR NORTH WALL. SEE A-514.
A-30	PROVIDE METAL STAIR, ROOF STRUCTURE, AND MODIFIED BITUMEN ROOFING SYSTEM. SEE A-518 AND S-DRAWINGS.
A-43	REMOVE TEMPORARY PARTITIONS UPON COMPLETION OF THE WORK.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 023044

O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0022089

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ARCHITECT & ELEVATOR CONSULTANT:

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Ar Architectural Resources

MEP ENGINEER:

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REGISTRATION EXPIRES: 01/31/2029

CONTRACT:

CONSTRUCTION

TITLE:

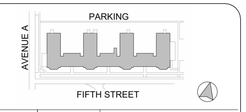
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:

CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:

NEW YORK STATE OFFICE OF MENTAL HEALTH



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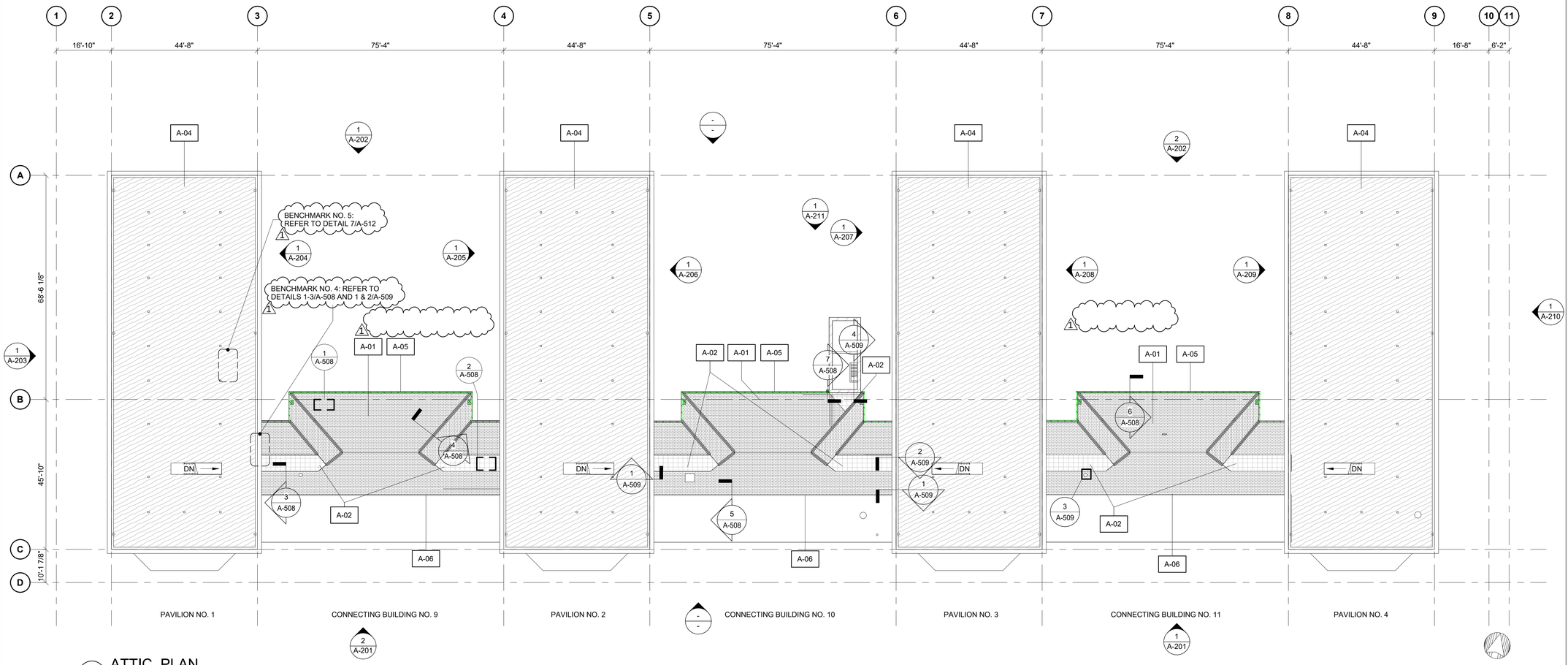
SHEET TITLE:

THIRD FLOOR PLAN

DRAWING NUMBER:

A-103

SHEET 79 OF 142



1 ATTIC PLAN

1/16" = 1'-0"

NOTES:
1. SEE S-DRAWINGS FOR SCOPE OF WORK AT ATTIC FRAMING.

Keynote Legend	
	Keynote Text
A-01	PROVIDE PLYWOOD SHEATHING WHERE DETERIORATED PLYWOOD IS REMOVED AT CONNECTING BUILDINGS. PROVIDE PLYWOOD SHEATHING OVER (E) WOOD DECK (PAVILION ROOFS ONLY). PROVIDE STEEP-SLOPED ASPHALT SHINGLE ROOFING ASSEMBLY AND FLASHINGS. SEE A-508, A-509, AND A-512.
A-02	PROVIDE PLYWOOD SHEATHING. PROVIDE FLAT-SEAM COPPER ROOFING ASSEMBLY AND FLASHINGS. SEE A-508 AND A-509.
A-04	PROVIDE VAPOR RETARDER, INSULATION, WOOD FRAMING, AND PLYWOOD FLOORING. SEE DETAIL 7/A-512.
A-05	PROVIDE PLYWOOD SHEATHING, WOOD FRAMING, COLD FLUID-APPLIED REINFORCED WATERPROOFING, AND METAL FLASHING. PROVIDE CLAMPING RINGS AND DOME STRAINERS AT DRAINS. SEE A-508 AND A-512. SEE 45791-P DRAWINGS FOR SCOPE OF WORK AT DRAINS.
A-06	REPAIR (E) CONCRETE ROOF EDGE. PROVIDE ROOFING UNDERLAYMENT, WOOD FASCIA, HUNG GUTTERS, DOWNSPOUTS, AND SPLASHBLOCKS. SEE DETAIL 5/A-508.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

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O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

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ATLANTIC TESTING LABORATORIES

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

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STATE OF NEW YORK · MATTHEW J. NORMANDIA · LICENSED PROFESSIONAL ENGINEER · 089360

REGISTRATION EXPIRES: 01/31/2029

CONTRACT:

CONSTRUCTION

TITLE:

REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:

CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:

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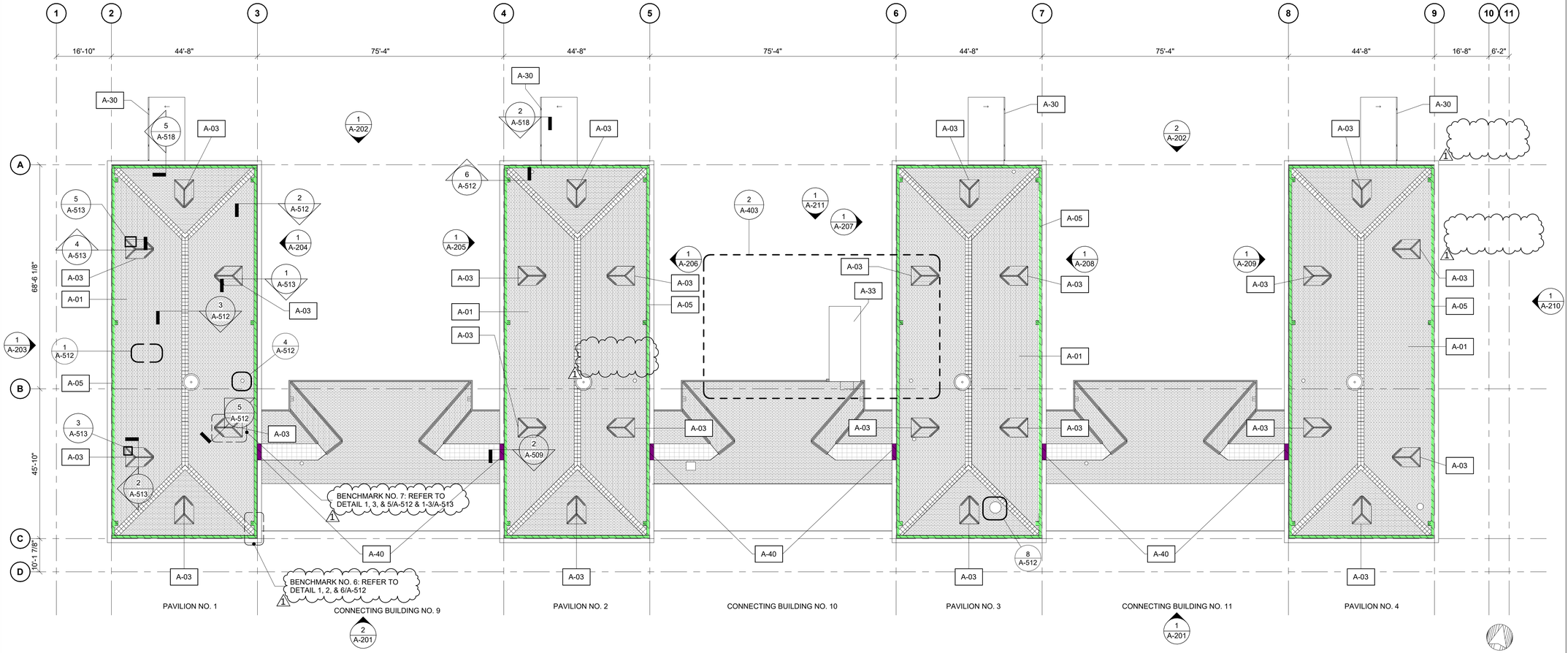
SHEET TITLE:

ATTIC FLOOR PLAN

DRAWING NUMBER:

A-104

SHEET 80 OF 142



1 ROOF

1/16" = 1'-0"

Keynote Legend	
	Keynote Text
A-01	PROVIDE PLYWOOD SHEATHING WHERE DETERIORATED PLYWOOD IS REMOVED AT CONNECTING BUILDINGS. PROVIDE PLYWOOD SHEATHING OVER (E) WOOD DECK (PAVILION ROOFS ONLY). PROVIDE STEEP-SLOPED ASPHALT SHINGLE ROOFING ASSEMBLY AND FLASHINGS. SEE A-508, A-509, AND A-512.
A-03	PROVIDE PLYWOOD SHEATHING, SELF-ADHERED MEMBRANE, COPPER CLADDING, WOOD TRIM, AND FLASHINGS. RE-INSTALL 16 WINDOWS AND PROVIDE LOUVERS AT REMAINING 8 ROUGH OPENINGS. SEE A-513 AND 45791-H DRAWINGS.
A-05	PROVIDE PLYWOOD SHEATHING, WOOD FRAMING, COLD FLUID-APPLIED REINFORCED WATERPROOFING, AND METAL FLASHING. PROVIDE CLAMPING RINGS AND DOME STRAINERS AT DRAINS. SEE A-508 AND A-512. SEE 45791-P DRAWINGS FOR SCOPE OF WORK AT DRAINS.
A-30	PROVIDE METAL STAIR, ROOF STRUCTURE, AND MODIFIED BITUMEN ROOFING SYSTEM. SEE A-518 AND S-DRAWINGS.
A-33	PROVIDE MODIFIED BITUMEN ROOFING SYSTEM AND HUNG GUTTER. PROVIDE ROOF HATCH. SEE A-519
A-40	PATCH (E) CORNICE AFTER ROOF WORK IS COMPLETE. REFER TO 2/A-509.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 023044

O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0022089

ATLANTIC TESTING LABORATORIES

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

ads ENGINEERS

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STATE OF NEW YORK · MATTHEW J. NORMANDIA · 089360 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 01/31/2029

CONTRACT:

CONSTRUCTION

TITLE:

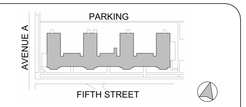
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:

CREEDMOOR
PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:

NEW YORK STATE
OFFICE OF MENTAL HEALTH



MARK	DATE	DESCRIPTION
1	10/20/2026	ADDENDUM #3
	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS

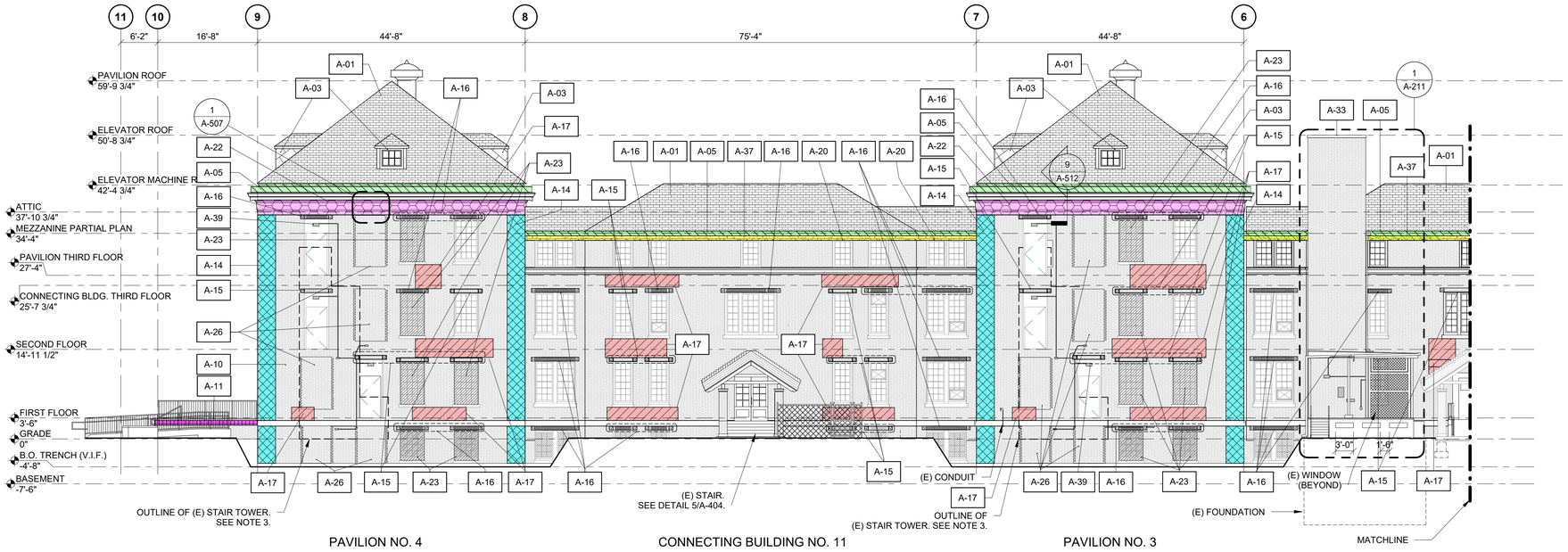
PROJECT NUMBER:	45791-C
DESIGNED BY:	MJN
DRAWN BY:	TOC
FIELD CHECK:	DAD
APPROVED:	MJN

SHEET TITLE:

ROOF PLAN

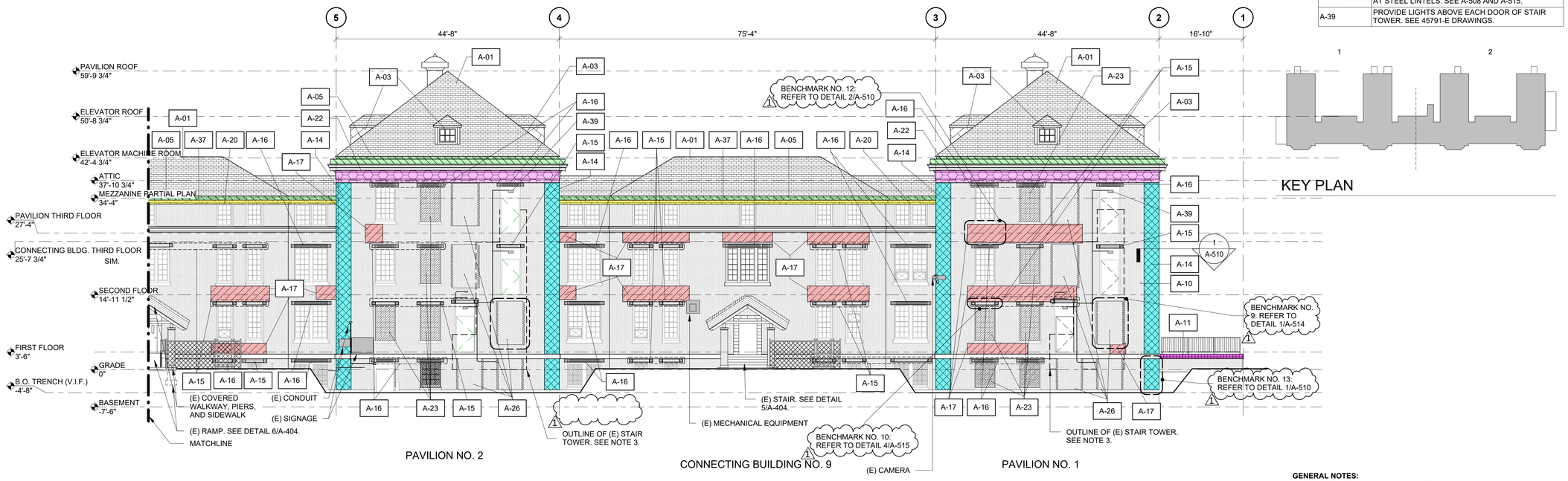
DRAWING NUMBER:

A-105



2 NORTH ELEVATION - EAST

3/32" = 1'-0"



1 NORTH ELEVATION - WEST

3/32" = 1'-0"

Keynote Legend

	Keynote Text
A-01	PROVIDE PLYWOOD SHEATHING WHERE DETERIORATED PLYWOOD IS REMOVED AT CONNECTING BUILDINGS. PROVIDE PLYWOOD SHEATHING OVER (E) WOOD DECK (PAVILION ROOFS ONLY). PROVIDE STEEP-SLOPED ASPHALT SHINGLE ROOFING ASSEMBLY AND FLASHINGS. SEE A-508, A-509, AND A-512.
A-03	PROVIDE PLYWOOD SHEATHING, SELF-ADHERED MEMBRANE, COPPER CLADDING, WOOD TRIM, AND FLASHINGS. REINSTALL 16 WINDOWS AND PROVIDE LOUVERS AT REMAINING 8 ROUGH OPENINGS. SEE A-513 AND 45791-H DRAWINGS.
A-05	PROVIDE PLYWOOD SHEATHING, WOOD FRAMING, COLD FLUID-APPLIED REINFORCED WATERPROOFING, AND METAL FLASHING. PROVIDE CLAMPING RINGS AND DOME STRAINERS AT DRAINS. SEE A-508 AND A-512. SEE 45791-P DRAWINGS FOR SCOPE OF WORK AT DRAINS.
A-10	PROVIDE MORTAR AT 100% OF (E) STONE JOINTS FOR STONE TO REMAIN, INCLUDING BETWEEN STONE AND ADJACENT MATERIALS (ENTIRE BUILDING).
A-11	SOUND (E) CONCRETE SLAB AND NOTIFY DIRECTOR'S REPRESENTATIVE OF ANY DELAMINATIONS. PROVIDE SLOPED BONDED CEMENTITIOUS TOPPING SLAB, COLD FLUID-APPLIED REINFORCED WATERPROOFING, MORTAR SETTING BED, AND CLAY TILES SET IN THIN-SET ADHESIVE. PROVIDE IN-WALL FLASHINGS AND BRICK AT BASE OF WALLS, AND METAL RAILS AT EDGES. PROVIDE CAST STONE AT EDGES AND REINSTALL (E) BLUESTONE TREADS. SEE A-506.
A-14	POINT BACKUP BRICK MASONRY AND REPLACE DETERIORATED BRICK. PROVIDE BRICK MASONRY TO MATCH EXISTING WITH VERTICAL EXPANSION JOINT AT BOTH SIDES OF CORNER. SEE DETAIL 1/A-510.
A-15	PROVIDE STEEL LINTEL, MEMBRANE AND METAL FLASHINGS, AND BRICK MASONRY. PAINT UNDERSIDE OF LINTELS. SEE A-515 AND S-DRAWINGS.
A-16	PROVIDE MEMBRANE AND METAL FLASHINGS, AND BRICK MASONRY. PAINT UNDERSIDE OF LINTELS.
A-17	POINT BACKUP WALL AND REPLACE DETERIORATED BRICK. PROVIDE BRICK MASONRY TO MATCH EXISTING. SEE 2/A-510.
A-20	PROVIDE STEEL LINTEL. SEE S-DRAWINGS.
A-22	PROVIDE CAST STONE FRIEZE AND ARCHITRAVE TO MATCH EXISTING. PROVIDE MEMBRANE FLASHING. SEE A-505, A-509, AND A-512.
A-23	PROVIDE FIRE SHUTTERS AT EXTERIOR. SEE 1-4/A-516.
A-26	PROVIDE MASONRY TOOTHED INTO (E) MASONRY AT JAMBS TO FULL DEPTH OF WALL. PROVIDE INTERIOR FINISHES INBOARD OF INFILLED OPENING AND PAINT FULL INTERIOR NORTH WALL. SEE A-514.
A-33	PROVIDE MODIFIED BITUMEN ROOFING SYSTEM AND HUNG GUTTER. PROVIDE ROOF HATCH. SEE A-519
A-37	REINSTALL (E) STONE CORNICE. PROVIDE MEMBRANE FLASHING. PROVIDE METAL FLASHING AT STEEL LINTELS. SEE A-508 AND A-515.
A-39	PROVIDE LIGHTS ABOVE EACH DOOR OF STAIR TOWER. SEE 45791-E DRAWINGS.

KEY PLAN

GENERAL NOTES:

1. REINSTALL LIGHTS, SIGNS, AND CONDUITS WITHIN SCOPE OF WORK AREAS. COORDINATE WTH THE DIRECTOR'S REPRESENTATIVE.
2. PERFORM THE FOLLOWING ADDITIONAL RECONSTRUCTION, NOT INDICTAED ON THE ELEVATIONS.
   1. MISCELLANEOUS MASONRY REPAIRS. SEE A-510 AND A-511.
3. STAIR TOWERS NOT SHOWN FOR CLARITY. SEE A-100 PLANS, A-203 TO A-210, AND A-212 FOR SCOPE OF WORK AT STAIR TOWERS.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

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SGH

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O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

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ATLANTIC TESTING LABORATORIES A WBE Certified Company

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

ads ENGINEERS

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STATE OF NEW YORK · MATTHEW J. NORMANDEAU · LICENSED PROFESSIONAL ENGINEER · 089360

REGISTRATION EXPIRES: 01/31/2029

CONTRACT:

CONSTRUCTION

TITLE:

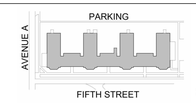
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:

CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:

NEW YORK STATE OFFICE OF MENTAL HEALTH



MARK	DATE	DESCRIPTION
1	10/20/2026	ADDENDUM #3
	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS

PROJECT NUMBER:	45791-C
DESIGNED BY:	MJN
DRAWN BY:	TOC
FIELD CHECK:	DAD
APPROVED:	MJN

SHEET TITLE:

NORTH ELEVATION

DRAWING NUMBER:

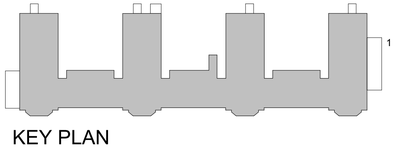
A-202



1 EAST ELEVATION - PAVILION NO. 4

3/16" = 1'-0"

Keynote Legend	
	Keynote Text
A-01	PROVIDE PLYWOOD SHEATHING WHERE DETERIORATED PLYWOOD IS REMOVED AT CONNECTING BUILDINGS. PROVIDE PLYWOOD SHEATHING OVER (E) WOOD DECK (PAVILION ROOFS ONLY). PROVIDE STEEP-SLOPED ASPHALT SHINGLE ROOFING ASSEMBLY AND FLASHINGS. SEE A-508, A-509, AND A-512.
A-03	PROVIDE PLYWOOD SHEATHING, SELF-ADHERED MEMBRANE, COPPER CLADDING, WOOD TRIM, AND FLASHINGS. RE-INSTALL 16 WINDOWS AND PROVIDE LOUVERS AT REMAINING 8 ROUGH OPENINGS. SEE A-513 AND 45791-H DRAWINGS.
A-05	PROVIDE PLYWOOD SHEATHING, WOOD FRAMING, COLD FLUID-APPLIED REINFORCED WATERPROOFING, AND METAL FLASHING. PROVIDE CLAMPING RINGS AND DOME STRAINERS AT DRAINS. SEE A-508 AND A-512. SEE 45791-P DRAWINGS FOR SCOPE OF WORK AT DRAINS.
A-10	PROVIDE MORTAR AT 100% OF (E) STONE JOINTS FOR STONE TO REMAIN, INCLUDING BETWEEN STONE AND ADJACENT MATERIALS (ENTIRE BUILDING).
A-11	SOUND (E) CONCRETE SLAB AND NOTIFY DIRECTOR'S REPRESENTATIVE OF ANY DELAMINATIONS. PROVIDE SLOPED BONDED CEMENTITIOUS TOPPING SLAB, COLD FLUID-APPLIED REINFORCED WATERPROOFING, MORTAR SETTING BED, AND CLAY TILES SET IN THIN-SET ADHESIVE. PROVIDE IN-WALL FLASHINGS AND BRICK AT BASE OF WALLS, AND METAL RAILS AT EDGES. PROVIDE CAST STONE AT EDGES AND REINSTALL (E) BLUESTONE TREADS. SEE A-506.
A-12	REINSTALL (E) DOORS. SEE A-506.
A-14	POINT BACKUP BRICK MASONRY AND REPLACE DETERIORATED BRICK. PROVIDE BRICK MASONRY TO MATCH EXISTING WITH VERTICAL EXPANSION JOINT AT BOTH SIDES OF CORNER. SEE DETAIL 1/A-510.
A-15	PROVIDE STEEL LINTEL, MEMBRANE AND METAL FLASHINGS, AND BRICK MASONRY. PAINT UNDERSIDE OF LINTELS. SEE A-515 AND S-DRAWINGS.
A-16	PROVIDE MEMBRANE AND METAL FLASHINGS, AND BRICK MASONRY. PAINT UNDERSIDE OF LINTELS.
A-17	POINT BACKUP WALL AND REPLACE DETERIORATED BRICK. PROVIDE BRICK MASONRY TO MATCH EXISTING. SEE 2/A-510.
A-19	PROVIDE SILICONE COATING OVER EXPOSED CMU.
A-22	PROVIDE CAST STONE FRIEZE AND ARCHITRAVE TO MATCH EXISTING. PROVIDE MEMBRANE FLASHING. SEE A-505, A-509, AND A-512.
A-30	PROVIDE METAL STAIR, ROOF STRUCTURE, AND MODIFIED BITUMEN ROOFING SYSTEM. SEE A-518 AND S-DRAWINGS.
A-31	PERFORM CHEMICAL GROUT INJECTION.



KEY PLAN

GENERAL NOTES:

1. REINSTALL LIGHTS, SIGNS, AND CONDUITS WITHIN SCOPE OF WORK AREAS. COORDINATE WTH THE DIRECTOR'S REPRESENTATIVE.
2. PERFORM THE FOLLOWING ADDITIONAL RECONSTRUCTION, NOT INDICTAED ON THE ELEVATIONS.
   1. MISCELLANEOUS MASONRY REPAIRS. SEE A-510 AND A-511.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

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STATE OF NEW YORK · MATTHEW J. NORMADEN · LICENSED PROFESSIONAL ENGINEER · 089360

REGISTRATION EXPIRES: 01/31/2029

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TITLE:

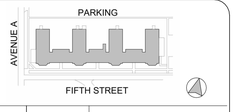
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:

CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:

NEW YORK STATE OFFICE OF MENTAL HEALTH



MARK	DATE	DESCRIPTION
	08/22/2025	100% DESIGN DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	05/29/2026	BID DOCUMENTS
1	10/20/2026	ADDENDUM #3

PROJECT NUMBER:	45791-C
DESIGNED BY:	MJN
DRAWN BY:	TOC
FIELD CHECK:	DAD
APPROVED:	MJN

SHEET TITLE:

EAST ELEVATION - PAVILION NO. 4

DRAWING NUMBER:

A-210

SHEET 91 OF 142

ELECTRICAL SYMBOL LIST

POWER SYMBOLS	
	AUTOMATIC TRANSFER SWITCH
	DISCONNECT SWITCH. SIZE TO MATCH CIRCUITING OR AS NOTED. HORSEPOWER RATED TO MATCH INDICATED MOTOR LOAD.
100A/70A	FUSED DISCONNECT SWITCH. SIZE TO MATCH CIRCUITING OR AS NOTED. HORSEPOWER RATED TO MATCH INDICATED MOTOR LOAD. TOP NUMBER INDICATES SWITCH SIZE, BOTTOM NUMBER INDICATES FUSE SIZE.
100A 80A	SWITCH AND FUSE, RESPECTIVE NUMBERS INDICATE SIZES IN AMPERES. 600 VOLT CLASS.
600A	CIRCUIT BREAKER. NUMBER INDICATES TRIP IN AMPERES.
M M	CT/UTILITY METER. TYPE AS INDICATED/SPECIFIED.
	GROUND
WIRING DEVICE AND RACEWAY SYMBOLS	
5	HOMERUN TO 120/208 VOLT PANEL. ARROWS INDICATE QUANTITY OF SINGLE POLE 20 AMP CIRCUITS. NUMBER INDICATES CIRCUIT. COMBINE CIRCUITS WITH LIKE NUMBER IN JUNCTION BOX ON LOAD SIDE OF CIRCUIT BREAKER.
3 / 30	CIRCUITING OTHER THAN SINGLE POLE 20 AMP. UPPER NUMBER INDICATES NUMBER OF POLES, LOWER NUMBER INDICATES CAPACITY IN AMPS. LINE ACROSS HEXAGON INDICATES NEUTRAL REQUIRED.
	CIRCUITING RUN CONCEALED
	CIRCUITING RUN CONCEALED IN FLOOR OR UNDERGROUND ON SITE
LV	LOW VOLTAGE CONTROL WIRE - 4#12, IN MIN 3/4"C, U.O.N.
# GFI	GROUND FAULT INTERRUPTER RECEPTACLE. TYPE AS INDICATED BY CIRCUITING OR LETTER DESIGNATION. "#" DENOTES CIRCUIT NUMBER
3 J MOD 3 J MOD	JUNCTION BOX,CEILING, WALL MOUNTED. CAST TYPE WHEN SURFACE MOUNTED. CAST TYPE FOR EXTERIOR APPLICATIONS. NUMBER DENOTES CIRCUIT SUPPLYING DEVICE. 'MOD' INDICATES MOTORIZED DAMPER.
MISCELLANEOUS SYMBOLS	
	EXISTING EQUIPMENT AS NOTED, TO BE REMOVED
	EXISTING EQUIPMENT AS NOTED, TO REMAIN
	MISCELLANEOUS BOX, PANEL OR EQUIPMENT AS INDICATED
E,ER,R,RE	LETTER LOCATED AT FIXTURE, OUTLET, DEVICE OR EQUIPMENT DENOTES: "E" - EXISTING TO REMAIN "ER" - EXISTING TO BE REMOVED "R" - EXISTING TO BE RELOCATED "RE" - EXISTING IN NEW LOCATION

PANEL AND CABINET SYMBOLS	
	LIGHTING OR POWER PANEL 120/208 VOLT, RECESSED OR SURFACE MOUNTED
MOTORS, STARTERS & HVAC SYMBOLS	
$T	SWITCH WITH THERMAL OVERLOAD
	STARTER. "VFD" DENOTES VARIABLE FREQUENCY DRIVE
	COMBINATION TYPE STARTER WITH FUSIBLE OR NON-FUSED DISCONNECT AS INDICATED ON MECHANICAL DRAWINGS. "VFD" DENOTES VARIABLE FREQUENCY DRIVE
5	MOTOR. NUMBER INDICATES HORSEPOWER
A	HEAT PUMP UNIT WITH INTEGRAL STARTER, LETTER INDICATES TYPE. SEE MECHANICAL EQUIPMENT SCHEDULES FOR ADDITIONAL DETAILS
LIGHTING SYSTEM SYMBOLS	
$a	SINGLE POLE SWITCH. LETTER INDICATES FIXTURES CONTROLLED
	ELEVATOR PIT LIGHTING FIXTURE

FIRE ALARM SYMBOL LIST

S	SMOKE DETECTOR, CEILING MOUNTED "EL" INDICATES ELEVATOR RECALL;
ACM XX	ADDRESSABLE CONTROL RELAY MODULE

ELECTRICAL ABBREVIATIONS

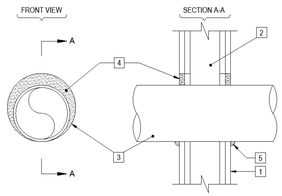
+	SPECIAL MOUNTING HEIGHT. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS
1P	SINGLE POLE
2P	TWO POLE
3P	THREE POLE
A	AMPERE
AFF	ABOVE FINISHED FLOOR
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CKT	CIRCUIT
CLG	CEILING
DISC	DISCONNECT
DP	DISTRIBUTION PANEL BOARD
E	EXISTING TO REMAIN
E.C.	EMPTY CONDUIT
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER,EM	EMERGENCY
EQUIP	EQUIPMENT
ER	EXISTING TO BE REMOVED
FDS	FUSED DISCONNECT SWITCH
FIXT	FIXTURE
FLA	FULL LOAD AMPERES
G	GROUND
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
HP	HORSE POWER
HZ	HERTZ
JB	JUNCTION BOX
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MIN	MINIMUM
MLO	MAIN LUG ONLY
MOPD,MOCP	MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P	POLE
PB	PULL BOX
PNL	PANEL
PWR	POWER
ø	PHASE
(RE)	RELOCATED EXISTING
RECEPT,REC	RECEPTACLE
SW	SWITCH
SWBD	SWITCHBOARD
TYP	TYPICAL
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
V	VOLT OR VOLTAGE
VA	VOLT AMPERE
W	WATT
WP	WEATHERPROOF

DRAWING NOTES:

1. GENERAL NOTES, SYMBOL LIST AND DETAILS ARE APPLICABLE TO ALL ELECTRICAL DRAWINGS.
2. ALL WORK IS NEW UNLESS OTHERWISE NOTED.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE BUILDING CODE AND NEW YORK STATE ELECTRICAL CODE.
4. PROVIDE AND SIZE PULL BOXES AND JUNCTION BOXES TO SUIT FIELD CONDITIONS. PULL BOXES AND JUNCTION BOXES NOT TO BE INSTALLED ABOVE INACCESSIBLE CEILINGS OR BURIED IN WALL.
5. ALL PENETRATIONS THROUGH FIRE RATED WALL AND SLAB SHALL BE FIRE STOPPED. SEE THIS PAGE FOR DETAILS.
6. COORDINATE ALL WORK WITH OTHER TRADES.
7. REFER TO '45791-P', '45791-H', AND '45791-C' FOR EXACT EQUIPMENT LOCATIONS. 1
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING AND RACEWAYS TO MECHANICAL EQUIPMENT, INCLUDING DAMPERS, AIR-CONDITIONING UNITS, AND FANS, WITH FINAL POWER TERMINATIONS AT THE EQUIPMENT. THE MECHANICAL CONTRACTOR SHALL PROVIDE CONTROL WIRING AND ASSOCIATED RACEWAYS, INCLUDING FINAL CONTROL TERMINATIONS.

GENERAL NOTES:

1. SEE PROJECT 45791-C DRAWINGS FOR ARCHITECTURAL, STRUCTURAL, AND ELEVATION SCOPES OF WORK.
2. SEE PROJECT 45791-H DRAWINGS FOR THE MECHANICAL SCOPE OF WORK.
3. SEE PROJECT 45791-P DRAWINGS FOR THE PLUMBING SCOPE OF WORK.



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2"x4" LUMBER. STEEL STUDS TO BE MINIMUM 2½" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER);
   B. MAXIMUM 30" DIAMETER CAST IRON PIPE;
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE;
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT;
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MINIMUM 5/8" DEPTH "HILTI" FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM ½" BEAD "HILTI" FS-ONE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES:

1. MAXIMUM DIAMETER OF OPENING:
   A. 32⅛" FOR STEEL STUD WALLS;
   B. 14½" FOR WOOD STUD WALLS.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2⅛".
3. PIPE MAY BE INSTALLED WITH CONTINUOUS POINT OF CONTACT.
4. PIPE MAYBE INSTALLED AT AN ANGLE NOT GREATER THAN 45° FROM PERPENDICULAR.

No. METAL PIPE THROUGH 1-HR. 2-HR. GYPSUM WALL ASSEMBLY

SCALE: NTS

UL/cUL SYSTEM No. W-L-1054

NEW YORK STATE OF OPPORTUNITY. Office of General Services

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ads ENGINEERS

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REGISTRATION EXPIRES: 02/28/2029

CONTRACT:

ELECTRICAL

TITLE:

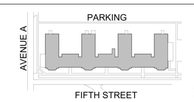
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:

CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:

NEW YORK STATE OFFICE OF MENTAL HEALTH



MARK	DATE	DESCRIPTION
1	10/20/2026	ADDENDUM #3
	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS

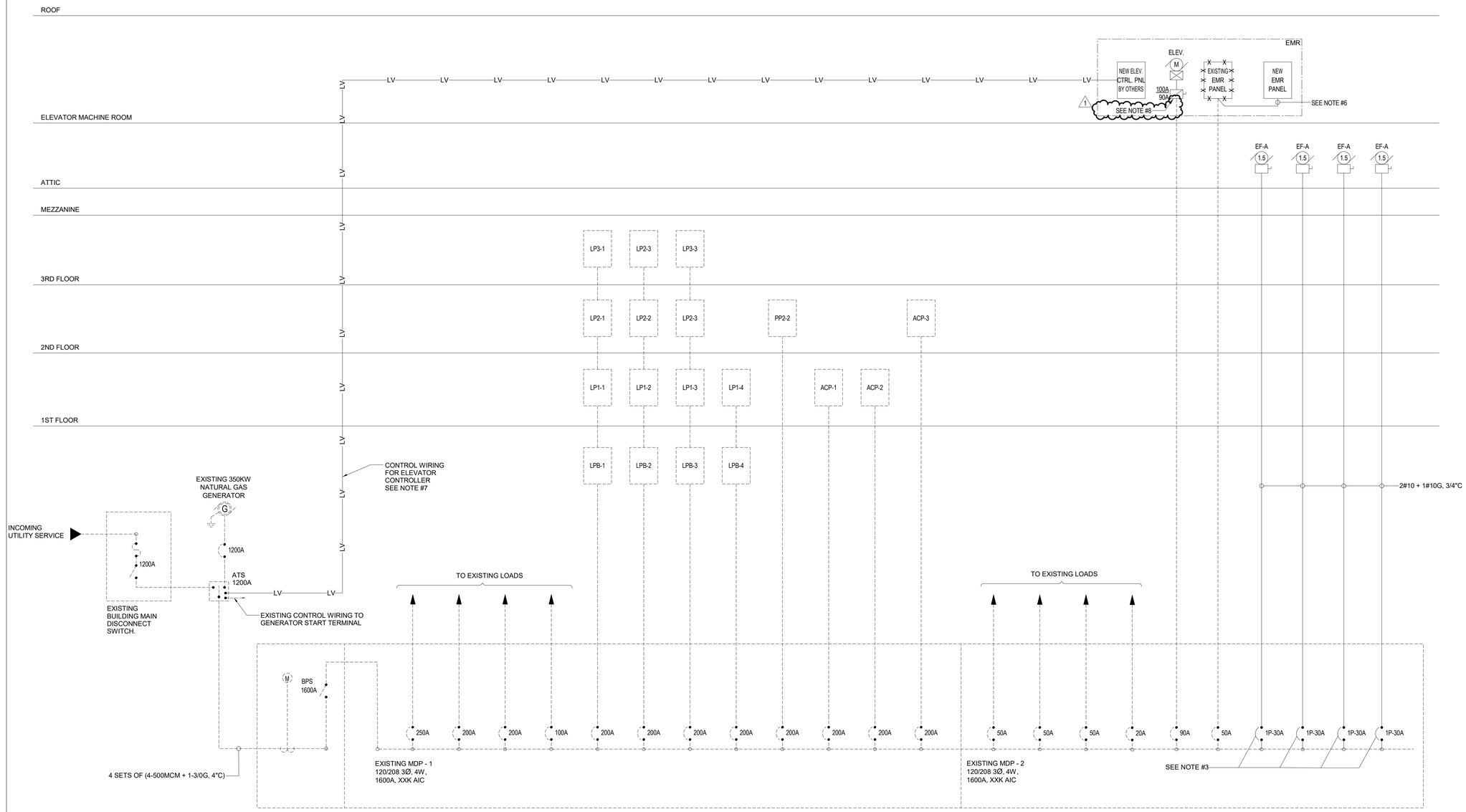
PROJECT NUMBER:	45791-E
DESIGNED BY:	CC
DRAWN BY:	CC
FIELD CHECK:	SG
APPROVED:	CC

SHEET TITLE:

ELECTRICAL GENERAL NOTES

DRAWING NUMBER:

E-001



01 MODIFIED ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NTS

NOTES:

1. SEE 'E-001.00' FOR SYMBOL LIST AND ABBREVIATIONS.
2. DASHED LINES INDICATE EXISTING EQUIPMENT.
3. CONTRACTOR TO UTILIZE BLANK SPACES AND PROVIDE NEW 1P CIRCUIT BREAKERS COMPATIBLE AND LISTED FOR USE WITH EXISTING MDP-2.
4. CONTRACTOR TO CONFIRM EXISTING CONDITIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
5. COORDINATE ALL REQUIRED SHUTDOWN WITH DIRECTOR'S REPRESENTATIVE. NOTIFY HIM 48 HOURS PRIOR TO SCHEDULED SHUTDOWN.
6. CONTRACTOR SHALL MATCH EXISTING AND EXTEND FEEDER CABLES WITH NEW AS REQUIRED TO FACILITATE TERMINATION OF FEEDER IN NEW EMR PANEL.

1

7. ELEVATOR CONTRACTOR, EXISTING ATS MANUFACTURER, AND ELECTRICAL CONTRACTOR SHALL COORDINATE TO CONFIRM ALL CONTROL WIRING REQUIREMENTS PRIOR TO INSTALLATION. FINAL TERMINATION AT ELEVATOR CONTROL PANEL SHALL BE BY THE ELEVATOR CONTRACTOR. PROVIDE NEW RELAY AS REQUIRED IN ATS TO FACILITATE CONNECTION.
8. EXTEND WITH NEW AS REQUIRED TO FACILITATE TERMINATION IN NEW FUSED DISCONNECT.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 023044

O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0022089

ATLANTIC TESTING LABORATORIES A WBE Certified Company

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Ar Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

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REGISTRATION EXPIRES: 02/28/2029

CONTRACT:

ELECTRICAL

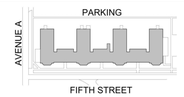
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REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION: CREEDMOOR PSYCHIATRIC CENTER 80-45 WINCHESTER BLVD QUEENS VILLAGE, NEW YORK 11427

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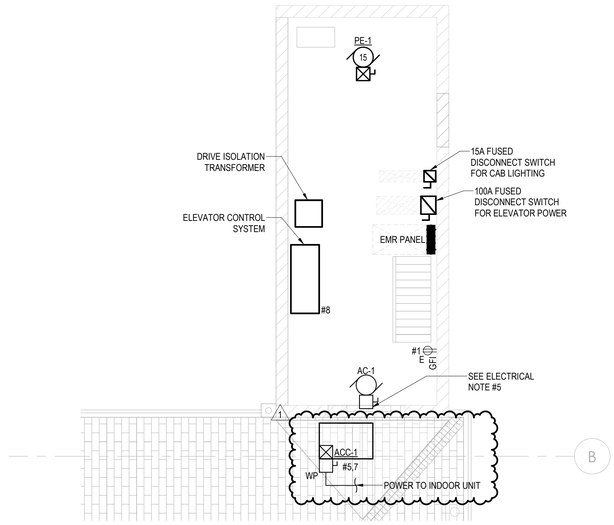
PROJECT NUMBER:	45791-E
DESIGNED BY:	CC
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FIELD CHECK:	SG
APPROVED:	CC

SHEET TITLE:

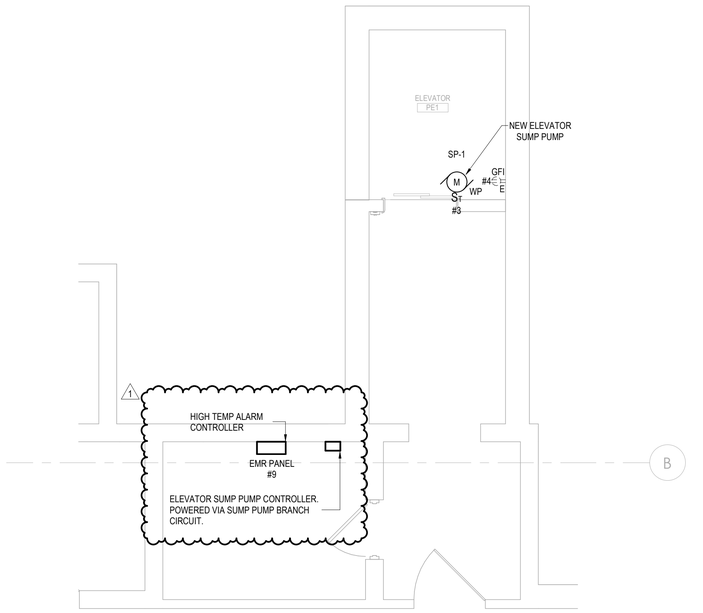
ELECTRICAL SINGLE LINE DIAGRAM

DRAWING NUMBER:

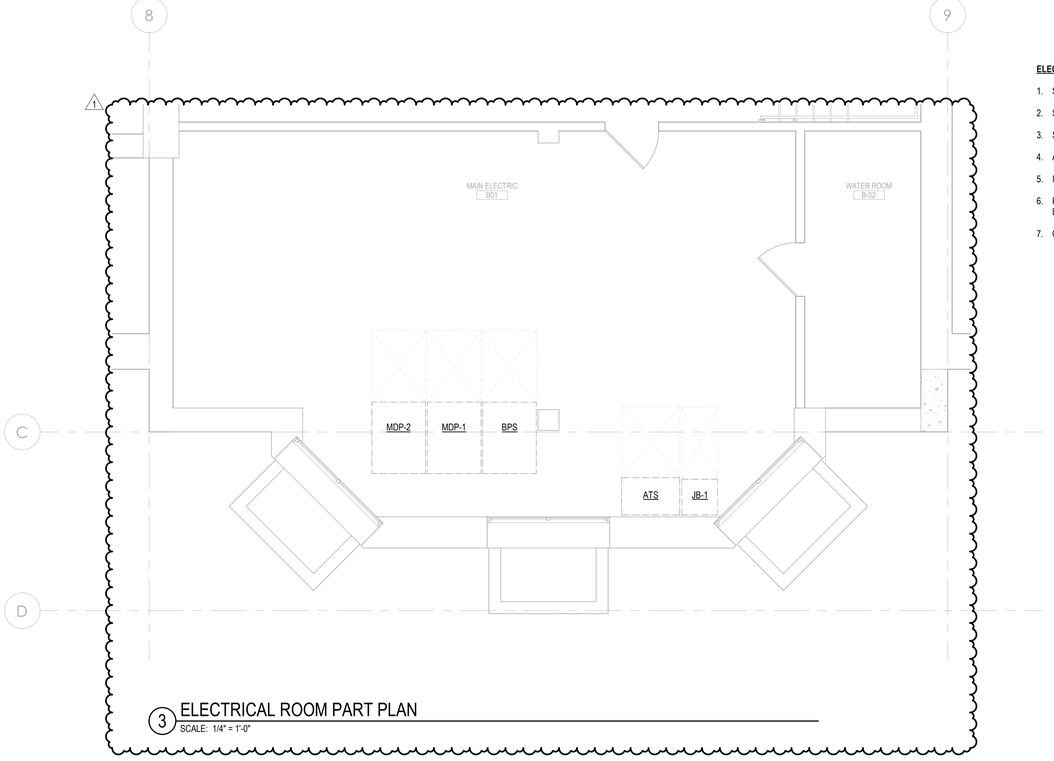
E-002



1 EMR - ELEVATOR SHAFT PART PLAN
SCALE: 1/4" = 1'-0"



2 BASEMENT - ELEVATOR SHAFT PART PLAN
SCALE: 1/4" = 1'-0"



3 ELECTRICAL ROOM PART PLAN
SCALE: 1/4" = 1'-0"

ELECTRICAL NOTES:

1. SEE DRAWING 'E-001.00' FOR SYMBOL LIST AND ABBREVIATIONS.
2. SEE DRAWING 'E-002.00' FOR MODIFIED ELECTRICAL SINGLE LINE DIAGRAM.
3. SEE DRAWING 'E-400.00' AND 'E-401.00" FOR PANEL SCHEDULES.
4. ALL CIRCUITS SHALL BE CONNECTED TO 'EMR PANEL'.
5. INDOOR UNIT 'AC-1' SHALL BE FED FROM OUTDOOR UNIT 'ACC-1'.
6. PROVIDE SIGNAL WIRING FROM ATS IN BASEMENT ELECTRIC SERVICE ROOM TO ELEVATOR MACHINE ROOM.
7. COORDINATE ALL WORK WITH ELEVATOR VENDOR.

DEMOLITION NOTES:

1. PRIOR TO THE START OF DEMOLITION, CONTRACTOR TO CONFIRM EXISTING CONDITIONS IN THE FIELD.
2. CONTRACTOR SHALL REMOVE ALL EXISTING LIGHTING, SWITCHES, RECEPTACLES, ETC. FROM AREAS COVERED BY THIS RENOVATION UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. CONTRACTOR SHALL CONFIRM/DETERMINE SOURCE OF POWER FOR EQUIPMENT TO BE REMOVED. CIRCUIT SUPPLYING EQUIPMENT SHALL BE DISCONNECTED AT SOURCE AND LOCALLY AT THE EQUIPMENT PRIOR TO DEMOLITION WORK. ALL EQUIPMENT SHALL BE TAGGED TO INDICATED "EQUIPMENT POEWR SUPPLY HAS BEEN DISCONNECTED". COORDINATE WORK WITH ALL CONTRACTORS. MAKE BREAKERS SPARE AND MARK AS SUCH.
4. ALL EXPOSED CONDUIT, CABLES, JUNCTION BOXES, DISCONNECTS, SUPPORTS, BRACKETS, WIRING, ETC. NO LONGER REQUIRED SHALL BE REMOVED.
5. ALL UNUSED BRANCH CIRCUITING, FEEDERS, AND ASSOCIATED RACEWAYS SHALL BE REMOVED.
6. CONTRACTOR SHALL MAINTAIN CONTINUITY OF ALL ELECTRICAL SYSTEMS TO ALL AREAS NOT COVERED BY THIS RENOVATION AND SHALL PROVIDE 48-HOUR NOTICE TO THE DIRECTOR'S REPRESENTATIVE OF ANY PLANNED POWER INTERRUPTIONS OR SIGNAL SYSTEM OUTAGES. EXISTING SYSTEMS INCLUDING BUT NOT LIMITED TO CONDUITS, WIRING, DEVICES, JUNCTION BOXES ETC. AFFECTED BY DEMOLITION AND NEW WORK SHALL BE RELOCATED, EXTENDED WITH NEW TO MATCH EXISTING OR REPLACED AS REQUIRED. ELECTRICAL CONTRACTOR SHALL INFORM A/E OF IMPACT PRIOR TO START OF WORK.
7. ALL WORK SHALL BE PERFORMED IN SUCH MANNER AS NOT TO INTERFERE WITH THE NORMAL WORK OPERATIONS IN ADJACENT SPACES OR BUILDINGS.
8. ALL PERSONNEL TRAFFIC AND MATERIAL MOVING SHALL BE ROUTED SO AS TO ABSOLUTELY MINIMIZE TRAVEL THROUGH ADJACENT WORK AREAS. REFER TO OGS PROJECT G-SERIES DRAWINGS.
9. IN NO WAY SHALL THE CONTRACTOR BLOCK OR RESTRICT THE MEANS OF EGRESS FOR ADJACENT SPACES, DECREASE THE FIRE RATING OF WALLS, PARTITIONS, CEILINGS, DOORS OR COMBINATION THEREOF OF ADJACENT SPACES OR MEANS OF EGRESS, INTERRUPT SAFETY SYSTEMS OR IN ANY WAY ADVERSELY AFFECT THE SAFETY OF PEOPLE OR MATERIALS IN ADJACENT SPACES.
10. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE GENERAL CLEAN-UP OF ALL AREAS AFFECTED BY THE WORK IN THE CONTRACT. ALL RUBBISH AND ACCUMULATIVE MATERIAL SHALL BE REMOVED FROM THE PREMISES AND THE PREMISES LEFT "BROOM CLEAN" UPON COMPLETION.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

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SGH

STRUCTURAL ENGINEER:

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O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

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ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Ar Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

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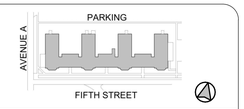
REGISTRATION EXPIRES: 02/28/2029

CONTRACT:
ELECTRICAL

TITLE:
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

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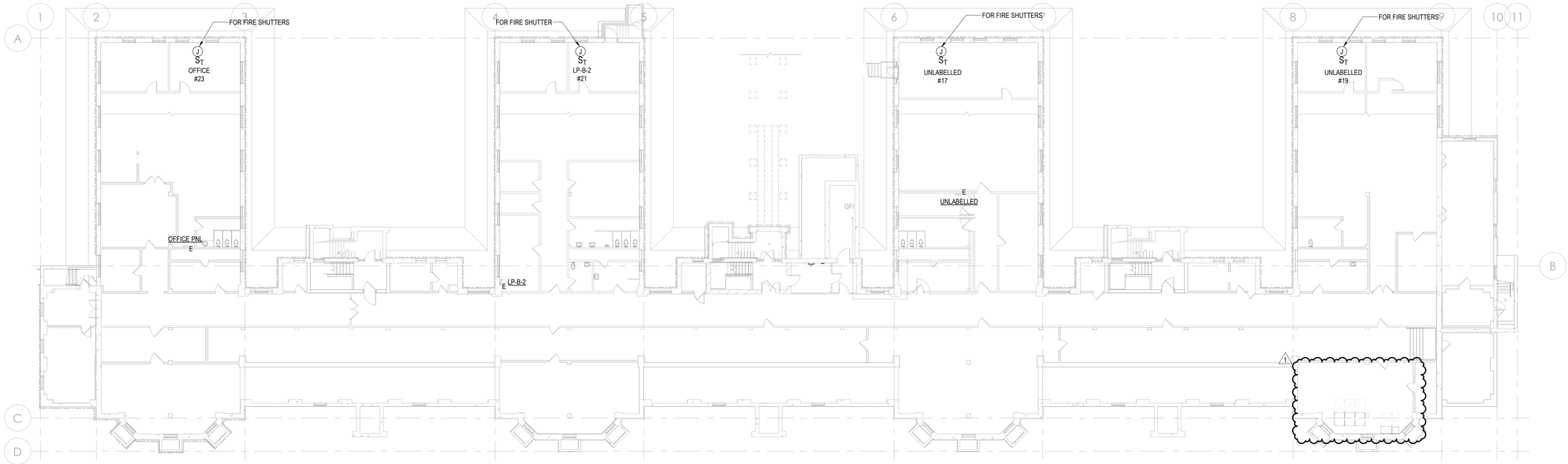


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PROJECT NUMBER:	45791-E
DESIGNED BY:	CC
DRAWN BY:	CC
FIELD CHECK:	SG
APPROVED:	CC

SHEET TITLE:
ELECTRICAL TYPICAL ELEVATOR SHAFT FLOOR PART PLANS - POWER

DRAWING NUMBER:
E-100



1 BASEMENT PLAN

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

ELECTRICAL NOTES:

1. SEE DRAWING 'E-001.00' FOR SYMBOL LIST AND ABBREVIATIONS.
2. SEE DRAWING 'E-002.00' FOR MODIFIED ELECTRICAL SINGLE LINE DIAGRAM.
3. SEE DRAWING 'E-400.00' AND 'E-401.00" FOR PANEL SCHEDULES.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

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Ar Architectural Resources

MEP ENGINEER:

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REGISTRATION EXPIRES: 02/28/2029

CONTRACT:

ELECTRICAL

TITLE:

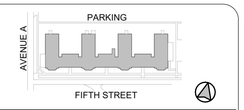
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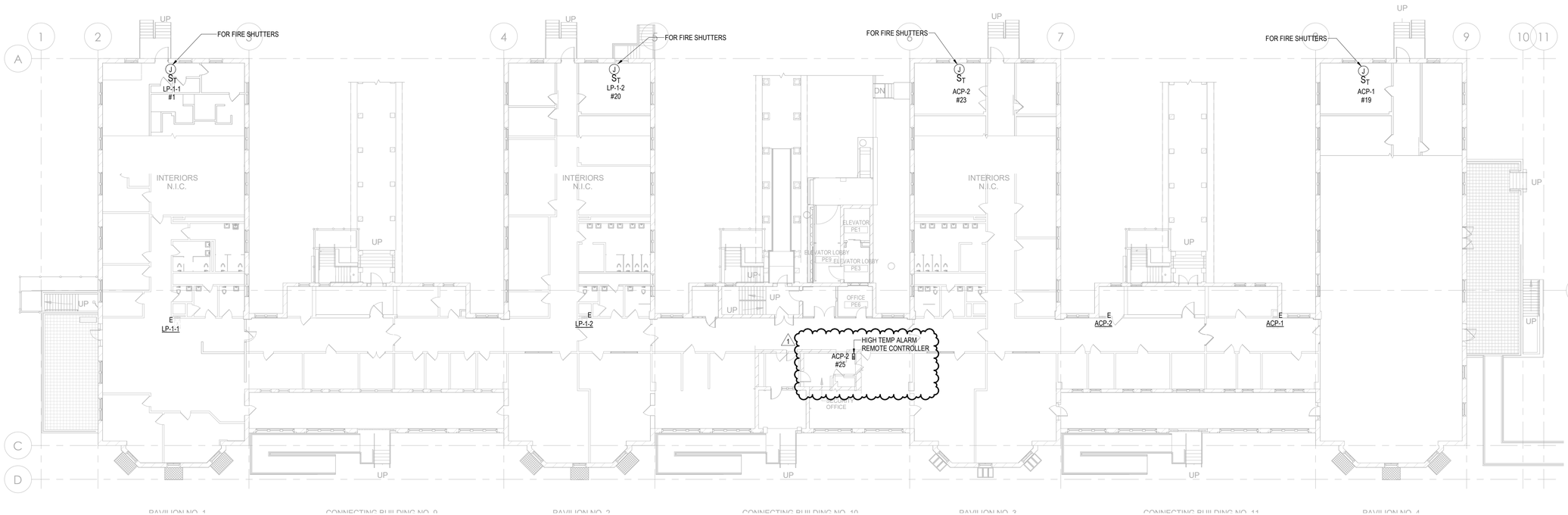
SHEET TITLE:

ELECTRICAL BASEMENT PLAN

DRAWING NUMBER:

E-300

SHEET 136 OF 142



1 FIRST FLOOR PLAN

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

ELECTRICAL NOTES:

1. SEE DRAWING 'E-001.00' FOR SYMBOL LIST AND ABBREVIATIONS.
2. SEE DRAWING 'E-002.00' FOR MODIFIED ELECTRICAL SINGLE LINE DIAGRAM.
3. SEE DRAWING 'E-400.00' AND 'E-401.00" FOR PANEL SCHEDULES.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

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REGISTRATION EXPIRES: 02/28/2029

CONTRACT:

ELECTRICAL

TITLE:

REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION: CREEDMOOR PSYCHIATRIC CENTER 80-45 WINCHESTER BLVD QUEENS VILLAGE, NEW YORK 11427

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PROJECT NUMBER:	45791-E
DESIGNED BY:	CC
DRAWN BY:	CC
FIELD CHECK:	SG
APPROVED:	CC

SHEET TITLE:

ELECTRICAL FIRST FLOOR PLAN

DRAWING NUMBER:

E-301

SHEET 137 OF 142

BRANCH PANEL: NEW EMR PANEL

LOCATION: | **VOLTS (V):** 120/208 Wye | **MAINS TYPE:** MAIN CIRCUIT BREAKER | **A.I.C. RATING:** TBD
FED FROM: | **PHASES:** 3 | **MAINS RATING:** 200 | **BUSSING (CU/AL):** CU
ENCLOSURE: TYPE 1 | **WIRES:** | **MCB RATING / POLES:** 0A / 3P | **GROUND BAR:** Yes
MOUNTING: SURFACE

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EMR GFI	20	1	180	63					1	20	EMR LIGHTING	2
3	ELEVATOR SUMP PUMP SP-1	20	1			1427	180			1	20	ELEVATOR PIT GFI	4
5	ACC-1	25	2	1505	500			1505	21	1	20	ELEVATOR PIT LIGHTING FIXTURE	6
7										1	20	TWO WAY COMMUNICATION	8
9	HIGH TEMP PANEL	20	1			300	0			1	20	SPARE	10
11	SPARE	20	1					0	0	1	20	SPARE	12
			TOTAL LOAD:	2248 VA		1607 VA		1525 VA					
			TOTAL AMPS:	19 A		13 A		13 A					

NOTES:

EXISTING PANEL: OFFICE PNL

LOCATION: | **VOLTS (V):** 120/208 Wye
MAINS TYPE: MAIN CIRCUIT BREAKER | **PHASES:** 3
MOUNTING: SURFACE | **WIRES:** 4
ENCLOSURE: TYPE 1

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	20	1	0	0					1	20	EXISTING	2
3	EXISTING	20	1			0	0			1	20	EXISTING	4
5	EXISTING	20	1					0	0	1	20	EXISTING	6
7	EXISTING	20	1	0	0					1	20	EXISTING	8
9	EXISTING	20	1			0	0			1	20	EXISTING	10
11	EXISTING	20	1					0	0	1	20	EXISTING	12
13	EXISTING	20	1	0	0					1	20	EXISTING	14
15	EXISTING	20	1			0	0			1	15	EXISTING	16
17	EXISTING	15	1					0	0	2	20	EXISTING	18
19	EXISTING	20	2	0	0								20
21						0	0			2	30	EXISTING	22
23	FIRE SHUTTER [2]	15	1					500	0				24
			TOTAL LOAD:	0 VA		0 VA		500 VA					
			TOTAL AMPS:	0 A		0 A		4 A					

NOTES:

EXISTING PANEL: UNLABELLED

LOCATION: | **VOLTS (V):** 120/208 Wye
MAINS TYPE: MAIN LUGS ONLY | **PHASES:** 3
MOUNTING: SURFACE | **WIRES:** 4
ENCLOSURE: TYPE 1

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1				0	0					2	30	EXISTING	2
3	EXISTING	30	2			0	0						4
5								0	0	1	20	EXISTING	6
7	EXISTING	30	2	0	0					1	20	EXISTING	8
9						0	0			1	20	EXISTING	10
11	EXISTING	30	2					0	0	1	20	EXISTING	12
13	EXISTING	20	1	0	0					1	20	EXISTING	14
15	EXISTING	20	1			0	0			1	20	EXISTING	16
17	FIRE SHUTTER [2]	15	1					500	0	2	30	EXISTING	18
19	FIRE SHUTTER [2]	15	1	500	0								20
21	SPACE	--	1			--	--			1	--	SPACE	22
23	SPACE	--	1					--	--	1	--	SPACE	24
25	SPACE	--	1	--	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
31	SPACE	--	1	--	--					1	--	SPACE	32
33	SPACE	--	1			--	--			1	--	SPACE	34
35	SPACE	--	1					--	--	1	--	SPACE	36
37	SPACE	--	1	--	--					1	--	SPACE	38
39	SPACE	--	1			--	--			1	--	SPACE	40
41	SPACE	--	1					--	--	1	--	SPACE	42
			TOTAL LOAD:	500 VA		0 VA		500 VA					
			TOTAL AMPS:	5 A		0 A		5 A					

NOTES:

EXISTING PANEL: PP2-2

LOCATION: | **VOLTS (V):** 120/208 Single
MAINS TYPE: MAIN CIRCUIT BREAKER | **PHASES:** 1
MOUNTING: FLUSH | **WIRES:** 3
ENCLOSURE: TYPE 1

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	20	1	0	0			1	15	EXISTING	2
3	EXISTING	20	1			0	0	1	15	EXISTING	4
5	EXISTING	15	1	0	0			1	15	EXISTING	6
7	EXISTING	15	1			0	0	1	15	EXISTING	8
9	EXISTING	15	1	0	0			1	15	EXISTING	10
11	EXISTING	15	1			0	0	1	15	EXISTING	12
13	EXISTING	15	1	0	0			1	15	EXISTING	14
15	FIRE SHUTTER [2]	15	1			500	0	1	20	EXISTING	16
			TOTAL LOAD:	0 VA		500 VA					
			TOTAL AMPS:	0 A		4 A					

NOTES:

EXISTING PANEL: LP-B-2

LOCATION: | **VOLTS (V):** 120/208 Wye
MAINS TYPE: MAIN CIRCUIT BREAKER | **PHASES:** 3
MOUNTING: SURFACE | **WIRES:** 4
ENCLOSURE: TYPE 1

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	20	1	0	0					1	20	EXISTING	2
3	EXISTING	20	1			0	0			1	20	EXISTING	4
5	EXISTING	20	1					0	0	1	20	EXISTING	6
7	EXISTING	20	1	0	0					1	20	EXISTING	8
9	EXISTING	20	1			0	0			1	20	EXISTING	10
11	EXISTING	20	1					0	0	1	20	EXISTING	12
13	EXISTING	20	1	0	0					1	20	EXISTING	14
15	EXISTING	20	1			0	0			1	20	EXISTING	16
17	EXISTING	20	1					0	0	1	20	EXISTING	18
19	EXISTING	20	1	0	0					1	20	EXISTING	20
21	FIRE SHUTTER [2]	15	1			500	0			1	20	EXISTING	22
23	SPARE	20	1					0	0	1	20	EXISTING	24
25	SPARE	20	1	0	0					1	20	EXISTING	26
27	SPARE	20	1			0	0			1	20	SPARE	28
29	SPARE	20	1					0	0	1	20	SPARE	30
31	EXISTING	20	1	0	0					1	20	EXISTING	32
33	EXISTING	20	1			0	0			2	20	EXISTING	34
35	EXISTING	20	1					0	0				36
			TOTAL LOAD:	0 VA		500 VA		0 VA					
			TOTAL AMPS:	0 A		4 A		0 A					

NOTES:

EXISTING PANEL: LP-1-1

LOCATION: | **VOLTS (V):** 120/208 Wye
MAINS TYPE: MAIN CIRCUIT BREAKER | **PHASES:** 3
MOUNTING: FLUSH | **WIRES:** 4
ENCLOSURE: TYPE 1

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	FIRE SHUTTER [2]	15	1	500	0					1	20	SPARE	2
3	SPARE	20	1			0	0			1	20	EXISTING	4
5	SPARE	20	1					0	0	1	20	SPARE	6
7	SPARE	20	1	0	0					1	20	EXISTING	8
9	EXISTING	20	1			0	0			1	20	EXISTING	10
11	EXISTING	20	1					0	0	1	20	EXISTING	12
13	EXISTING	20	1	0	0					1	20	EXISTING	14
15	EXISTING	20	1			0	0			1	20	SPARE	16
17	EXISTING	20	1					0	0	1	20	EXISTING	18
19	EXISTING	20	1	0	0					1	20	EXISTING	20
21	SPARE	20	1			0	0			1	20	EXISTING	22
23	SPARE	20	1					0	0	1	20	EXISTING	24
25	EXISTING	20	1	0	0					1	20	EXISTING	26
27	EXISTING	20	1			0	0			1	20	EXISTING	28
29	EXISTING	20	1					0	0	1	20	EXISTING	30
31	EXISTING	20	1	0	0					1	20	EXISTING	32
33	EXISTING	20	1			0	0			1	20	EXISTING	34
35	EXISTING	20	1					0	0	1	20	SPARE	36
			TOTAL LOAD:	500 VA		0 VA		0 VA					
			TOTAL AMPS:	4 A		0 A		0 A					

NOTES:

EXISTING PANEL: LP-1-2

LOCATION: | **VOLTS (V):** 120/208 Wye
MAINS TYPE: MAIN CIRCUIT BREAKER | **PHASES:** 3
MOUNTING: FLUSH | **WIRES:** 4
ENCLOSURE: TYPE 1

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	20	1	0	0					1	20	EXISTING	2
3	EXISTING	20	1			0	0			1	20	EXISTING	4
5	EXISTING	20	1					0	0	1	20	EXISTING	6
7	EXISTING	20	1	0	0					1	20	EXISTING	8
9	EXISTING	20	1			0	0			1	20	EXISTING	10
11	EXISTING	20	1					0	0	1	20	EXISTING	12
13	EXISTING	20	1	0	0					1	20	EXISTING	14
15	EXISTING	20	1			0	0			1	20	EXISTING	16
17	EXISTING	20	1					0	0	1	20	EXISTING	18
19	EXISTING	20	1	0	500					1	15	FIRE SHUTTER [2]	20
21	EXISTING	20	1			0	0			1	20	EXISTING	22
23	EXISTING	20	1					0	0	1	20	EXISTING	24
25	EXISTING	20	1	0	0					1	20	EXISTING	26
27	EXISTING	20	1			0	0			1	20	EXISTING	28
29	EXISTING	20	1					0	0	1	30	EXISTING	30
31	EXISTING	20	1	0	0					1	30	EXISTING	32
33	EXISTING	30	2			0	0			1	20	EXISTING	34
35								0	0	1	20	EXISTING	36
			TOTAL LOAD:	500 VA		0 VA		0 VA					
			TOTAL AMPS:	4 A		0 A		0 A					

NOTES:

1. ALL CIRCUIT BREAKERS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. PROVIDE CIRCUIT BREAKER COMPATIBLE AND LISTED FOR USE WITH EXISTING ELECTRICAL PANEL. SIZE AS INDICATED.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 023044

O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0022089

ATLANTIC TESTING LABORATORIES A WBE Certified Company

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Ar Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

ads ENGINEERS

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 LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR

STATE OF NEW YORK · ARI G GOLDEN · LICENSED PROFESSIONAL ENGINEER · 082940

REGISTRATION EXPIRES: 02/28/2029

CONTRACT:

ELECTRICAL

TITLE:

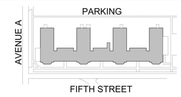
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:

CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:

NEW YORK STATE OFFICE OF MENTAL HEALTH



MARK	DATE	DESCRIPTION
1	10/20/2026	ADDENDUM #3
	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS

PROJECT NUMBER:	45791-E
DESIGNED BY:	CC
DRAWN BY:	CC
FIELD CHECK:	SG
APPROVED:	CC

SHEET TITLE:

ELECTIRCAL PANEL SCHEDULES

DRAWING NUMBER:

E-400

EXISTING PANEL: ACP-1

LOCATION:
MAINS TYPE: MAIN CIRCUIT BREAKER
MOUNTING: FLUSH
ENCLOSURE: TYPE 1
VOLTS (V): 120/208 Wye
PHASES: 3
WIRES: 4

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	20	2	0	0					2	20	EXISTING	2
3						0	0						4
5	EXISTING	20	1					0	0	2	20	EXISTING	6
7	EXISTING	20	1	0	0								8
9	EXISTING	20	1			0	0			2	20	EXISTING	10
11	EXISTING	20	2					0	0				12
13				0	0					1	20	SPARE	14
15	SPARE	20	1			0	0			1	20	SPARE	16
17	EXISTING	15	1					0	0	1	20	EXISTING	18
19	FIRE SHUTTER [2]	15	1	500	0					1	20	EXISTING	20
21	EXISTING	20	2			0	0			1	20	EXISTING	22
23								0	0	1	20	EXISTING	24
25	EXISTING	40	2	0	0					1	20	EXISTING	26
27						0	0			1	20	EXISTING	28
29	EXISTING	20	1					0	0	1	20	EXISTING	30
		TOTAL LOAD:		500 VA		0 VA		0 VA					
		TOTAL AMPS:		4 A		0 A		0 A					

NOTES:

EXISTING PANEL: ACP-2

LOCATION:
MAINS TYPE: MAIN CIRCUIT BREAKER
MOUNTING: FLUSH
ENCLOSURE: TYPE 1
VOLTS (V): 120/208 Wye
PHASES: 3
WIRES: 4

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	20	1	0	0					2	20	EXISTING	2
3	EXISTING	20	1			0	0						4
5	EXISTING	20	2					0	0	2	20	EXISTING	6
7				0	0								8
9	EXISTING	20	2			0	0			2	20	EXISTING	10
11								0	0				12
13	EXISTING	20	2	0	0					2	20	EXISTING	14
15						0	0						16
17	EXISTING	15	1					0	0	1	15	EXISTING	18
19	EXISTING	15	1	0	0					1	15	EXISTING	20
21	EXISTING	20	1			0	0			1	20	EXISTING	22
23	FIRE SHUTTER [2]	15	1					500	--	1	--	SPACE	24
25	HIGH TEMP PANEL [2]	20	1	300	--					1	--	SPACE	26
27	SPACE	--	1			--	--			1	--	SPACE	28
29	SPACE	--	1					--	--	1	--	SPACE	30
		TOTAL LOAD:		300 VA		0 VA		500 VA					
		TOTAL AMPS:		3 A		0 A		5 A					

NOTES:

NOTES:

1. ALL CIRCUIT BREAKERS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED.
2. PROVIDE CIRCUIT BREAKER COMPATIBLE AND LISTED FOR USE WITH EXISTING ELECTRICAL PANEL. SIZE AS INDICATED.

EXISTING PANEL: LP-2-1

LOCATION:
MAINS TYPE: MAIN CIRCUIT BREAKER
MOUNTING: FLUSH
ENCLOSURE: TYPE 1
VOLTS (V): 120/208 Wye
PHASES: 3
WIRES: 4

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	20	1	0	0					1	20	EXISTING	2
3	EXISTING	20	1			0	0			1	20	EXISTING	4
5	EXISTING	20	1					0	0	1	20	EXISTING	6
7	FIRE SHUTTER [2]	15	1	500	0					1	20	EXISTING	8
9	EXISTING	20	1			0	0			1	20	EXISTING	10
11	EXISTING	20	1					0	0	1	20	EXISTING	12
13	EXISTING	20	1	0	0					1	20	EXISTING	14
15	EXISTING	20	1			0	0			1	20	EXISTING	16
17	EXISTING	20	1					0	0	1	20	EXISTING	18
19	EXISTING	20	1	0	0					1	20	EXISTING	20
21	EXISTING	20	1			0	0			1	20	EXISTING	22
23	EXISTING	20	1					0	0	1	20	EXISTING	24
25	EXISTING	20	1	0	0					1	20	EXISTING	26
27	EXISTING	20	1			0	0			1	20	EXISTING	28
29	EXISTING	20	1					0	0	1	20	EXISTING	30
31	EXISTING	20	1	0	0					2	60	EXISTING	32
33	EXISTING	20	1			0	0						34
35	EXISTING	20	1					0	0	1	20	EXISTING	36
		TOTAL LOAD:		500 VA		0 VA		0 VA					
		TOTAL AMPS:		4 A		0 A		0 A					

NOTES:

EXISTING PANEL: ACP-3

LOCATION:
MAINS TYPE: MAIN CIRCUIT BREAKER
MOUNTING: SURFACE
ENCLOSURE: TYPE 1
VOLTS (V): 120/208 Wye
PHASES: 3
WIRES: 4

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	20	2	0	0					1	20	EXISTING	2
3						0	0			1	20	EXISTING	4
5	EXISTING	20	2					0	0	2	20	EXISTING	6
7				0	0								8
9	EXISTING	20	2			0	0			2	20	EXISTING	10
11								0	0				12
13	EXISTING	20	2	0	0					2	20	EXISTING	14
15						0	0						16
17	EXISTING	15	1					0	0	1	15	EXISTING	18
19	EXISTING	15	1	0	0					1	15	EXISTING	20
21	EXISTING	20	1			0	0			1	15	EXISTING	22
23	SPACE	--	1					--	0	1	15	EXISTING	24
25	EXISTING	15	1	0	0					2	20	EXISTING	26
27	EXISTING	15	1			0	0						28
29	FIRE SHUTTER [2]	15	1					500	500	1	15	FIRE SHUTTER [2]	30
		TOTAL LOAD:		0 VA		0 VA		1000 VA					
		TOTAL AMPS:		0 A		0 A		8 A					

NOTES:

EXISTING PANEL: LP-3-1

LOCATION:
MAINS TYPE: MAIN CIRCUIT BREAKER
MOUNTING: FLUSH
ENCLOSURE: TYPE 1
VOLTS (V): 120/208 Wye
PHASES: 3
WIRES: 4

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	20	1	0	0					1	20	EXISTING	2
3	EXISTING	20	1			0	0			1	20	EXISTING	4
5	EXISTING	20	1					0	0	1	20	EXISTING	6
7	FIRE SHUTTER [2]	15	1	500	0					1	20	EXISTING	8
9	FIRE SHUTTER [2]	15	1			500	0			1	20	EXISTING	10
11	EXISTING	20	1					0	0	1	20	SPARE	12
13	EXISTING	20	1	0	0					1	20	SPARE	14
15	EXISTING	20	1			0	0			1	20	EXISTING	16
17	EXISTING	20	1					0	0	1	20	EXISTING	18
19	EXISTING	20	1	0	0					1	20	EXISTING	20
21	EXISTING	20	1			0	0			1	20	EXISTING	22
23	EXISTING	20	1					0	0	1	20	EXISTING	24
25	EXISTING	20	1	0	0					1	20	EXISTING	26
27	EXISTING	20	1			0	0			1	20	EXISTING	28
29	EXISTING	20	1					0	0	1	20	EXISTING	30
31	EXISTING	20	1	0	0					1	20	SPARE	32
33	SPARE	20	1			0	0			1	20	SPARE	34
35	SPARE	20	1					0	0	1	20	SPARE	36
		TOTAL LOAD:		500 VA		500 VA		0 VA					
		TOTAL AMPS:		5 A		5 A		0 A					

NOTES:

EXISTING PANEL: LP-3-3

LOCATION:
MAINS TYPE: MAIN CIRCUIT BREAKER
MOUNTING: FLUSH
ENCLOSURE: TYPE 1
VOLTS (V): 120/208 Wye
PHASES: 3
WIRES: 4

CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION	CKT
1	EXISTING	20	1	0	500					1	15	FIRE SHUTTER [2]	2
3	EXISTING	20	1			0	0			1	20	EXISTING	4
5	EXISTING	20	1					0	500	1	15	FIRE SHUTTER [2]	6
7	SPACE	--	1	--	0					1	20	EXISTING	8
9	SPACE	--	1			--	0			1	20	EXISTING	10
11	EXISTING	20	1					0	0	1	20	EXISTING	12
13	EXISTING	20	1	0	0					1	20	EXISTING	14
15	SPACE	--	1			--	0			1	20	EXISTING	16
17	EXISTING	20	1					0	0	1	20	EXISTING	18
19	EXISTING	20	1	0	0					1	20	EXISTING	20
21	EXISTING	20	1			0	0			1	20	EXISTING	22
23	EXISTING	20	1					0	0	1	20	EXISTING	24
25	EXISTING	20	1	0	0					1	20	EXISTING	26
27	EXISTING	40	2			0	0			1	20	EXISTING	28
29								0	0	1	20	EXISTING	30
31	EXISTING	20	2	0	0					1	20	EXISTING	32
33						0	0			1	20	EXISTING	34
35	EXISTING	20	1					0	0	1	20	EXISTING	36
		TOTAL LOAD:		500 VA		0 VA		500 VA					
		TOTAL AMPS:		5 A		0 A		5 A					

NOTES:

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 023044

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ATLANTIC TESTING LABORATORIES, A WBE Certified Company

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Ar Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

ads ENGINEERS

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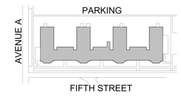
STATE OF NEW YORK · ARI G GOLDEN · 082940 · LICENSED PROFESSIONAL ENGINEER
REGISTRATION EXPIRES: 02/28/2029

CONTRACT:
ELECTRICAL

TITLE:
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:
CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:
NEW YORK STATE
OFFICE OF MENTAL HEALTH



MARK	DATE	DESCRIPTION
1	10/20/2026	ADDENDUM #3
	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS

PROJECT NUMBER:	45791-E
DESIGNED BY:	CC
DRAWN BY:	CC
FIELD CHECK:	SG
APPROVED:	CC

SHEET TITLE:
ELECTIRCAL PANEL SCHEDULES

DRAWING NUMBER:
E-401

MECHANICAL SYMBOL LIST

	NEW PIPING
T	THERMOSTAT
	ISOLATION VALVE

MECHANICAL ABBREVIATIONS

75	
AC	AIR CONDITIONING
ACCU	AIR COOLED CONDENSING UNIT
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CFM	CUBIC FEET PER MINUTE
COMPR	COMPRESSOR
COND	CONDENSATE
DB	DRY BULB
DWG	DRAWING
DX	DIRECT EXPANSION
ø,DIAM	DIAMETER
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB TEMPERATURE
ELEC	ELECTRIC
EXIST	EXISTING
FA	FREE AREA (SQ.FT.)
FPM	FEET PER MINUTE
°F	DEGREES FAHRENHEIT
HZ	FREQUENCE
IN	INCH OR INCHES
L	LENGTH
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LDB	LEAVING DRY BULB TEMPERATURE
LWB	LEAVING WET BULB TEMPERATURE
MBH	THOUSAND BTU PER HOUR
MHP	MOTOR HORSEPOWER
NTS	NOT TO SCALE
PD	PRESSURE DROP
REF	REFRIGERANT
SP	STATIC PRESSURE
V	VOLTS
W	WIDTH
WB	WET BULB
WMS	WIRE MESH SCREEN

MECHANICAL INSPECTION NOTES

2020 NYS CODE

INSPECTIONS, PROGRESS INSPECTIONS, SPECIAL INSPECTIONS AND TESTING OF MECHANICAL SYSTEMS

1. THE FOLLOWING INSPECTIONS, TESTS, PROGRESS INSPECTIONS AND SPECIAL INSPECTIONS WILL BE PERFORMED BY A SPECIAL INSPECTOR HIRED DIRECTLY BY THE OWNER. THE CONTRACTOR SHALL ASSIST HIM AS REQUIRED IN THE PERFORMANCE OF ALL INSPECTIONS.

2. UPON COMPLETION OR PARTIAL COMPLETION OF THE PERMITTED MECHANICAL WORK, INSPECTIONS, PROGRESS INSPECTIONS, SPECIAL INSPECTIONS AND TESTS SHALL BE CONDUCTED BY APPROVED AGENCIES OR SPECIAL INSPECTORS QUALIFIED TO CONDUCT SUCH INSPECTIONS AND TESTS. INSPECTIONS AND PROGRESS INSPECTIONS SHALL BE PERFORMED IN COMPLIANCE WITH SECTION BC 110 OF THE NEW YORK STATE BUILDING CODE AND CHAPTER EEC 104 OF THE NEW YORK STATE ENERGY CODE. SPECIAL INSPECTIONS SHALL BE PERFORMED IN COMPLIANCE WITH SECTIONS BC 1705 AND BC 1707 OF THE NEW YORK STATE BUILDING CODE FOR ALL MECHANICAL SYSTEMS REGULATED BY THE NEW YORK STATE MECHANICAL CODE, SECTIONS MC 108, MC 507, CHAPTERS 10, 11, 12 AND 13. REFER TO ARTICLE 115 AND 116 OF CHAPTER 1 OF TITLE 28 OF THE ADMINISTRATIVE CODE FOR ADDITIONAL PROVISIONS RELATED TO INSPECTIONS.

3. SPECIAL INSPECTIONS OF MECHANICAL SYSTEMS SHALL INCLUDE THE FOLLOWING AS APPLICABLE TO THE SYSTEM:

   A. VISUAL CERTIFICATION THAT REQUIRED COMPONENTS OF SUCH SYSTEMS ARE COMPLETE IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION GUIDELINES AND THE APPROVED CONSTRUCTION DOCUMENTS.
   B. SUPPORTS, HANGERS, SEISMIC BRACING, AND VIBRATION ISOLATION EQUIPMENT ARE PROPERLY SPACED AND ANCHORED TO SUPPORTING STRUCTURE.
   C. INSTALLATION OF REQUIRED SIGNAGE AND SAFETY INSTRUCTIONS.
   D. ELECTRICAL COMPONENTS ARE INSTALLED AND ELECTRICAL SIGN-OFF ISSUED.
   E. REQUIRED LABELING, OPERATIONAL INSTRUCTIONS AND SAFETY SIGNAGE PROPERLY POSTED.
   F. ALL RELATED SPECIAL INSPECTIONS FOR SUCH SYSTEMS ARE COMPLETE.
   G. NOISE PRODUCING EXTERIOR MECHANICAL EQUIPMENT LOCATED WITHIN 100 FEET OF HABITABLE ROOM WINDOWS SHALL BE TESTED AT THE EQUIPMENT FOR COMPLIANCE WITH THE DESIGN STC RATING OF THE EQUIPMENT AND SECTION MC 926 OF THE NEW YORK CITY MECHANICAL CODE AND THE NEW YORK CITY NOISE CONTROL CODE.

4. PROGRESS INSPECTIONS OF MECHANICAL SYSTEMS SHALL INCLUDE THE FOLLOWING AS APPLICABLE TO THE SYSTEM:

   A. THROUGH-PENETRATION FIRE STOPPING.
   B. ENERGY CODE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH CHAPTER ECC 104 OF THE NEW YORK STATE ENERGY CODE.

5. TESTS OF MECHANICAL SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING NEW YORK CITY BUILDING CODE AND NEW YORK STATE MECHANICAL CODE SECTIONS

   SECTION MC 507.6, 1011, 1108 & 1208 MECHANICAL SYSTEMS
   SECTION MC 1108 & MC 1109 REFRIGERATION

6. THE FOLLOWING IS A LIST OF ALL REQUIRED SPECIAL INSPECTIONS

SPECIAL INSPECTION ITEM	CODE/SECTION
MECHANICAL SYSTEMS	BC 1705.21

7. UPON COMPLETION OF ALL SPECIAL INSPECTIONS, TESTING AND BUILDING DEPARTMENT SIGN-OFF, THE MECHANICAL CONTRACTOR SHALL SECURE ALL CERTIFICATES OF COMPLIANCE FOR THE FOLLOWING SERVICE EQUIPMENT AND TRANSMIT SAME TO OWNER

   A. REFRIGERATION SYSTEMS.

NYSECC COMPLIANCE NOTES

1. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THIS SITE IS EXEMPT FROM COMLIANCE WITH THE 2020 NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE. THE BUILDING IS ON NATIONAL HISTORIC REGISTRY.

GENERAL NOTES:

1. SEE PROJECT 45791-C DRAWINGS FOR ARCHITECTURAL, STRUCTURAL, AND ELEVATOR SCOPES OF WORK.
2. SEE PROJECT 45791-E DRAWINGS FOR THE ELECTRICAL SCOPE OF WORK.
3. SEE PROJECT 45791-P DRAWINGS FOR THE PLUMBING SCOPE OF WORK.

AIR-COOLED CONDENSING UNIT SCHEDULE

NOTES:
1. PROVIDE UNIT WITH EMERGENCY POWER

UNIT No.	LEVEL	SERVICE	CAPACITY (BTU/H)	AMBIENT AIR TEMPERATURE (°F DB)	REFRIGERANT	LOW AMBIENT (°F)	COMPRESSOR		CONDENSER FANS		ELECTRICAL DATA					VIBRATION ISOLATION		PERFORMANCE SEER2	UNIT DIMENSIONS			OPERATING WT. (LBS)	MANUFACTURER	MODEL	REMARKS
							TYPE	NO.	No. OF FANS	DRIVE	VOLTS / PH / HZ	COMPRESSOR RLA	CONDENSER FAN FLA	MIN. CIRC AMPS	STARTER TYPE	TYPE	DEFLECTION (IN.)		WIDTH (IN)	DEPTH (IN)	HEIGHT (IN)				
ACC-1	06 - PENTHOUSE	EMR	30000.0	95	R-454B	5	TWIN ROTARY	1	1	DIRECT	208 / 1 /60	19.0	1.0	22	INTEGRAL	NEOPRENE	1/4"	19.7	37-13/32	14	37-1/8	155.00	MITSUBISHI ELECTRIC	PUZ-AH30NL	INDOOR UNIT POWERED THROUGH ACC

AIR CONDITIONING UNIT SCHEDULE

NOTE:
1. UNIT TO BE PROVIED WITH EM POWER
2. PROVIDE LEAK DETECTOR
3. PROVIDE INTERNAL CONDENSATE PUMP
4. SEE ACC-1 FOR POWER
5. PROVIDE BACNET INTERFACE

UNIT No.	TYPE	LOCATION	CFM	COOLING CAPACITY (BTU/H)	HEATING CAPACITY (BTU/H)	MANUFACTURER	MODEL #	REMARKS
AC-1	WALL MOUNTED	EMR	775	30000	12900	MITSUBISHI ELECTRIC	PKA-AK30NL	

LOUVER

NOTE:
1. REFER TO ARCHITECTURAL DRAWINGS FOR INSTALLATION DETAILS.

UNIT No.	LOCATION	SERVICE	CFM	FREE AREA (SQ.FT.)	FREE AREA (%)	OVERALL DIMENSIONS			MANUFACTURER	MODEL	REMARKS
						HEIGHT	WIDTH	DEPTH			
LP-A	ATTIC	EXHAUST	3500	3.88	51.3	2' - 9"	2' - 9"	0' - 4"	GREENHECK	ESD-435	
LP-B	ATTIC	INTAKE	3500	3.88	51.3	2' - 9"	2' - 9"	0' - 4"	GREENHECK	ESD-435	

FAN SCHEDULE

1. PROVIDE UNIT MOUNTED LINE VOLTAGE THERMOSTAT W/ KEYED SECURITY COVER
2. PROVIDE 120v MOTORIZED DAMPER
3. PROVIDE INLET GUARD
4. PROVIDE DISCONNECT
5. MINIMUM WALL OPENING 32.5 SQ.

UNIT No.	SERVICE	FAN PERFORMANCE DATA						STARTER	UNIT DIMENSIONS				MANUFACTURER	MODEL	REMARKS
		CFM	TYPE	TOTAL SP (IN. WG.)	BHP	HP	DRIVE	SWITCHES	LENGTH	WIDTH	HEIGHT	OPERATING WT. (LBS)			
EF-A	ATTIC	3500	PROPELLER	0.76	0.80	1	DIRECT	THERMAL SWITCH	1' - 11"	2' - 8 1/8"	2' - 8 1/8"	160	GREENHECK	AER-24-VGD	NOTE 1,2,3,4

INSULATION THICKNESS IN INCHES FOR PIPE SIZES

SERVICE	MATERIAL	INSULATION CONDUCTIVITY "K" VALUE	MEAN TEMP. F.	< 1"	1 TO < 1-1/2"	1-1/2" TO < 4"	4 TO < 8"	≥ 8"
REFRIGERANT	FIBERGLASS	.20 - .26	75	0.5	1	1	1	1.5
COOLING COIL CONDENSATE (40-60°F)	FIBERGLASS	.21 - .27	75	0.5	0.5	1	1	1

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 023044

O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0022089

ATL ATLANTIC TESTING LABORATORIES A WBE Certified Company

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Ar Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

ads ENGINEERS

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STATE OF NEW YORK · ARI G GOLDEN · 082940 · LICENSED PROFESSIONAL ENGINEER

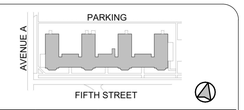
REGISTRATION EXPIRES: 02/28/2029

CONTRACT:
MECHANICAL

TITLE:
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION: CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:
NEW YORK STATE
OFFICE OF MENTAL HEALTH



MARK	DATE	DESCRIPTION
1	10/20/2026	ADDENDUM #3
	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS

PROJECT NUMBER: 45791-H

DESIGNED BY: AG

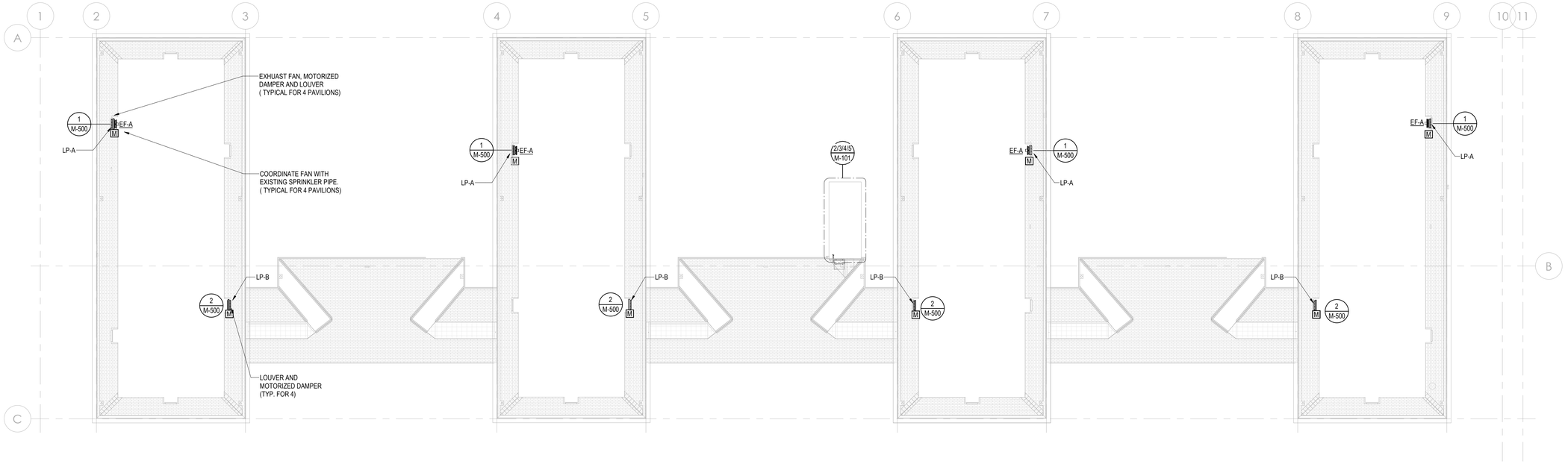
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FIELD CHECK: AG

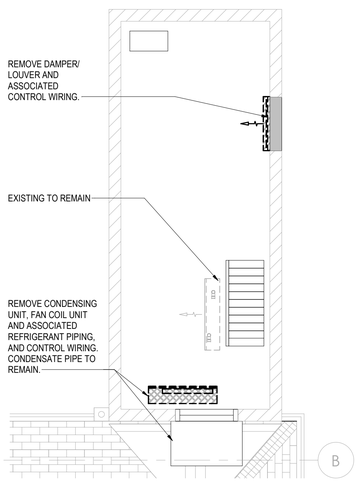
APPROVED:

SHEET TITLE:
MECHANICAL GENERAL NOTES

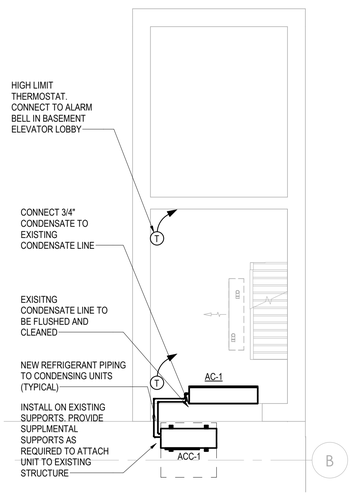
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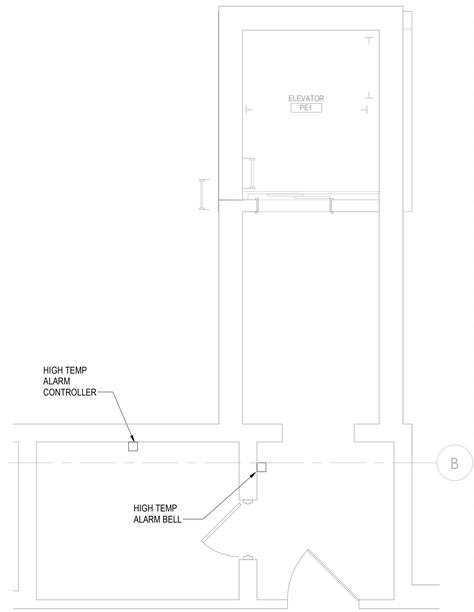
1 ATTIC PLAN
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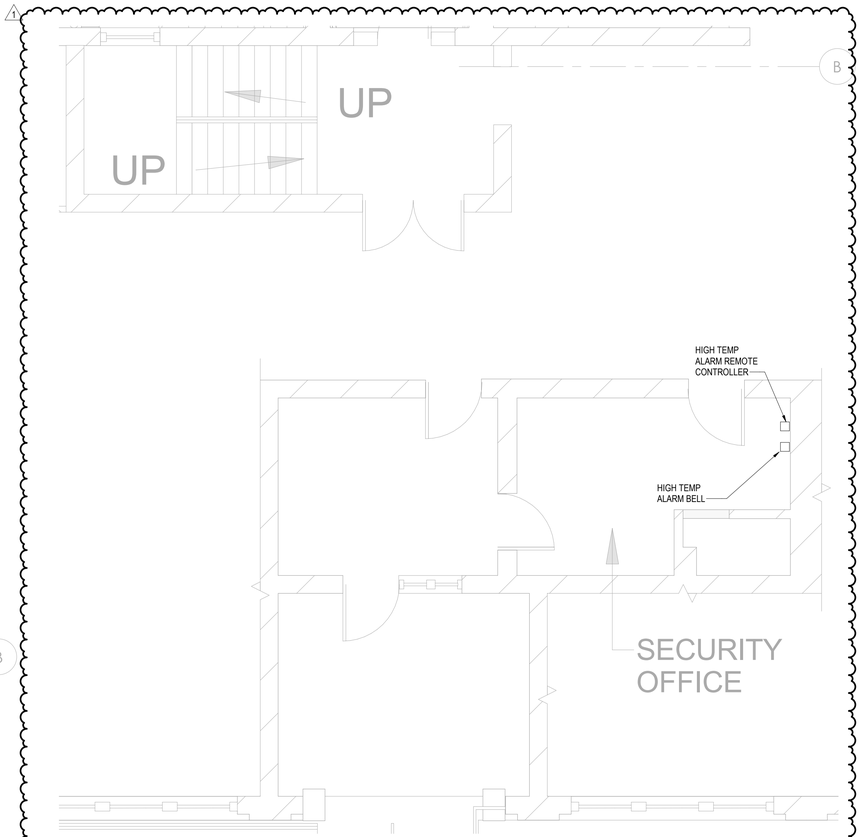
2 EMR - ELEVATOR SHAFT DEMO PART PLAN
SCALE: 1/4" = 1'-0"



3 EMR - ELEVATOR SHAFT PART PLAN
SCALE: 1/4" = 1'-0"



4 CELLAR ELEVATOR MECHANICAL
SCALE: 1/4" = 1'-0"



5 FIRST FLOOR - ELEVATOR SHAFT PART PLAN
SCALE: 1/4" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 023044

O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0022089

ATLANTIC TESTING LABORATORIES A WBE Certified Company

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Ar Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

ads ENGINEERS

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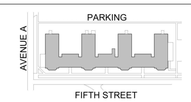
REGISTRATION EXPIRES: 02/28/2029

CONTRACT:
MECHANICAL

TITLE:
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:
CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:
NEW YORK STATE OFFICE OF MENTAL HEALTH

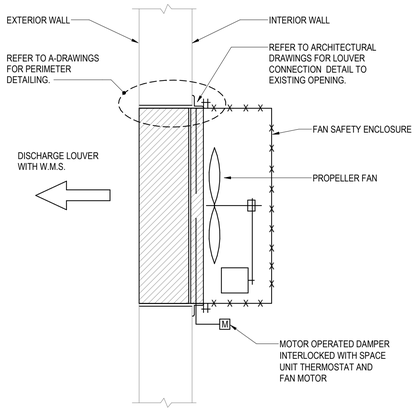


1	10/20/2026	ADDENDUM #3
	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS
MARK	DATE	DESCRIPTION

PROJECT NUMBER:	45791-H
DESIGNED BY:	AG
DRAWN BY:	AG
FIELD CHECK:	AG
APPROVED:	

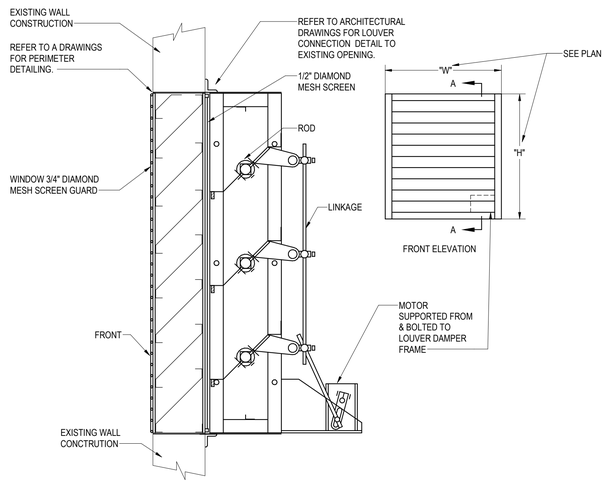
SHEET TITLE:
MECHANICAL PART PLANS

DRAWING NUMBER:
M-101



1 PROPELLER FAN THRU THE WALL DETAIL

SCALE: NTS



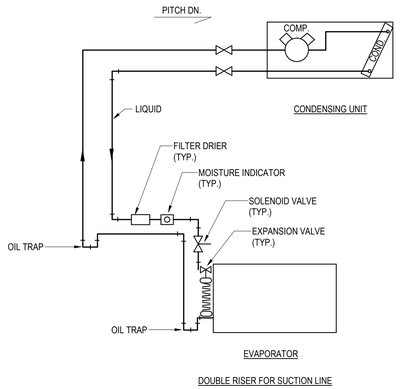
SECTION A-A

NOTES:

1. LOUVER NET AREA SHOULD NOT BE LESS THAN 50% OF THE LOUVER GROSS AREA.
2. DAMPER NET FREE AREA SHOULD NOT BE LESS THAN 85% OF THE LOUVER GROSS AREA.

2 MOTORIZED LOUVER DAMPER

SCALE: NTS

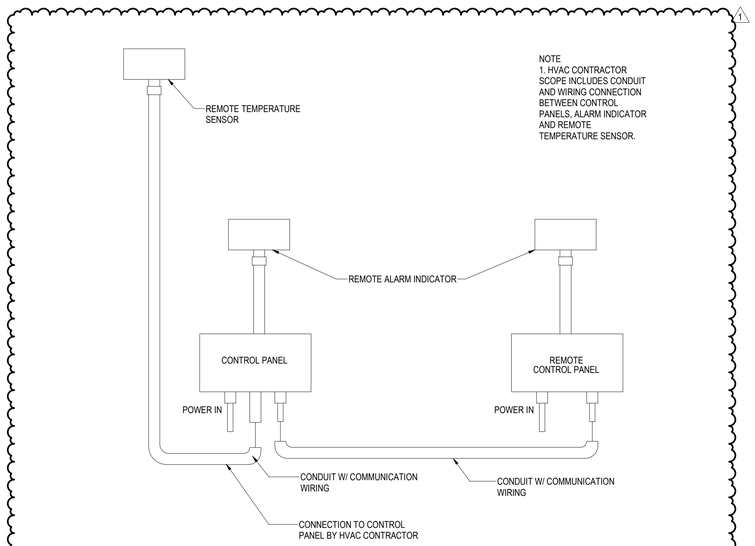


NOTES:

1. THE HORIZONTAL DIMENSION OF OIL TRAPS TO BE AS SHORT AS POSSIBLE.

3 REFRIGERANT PIPING SCHEMATIC

SCALE: NTS



4 HIGH TEMPERATURE ALARM DIAGRAM

SCALE: NTS

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

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O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0022089

ATLANTIC TESTING LABORATORIES A WBE Certified Company

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Ar Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

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REGISTRATION EXPIRES: 02/28/2029

CONTRACT:

MECHANICAL

TITLE:

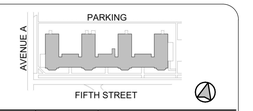
REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION:

CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:

NEW YORK STATE OFFICE OF MENTAL HEALTH



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PROJECT NUMBER:	45791-H
DESIGNED BY:	AG
DRAWN BY:	AG
FIELD CHECK:	AG
APPROVED:	

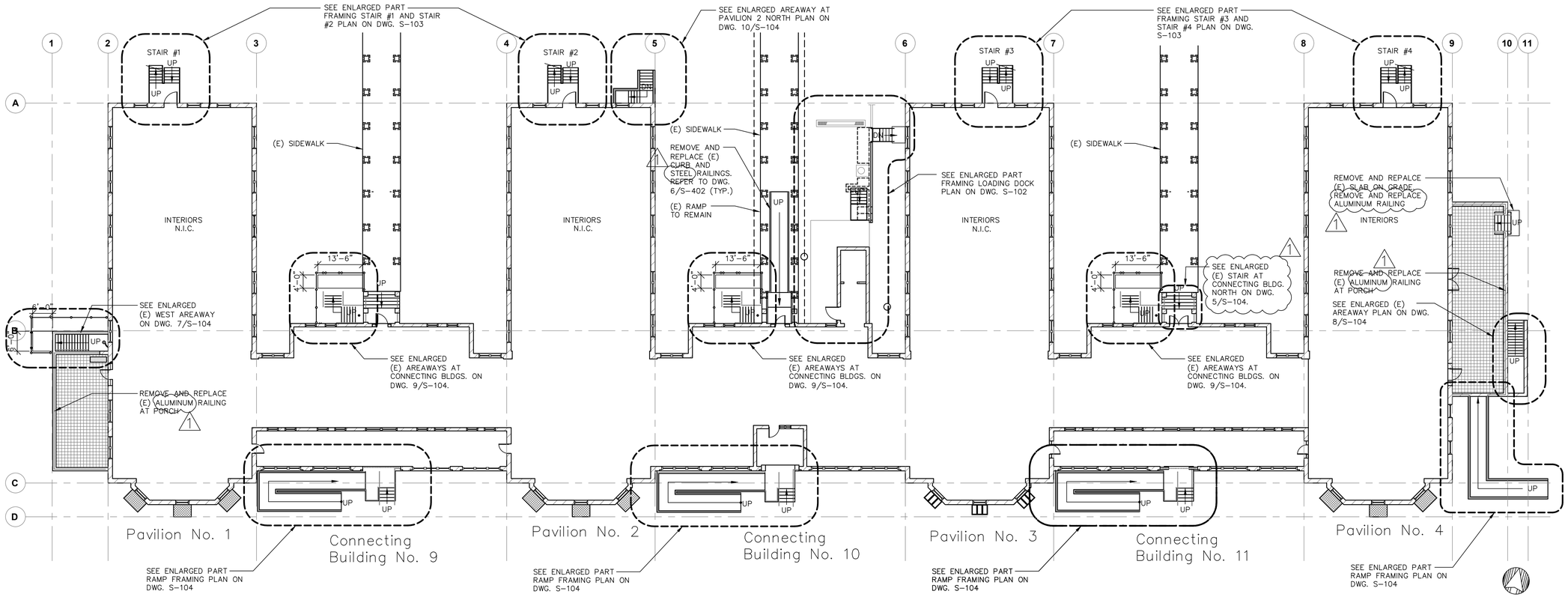
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MECHANICAL DETAILS

DRAWING NUMBER:

M-500

SHEET 131 OF 142



1 KEY PLAN
S-101 SCALE: 1/16" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

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O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0022089

ATL ATLANTIC TESTING LABORATORIES A VIBE Certified Company

ARCHITECT & ELEVATOR CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 1127432

Ar Architectural Resources

MEP ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 021207

ads ENGINEERS

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STATE OF NEW YORK PRIYANKA SAHAY 102466 LICENSED ARCHITECT

Digitally signed by priyabhu Sahay
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REGISTRATION EXPIRES: 05/31/2029

CONTRACT:

CONSTRUCTION

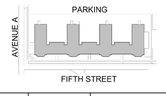
TITLE:

REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION: CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT:

NEW YORK STATE
OFFICE OF MENTAL HEALTH



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	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS

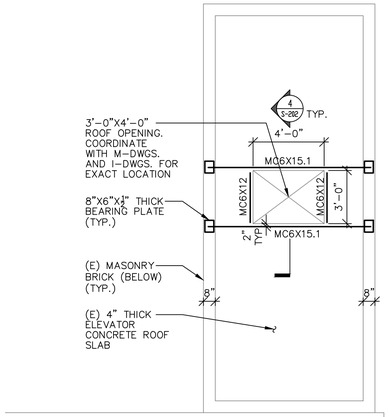
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DESIGNED BY:	
DRAWN BY:	
FIELD CHECK:	
APPROVED:	

SHEET TITLE:

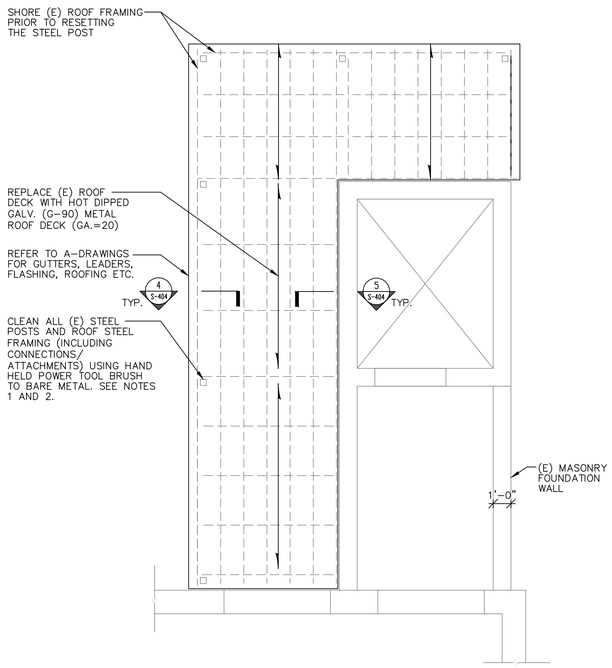
KEY PLAN

DRAWING NUMBER:

S-101

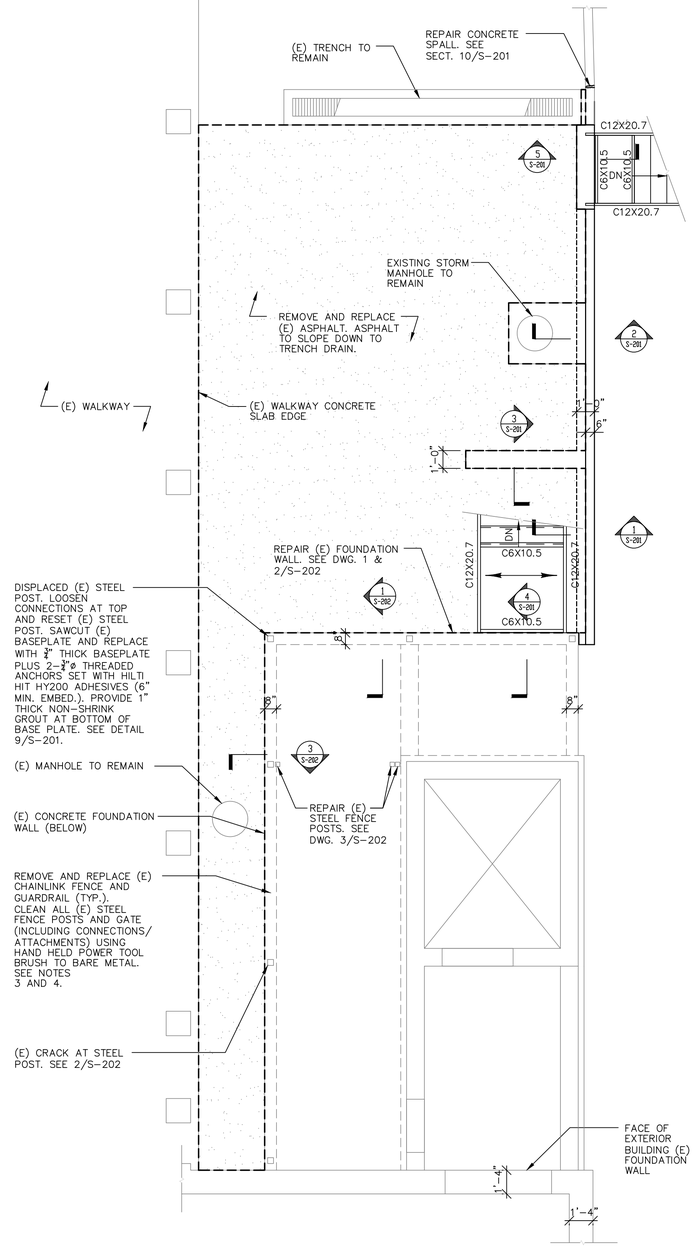


ROOF FRAMING PLAN



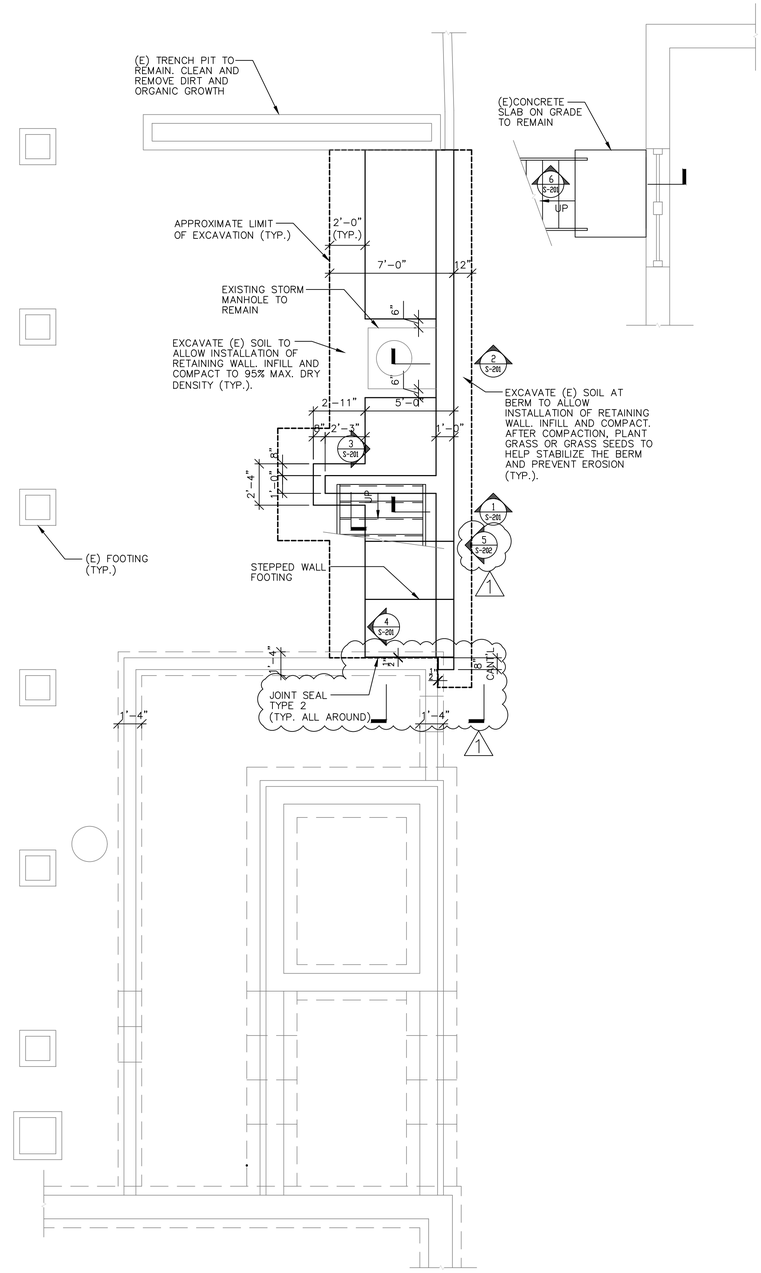
2ND FLOOR PLAN

NOTES:
1. ALL STEEL SHALL BE PRIMED AND PAINTED WITH MACROPOXY 646 AND ACROLON 218 HS TOP COAT BY SHERWIN WILLIAMS. PRIME MUST BE COMPATIBLE WITH FINISHED PAINT. ONLY ONE PRODUCT MANUFACTURER SHALL BE USE. SURFACE PREPARATION PER MANUFACTURER'S SPECIFICATIONS.
2. PAINT COLOR SHALL BE SELECTED BY THE DIRECTOR'S REPRESENTATIVE.



1ST FLOOR PLAN

NOTES:
1. ALL STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED G-90 (INCLUDING CONNECTIONS AND ACCESSORIES).
2. REMOVE (E) CONCRETE RETAINING WALL AND CONCRETE SLAB UNDER THE (E) STAIR. SEE DM DRAWINGS FOR EXTENT OF WORK.
3. ALL STEEL SHALL BE PRIMED AND PAINTED WITH MACROPOXY 646 AND ACROLON 218 HS TOP COAT BY SHERWIN WILLIAMS. PRIME MUST BE COMPATIBLE WITH FINISHED PAINT. ONLY ONE PRODUCT MANUFACTURER SHALL BE USE. SURFACE PREPARATION PER MANUFACTURER'S SPECIFICATIONS.
4. PAINT COLOR SHALL BE SELECTED BY THE DIRECTOR'S REPRESENTATIVE.
5. ASPHALT TO SLOPE DOWN TO DRAIN.



FOUNDATION PLAN

NOTES:
1. CONTRACTOR TO PROVIDE SIGNED AND SEALED SOE DRAWINGS FOR REVIEW AND APPROVAL BY THE DIRECTOR'S REPRESENTATIVES.

ELEVATOR ROOF PLAN AND LOADING DOCK

1 S-102 SCALE: 1/4" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:
CERTIFICATE OF AUTHORIZATION #: 0017739
SGH

STRUCTURAL ENGINEER:
CERTIFICATE OF AUTHORIZATION #: 023044
O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:
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Ar Architectural Resources

MEP ENGINEER:
CERTIFICATE OF AUTHORIZATION #: 021207
ads ENGINEERS

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STATE OF NEW YORK — PRAVINKUMAR PARUMALSAMY — 102161 — LICENSED PROFESSIONAL ENGINEER
Digitally signed by Prabhu Parumalsamy
Date: 2026.10.19 12:44:14 -04'00'

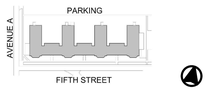
REGISTRATION EXPIRES: 05/31/2029

CONTRACT: CONSTRUCTION

TITLE: REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION: CREEDMOOR PSYCHIATRIC CENTER 80-45 WINCHESTER BLVD QUEENS VILLAGE, NEW YORK 11427

CLIENT: NEW YORK STATE OFFICE OF MENTAL HEALTH

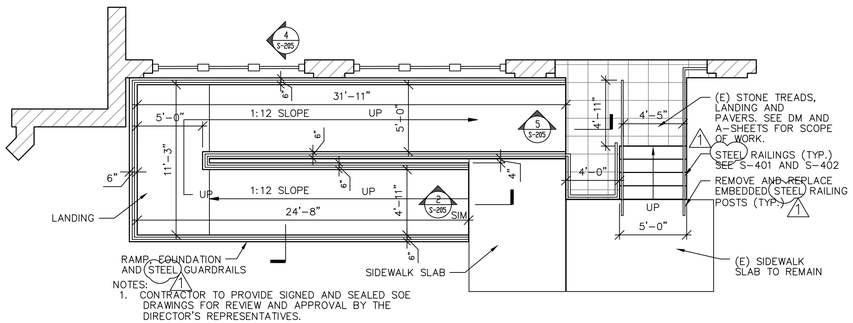


MARK	DATE	DESCRIPTION
1	10/20/2026	ADDENDUM #3
	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS

PROJECT NUMBER:	
DESIGNED BY:	
DRAWN BY:	
FIELD CHECK:	
APPROVED:	

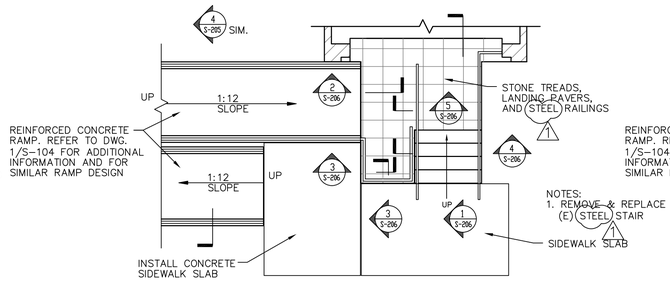
SHEET TITLE: ELEVATOR ROOF PLAN AND LOADING DOCK

DRAWING NUMBER: S-102



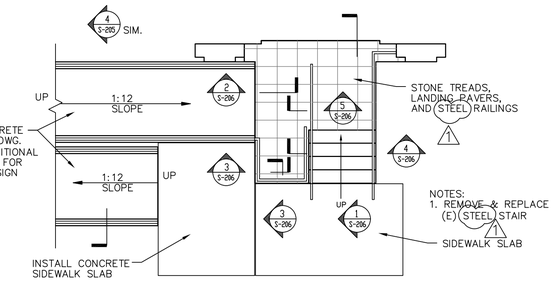
1 RAMP & STAIR AT CONNECTING BUILDING 9

S-104 SCALE: 3/16" = 1'-0"



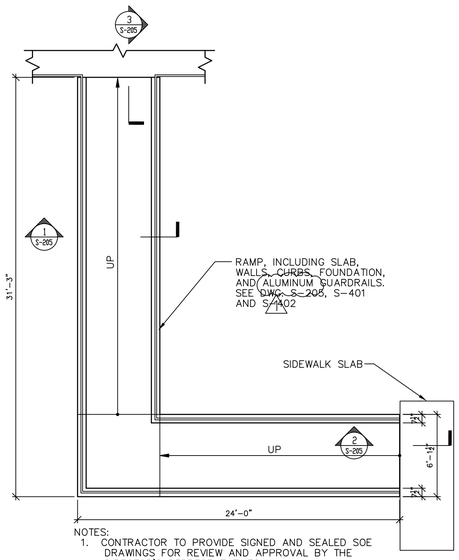
2 STAIR AT CONNECTING BLDG. 10, SOUTH

S-104 SCALE: 1/4" = 1'-0"



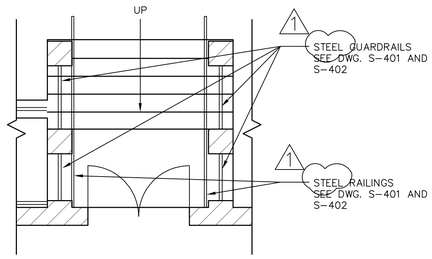
3 STAIR AT CONNECTING BLDG. 11, SOUTH

S-104 SCALE: 1/4" = 1'-0"



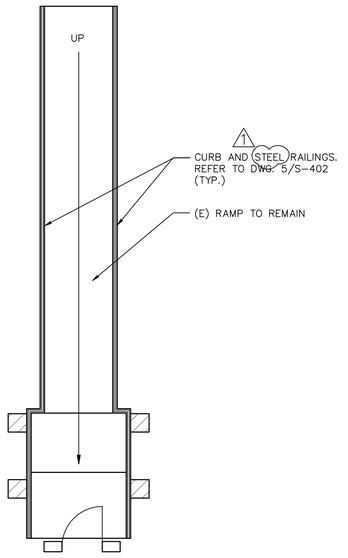
4 RAMP AT EAST PORCH

S-104 SCALE: 3/16" = 1'-0"



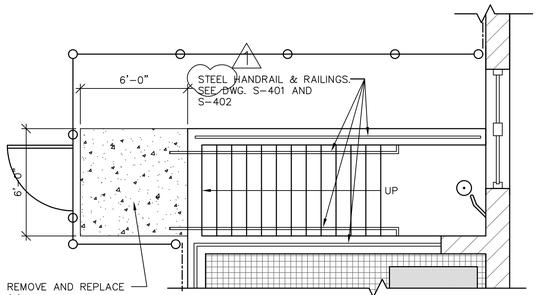
5 STAIR AT CONNECTING BLDG. 11 NORTH

S-104 SCALE: 1/4" = 1'-0"



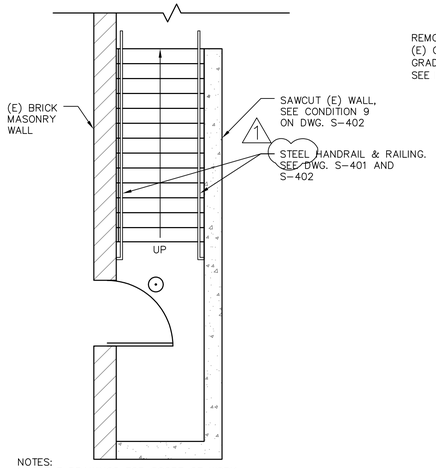
6 RAMP AND STAIR AT CONNECTING BUILDING 10, NORTH

S-104 SCALE: 3/16" = 1'-0"



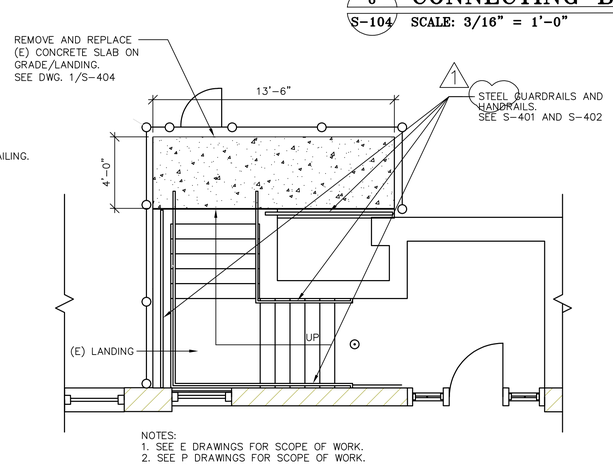
7 (E) WEST AREAWAY

S-104 SCALE: 1/4" = 1'-0"



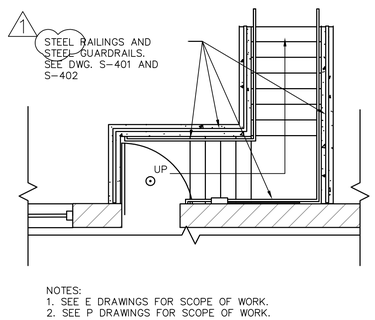
8 (E) EAST AREAWAY

S-104 SCALE: 1/4" = 1'-0"



9 (E) AREAWAYS AT CONNECTING BUILDINGS 9, 10 & 11 NORTH

S-104 SCALE: 1/4" = 1'-0"



10 AREAWAYS RECONSTRUCTION AT PAVILION 2 NORTH

S-104 SCALE: 1/4" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

BUILDING ENCLOSURE ENGINEER:

CERTIFICATE OF AUTHORIZATION #: 0017739

SGH

STRUCTURAL ENGINEER:

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O&S ASSOCIATES ENGINEERS & ARCHITECTS

ENVIRONMENTAL ENGINEER:

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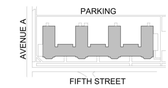
REGISTRATION EXPIRES: 05/31/2029

CONTRACT: CONSTRUCTION

TITLE: REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION: CREEDMOOR PSYCHIATRIC CENTER 80-45 WINCHESTER BLVD QUEENS VILLAGE, NEW YORK 11427

CLIENT: NEW YORK STATE OFFICE OF MENTAL HEALTH

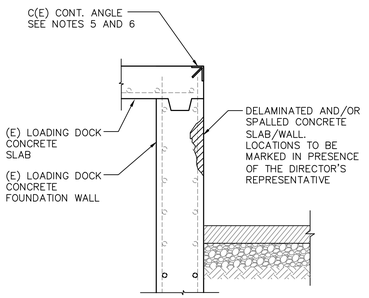


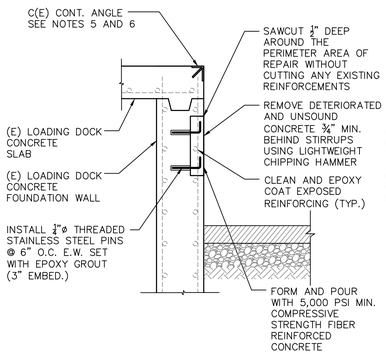
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	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS

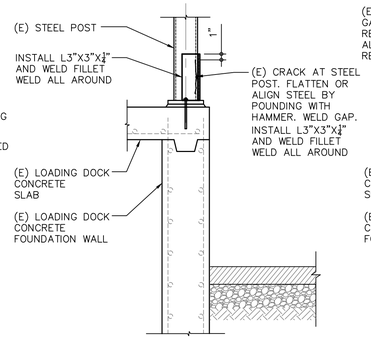
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DESIGNED BY:	
DRAWN BY:	
FIELD CHECK:	
APPROVED:	

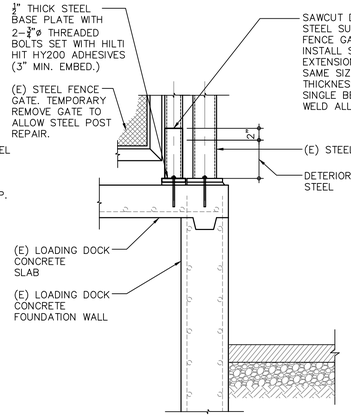
SHEET TITLE: RAMP AND STAIR PLANS

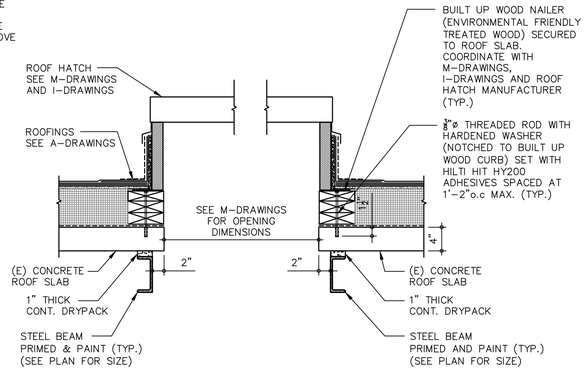
DRAWING NUMBER: S-104











EXISTING CONDITION **REPAIRED CONDITION**

1 TYPICAL CONCRETE REPAIR DETAIL

S-202 SCALE: N.T.S.

NOTES:
1. ALL CONCRETE SHALL BE 5,000 PSI MIN. COMPRESSIVE STRENGTH FIBER REINFORCED NORMAL WEIGHT CONCRETE.
2. ALL (E) EXPOSED REINFORCEMENTS SHALL BE SANDBLAST CLEAN OR USE HAND HELD POWER TOOL BRUSH TO BARE METAL.
3. APPLY SIKA BONDING AGENT TO EXISTING CONCRETE SURFACE AND REBARS PRIOR TO POURING OF CONCRETE. CONTRACTOR SHALL PROVIDE FORMWORK PRIOR TO POURING OF CONCRETE.
4. EXISTING REINFORCEMENTS SHOWN ARE FOR ILLUSTRATION ONLY. ACTUAL REINFORCEMENTS MAY DIFFER.
5. ALL STEEL SHALL BE PRIMED AND PAINTED WITH MACROPOXY 646 AND ACROLON 218 HS TOP COAT BY SHERWIN WILLIAMS. PRIME MUST BE COMPATIBLE WITH FINISHED PAINT. ONLY ONE PRODUCT MANUFACTURER SHALL BE USE. SURFACE PREPARATION PER MANUFACTURER'S SPECIFICATIONS.
6. PAINT COLOR SHALL BE SELECTED BY THE DIRECTOR'S REPRESENTATIVE.

2 TYPICAL DETAIL STEEL POST REPAIR

S-202 SCALE: NT.S.

3 TYPICAL DETAIL STEEL FENCE POST REPAIR

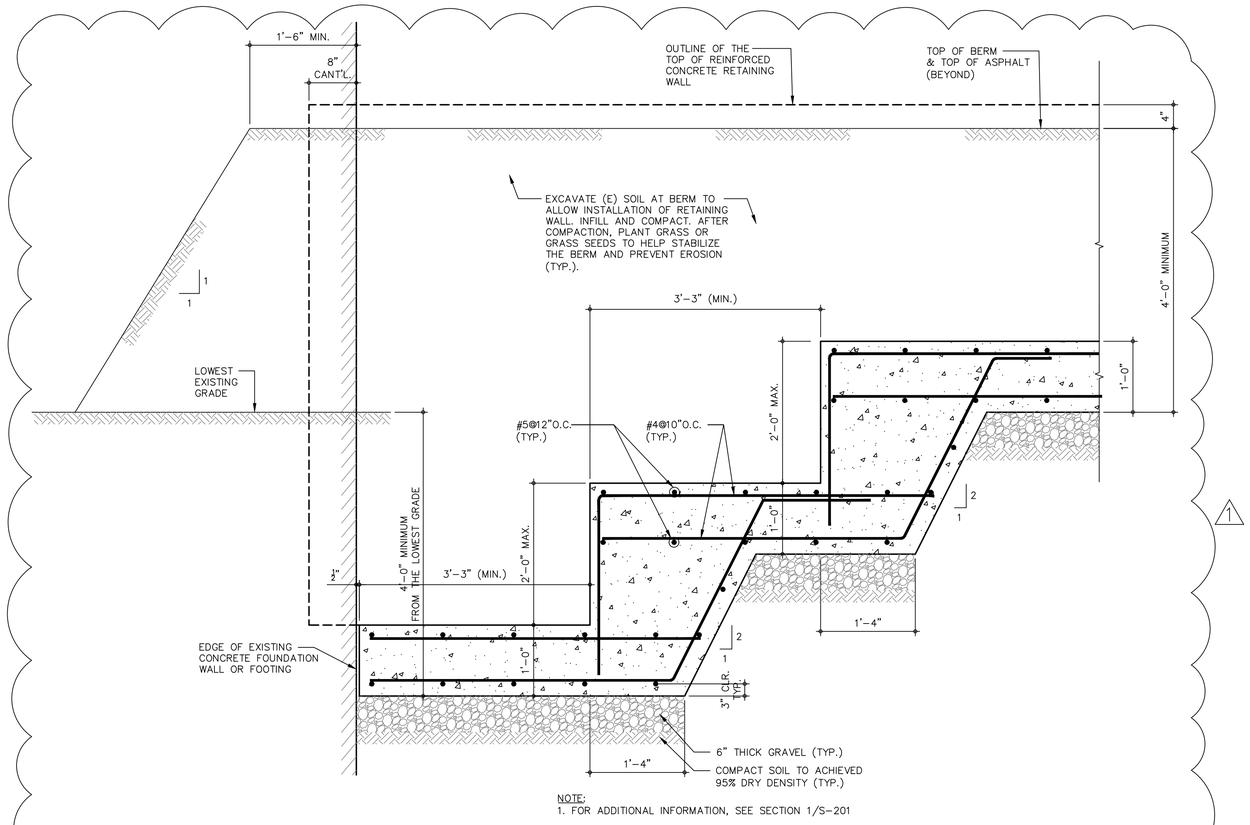
S-202 SCALE: NT.S.

NOTES:
1. SIMILAR REPAIR DETAIL AT THE ADJACENT SIDE.

4 ROOF HATCH DETAIL

S-202 SCALE: N.T.S.

NOTES:
1. INSTALL STEEL BEAMS PRIOR TO SAWCUTTING (E) CONCRETE ROOF SLAB.



NOTE:
1. FOR ADDITIONAL INFORMATION, SEE SECTION 1/S–201

5 TYPICAL STEPPED WALL FOOTING DETAIL

S-202 SCALE: N.T.S.

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Date: 2026.10.20 12:44:54 -04'00'

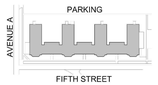
REGISTRATION EXPIRES: 05/31/2029

CONTRACT: CONSTRUCTION

TITLE: REPLACE ROOFS AND REPAIR FACADE BUILDING NO. 73

LOCATION: CREEDMOOR PSYCHIATRIC CENTER
80-45 WINCHESTER BLVD
QUEENS VILLAGE, NEW YORK 11427

CLIENT: NEW YORK STATE OFFICE OF MENTAL HEALTH



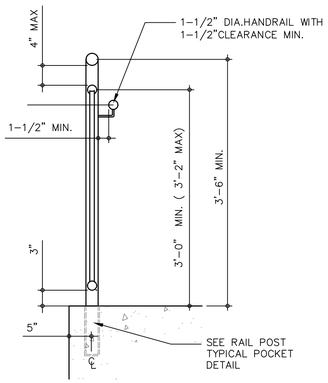
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	05/29/2026	BID DOCUMENTS
	11/14/2025	ISSUED FOR PERMIT
	08/22/2025	100% DESIGN DOCUMENTS
MARK	DATE	DESCRIPTION

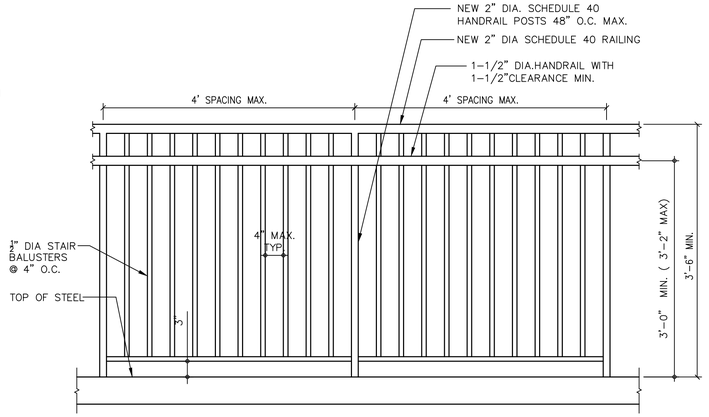
PROJECT NUMBER:	
DESIGNED BY:	
DRAWN BY:	
FIELD CHECK:	
APPROVED:	

SHEET TITLE: LOADING DOCK AND ELEVATOR ROOF SECTIONS

DRAWING NUMBER: S-202

SHEET 21 OF 142





1 TYPICAL RAIL @ STAIR/RAMP

S-401 SCALE: 1" = 1'-0"

2 TYPICAL RAIL @ STAIR/RAMP

S-401 SCALE: 1" = 1'-0"

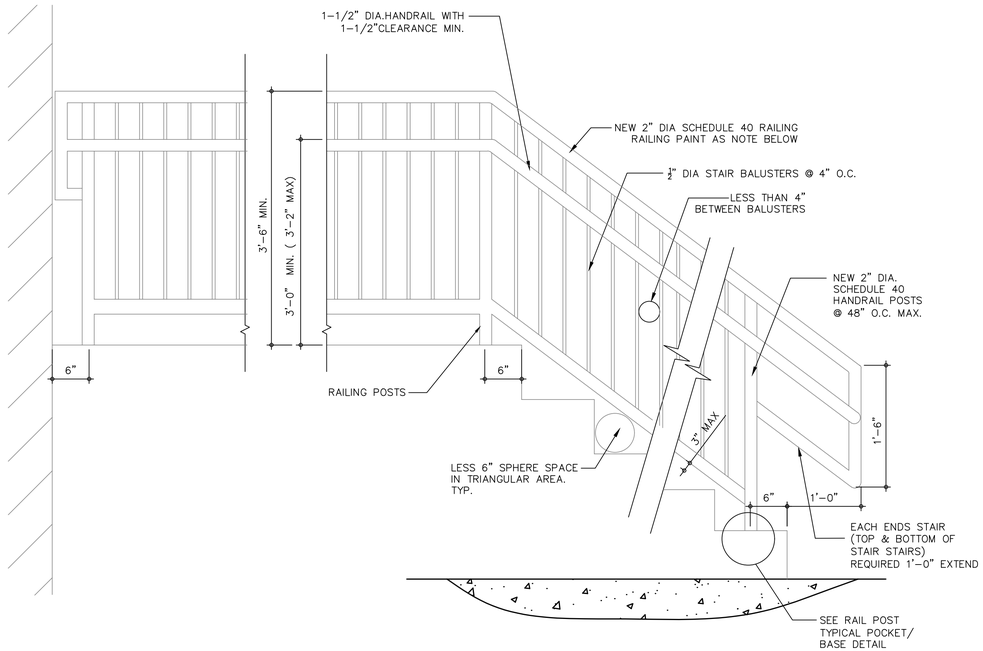
TYPICAL NOTES:

1. CONTRACTOR TO DOCUMENT AND RECORD ALL (E) RAILINGS, GUARDRAILS, HAND RAILS , RAILING POSTS ETC. PRIOR TO ANY DEMOLITION. CONTRACTOR SHALL TAKE MEASUREMENTS AND PHOTOS TO ALL (E) RAILINGS, GUARDRAILS, RAILING POSTS. THE DESIGN INTENT IS TO MATCH THE (E) RAILINGS AND GUARDRAILS SYSTEM IN TERMS OF PROFILE TYPE. RAILING TYPE SHOULD BE MARK ON PLAN.
2. CONTRACTOR SHALL COMPLY WITH THE NYS RAILING CODE AND SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR DIRECTOR'S REPRESENTATIVE REVIEW AND APPROVAL NO INSTALLATION OR FABRICATION OF RAILINGS OR GUARDRAILS WITHOUT APPROVAL BY THE DIRECTOR'S REPRESENTATIVES.
3. ALL STEEL SHALL BE PRIMED AND PAINTED WITH MACROPOXY 646 AND ACROLON 218 HS TOP COAT BY SHERWIN WILLIAMS. PRIME MUST BE COMPATIBLE WITH FINISHED PAINT. ONLY ONE PRODUCT MANUFACTURER SHALL BE USE. SURFACE PREPARATION PER MANUFACTURER'S SPECIFICATIONS.
4. PAINT COLOR SHALL BE SELECTED BY THE DIRECTOR'S REPRESENTATIVE.

1

ADDITIONAL NOTES: ALUMINUM RAILING, GUARDRAIL AT WEST & EAST PORCH, EAST RAMP & NORTHEAST STAIR:

1. ALL WELDED ALUMINUM CONSTRUCTION ASSEMBLY. RAILING STYLE & DESIGN IS SHOWN DIAGRAMMATICALLY AND MUST BE VERIFIED IN FIELD. SHOP DRAWINGS, CALCULATIONS, AND PRODUCT SAMPLE SHALL BE SUBMITTED FOR APPROVAL BY THE DIRECTOR'S REPRESENTATIVE PRIOR TO MANUFACTURING.
2. RAILING DETAILS SHOWN SHALL BE COORDINATED WITH RAILING SYSTEM. MODIFY DETAILS AS RECOMMENDED BY MANUFACTURER'S REPRESENTATIVES. CONTRACTOR AND MANUFACTURER SHALL ENSURE THAT DISSIMILAR METALS ARE INSULATED.
3. RAILING SYSTEM SHALL MEET ALL CODE REQUIREMENTS
4. ALL EXPOSED RAILING PORTIONS (INCL. WEEP AND ANCHOR HOLES) SHALL RECEIVE ELECTROSTATICALLY BAKED ON KYNAR FINISH TO MEET AAMA 2605 SPECIFICATION. MANUFACTURER SHALL PROVIDE MINIMUM 5-YEAR FINISH WARRANTY AND COLOR SHALL BE SELECTED BY DIRECTOR'S REPRESENTATIVE.
5. CONTRACTOR SHALL CONFIRM WALL ASSEMBLIES PRIOR TO INSTALLATION AND ADJUST ANCHORAGE DETAILS AS REQUIRED.



3 TYPICAL RAILING DETAILS

S-401 SCALE: 1" = 1'-0"

NOTES:

1. SEE NOTES ON DWG. 2/S-401

NOTES:

1. 2"ø HANDRAIL PIPE (SCHEDULE 40) WITH BRACKET SPACED AT 4'-0"O.C MAX. OR AS RECOMMENDED BY THE STAIR/RAILING MANUFACTURER. BRACKET SHALL BE ANCHORED INTO EXISTING CONCRETE WALL WITH HILTI HIT HY200 ADHESIVES. HANDRAIL SHALL BE COATED WITH MACROPOXY 646 AND ACROLON 218. HANDRAIL AND BRACKET COLOR SHALL BE SELECTED BY THE DIRECTOR'S REPRESENTATIVE.

4 TYPICAL RAIL @ STAIR/RAMP

S-401 SCALE: 1" = 1'-0"

NEW YORK STATE OF OPPORTUNITY. Office of General Services

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CONTRACT:

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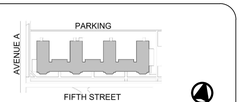
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	05/29/2026	BID DOCUMENTS
1	10/20/2026	ADDENDUM #3

PROJECT NUMBER:	
DESIGNED BY:	
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FIELD CHECK:	
APPROVED:	

SHEET TITLE:

TYPICAL DETAILS

DRAWING NUMBER:

S-401

SHEET 29 OF 142