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

ADDENDUM NO. 2 TO PROJECT NO. Q2025

CONSTRUCTION, HVAC, PLUMBING, AND ELECTRICAL WORK
PROVIDE BATHROOMS, RV PARK/MIDWAY
NEW YORK STATE FAIRGROUNDS
581 STATE FAIR BLVD
SYRACUSE, NY

April 03, 2026

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

GENERAL REQUIREMENTS – COMMON

1. SECTION 011000.01 - SUMMARY OF THE WORK, Paragraph 1.3 A, CHANGE subparagraph to read:
   "A. The construction milestones shall be completed as follows:

   Milestone #1 - Midway Bathroom Building, utilities, and site work:
   - The Work of Milestone #1 shall be Substantially Complete by **August 6, 2027**.
   - The warranty period for the Work of this Milestone shall commence upon Substantial Completion of Milestone #1.

   Milestone #2 - RV Bathroom Building, utilities, and site work:
   - The Work of Milestone #1 shall be Substantially Complete prior to the commencement of Milestone #2.
   - The Work of Milestone #2 shall be Substantially Complete by **June 28, 2028**.
   - The warranty period for the Work of this Milestone shall commence upon Substantial Completion of Milestone #2."

CONSTRUCTION WORK SPECIFICATIONS

2. SECTION 062013 – EXTERIOR FINISH CARPENTRY: Discard the Section bound in the Project Manual and substitute the Section (pages 062013-1 thru 062013-5) noted "Revised 3/31/2026".

3. SECTION 075323 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING: Discard the Section bound in the Project Manual and substitute the Section (pages 075323-1 thru 075323-17) noted "Revised 3/31/2026".

4. SECTION 087100 - DOOR HARDWARE: Discard the Section bound in the Project Manual and substitute the Section (pages 087100-1 thru 087100-11) noted "Revised 3/31/2026".

5. SECTION 099114 - EXTERIOR PAINTING (MPI STANDARDS): Discard the Section bound in the Project Manual and substitute the Section (pages 099114-1 thru 099114-9) noted "Revised 3/31/2026".

6. SECTION 099300 - STAINING AND TRANSPARENT FINISHING: Add the accompanying Section (pages 099300-1 thru 099300-7) to the Project Manual.

PLUMBING WORK SPECIFICATIONS

7. SECTION 224000 - PLUMBING FIXTURES, Paragraph 2.4: Delete this paragraph in its entirety.

CONSTRUCTION WORK DRAWINGS

8. Revised Drawings:

    a. Drawing Nos. C-100, C-500, A-400, and A-600 noted ADDENDUM NO. 2 dated 03/31/2026, accompanies this Addendum and supersedes the same numbered previously issued drawings.

9. Drawing No. A-200:

    a. Detail 1: Replace "Fiber Reinforced Conc. Panel" with “Precast Concrete Panel”.
    b. Detail 2: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.
    c. Detail 3: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.
    d. Detail 4: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.

10. Drawing No. A-300:

    a. Detail 2: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.
    b. Detail 3: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.
    c. Detail 4: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.

11. Drawing No. A-301:

    a. Detail 3: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.
    b. Detail 4: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.

12. Drawing No. A-302:

    a. Detail 1: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.
    b. Detail 2: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.
    c. Detail 3: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.
    d. Detail 5: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.
    e. Detail 6: Replace “Fiber Reinforced Conc. Panel” with “Precast Concrete Panel”.

HVAC WORK DRAWINGS

13. Drawing M-601, EXHAUST FAN SCHEDULE, REMARKS:

a. EF-1, MIDWAY BATHROOMS: Delete the following Remark: "2".
b. EF-2, MIDWAY BATHROOMS: Delete the following Remark: "2".
c. EF-3, MIDWAY BATHROOMS: Delete the following Remark: "2".
d. EF-4, MIDWAY BATHROOMS: Delete the following Remark: "2".
e. EF-1, RV PARK BATHROOMS: Delete the following Remark: "2".
f. EF-2, RV PARK BATHROOMS: Delete the following Remark: "2".
g. EF-3, RV PARK BATHROOMS: Delete the following Remark: "2".
h. EF-4, RV PARK BATHROOMS: Delete the following Remark: "2".
i. EF-1, MIDWAY BATHROOMS: Add the following Remark: "4".
j. EF-2, MIDWAY BATHROOMS: Add the following Remark: "4".
k. EF-3, MIDWAY BATHROOMS: Add the following Remark: "4".
l. EF-4, MIDWAY BATHROOMS: Add the following Remark: "4".

PLUMBING WORK DRAWINGS

14. Drawing P-001, GENERAL NOTES: Delete Number 9 in its entirety.

ELECTRICAL WORK DRAWINGS

15. Revised Drawings:
    a. Drawing Nos. E-101, E-120, and E-121 noted ADDENDUM 2 dated 03/31/2026, accompanies this Addendum and supersedes the same numbered previously issued drawings.

END OF ADDENDUM

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

SECTION 062013 – EXTERIOR FINISH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Exterior wood trim.

B. Related Requirements:

1. Section 061000 "Rough Carpentry" for furring, blocking, and other carpentry work not exposed to view.

1.2 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 process and factory-fabricated product. Indicate component materials, dimensions, profiles, textures, and colors and include construction and application details.

E. Compliance Certificates:

1. For lumber that is not marked with grade stamp.

F. Sample Warranties: For manufacturer's warranties.

1.3 QUALITY ASSURANCE

A. Mill and Producers Mark: Each piece of lumber and plywood shall be gradestamped indicating type, grade, mill, and grading agency certified by the Board of Review of the American Lumber Standards Committee. Mark shall appear on unfinished surface, or ends of pieces with finished surfaces.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Stack lumber, plywood, and other panels flat with spacers between each bundle to provide air circulation.

1. Protect materials from weather by covering with waterproof sheeting, securely anchored.
2. Provide for air circulation around stacks and under coverings.

1.5 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecast weather conditions permit work to be performed and at least one coat of specified finish can be applied without exposure to rain, snow, or dampness.

B. Do not install finish carpentry materials that are wet, moisture damaged, or mold damaged.

1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

1.6 WARRANTY

A. Manufacturer's Warranty for Engineered Wood Trim: Manufacturer agrees to repair or replace components that fail in materials or workmanship within specified warranty period.

1. Failures include, but are not limited to, deformation or deterioration beyond normal weathering.
2. Warranty Period for Trim (Excluding Finish): 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, comply with applicable rules of any rules-writing agency certified by the American Lumber Standard Committee's (ALSC) Board of Review. Grade lumber by an agency certified by the ALSC's Board of Review to inspect and grade lumber under the rules indicated.

1. Factory mark each piece of lumber with grade stamp of inspection agency, indicating grade, species, moisture content at time of surfacing, and mill.
2. For exposed lumber, mark grade stamp on end or back of each piece, or omit grade stamp and provide certificates of grade compliance issued by inspection agency.

2.2 EXTERIOR TRIM

A. Lumber Trim for Clear-Stained Finish and Painted Finish:
   1. Species; Fir, Douglas #4 (Select Tight Knot): complying with AWS Section 3, for the quality and grade specified.
   2. Maximum Moisture Content: 19 percent; all other lumber 15 percent with at least 85 percent of shipment at 12 percent or less.
   3. Finger Jointing: Not allowed.
   4. Face Surface: Surfaced (smooth).

2.3 MISCELLANEOUS MATERIALS

A. Fasteners for Exterior Finish Carpentry: Provide nails or screws, in sufficient length to penetrate not less than 1-1/2 inches into wood substrate.

   1. For face-fastening siding, provide ringed-shank siding nails unless otherwise indicated.
   2. For prefinished items, provide matching prefinished aluminum fasteners where face fastening is required.
   3. For applications not otherwise indicated, provide hot-dip galvanized-steel fasteners.

B. Wood Glue: Waterproof resorcinol glue recommended by manufacturer for exterior carpentry use.

C. Flashing: Comply with requirements in Section 076200 "Sheet Metal Flashing and Trim" for flashing materials installed in exterior finish carpentry.

2.4 FABRICATION

A. Back out or kerf backs of standing and running trim wider than 5 inches, except members with ends exposed in finished work.

B. Ease edges of lumber less than 1 inch in nominal thickness to 1/16-inch radius and edges of lumber 1 inch or more in nominal thickness to 1/8-inch radius.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Examine finish carpentry materials before installation. Reject materials that are wet, moisture damaged, and mold damaged.

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

3.2 PREPARATION

A. Clean substrates of projections and substances detrimental to application.

B. Prime lumber and moldings to be painted, including both faces and edges, unless factory primed.

1. Cut to required lengths and prime ends.

3.3 INSTALLATION, GENERAL

A. Do not use materials that are unsound, warped, improperly treated or finished, inadequately seasoned, or too small to fabricate with proper jointing arrangements.

1. Do not use manufactured units with defective surfaces, sizes, or patterns.

B. Install exterior finish carpentry level, plumb, true, and aligned with adjacent materials.

1. Use concealed shims where necessary for alignment.
2. Scribe and cut exterior finish carpentry to fit adjoining work.
3. Refinish and seal cuts as recommended by manufacturer.
4. Install to tolerance of 1/8 inch in 96 inches for level and plumb. Install adjoining exterior finish carpentry with 1/32-inch maximum offset for flush installation and 1/16-inch maximum offset for reveal installation.
5. Coordinate exterior finish carpentry with materials and systems in or adjacent to it.
6. Provide cutouts for mechanical and electrical items that penetrate exterior finish carpentry.

3.4 INSTALLATION OF STANDING AND RUNNING TRIM

A. Install trim with minimum number of joints as is practical, using full-length pieces from maximum lengths of lumber available. Do not use pieces less than 24 inches long, except where necessary.

1. Use scarf joints for end-to-end joints.
2. Stagger end joints in adjacent and related members.

B. Fit exterior joints to exclude water.

1. Cope at returns and miter at corners to produce tight-fitting joints, with full-surface contact throughout length of joint.
2. Plane backs of casings to provide uniform thickness across joints, where necessary for alignment.

C. Where face fastening is unavoidable, countersink fasteners, fill surface flush, and sand unless otherwise indicated.

3.5 ADJUSTING

A. Replace exterior finish carpentry that is damaged or does not comply with requirements.

1. Exterior finish carpentry may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing.

B. Adjust joinery for uniform appearance.

3.6 CLEANING

A. Clean exterior finish carpentry on exposed and semiexposed surfaces.

B. Touch up factory-applied finishes to restore damaged or soiled areas.

3.7 PROTECTION

A. Protect installed products from damage from weather and other causes during construction.

B. Remove and replace finish carpentry materials that are wet, moisture damaged, and mold damaged.

1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 062013

SECTION 075323 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Adhered ethylene-propylene-diene-terpolymer (EPDM) roofing system.
2. Vapor retarder.
3. Roof insulation.
4. Cover board.

1.2 DEFINITIONS

A. Roofing Terminology: Definitions in ASTM D1079 and glossary of NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" apply to work of this Section.

B. Company Field Advisor; An individual meeting the requirements of either subparagraph below:

1. An employee of the company producing or manufacturing the system (or the company which lists and markets the primary components of the system under their name) who is certified in writing by the company to be technically qualified in design, installation, and servicing of the required products, and has experience in the installation of the required products. Personnel involved solely in sales do not qualify.
2. An individual employed by an organization (other than the company producing or manufacturing the system), certified in writing by the company producing or manufacturing the system, that the individual is technically qualified in design, installation and servicing of the required products and is capable to act as company field advisor in their behalf, and has experience in the installation of the required products. Personnel involved solely in sales do not qualify.

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. Waiver Of Submittals:

1. "Named Brand" Roofing Systems: The "Waiver Of Certain Submittal Requirements" in Section 013300 applies to this Section only if a "Named Brand" roofing system is furnished.
2. "Or Equal" Roofing Systems: The "Waiver Of Certain Submittal Requirements" in Section 013300 does not apply to this Section if an "or equal" is submitted.

E. Submittals Package: Submit the shop drawings, product data, samples, and quality control submittals specified below at the same time as a package.

F. "Named Brand" Submittals: Submit for approval, one of the "named brand" roofing systems and any proposed deviations from the Contract Documents. Submit Product Data, Samples, Applicator's Certification, and Material's Certification, to the Director's Representative at the site for information purposes only.

G. "Or Equal" Submittals: Submit for approval, product data, samples, quality control submittals, and any proposed deviations from the Contract Documents.

H. Approvals: Approval of a "named brand" or "or equal" roofing system is with the understanding that the requirements of the Contract Documents will be met. Approval of a roofing system does not constitute blanket approval of the manufacturer's installation specifications or details.

1. If the requirements of the Contract Documents differ from or are more stringent than the requirements of the approved roof system manufacturer, the Contract Documents have precedence over the requirements of the approved manufacturer.

I. Proposed Deviations from the Contract Documents: Submit for approval proposed deviations when the roofing system is submitted. Proposed deviations submitted after the roofing system has been approved will not be considered for approval and may be cause for rejection of the previously approved roofing system.

1. Manufacturer's Details: Do not use or submit manufacturer's standard details unless there is an omission or a proposed deviation from the Contract Documents. In such instances, submit the revised detail for approval. Label each revised detail with the words "PROPOSED DEVIATION".
2. Manufacturer's Specifications and Installation Instructions: When there is a proposed deviation from the Contract Documents, submit the proposed deviation for approval. Label each specification and instruction revision with the words "PROPOSED DEVIATION".

J. Product Data: For each type of product.

1. For insulation and roof system component fasteners, include copy of FM Approvals' RoofNav listing.

K. Shop Drawings: Include roof plans, sections, details, and attachments to other work, including the following:

1. Layout and thickness if insulation.
2. Base flashings and membrane terminations.

a. Before the Work commences, turn over to the Director's Representative at the site one set of sheet membrane layout drawings prepared or approved by the membrane manufacturer.

3. Flashing details at penetrations.
4. Tapered insulation, thickness, and slopes.

a. Submit an accurate layout of the tapered insulation showing the slopes to the drains. Show cross section drawings illustrating the location and thickness of tapered insulation pieces and filler pieces. Show the thickness of the insulation system at high and low points.

5. Roof plan showing orientation of steel roof deck and orientation of roof membrane and fastening spacings and patterns for mechanically fastened roofing system.
6. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.
7. Tie-in with air barrier.

L. Quality Control Submittals:

1. Wind Uplift Resistance Submittal: For roofing system, indicating compliance with wind uplift performance requirements.
2. Qualification Data: For Installer and manufacturer.

a. Installer Certification:

1) Letter from the membrane manufacturer certifying that the installer is licensed or approved to install the roof system.
2) Names, address, and telephone numbers of 3 buildings where the applicator has installed EPDM sheet membrane roof systems that have had the manufacturer's warranty issued. Include the types of EPDM systems installed, the manufacturer's name, and the warranty numbers.
3) Letter certifying that the job foreman or crew chief and at least one other member of the roofing crew have installed at least 3 EPDM sheet membrane roof systems and are thoroughly familiar with all aspects of the installation.

b. Membrane Manufacturer Certificates:

1) Submit a letter certifying that the manufacturer has been actively marketing the submitted system for a minimum of 5 years.
2) Submit the names and addresses of 10 previous roofing projects. Include the type and size of each project, and name and telephone number of a contact person at the project location.

3. Material Certificates:

a. Performance Requirement Certificate: Signed by roof membrane manufacturer, certifying that roofing system complies with requirements specified in "Performance Requirements" Article.

1) Submit evidence of complying with performance requirements.

b. Special Warranty Certificate: Signed by roof membrane manufacturer, certifying that all materials supplied under this Section are acceptable for special warranty.

4. Product Test Reports: For components of roof membrane and insulation, for tests performed by a qualified testing agency, indicating compliance with specified requirements.
5. Evaluation Reports: For components of roofing system, from UNIFORM CODE-ES.
6. Field Test Reports:

   a. Concrete internal relative humidity test reports.
   b. Fastener-pullout test results and manufacturer's revised requirements for fastener patterns.

7. Field quality-control reports.

M. Contract Closeout Submittals:

1. Sample Warranties: For manufacturer's special warranties.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance Data: For roofing system to include in maintenance manuals.

1. Certified statement from existing roof membrane manufacturer stating that existing roof warranty has not been affected by Work performed under this Section.
2. Operations and Maintenance Manual: Submit grease guard manufacturers printed maintenance requirements, per O&M manual requirements.

B. Maintenance Materials Submittals:

1. Furnish to the Facility 25 sq ft of EPDM sheet membrane, one gallon of splicing cement, and 4 tubes of lap sealant. These materials will be used by the Facility for emergency repairs of the membrane. Include one set of the manufacturer’s printed instructions for installing the above items.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: A qualified manufacturer that is UL listed and listed in FM Approvals' RoofNav for roofing system identical to that used for this Project.

1. The manufacturer shall have been actively marketing an EPDM roof system in the United States for a minimum of 5 years.
2. The manufacturer shall have the technical expertise and qualified technical representatives to resolve questions or problems that may arise both during and after the Work is completed.
3. The manufacturer shall furnish the names, addresses, and telephone numbers of at least 10 previous projects of comparable size, scope, and complexity as the work of this Section.
4. The manufacturer shall require that the roof system be installed by a licensed or approved installer.

B. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's special warranty.

1. The installer shall have previously installed at least 3 EPDM sheet membrane systems for which the manufacturer's warranty was issued.
2. Workers: The crew chief or foreman and at least one other member of the roofing crew shall have installed at least 3 EPDM sheet membrane roof systems and shall be thoroughly familiar with all aspects of the installation.

1.6 ROOFING MANUFACTURER'S COMPANY FIELD ADVISOR

A. The manufacturer of the roofing system, issuing the final system guarantee on this roofing project, must supply a Company Field Advisor, as a technical representative, with the following minimum qualifications:

1. Five years of field experience on the same type of roofing system.
2. Ten projects where role was a Company Field Advisor; include contact names and phone numbers for each project.
3. Attendance at a roof specific instructional seminar within the last two years.

B. Company Field Advisor Duties and Responsibilities:

1. Become familiar with the Contract Documents and approved submittals prior to the pre-roofing conference.
2. Attend the pre-roofing conference and the beginning of the actual membrane installation for the purpose of:

    a. Rendering technical assistance to the Contractor regarding installation procedures of the system.
    b. Familiarizing the Director's Representative with aspects of the system including inspection techniques.
    c. Answering questions that might arise.

3. Be objective, unbiased and impartial in each inspection, recommendation, conversation, action and written report.

    a. Inspect and approve the existing substrate, flashing, blocking, and related materials as being acceptable for the installation of the roofing system.
    b. Ensure proper fastening patterns and fastener sizes of wood blocking, insulation, edge flashing, and related components.

4. Immediately report non-compliant conditions, if any, to the Director's Representative.
5. Report to the Director's Representative in writing failure or refusal of the Contractor to correct unacceptable practices called to the Contractor's attention.
6. Confirm, after completion of the roofing work and based on the Company Field Advisor's inspections and tests, that the Company Field Advisor has observed no applications procedures in conflict with the specifications other than those that may have been previously reported and corrected.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.

B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.

1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.

C. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.

D. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

1.8 FIELD CONDITIONS

A. Do not execute the Work of this Section unless the Director’s Representative is present, unless otherwise directed in writing.

B. Do not execute the Work of this Section unless the substrate is dry and free of dirt and debris.

C. Moisture Protection:

1. Cover, seal or otherwise protect the roof and flashings so that water cannot accumulate or flow under completed portions. When and where necessary to accomplish this, provide temporary water cut-offs in accordance with the membrane manufacturer’s written specifications.
2. Limit the removal of existing materials to areas that can be completely re-roofed or temporarily protected within the same day. At the discretion of the Director’s Representative, a watertight built-up vapor barrier may be acceptable temporary protection for a maximum of 48 hours.

D. Do not smoke or use open flames near volatile materials.

E. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.9 WARRANTY

A. Warranty Extension: The one year period required by Paragraph 9.8 of the General Conditions is extended to 2 years for the Work of this Section. Refer to Supplementary Conditions.

B. Manufacturer's Warranty: In addition to the two year period specified above, furnish the membrane manufacturer's printed 10 year warranty for the Work of this Section. The warranty shall include but not be limited to, repair of leakage caused by defects in materials or workmanship. The monetary value of the warranty shall be at least equal to the original cost of the installation.

C. Manufacturer's Warranty: In addition to the 2 year period specified above, furnish the membrane manufacturer's printed 30 Year Full System Warranty for 90 mil membrane, covering workmanship, materials, and wind related damage, for the Work of this Section.

1. The warranty shall include, but not be limited to, repair of leakage and the repair and/or replacement of the roofing system as necessary to correct defects or damage caused by; materials, workmanship, or wind speeds less than 72 MPH.

a. Materials shall include the membrane, insulation, fasteners, adhesives and tapes, flashing originally provided by the manufacturer, and all accessory products.
b. Repair and/or replacement of the roofing system shall include the replacement of wet insulation. For the purpose of this specification, insulation will be considered wet if either of the following exists:

1) Free water is visible when the insulation is compressed.
2) No free water is visible when the insulation is compressed, but the insulation is damp to the touch over a large enough area, as determined by the Director's Representative, to jeopardize the integrity of the roof system and any of its components, or to significantly lower the specified R value of the insulation.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Installed roofing system and base flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roofing and flashings shall remain watertight.

1. Accelerated Weathering: Roof membrane shall withstand 2000 hours of exposure when tested according to ASTM G152, ASTM G154, or ASTM G155.
2. Impact Resistance: Roof membrane shall resist impact damage when tested according to ASTM D3746, ASTM D4272, or the Resistance to Foot Traffic Test in FM Approvals 4470.

B. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roof membrane manufacturer based on testing and field experience.

C. Wind Uplift Resistance: Design roofing system to resist the following wind uplift pressures when tested according to FM Approvals 4474, UL 580, or UL 1897:

1. Zone 1 (Roof Area Field): 22 psf

2. Zone 2 (Roof Area Perimeter): 31 psf

   a. Location: See S-001 for more information.

3. Zone 3 (Roof Area Corners): 47 psf

   a. Location: See S-001 for more information.

2.2 SYSTEM DESCRIPTION

A. Type C:

1. Adhered EPDM System: EPDM fully adhered coverboard with bonding adhesive, and the insulation and/or substrate board mechanically attached to the structural deck.

2.3 ETHYLENE-PROPYLENE-DIENE-TERPOLYMER (EPDM) ROOFING

A. EPDM Sheet: ASTM D4637, Type I, nonreinforced, EPDM sheet with factory-applied seam tape.

1. Products: Subject to compliance with requirements, provide one of the following:

   a. Carlisle SynTec Incorporated; Sure-Seal EPDM.

   b. Firestone Building Products; RubberGard EPDM Platinum.
   c. Johns Manville; a Berkshire Hathaway Company; JM EPDM NR.
   e. Versico Roofing Systems; VersiGard Fully Adhered Roofing System.
   f. Approved equivalent.

2. Thickness: 90 mils, nominal.
3. Exposed Face Color: Black.
4. Source Limitations: Obtain components for roofing system from roof membrane manufacturer or manufacturers approved by roof membrane manufacturer.

2.4 AUXILIARY ROOFING MATERIALS

A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with other roofing components.

1. Adhesive and Sealants: Comply with VOC limits of authorities having jurisdiction.

B. Sheet Flashing: EPDM, partially cured or cured, according to application. Membrane thickness as required by manufacturer.

C. Slip Sheet: Manufacturer's standard, of thickness required for application.

D. Prefabricated Pipe Flashings: As recommended by roof membrane manufacturer.

E. Expansion Joint Tube: Compressible neoprene or polyethylene tube, twice the diameter of the width of the expansion joint

F. Bonding Adhesive: Manufacturer's standard.

G. Seaming Material: Manufacturer's standard, synthetic-rubber polymer primer and 6-inch- wide minimum, butyl splice tape with release film.

H. Lap Sealant: Manufacturer's standard, single-component sealant, colored to match membrane roofing.

I. Sealant: One-part, low modulus, silicone sealant:

1. Products: Subject to compliance with requirements, provide one of the following:

a. Dowsil; 790 Silicone Building Sealant.
b. GE Silicones; SCS2000 Silpruf Sealant.
c. Pecora Corp.; 864NST Silicone Sealant.
d. Tremco;
e. Approved equivalent.

J. Water Cutoff Mastic: Manufacturer's standard butyl mastic sealant.

K. Metal Termination Bars: Manufacturer's standard, predrilled stainless steel or aluminum bars, approximately 1 by 1/8 inch thick; with anchors.

L. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening components to substrate, and acceptable to roofing system manufacturer.

1. Wood Decks: hardened, self-tapping, anti-backout, Phillips pan head screws with round, square or hexagonal steel stress plates. Plate size as recommended by the manufacturer.

a. Minimum penetration 1-inch, minimum pull out resistance from deck 360 pounds unless specified otherwise by the membrane manufacturer.

M. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, molded pipe boot flashings, preformed inside and outside corner sheet flashings, reinforced EPDM securement strips, T-joint covers, in-seam sealants, termination reglets, cover strips, and other accessories.

N. Roof Drain Membrane Clamping Collar: Universal cast iron membrane clamping collar and mounting hardware.

1. Products: Subject to compliance with requirements, provide one of the following:

a. Jay R. Smith Mfg. Co.; Universal Membrane Clamping Collar Model No. 1002.
b. Marathon Roofing Products Inc.; Universal clamping ring.
c. Approved equivalent.

O. Pitch Pocket Filler Material:

1. Mortar: ASTM C 270, Type S.
2. Elastomeric Cement: Non-sag, cold applied, trowel grade, single component rubber elastomer with minimum elongation of 400 percent, supplied by the membrane manufacturer to satisfy warranty requirements.

2.5 VAPOR RETARDER

A. Vapor retarder to have a minimum perm rating of 0.05 per ASTM E96. Vapor retarder must be acceptable as a temporary roof and have a minimum 90 day exposure rating.

B. Self-Adhering-Sheet Vapor Retarder: ASTM D1970, polyethylene film laminated to layer of rubberized asphalt adhesive, minimum 40-mil-total thickness; maximum permeance rating of 0.1 perm; cold applied, with slip-resisting surface and release paper backing. Provide primer when recommended by vapor retarder manufacturer.

2.6 ROOF INSULATION

A. General: Preformed roof insulation boards manufactured or approved by EPDM roof membrane manufacturer, approved for use in FM Approvals' RoofNav-listed roof assemblies.

B. Polyisocyanurate Board Insulation: ASTM C1289, Type II, Class 1, Grade 2, felt or glass-fiber mat facer on both major surfaces.

1. Compressive Strength: 20 psi.
2. Size: 48 by 96 inches.
3. Thickness: as required to achieve R-value for roof/ceiling assembly.

C. Tapered Insulation: Provide factory-tapered insulation boards.

1. Material: Match roof insulation.
2. Minimum Thickness: 1/4 inch.
3. Slope:

    a. Roof Field: 1/4 inch per foot unless otherwise indicated on Drawings.
    b. Saddles and Crickets: 1/2 inch per foot unless otherwise indicated on Drawings.

2.7 INSULATION ACCESSORIES

A. General: Roof insulation accessories recommended by insulation manufacturer for intended use and compatibility with other roofing system components.

B. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Approvals 4470, designed for fastening roof insulation to substrate, and acceptable to roofing system manufacturer.

C. Insulation Adhesive: Insulation manufacturer's recommended adhesive formulated to attach roof insulation to substrate or to another insulation layer as follows:

1. Full-spread, spray-applied, low-rise, two-component urethane adhesive.

D. Cover Board: ASTM C1177, glass-mat, water-resistant gypsum substrate, or ASTM C1278, fiber-reinforced gypsum board.

1. Products: Subject to compliance with requirements, provide one of the following:

a. Georgia-Pacific Gypsum LLC; Dens Deck.
b. USG Corporation; Securock Glass Mat Roof Board.
c. Approved equivalent.

2. Thickness: 1/2 inch.
3. Surface Finish: Factory primed.

2.8 MISCELLANEOUS MATERIAL

A. Grease Guards: Grease containment system consisting of an extruded anodized aluminum frame and 3-inch thick, 3 layer absorbent filter, deflection cap flanges, and miscellaneous accessories, sized 48 inches larger than the exhaust curb;

1. Product: Subject to compliance with requirements, provide one of the following:

a. Facilitec USA.
b. Grease Guard.
c. Approved equivalent.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.

1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.

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

3.2 PREPARATION

A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing system installation according to roofing system manufacturer's written instructions. Remove sharp projections.

B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.

C. Perform fastener-pullout tests according to roof system manufacturer's written instructions and as identified in Part 2.

1. Submit test result within 24 hours of performing tests.

D. Testing Pull Out Resistance of Fasteners: Before commencing with the roofing work, in the presence of the Director's Representative, conduct fastener pull out tests to determine if the pull out values meet the requirements of the Contract Documents and the membrane manufacturer.

1. Conduct the tests at representative locations and/or where selected by the Director's Representative as follows:

a. Up to 5,000 square feet: 3 tests.
b. 5,000 to 10,000 square feet: 6 tests.
c. 10,000 to 50,000 square feet: 10 tests.
d. 50,000 to 100,000 square feet: 20 tests.

2. Patch holes at the test locations.
3. Do not proceed with the roofing work if the pull out resistance of the fasteners is less than specified in this Section.

3.3 INSTALLATION OF ROOFING, GENERAL

A. Install roofing system according to roofing system manufacturer's written instructions.

B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at end of workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

3.4 INSTALLATION OF VAPOR RETARDER

A. Self-Adhering-Sheet Vapor Retarder: Prime substrate if required by manufacturer. Install self-adhering-sheet vapor retarder over area to receive vapor retarder, side and end lapping each sheet a minimum of 3-1/2 and 6 inches, respectively.

1. Extend vertically up parapet walls and projections to a minimum height equal to height of insulation and cover board.
2. Seal laps by rolling.

B. Completely seal vapor retarder at terminations, obstructions, and penetrations to prevent air movement into roofing system.

3.5 INSTALLATION OF INSULATION

A. Coordinate installing roofing system components so insulation is not exposed to precipitation or left exposed at end of workday.

B. Comply with roofing system and insulation manufacturer's written instructions for installing roof insulation.

C. Installation Over Wood Decking:

1. Mechanically fasten slip sheet to roof deck using mechanical fasteners specifically designed and sized for fastening slip sheet to wood decks.

    a. Fasten slip sheet to resist specified uplift pressure at corners, perimeter, and field of roof.

2. Install base layer of insulation with joints staggered not less than 24 inches in adjacent rows.

    a. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
    b. Make joints between adjacent insulation boards not more than 1/4 inch in width.
    c. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches.

        1) Trim insulation so that water flow is unrestricted.

    d. Fill gaps exceeding 1/4 inch with insulation.
    e. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
    f. Loosely lay base layer of insulation units over substrate.
    g. Mechanically attach base layer of insulation using mechanical fasteners specifically designed and sized for fastening specified board-type roof insulation to wood decks.

        1) Fasten insulation to resist specified uplift pressure at corners, perimeter, and field of roof.

3. Install upper layers of insulation and tapered insulation with joints of each layer offset not less than 12 inches from previous layer of insulation.

    a. Staggered end joints within each layer not less than 24 inches in adjacent rows.
    b. Install with long joints continuous and with end joints staggered not less than 12 inches in adjacent rows.
    c. Trim insulation neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
    d. Make joints between adjacent insulation boards not more than 1/4 inch in width.
    e. At internal roof drains, slope insulation to create a square drain sump with each side equal to the diameter of the drain bowl plus 24 inches.

        1) Trim insulation so that water flow is unrestricted.

    f. Fill gaps exceeding 1/4 inch with insulation.

g. Cut and fit insulation within 1/4 inch of nailers, projections, and penetrations.
h. Loosely lay each layer of insulation units over substrate.
i. Adhere each layer of insulation to substrate using adhesive according to FM Global Property Loss Prevention Data Sheet 1-29, as follows:

1) Set each layer of insulation in a solid mopping of hot roofing asphalt, applied within plus or minus 25 deg F of equiviscous temperature.
2) Set each layer of insulation in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
3) Set each layer of insulation in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

3.6 INSTALLATION OF COVER BOARDS

A. Install cover boards over insulation with long joints in continuous straight lines with end joints staggered between rows. Offset joints of insulation below a minimum of 6 inches in each direction.

1. Trim cover board neatly to fit around penetrations and projections, and to fit tight to intersecting sloping roof decks.
2. At internal roof drains, conform to slope of drain sump.

a. Trim cover board so that water flow is unrestricted.

3. Cut and fit cover board tight to nailers, projections, and penetrations.
4. Loosely lay cover board over substrate.
5. Adhere cover board to substrate using adhesive according to FM Approvals' RoofNav listed roof assembly requirements for specified Windstorm Resistance Classification and FM Global Property Loss Prevention Data Sheet 1-29, as follows:

a. Set cover board in a solid mopping of hot roofing asphalt, applied within plus or minus 25 deg F of equiviscous temperature.
b. Set cover board in ribbons of bead-applied insulation adhesive, firmly pressing and maintaining insulation in place.
c. Set cover board in a uniform coverage of full-spread insulation adhesive, firmly pressing and maintaining insulation in place.

B. Install slip sheet over cover board and immediately beneath roofing.

3.7 INSTALLATION OF ADHERED ROOF MEMBRANE

A. Adhere roof membrane over area to receive roofing according to roofing system manufacturer's written instructions.

B. Unroll membrane roof membrane and allow to relax before installing.

C. Start installation of roofing in presence of roofing system manufacturer's technical personnel.

D. Accurately align roof membrane, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.

E. Bonding Adhesive: Apply to substrate and underside of roof membrane at rate required by manufacturer, and allow to partially dry before installing roof membrane. Do not apply to splice area of roof membrane.

F. In addition to adhering, mechanically fasten roof membrane securely at terminations, penetrations, and perimeters.

G. Apply roof membrane with side laps shingled with slope of roof deck where possible.

H. Adhesive Seam Installation: Clean both faces of splice areas, apply splicing cement.

1. Firmly roll side and end laps of overlapping roof membrane to ensure a watertight seam installation.
2. Apply lap sealant and seal exposed edges of roofing terminations.
3. Apply a continuous bead of in-seam sealant before closing splice if required by roofing system manufacturer.

I. Tape Seam Installation: Clean and prime both faces of splice areas, apply splice tape.

1. Firmly roll side and end laps of overlapping roof membrane to ensure a watertight seam installation.
2. Apply lap sealant and seal exposed edges of roofing terminations.

J. Repair tears, voids, and lapped seams in roof membrane that do not comply with requirements.

K. Spread sealant or mastic bed over deck-drain flange at roof drains, and securely seal roof membrane in place with clamping ring.

L. Adhere protection sheet over roof membrane at locations indicated.

3.8 INSTALLATION OF BASE FLASHING

A. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing system manufacturer's written instructions.

B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.

C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.

D. Clean splice areas, apply splicing cement, and firmly roll side and end laps of overlapping sheets to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of sheet flashing terminations.

E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.9 INSTALLATION OF COATINGS

A. Apply coatings to roof membrane and base flashings according to manufacturer's written recommendations, by spray, roller, or other suitable application method.

3.10 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to inspect substrate conditions, surface preparation, roof membrane application, sheet flashings, protection, and drainage components, and to furnish reports to Director’s Representative.

B. Perform the following tests:

1. Flood Testing: Flood test each roofing area for leaks, according to recommendations in ASTM D5957, after completing roofing and flashing. Install temporary containment assemblies, plug or dam drains, and flood with potable water.

    a. Perform tests before overlying construction is placed.
    b. Flood to an average depth of 2-1/2 inches with a minimum depth of 1 inch and not exceeding a depth of 4 inches. Maintain 2 inches of clearance from top of base flashing.
    c. Flood each area for 24 hours.
    d. After flood testing, repair leaks, repeat flood tests, and make further repairs until roofing and flashing installations are watertight.

        1) Cost of retesting is Contractor's responsibility.

    e. Testing agency shall prepare survey report indicating locations initial leaks, if any, and final survey report.

C. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion, in presence of Director’s Representative, and to prepare inspection report.

D. Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.

E. Additional testing and inspecting, at Contractor's expense, will be performed to determine if replaced or additional work complies with specified requirements.

3.11 PROTECTING AND CLEANING

A. Protect roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing system, inspect roofing system for deterioration and damage, describing its nature and extent in a written report, with copies to Director’s Representative and Director’s Representative.

B. Correct deficiencies in or remove roofing system that does not comply with requirements, repair substrates, and repair or reinstall roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 075323

SECTION 087100 - DOOR HARDWARE

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. Mechanical door hardware for the following:

a. Swinging doors.

B. References

1. NFPA 80 Fire Doors and Windows
2. NFPA 101 Life Safety Code.
3. Building Code of New York State.
4. ICC/ANSI A117.1-2003 Accessible and Usable Buildings and Facilities.
5. ANSI/BHMA Standard A156.1 Butts and Hinges.
6. ANSI/BHMA Standard A156.4 Door Controls – Closers.
7. ANSI/BHMA Standard A156.6 Architectural Door Trim.
8. ANSI/BHMA Standard A156.7 Template Hinge Dimensions.
9. ANSI/BHMA Standard A156.8 Door Controls – Overhead Stops and Holders.
10. ANSI/BHMA Standard A156.13 Mortise Locks and Latches Series 1000.
11. ANSI/BHMA Standard A156.16 Auxiliary Hardware.
12. ANSI/BHMA Standard A156.18 Materials and Finishes.
13. ANSI/BHMA Standard A156.22 Door Gasketing Systems.
14. ANSI/BHMA Standard A156.26 Continuous Hinges.
15. DHI - Door and Hardware Institute.
16. NAAM Standard HMMA 800-96- Hollow Metal Manufacturers Association.
17. NAAM Standard HMMA 831-97 Recommended Hardware Locations for Custom Hollow Metal Doors and Frames.
18. 2010 Standards for State and Local Government Facilities: Title II.

1.3 DEFINITIONS

A. Architectural Hardware Consultant (AHC): A Door and Hardware Institute certified expert in complex architectural openings requiring advanced knowledge of model building codes and safety standards, ADA requirements, access control knowledge and installation expertise.

B. Architectural Hardware Distributor: A company that regularly purchases architectural hardware from manufacturers and specializes in the sale, service and support of that hardware to contractors and/or end users.

C. Company Field Advisor(s): Hardware manufacturers' representatives who are certified in writing by manufacturer to be technically qualified in design, installation, and servicing of products.

D. Installation Supervisor: Designated supervisor/installer, who has a minimum three years experience in finish hardware installation, and is qualified and responsible to ensure approved finish hardware is installed, adjusted, and operates properly.

1.4 COORDINATION

A. Floor-Recessed Door Hardware: Coordinate layout and installation with floor construction.

1. Cast anchoring inserts into concrete.

B. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.

C. Security: Coordinate installation of door hardware, keying, and access control with Director's Representative's security consultant.

1.5 SUBMITTALS

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

B. Manufacturer's installation instructions shall be provided along with product data.

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

D. Product Data: For each type of product.

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

E. Door Hardware Schedule: Prepared by or under the supervision of Installer's Architectural Hardware Consultant. Coordinate door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.

1. Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate the fabrication of other work that is critical in Project construction schedule.
2. Format: Use same scheduling sequence and format and use same door numbers as in door hardware schedule in the Contract Documents.

3. Content: Include the following information:

   a. Identification number, location, hand, fire rating, size, and material of each door and frame.
   b. Locations of each door hardware set, cross-referenced to Drawings on floor plans and to door and frame schedule.
   c. Complete designations, including name and manufacturer, type, style, function, size, quantity, function, and finish of each door hardware product.
   d. Fastenings and other installation information.
   e. Explanation of abbreviations, symbols, and designations contained in door hardware schedule.
   f. Mounting locations for door hardware.
   g. List of related door devices specified in other Sections for each door and frame.

F. Keying Schedule: Prepared by or under the supervision of Installer's Architectural Hardware Consultant, detailing Director's Representative's final keying instructions for locks. Include schematic keying diagram and index each key set to unique door designations that are coordinated with the Contract Documents.

G. Qualification Data: For Installer and Architectural Hardware Consultant.

H. Product Test Reports: For compliance with accessibility requirements, for tests performed by manufacturer and witnessed by a qualified testing agency, for door hardware on doors located in accessible routes.

I. Field quality-control reports.

J. Sample Warranty: For special warranty.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of door hardware to include in maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

B. Special Tools: At the conclusion of finish hardware installation, turn over to Owner's Representative 2 sets of each special tools required for proper installation and adjustment of hardware, together with a list of these tools and their purpose.

C. Lubricants: Provide manufacturer's recommended lubricants for locksets and closers sufficient for 1 year of maintenance. Turn over to Director's Representative.

1.8 QUALITY ASSURANCE

A. Installer Qualifications: Supplier of products and an employer of workers trained and approved by product manufacturers and of an Architectural Hardware Consultant who is available during the course of the Work to consult Contractor and Director's Representative about door hardware and keying.

1. Warehousing Facilities: In Project's vicinity.
2. Scheduling Responsibility: Preparation of door hardware and keying schedule.
3. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.

B. Architectural Hardware Consultant Qualifications: A person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and who is currently certified by DHI as an Architectural Hardware Consultant (AHC).

1.9 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up for door hardware delivered to Project site.

B. Tag each item or package separately with identification coordinated with the final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.

C. Deliver keys to manufacturer of key control system for subsequent delivery to Director's Representative.

D. Deliver keys and permanent cores to Director's Representative by registered mail or overnight package service.

1.10 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.

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

a. Structural failures including excessive deflection, cracking, or breakage.
b. Faulty operation of doors and door hardware.
c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use.

2. Warranty Period: Three years from date of Substantial Completion unless otherwise indicated below:

a. Locks: Five years from date of Substantial Completion.

b. Exit Devices: Two years from date of Substantial Completion.
c. Manual Closers: 10 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain each type of door hardware from single manufacturer.

1. Provide electrified door hardware from same manufacturer as mechanical door hardware unless otherwise indicated. Manufacturers that perform electrical modifications and that are listed by a testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.

2.2 PERFORMANCE REQUIREMENTS

A. Accessibility Requirements: For door hardware on doors in an accessible route, comply with the USDOJ's "2010 ADA Standards for Accessible Design".

1. Provide operating devices that do not require tight grasping, pinching, or twisting of the wrist and that operate with a force of not more than 5 lbf.
2. Comply with the following maximum opening-force requirements:

a. Interior, Non-Fire-Rated Hinged Doors: 5 lbf applied perpendicular to door.

3. Bevel raised thresholds with a slope of not more than 1:2. Provide thresholds not more than 1/2 inch high.
4. Adjust door closer sweep periods so that, from an open position of 90 degrees, the door will take at least 5 seconds to move to a position of 12 degrees from the latch.
5. Adjust spring hinges so that, from an open position of 70 degrees, the door will take at least 1.5 seconds to move to the closed position.

2.3 CONTINUOUS HINGES

A. Continuous Hinges: BHMA A156.26; minimum 0.120-inch thick, hinge leaves with minimum overall width of 4 inches; fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete.

2.4 MECHANICAL LOCKS AND LATCHES

A. Lock Functions: As indicated in door hardware schedule.

B. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
1. Mortise Locks: Minimum 3/4-inch latchbolt throw.
2. Deadbolts: Minimum 1-inch bolt throw.

C. Lock Backset: 2-3/4 inches unless otherwise indicated.

D. Lock Trim:

1. Description: As indicated on Drawings.
2. Levers: Wrought.
3. Escutcheons (Roses): Wrought.
4. Dummy Trim: Match lever lock trim and escutcheons.

E. Strikes: Provide manufacturer's standard strike for each lock bolt or latchbolt complying with requirements indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; finished to match lock or latch.

1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.

F. Mortise Locks: BHMA A156.13; Operational Grade 1; stamped steel case with steel or brass parts; Series 1000.

2.5 LOCK CYLINDERS

A. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver. Provide cylinder from same manufacturer of locking devices.

B. Standard Lock Cylinders: BHMA A156.5; Grade 1 permanent cores; face finished to match lockset.

1. Core Type: Interchangeable.

C. Construction Master Keys: Provide cylinders with feature that permits voiding of construction keys without cylinder removal. Provide 10 construction master keys.

D. Construction Cores: Provide construction cores that are replaceable by permanent cores. Provide 10 construction master keys.

2.6 KEYING

A. Keying System: Factory registered, complying with guidelines in BHMA A156.28, appendix. Provide one extra key blank for each lock.

1. Existing System:

a. Master key or grand master key locks to existing system.
b. Re-key existing master key system into new keying system.

B. Keys: Nickel silver.

1. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:

a. Notation: Information to be furnished by Director’s Representative.

2.7 OPERATING TRIM

A. Operating Trim: BHMA A156.6; stainless steel unless otherwise indicated.

2.8 SURFACE CLOSERS

A. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written instructions for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.

2.9 CLOSER HOLDER RELEASE DEVICES

A. Closer Holder Release Devices: BHMA A156.15; Grade 1; closer connected with separate or integral releasing and fire- or smoke-detecting devices. Door shall become self-closing on interruption of signal to release device.

2.10 DOOR GASKETING

A. Door Gasketing: BHMA A156.22; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.

B. Maximum Air Leakage: When tested according to ASTM E283 with tested pressure differential of 0.3-inch wg, as follows:
1. Gasketing on Single Doors: 0.3 cfm/sq. ft. of door opening.

2.11 THRESHOLDS

A. Thresholds: BHMA A156.21; fabricated to full width of opening indicated.

2.12 METAL PROTECTIVE TRIM UNITS

A. Metal Protective Trim Units: BHMA A156.6; fabricated from 0.050-inch thick stainless steel; with manufacturer's standard machine or self-tapping screw fasteners.

2.13 FABRICATION

A. Manufacturer's Nameplate: Do not provide products that have manufacturer's name or trade name displayed in a visible location except in conjunction with required fire-rating labels and as otherwise approved by Director’s Representative.

1. Manufacturer's identification is permitted on rim of lock cylinders only.

B. Base Metals: Produce door hardware units of base metal indicated, fabricated by forming method indicated, using manufacturer's standard metal alloy, composition, temper, and hardness. Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18.

C. Fasteners: Provide door hardware manufactured to comply with published templates prepared for machine, wood, and sheet metal screws. Provide screws that comply with commercially recognized industry standards for application intended, except aluminum fasteners are not permitted. Provide Phillips flat-head screws with finished heads to match surface of door hardware unless otherwise indicated.

1. Concealed Fasteners: For door hardware units that are exposed when door is closed, except for units already specified with concealed fasteners. Do not use through bolts for installation where bolt head or nut on opposite face is exposed unless it is the only means of securely attaching the door hardware. Where through bolts are used on hollow door and frame construction, provide sleeves for each through bolt.

2. Spacers or Sex Bolts: For through bolting of hollow-metal doors.
3. Gasketing Fasteners: Provide noncorrosive fasteners for exterior applications and elsewhere as indicated.

2.14 FINISHES

A. Provide finishes complying with BHMA A156.18 as indicated in door hardware schedule.

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

C. 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 not acceptable. 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.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance of the Work.

B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

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

3.2 PREPARATION

A. Steel Doors and Frames: For surface-applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.

3.3 INSTALLATION

A. Mounting Heights: Mount door hardware units at heights to comply with the following unless otherwise indicated or required to comply with governing regulations.

1. Standard Steel Doors and Frames: ANSI/SDI A250.8.

B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work. Do not install surface-mounted items until finishes have been completed on substrates involved.

1. Set units level, plumb, and true to line and location. Adjust and reinforce attachment substrates as necessary for proper installation and operation.
2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.

C. Hinges: Install types and in quantities indicated in door hardware schedule, but not fewer than the number recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.

D. Lock Cylinders: Install construction cores to secure building and areas during construction period.

1. Replace construction cores with permanent cores as directed by Director’s Representative.
2. Furnish permanent cores to Director’s Representative for installation.

E. Thresholds: Set thresholds for exterior doors and other doors indicated in full bed of sealant complying with requirements specified in Section 079200 "Joint Sealants."

F. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.

1. Do not notch perimeter gasketing to install other surface-applied hardware.

G. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.

H. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

3.4 FIELD QUALITY CONTROL

A. Independent Architectural Hardware Consultant: Engage a qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.

1. Independent Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

3.5 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

B. Occupancy Adjustment: Approximately three months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors, door hardware, and electrified door hardware.

3.6 CLEANING AND PROTECTION

A. Clean adjacent surfaces soiled by door hardware installation.

B. Clean operating items as necessary to restore proper function and finish.

C. Provide final protection and maintain conditions that ensure that door hardware is without damage or deterioration at time of Substantial Completion.

3.7 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions for Director’s Representative’s continued adjustment, maintenance, and removal and replacement of door hardware.

B. Maintenance Service: Beginning at Substantial Completion, maintenance service shall include six months' full maintenance by skilled employees of door hardware Installer. Include quarterly preventive maintenance, repair, or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door and door hardware operation. Parts and supplies shall be manufacturer's authorized replacement parts and supplies.

3.8 DEMONSTRATION

A. Train Maintenance personnel to adjust, operate, and maintain door hardware.

3.9 DOOR HARDWARE SCHEDULE

A. Hardware Set 1 (Doors 100, 101, 108 and 109): Each door to have the following or approved equal:

1. Continuous Hinge: 1ea Markar FM300
2. Mortise Lockset: 1 ea. Best 45H R M 15 VT 630
3. Cylinder compatible with the provided lockset and the facility's keying system.
4. Closer: 1 ea. LCN 4211 x 3077EDA x SRI
5. Threshold: 1 ea. Zero 655A
6. Weather Seal: 1 set ea. DHSI 105 Cush 'N' Seal
7. Automatic Door Holder & Stop: 1 ea. Rockwood 491S

B. Hardware Set 2 (Doors 102 and 107): Each door to have the following or approved equal:

1. Continuous Hinge: 1ea Markar FM300
2. Mortise Lockset: 1 ea. Best 45H R M 15 VT 630
3. Cylinder compatible with the provided lockset and the facility's keying system.
4. Closer: 1 ea. LCN 4511T x 3077T x SRI
5. Threshold: 1 ea. Zero 655A
6. Weather Seal: 1 set ea. DHSI 105 Cush 'N' Seal
7. Automatic Door Holder & Stop: 1 ea. Rockwood 491S

C. Hardware Set 3 (Doors 104 and 105): Each door to have the following or approved equal:

1. Continuous Hinge: 1ea Markar FM300
2. Mortise Lockset: 1 ea. Best 45H D M 15 VT 630
3. Cylinder compatible with the provided lockset and the facility's keying system.
4. Closer: 1 ea. LCN 4511 x 3077EDA x SRI
5. Threshold: 1 ea. Zero 655A
6. Weather Seal: 1 set ea. DHSI 105 Cush 'N' Seal

D. Hardware Set 4 (Doors 103 and 106): Each door to have the following or approved equal:

1. Continuous Hinge: 1ea Markar FM300
2. Mortise Deadlock: Best 48HS1 7 R x 630
3. Cylinder compatible with the provided lockset and the facility's keying system.
4. Flush Pull: Rockwood 94C
5. Automatic Door Holder & Stop: 1 ea. Rockwood 491S

E. Hardware Set 5: Furnish a quantity of one (1) as follows:

1. 7 Key Blanks to match existing key system.
2. 1 set Special Tools: See paragraph 1.7 A.
3. Lubricants: See paragraph 1.7 B.
4. 2ea Maintenance and Operations Manuals.

END OF SECTION 087100

SECTION 099114 - EXTERIOR PAINTING (MPI STANDARDS)

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Surface preparation and application of paint systems on the following exterior substrates:

   a. Wood.
   b. Steel and iron.
   c. Galvanized metal.

B. Work under this Contract shall also include, but not necessarily be limited to:

1. Labor, materials, tools and other equipment, services and supervision required to complete all exterior painting and decorating work as indicated on Finish Schedules and to the full extent of the drawings and specifications.
2. Moisture testing of substrates.
3. Surface preparation of substrates as required for acceptance of paint, including cleaning, small crack repair, patching, caulking, and making good surfaces and areas to the limits defined under MPI Architectural Painting Manual Preparation requirements.
4. Specific pre-treatments noted herein or specified in the MPI Architectural Painting Manual.
5. Sealing / priming surfaces for painting in accordance with MPI Architectural Painting Manual requirements.
6. Provision of safe and adequate ventilation as required over and above temporary ventilation supplied by others, where toxic and/or volatile / flammable materials are being used.

C. Refer to drawings and schedules (e.g., Finish Schedule) for type, location and extent of exterior painting required.

1.2 REFERENCES

A. Master Painters Institute Inc., MPI Architectural Painting Manual. www.specifypaint.us..

1.3 DEFINITIONS

A. MPI Gloss Level 1 (Matte or Flat): Not more than five units at 60 degrees and 10 units at 85 degrees, according to ASTM D523.

B. MPI Gloss Level 3 (Eggshell): 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D523.

C. MPI Gloss Level 4 (Satin): 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D523.

D. MPI Gloss Level 5 (Semi-Gloss): 35 to 70 units at 60 degrees, according to ASTM D523.

E. MPI Gloss Level 6 (Gloss): 70 to 85 units at 60 degrees, according to ASTM D523.

F. MPI Gloss Level 7 (High Gloss): More than 85 units at 60 degrees, according to ASTM D523.

1.4 SUBMITTALS

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

B. Manufacturer's installation instructions shall be provided along with product data.

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

D. Product Data: For each type of product.

1. Include preparation requirements and application instructions.
2. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
3. Indicate VOC content.
4. Manufacturer's standard colors in the form of actual fan decks.

E. Contractor's Qualifications: Submit documentation demonstrating compliance with requirements in Quality Assurance Article.

F. Certification of Volatile Organic Compounds: Submit certified list demonstrating compliance requirements in Quality Assurance Article.

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Paint: 5 percent, but not less than 1 gal. of each material and color applied.

1.6 QUALITY ASSURANCE

A. Volatile Organic Compounds (VOCs) Regulatory Requirements: Chapter III of Title 6 of the official compilation of Codes, Rules and Regulations of the State of New York (Title 6 NYCRR), Part 205 Architectural Surface Coatings.

1. Certificate of Compliance: List of each paint product to be delivered and installed. List shall include written certification stating that each paint product listed complies with the VOC regulatory requirements in effect at the time of job site delivery and installation.

B. Contractor shall have a minimum of five (5) years proven satisfactory experience and shall show proof before commencement of work that he will maintain a qualified crew of painters throughout the duration of the work. When requested by the Director's Representative, Contractor shall provide a list of the last three comparable repainting jobs including, name, location, specifying authority / project manager, start / completion dates and value of the work.

C. All materials, preparation and workmanship shall conform to the standards contained in the latest edition of the Master Painters Institute (MPI) Architectural Painting Manual (herein referred to as the MPI Manual).

D. The painting contractor shall receive written confirmation of the specific surface preparation procedures and primers used for all fabricated steel items from the fabricator / supplier to ascertain appropriate and manufacturer compatible finish coat materials to be used before painting such work.

E. Compatibility of Paint Materials: Primers and intermediate paints shall be products manufactured or recommended by the finish paint manufacturer.

1.7 REGULATORY REQUIREMENTS

A. Conform to work place safety regulations for storage, mixing, application and disposal of all paint related materials to requirements of those authorities having jurisdiction.

B. To reduce the amount of contaminants entering waterways, sanitary / storm drain systems or into the ground the following procedures shall be strictly adhered to:

1. Retain cleaning water for water based materials to allow sediments to be filtered out. In no case shall equipment be cleaned using free draining water.
2. Retain cleaners, thinners, solvents and excess paint and place in designated containers and ensure proper disposal.
3. Return solvent and oil-soaked rags used during painting operations for contaminant recovery, proper disposal, or appropriate cleaning and laundering.
4. Dispose of contaminants in an approved legal manner in accordance with hazardous waste regulations.
5. Empty paint cans are to be dry prior to disposal or recycling (where available).
6. Close and seal tightly partly used cans of materials including sealant and adhesive containers and store protected in well ventilated fire safe area at moderate temperature.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver painting materials in sealed, original labeled containers bearing manufacturer's name, brand name, type of paint or coating and color designation, standard compliance, materials content as well as mixing and/or reducing and application requirements.

B. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

C. Where toxic and/or volatile / explosive / flammable materials are being used, provide adequate fireproof storage lockers and take necessary precautions and post adequate warnings (e.g. no smoking) as required.

D. Take necessary precautionary and safety measures to prevent fire hazards and spontaneous combustion and to protect the environment from hazard spills. Materials that constitute a fire hazard (paints, solvents, drop clothes, etc.) to be stored in suitable closed and rated containers or removed from the site on a daily basis.

E. Comply with requirements of authorities having jurisdiction, in regard to the use, handling, storage and disposal of hazardous materials.

1.9 FIELD CONDITIONS

A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.

B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

C. Perform no painting work unless a minimum lighting level of 323 Lux (30-foot candles) is provided on surfaces to be repainted.

D. Apply paint only to dry, clean, and adequately prepared surfaces in areas where dust is no longer generated by construction activities such that airborne particles will not affect the quality of finished surfaces.

1.10 MAINTENANCE MATERIALS

A. Except as noted below, provide a minimum of 1 gallon of each type and color of paint from same production run (batch mix) used in unopened cans, properly labeled and identified. Store where directed.

1. Paint Type EAL-1: Four gallons, each type.
2. Paint Type AU: Four gallons, each type.

PART 2 - PRODUCTS

2.1 PAINT MATERIALS, GENERAL

A. MPI Standards: Provide products complying with MPI standards indicated and listed in its "MPI Approved Products List."

B. Material Compatibility:

1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, provide products recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.

C. Colors: As indicated on drawings.

1. 10 percent of surface area will be painted with deep tones.

2.2 PAINT MATERIAL MANUFACTURERS

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

1. Benjamin Moore & Co.
2. Carboline.
3. Cloverdale Paint.
4. PPG Architectural.
5. Sherwin-Williams.
6. Or equal.

B. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in the Exterior Painting Schedule for the paint category indicated.

C. Source Limitations: Obtain paint from single source from single manufacturer.

2.3 PAINT MATERIALS

A. Wood Primers:

1. Type EWP: Primer, Latex for Exterior Wood MPI #6. Provide one of the following:

a. Benjamin Moore & Co.: Multi-Purpose Primer.
b. PPG Architectural: Seal Grip Interior/Exterior Acrylic Universal Primer/Sealer.
c. Sherwin-Williams: Multi-Purpose Latex Primer/Sealer.
d. Or equal.

B. Water-Based Paints:

1. Type EAL-1; Latex, Exterior Flat (Gloss Level 1) MPI #10. Provide one of the following:

a. Benjamin Moore & Co.: Ultra Spec Exterior Flat Finish.
b. PPG Architectural: Speed Cryl Exterior 100% Acrylic Flat.
c. Sherwin-Williams: SuperPaint Exterior Latex Flat.
d. Or equal.

C. Metal Primers:

1. Type ESP-EP2: Primer, Epoxy, Anti-Corrosive, for Metal MPI #101. Provide one of the following:

a. Benjamin Moore & Co.: Corotech Surface Tolerant Epoxy Mastic Coating.
b. PPG Architectural: Protective and Marine Coatings Amercoat 235.
c. Sherwin-Williams: Protective & Marine
d. Or equal.

D. Polyurethane Coatings (For Metals):

1. Paint Type AU: Polyurethane, Two-Component, Pigmented, Gloss (Gloss Level 6) MPI #72. Provide one of the following:

a. Benjamin Moore & Co.: Corotech Aliphatic Acrylic Urethane Gloss.
b. PPG Architectural: Protective & Marine Coatings Pitthane Ultra Gloss 95-812 Series.
c. Sherwin-Williams: Protective & Marine Acrolon 218 HS.
d. Or equal.

2.4 SOURCE QUALITY CONTROL

A. Testing of Paint Materials: The Director's Representative reserves the right to invoke the following procedure:

1. The Director's Representative will engage the services of a qualified testing agency to sample paint materials. Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
2. Testing agency will perform tests for compliance with product requirements.
3. The Director's Representative may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

PART 3 - EXECUTION

3.1 PROTECTION

A. Comply with each manufacturer's written instructions for protecting building and other surfaces against damage from exposure to its products. Prevent chemical solutions from coming into contact with people, motor vehicles, landscaping, buildings, and other surfaces that could be harmed by such contact.

1. Cover adjacent surfaces with materials that are proven to resist coatings being used. Use protective materials that are UV resistant and waterproof. Apply masking agents to comply with manufacturer's written instructions. Do not apply liquid masking agent to painted or porous surfaces. When no longer needed, promptly remove masking to prevent adhesive staining.

3.2 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:

1. Wood: 15 percent.

C. Verify suitability of substrates, including surface conditions and compatibility, with existing finishes and primers.

D. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Application of coating indicates acceptance of surfaces and conditions.

3.3 PREPARATION

A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates and paint systems indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.

1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.

C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.

1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

D. Wood Substrates:

1. Scrape and clean knots. Before applying primer, apply coat of knot sealer recommended in writing by topcoat manufacturer for exterior use in paint system indicated.
2. Sand surfaces that will be exposed to view, and remove sanding dust.
3. Prime edges, ends, faces, undersides, and backsides of wood.
4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.

E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and areas where shop paint is abraded. Paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.

F. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.

3.4 INSTALLATION

A. Apply paints in accordance with manufacturer's written instructions and recommendations in "MPI Manual."

1. Use applicators and techniques suited for paint and substrate indicated.
2. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
3. Primers specified in the Exterior Painting Schedule may be omitted on items that are factory primed or factory finished if compatible with intermediate and topcoat coatings and acceptable to intermediate and topcoat paint manufacturers.

B. Tint undercoats same color as topcoat, but tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Provide sufficient difference in shade of undercoats to distinguish each separate coat.

C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.

D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

3.5 FIELD QUALITY CONTROL

A. Dry Film Thickness Testing: The Director’s Representative may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.

1. Contractor shall touch up and restore painted surfaces damaged by testing.
2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written instructions, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written instructions.

3.6 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

1. Do not clean equipment with free-draining water and prevent solvents, thinners, cleaners, and other contaminants from entering into waterways, sanitary and storm drain systems, and ground.
2. Dispose of contaminants in accordance with requirements of authorities having jurisdiction.
3. Allow empty paint cans to dry before disposal.
4. Collect waste paint by type and deliver to recycling or collection facility.

B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Director's Representative, and leave in an undamaged condition.

D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.7 EXTERIOR PAINTING SCHEDULE

A. Wood Substrates: Architectural woodwork.

1. Latex over Latex Primer System MPI EXT 6.3L:

a. Prime Coat: Primer, latex for exterior wood, MPI #6. Type EWP.
b. Intermediate Coat: Latex, exterior, matching topcoat.
c. Flat Topcoat: Latex, exterior, flat (MPI Gloss Level 1), MPI #10. Type EAL-1.

B. Metal Substrates: Exposed steel lintels and trusses.

1. Polyurethane, Pigmented over Epoxy System MPI EXT 5.1.H:

a. Primer, Epoxy, Anti-Corrosive, for Metal MPI #101. Type ESP-EP2.
b. Intermediate Coat: Polyurethane, Two-Component, matching topcoat.
c. Topcoat: Polyurethane, Two-Component, Pigmented, Gloss (Gloss Level 6) MPI #72. Type AU.

END OF SECTION 099114

SECTION 099300 - STAINING AND TRANSPARENT FINISHING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes surface preparation and application of wood stains and transparent finishes.

1. Exterior Substrates:

a. Dressed lumber (finish carpentry or woodwork).

B. Work under this Contract shall also include, but not necessarily be limited to:

1. Labor, materials, tools and other equipment, services and supervision required to complete all interior painting and decorating work as indicated on Finish Schedules and to the full extent of the drawings and specifications.
2. Moisture testing of substrates.
3. Surface preparation of substrates as required for acceptance of finishes, including cleaning, small crack repair, patching, caulking, and making good surfaces and areas to the limits defined under MPI Architectural Painting Manual preparation requirements.
4. Specific pre-treatments noted herein or specified in the MPI Architectural Painting Manual.
5. Sealing / priming surfaces for finishes in accordance with MPI Architectural Painting Manual requirements.
6. Provision of safe and adequate ventilation as required over and above temporary ventilation supplied by others, where toxic and/or volatile / flammable materials are being used.

1.2 REFERENCES

A. Master Painters Institute Inc., MPI Architectural Painting Manual. www.specifypaint.us.

1.3 DEFINITIONS

A. MPI Gloss Level 1 (Matte or Flat): Not more than 5 units at 60 degrees and 10 units at 85 degrees, according to ASTM D523.

B. MPI Gloss Level 4 (Satin): 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D523.

C. MPI Gloss Level 5 (Semi-Gloss): 35 to 70 units at 60 degrees, according to ASTM D523.

D. MPI Gloss Level 6 (Gloss): 70 to 85 units at 60 degrees, according to ASTM D523.

E. MPI Gloss Level 7 (High Gloss): More than 85 units at 60 degrees, according to ASTM D523.

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. Painting Schedule: Cross-referenced Painting Schedule listing all exterior and interior substrates to be painted and specified finish paint type designation; product name and manufacturer, recommended primers and product numbers, and finish paint color designation for each substrate to be painted.

1. Designate exterior substrates by building name and number, substrate to be painted and surface location.
2. Designate interior substrates by building name and number, floor, room name and number, and surface to be painted.

E. Product Data: For each type of product. Include preparation requirements and application instructions.

1. Include printout of current "MPI Approved Products List" for each product category specified, with the proposed product highlighted.
2. Indicate VOC content.

F. Samples for Verification: For each type of finish system and in each color and gloss of finish required.

1. Submit Samples on representative samples of actual wood substrates, 8 inches square or 8 inches long.
2. Apply coats on Samples in steps to show each coat required for system.
3. Label each coat of each Sample.
4. Label each Sample for location and application area.

G. Product List: Cross-reference to finish system and locations of application areas. Use same designations indicated on Drawings and in schedules. Include color designations.

H. Contractor's Qualifications: Submit documentation demonstrating compliance with requirements in Quality Assurance Article.

I. Certification of Volatile Organic Compounds: Submit certified list demonstrating compliance requirements in Quality Assurance Article.

1.5 QUALITY ASSURANCE

A. Volatile Organic Compounds (VOCs) Regulatory Requirements: Chapter III of Title 6 of the official compilation of Codes, Rules and Regulations of the State of New York (Title 6 NYCRR), Part 205 Architectural Surface Coatings.

1. Certificate of Compliance: List of each paint product to be delivered and installed. List shall include written certification stating that each paint product listed complies with the VOC regulatory requirements in effect at the time of job site delivery and installation.

B. Contractor shall have a minimum of five (5) years proven satisfactory experience and shall show proof before commencement of work that he will maintain a qualified crew of painters throughout the duration of the work. When requested by the Director's Representative, Contractor shall provide a list of the last three comparable repainting jobs including, name, location, specifying authority / project manager, start / completion dates and value of the work.

C. All materials, preparation and workmanship shall conform to the standards contained in the latest edition of the Master Painters Institute (MPI) Architectural Painting Manual (herein referred to as the MPI Manual).

D. The painting contractor shall receive written confirmation of the specific surface preparation procedures and primers used for all fabricated steel items from the fabricator / supplier to ascertain appropriate and manufacturer compatible finish coat materials to be used before painting such work.

1.6 REGULATORY REQUIREMENTS

A. Conform to work place safety regulations for storage, mixing, application and disposal of all paint related materials to requirements of those authorities having jurisdiction.

B. To reduce the amount of contaminants entering waterways, sanitary / storm drain systems or into the ground the following procedures shall be strictly adhered to:

1. Retain cleaning water for water based materials to allow sediments to be filtered out. In no case shall equipment be cleaned using free draining water.
2. Retain cleaners, thinners, solvents and excess paint and place in designated containers and ensure proper disposal.
3. Return solvent and oil-soaked rags used during painting operations for contaminant recovery, proper disposal, or appropriate cleaning and laundering.
4. Dispose of contaminants in an approved legal manner in accordance with hazardous waste regulations.
5. Empty paint cans are to be dry prior to disposal or recycling (where available).
6. Close and seal tightly partly used cans of materials including sealant and adhesive containers and store protected in well ventilated fire safe area at moderate temperature.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver painting materials in sealed, original labeled containers bearing manufacturer's name, brand name, type of paint or coating and color designation, standard compliance, materials content as well as mixing and/or reducing and application requirements.

B. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.

1. Maintain containers in clean condition, free of foreign materials and residue.

2. Remove rags and waste from storage areas daily.

C. Where toxic and/or volatile / explosive / flammable materials are being used, provide adequate fireproof storage lockers and take necessary precautions and post adequate warnings (e.g. no smoking) as required.

D. Take necessary precautionary and safety measures to prevent fire hazards and spontaneous combustion and to protect the environment from hazard spills. Materials that constitute a fire hazard (paints, solvents, drop clothes, etc.) to be stored in suitable closed and rated containers or removed from the site on a daily basis.

E. Comply with requirements of authorities having jurisdiction, in regard to the use, handling, storage and disposal of hazardous materials.

1.8 FIELD CONDITIONS

A. Apply finishes only when temperature of surfaces to be finished and ambient air temperatures are between 50 and 95 deg F.

B. Do not apply finishes when relative humidity exceeds 85 percent, at temperatures less than 5 deg F above the dew point, or to damp or wet surfaces.

C. Do not apply exterior finishes in snow, rain, fog, or mist.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products List."

B. Material Compatibility:

1. Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, products shall be recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.

C. Stain Colors: As indicated on contract drawings.

2.2 MANUFACTURERS

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

1. Behr Paint
2. Benjamin Moore & Co.

3. Pratt & Lambert.
4. PPG Architectural.
5. Sherwin-Williams.
6. Or equal.

2.3 PAINT MATERIALS

A. Solvent-Based Varnishes:

1. Type EV: Varnish, with UV Inhibitor, Exterior, Semigloss (Gloss Level 5) MPI #30. Provide one of the following:

   a. Behr Paint: Oil-Based Spar Urethane Semi-Gloss.
   b. Sherwin-Williams: Minwax Helmsman Spar Urethane Semi-Gloss.
   c. Or equal.

B. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in wood finish systems schedules for the product category indicated.

2.4 SOURCE QUALITY CONTROL

A. Testing of Materials: The Director's Representative reserves the right to invoke the following procedure:

1. The Director's Representative will engage the services of a qualified testing agency to sample wood finishing materials. Contractor will be notified in advance and may be present when samples are taken. If materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
2. Testing agency will perform tests for compliance with product requirements.
3. The Director's Representative may direct Contractor to stop applying wood finishes if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying materials from Project site, pay for testing, and refinish surfaces finished with rejected materials. Contractor will be required to remove rejected materials from previously finished surfaces before refinishing with complying materials if the two finishes are incompatible or produce results that, in the opinion of the Director's Representative, are aesthetically unacceptable.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Maximum Moisture Content of Exterior Wood Substrates: 15 percent, when measured with an electronic moisture meter.

C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.

D. Proceed with finish application only after unsatisfactory conditions have been corrected.

1. Beginning finish application constitutes Contractor's acceptance of substrates and conditions.

3.2 PREPARATION

A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.

B. Remove hardware, covers, plates, and similar items already in place that are removable. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and finishing.

1. After completing finishing operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.

C. Clean and prepare surfaces to be finished according to manufacturer's written instructions for each substrate condition and as specified.

1. Remove dust, dirt, oil, and grease by washing with a detergent solution; rinse thoroughly with clean water and allow to dry. Remove grade stamps and pencil marks by sanding lightly. Remove loose wood fibers by brushing.
2. Remove mildew by scrubbing with a commercial wash formulated for mildew removal and as recommended by stain manufacturer.

D. Exterior Wood Substrates:

1. Scrape and clean knots, and apply coat of knot sealer before applying primer.
2. Prime edges, ends, faces, undersides, and backsides of wood.

a. For solid hide stained wood, stain edges and ends after priming.
b. For varnish-coated stained wood, stain edges and ends and prime with varnish. Prime undersides and backsides with varnish.

3. Countersink steel nails, if used, and fill with putty or plastic wood filler tinted to final color. Sand smooth when dried.

3.3 APPLICATION

A. Apply finishes according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."

1. Use applicators and techniques suited for finish and substrate indicated.
2. Finish surfaces behind movable equipment and furniture same as similar exposed surfaces.
3. Do not apply finishes over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.

B. Apply finishes to produce surface films without cloudiness, holidays, lap marks, brush marks, runs, ropiness, or other surface imperfections.

3.4 CLEANING AND PROTECTION

A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.

B. After completing finish application, clean spattered surfaces. Remove spattered materials by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.

C. Protect work of other trades against damage from finish application. Correct damage by cleaning, repairing, replacing, and refinishing, as approved by Director's Representative, and leave in an undamaged condition.

D. At completion of construction activities of other trades, touch up and restore damaged or defaced finished wood surfaces.

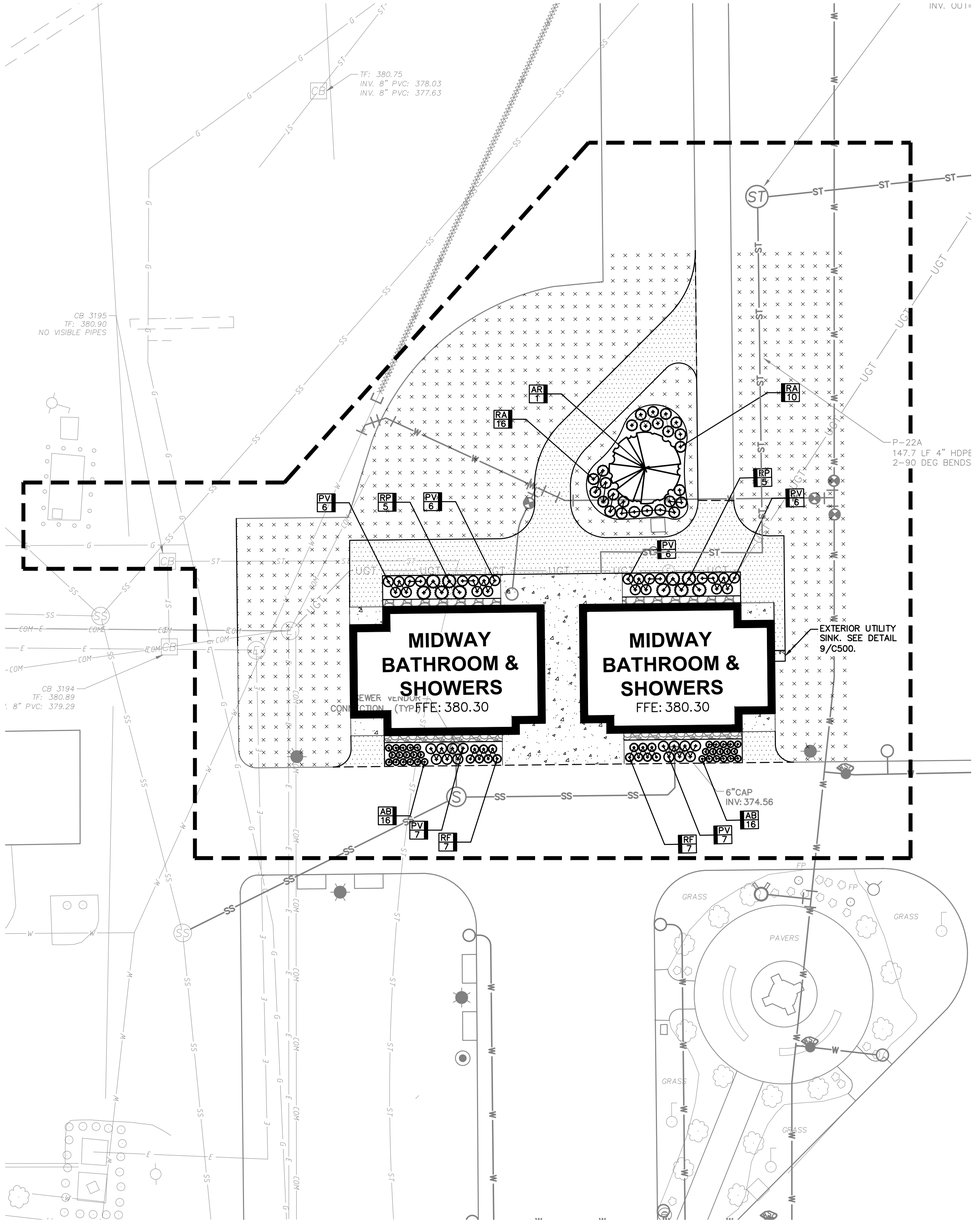
3.5 EXTERIOR WOOD-FINISH-SYSTEM SCHEDULE

A. Wood Substrates: architectural woodwork.

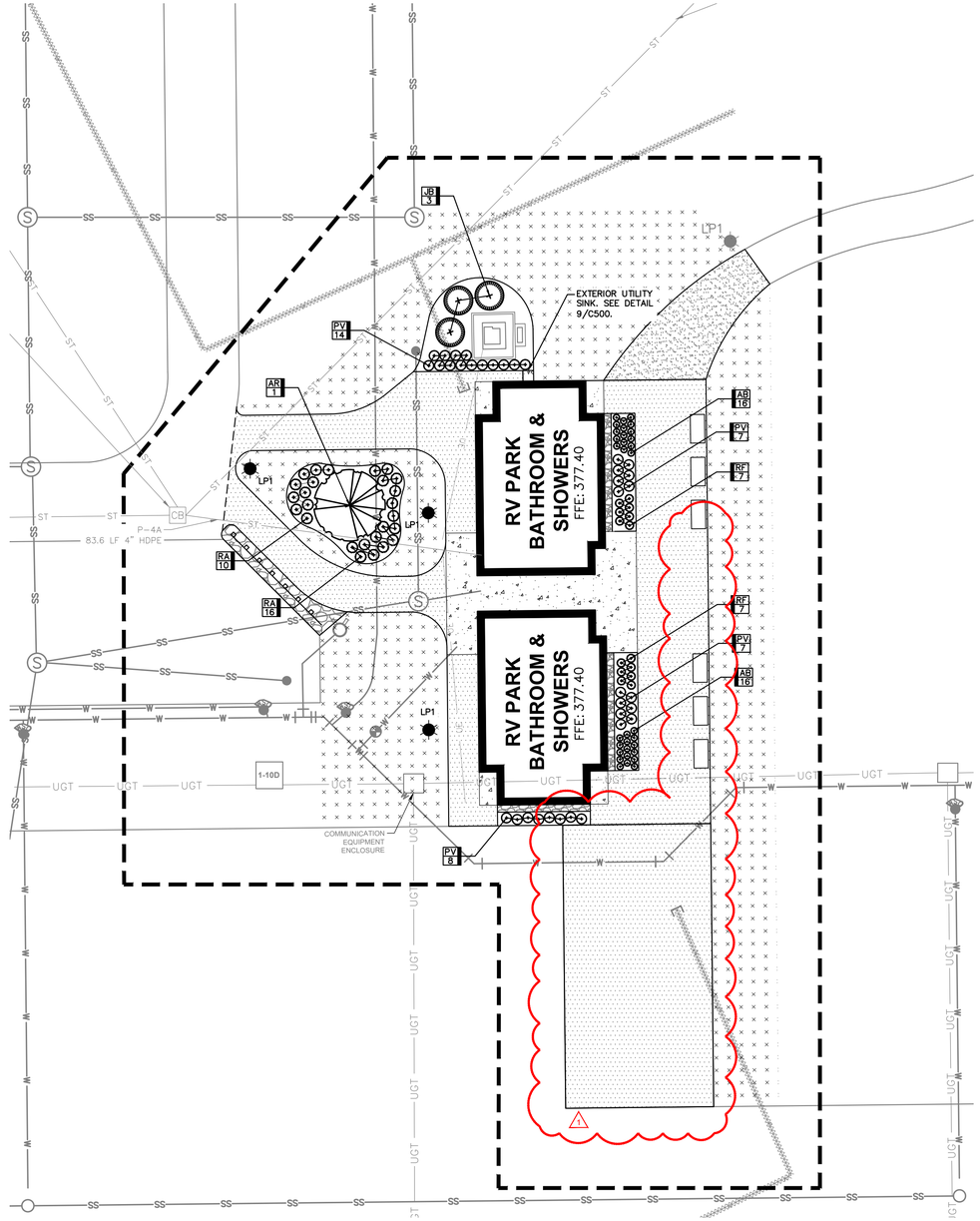
1. Varnish System MPI EXT 6.3F:

a. Prime Coat: Varnish matching topcoat.
b. First Intermediate Coat: Varnish matching topcoat.
c. Second Intermediate Coat: Varnish matching topcoat.
d. Topcoat: Varnish, with UV inhibitor, exterior, semi-gloss (MPI Gloss Level 5), MPI #30. Type EV.

END OF SECTION 099300



1 **MIDWAY BATHROOM**
SCALE: 1" = 20'



2 **RV PARK BATHROOM**
SCALE: 1" = 20'

PLANTING SCHEDULE					
ABRV	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	REMARKS
TREES					
AR	ACER RUBRUM 'REDPOINTE'	RED MAPLE	2.5"–3" CAL B&B	AS SHOWN	SEE DETAIL 5/C501
JB	JUNIPERUS 'BIRKII'	BURK EASTERN	5'–6' HT.	AS SHOWN	SEE DETAIL 5/C501
SHRUBS					
RA	RHUS AROMATICA 'GROLOW'	GROLOW FRAGRANT SUMAC	3 GAL CONT.	AS SHOWN	SEE DETAIL 6/C501
RP	ROSA 'RADTKOPINK'	DOUBLE PINK KNOCKOUT ROSE	3 GAL CONT.	AS SHOWN	SEE DETAIL 6/C501
PERENNIALS					
AB	AGASTACHE 'BLUE FORTUNE'	GIANT HYSSOP	1 GAL CONT.	AS SHOWN	
PV	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	2 GAL CONT.	AS SHOWN	
RF	RUDBECKIA FULGIDA 'GOLDSTURM'	GOLDSTURM BLACK–EYED SUSAN	1 GAL CONT.	AS SHOWN	

NOTES:

1. PROVIDE 6" TOPSOIL (IMPORTED) AND SOD AT ALL AREAS DISTURBED AS PART OF THIS WORK THAT ARE NOT TO BE AN IMPERMEABLE SURFACE OR PLANTING AREA UNDER THE FINISHED CONDITIONS.
2. PROVIDE 3" OF MULCH AT ALL PLANTING AREAS.

LEGEND:

- ASPHALT PAVEMENT SEE DETAIL 1/C500
- SOD LAWN AREA
- CONCRETE SEE STRUCTURAL DRAWINGS
- STONE DUST PATH SEE DETAIL 3/C500
- RIVER STONE SEE DETAIL 4/C500
- WOODEN GUIDE RAIL SEE DETAIL 6/C500
- SAWCUT LINE
- BENCH SEE DETAIL 8/C500
- CONTRACT LIMIT LINE
- PLANT ABBREVIATION / PLANT QUANTITY
- LP1 LIGHT POLE (BY E-CONTRACT)
- N.I.C CEPTACLE L 7/C500
- MAGNETIC

20' 10' 0 20'

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DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017980

Engineering Architecture Landscape Architecture and Land Surveying, P.C.

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STATE OF NEW YORK · MICHAEL D. PANICELLI · 071475 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 10.31.2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BATHROOMS, RV PARK/MIDWAY

LOCATION:
NYS FAIRGROUNDS
581 STATE FAIR BOULEVARD
SYRACUSE, NY

CLIENT:
NYS DEPARTMENT OF AGRICULTURE AND MARKETS

MARK	DATE	DESCRIPTION
	11/21/2025	BID DOCUMENT
1	3/31/2026	ADDENDUM NO. 2

PROJECT NUMBER:	Q2025 – C
DESIGNED BY:	TEW
DRAWN BY:	TEW
FIELD CHECK:	JML
APPROVED:	JMB

DRAWING TITLE:
MATERIAL LAYOUT AND LANDSCAPE PLAN

DRAWING NUMBER:
C–100

DRAWING 6 OF 49

Mar 30,2026 – 3:40pm
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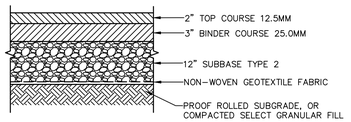
36x24 PLOT SHEET



NOTES:

1. TACK COAT BETWEEN ALL LAYERS. REFER TO SECTION 321316 ASPHALT PAVEMENT.
2. REFER TO SPECIFICATION SECTION 321216 FOR PAVEMENT MATERIAL REQUIREMENTS.

1 ASPHALT PAVEMENT SECTION
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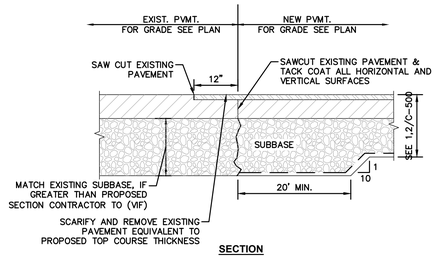

SECTION

2 PAVEMENT TRANSITION SECTION
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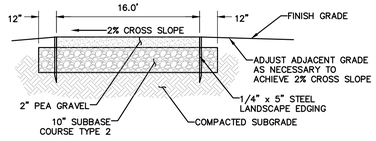
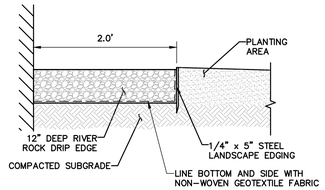


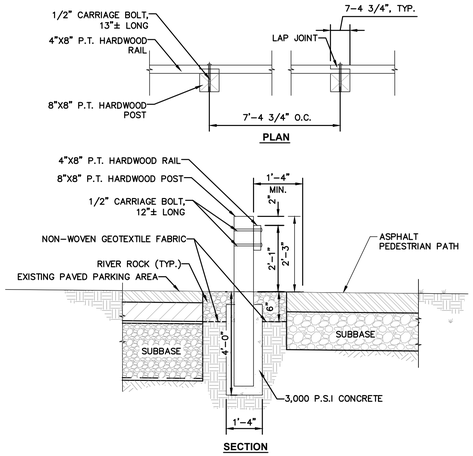
NOTES:

1. PITCH TRAIL TOWARD LOWER SIDE OF SITE.

3 STONE PATH
SCALE: N.T.S.



4 STONE DRIP EDGE
SCALE: N.T.S.

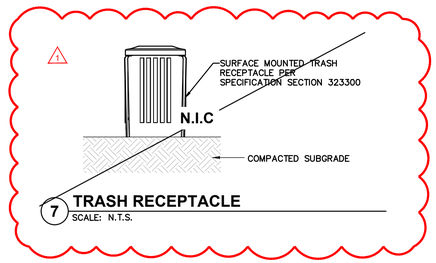


SECTION

NOTES:

1. ALL FASTENERS TO BE DOUBLE HOT-DIPPED GALVANIZED STEEL.
2. PRESSURE TREATED HARDWOOD TO CONFORM TO UCS CODE: UC4B.
3. PROVIDE POSTS AT TERMINATION POINTS OF HARDWOOD GUIDE RAIL.
4. SEE SPECIFICATION 347113.

6 HARDWOOD GUIDE RAIL
SCALE: N.T.S.



7 TRASH RECEPTACLE
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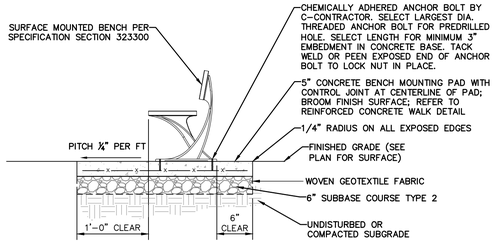
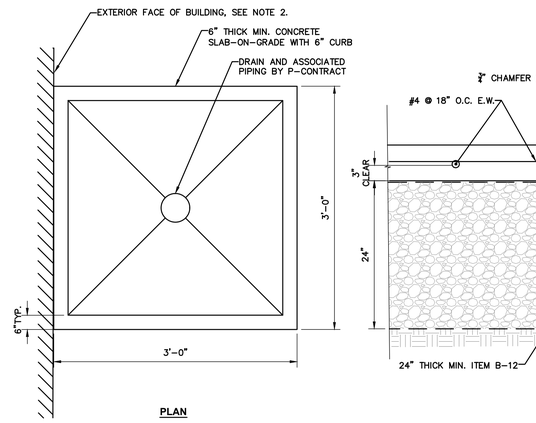


8 BENCH WITH RACKREST AND PAD
SCALE: N.T.S.

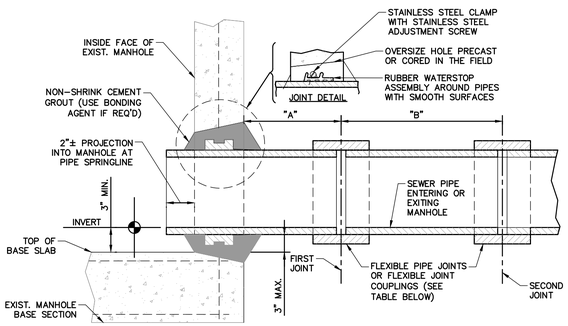


SECTION

NOTES:

1. PITCH SLAB 1/8" PER FOOT UNIFORMLY TO THE DRAIN. MAINTAIN MINIMUM SLAB THICKNESS OF 6"
2. AT BUILDING FACE OMIT CURB CHAMFER AND PROVIDE 1/2" PRE-MOLDED ISOLATION JOINT WITH SEALANT TYPE 1B.
3. CONCRETE:
   3.1. MINIMUM 28 DAY COMPRESSIVE STRENGTH = 4500 PSI
   3.2. MAXIMUM WATER-CEMENT RATIO = 0.45
   3.3. CONCRETE SHALL BE AIR ENTRAINED

9 EXTERIOR UTILITY SINK
SCALE: N.T.S.



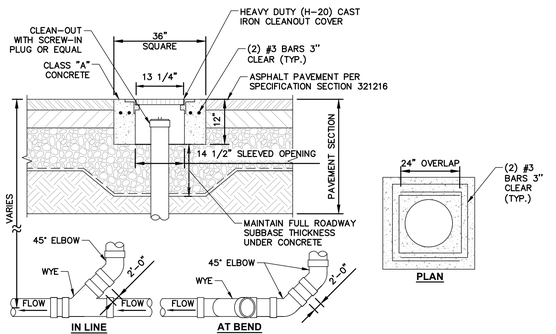
FLEXIBLE JOINT & WATERSTOP REQUIREMENTS

SEWER PIPE TYPE	FLEXIBLE JOINT TYPE IN & OUT	"A" DISTANCE (FEET)	"B" DISTANCE (FEET)	MH WATER STOP REQ'D
DUCTILE IRON	STD RUBBER GASKET PIPE JOINT ONLY	10' MAX.	NO LIMIT	YES
PVC	SPECIAL FLEXIBLE JOINT COUPLING	1' MAX.	3' MAX.	YES

NOTES:

1. THIS DETAIL, IF USED, IS AT NO EXTRA COST IN PLACE OF EITHER OF THE PIPE-TO-MANHOLE CONNECTION DETAILS ONLY WHEN CONNECTING TO EXISTING MANHOLES THAT HAVE NO FLEXIBLE RUBBER BOOT PROVIDED.
2. REFERENCE MANHOLE DETAIL(S) FOR REQUIRED INVERT CHANNEL CONFIGURATION.

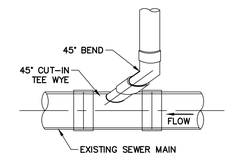
10 PIPE CONNECTION TO EXISTING MANHOLE- CEMENT GROUT SEAL WITH WATER STOP
SCALE: N.T.S.



NOTES:

1. SEWER PIPE FITTINGS TO BE ASTM D-3033 OR D-3034 SDR-35 PVC.
2. TO BE USED FOR GRAVITY PORTION OF SANITARY SYSTEM AS WELL AS THE STORM ROOF DRAINAGE SYSTEM.

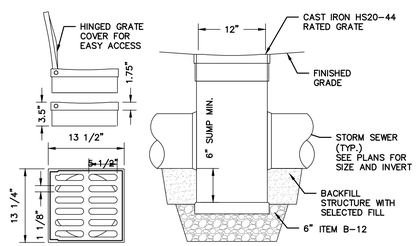
11 SANITARY SEWER CLEAN OUT - TRAFFIC AREAS
SCALE: N.T.S.



NOTES:

1. INSTALL WYE TO MANUFACTURERS RECOMMENDATION.
2. INSTALL WYE IN DIRECTION OF FLOW.

12 CUT-IN TEE WYE
SCALE: N.T.S.



NOTES:

1. BASIS OF DESIGN: NYLOPLAST PVD DRAIN BASIN
2. CASTINGS RATED STANDARD HS20-44 LOADING
3. MATERIAL SHALL CONFORM TO ASTM A48-CLASS 30B
4. PAINT: CASTINGS TO BE FURNISHED WITH A BLACK PAINT
5. DRAIN AREA = 62.7 SQ. INCH

13 PVC YARD DRAIN
SCALE: N.T.S.

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CERTIFICATE OF AUTHORIZATION #: 0017980
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LOCATION:
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MARK	DATE	DESCRIPTION
	11/21/2025	BID DOCUMENT
1	3/31/2026	ADDENDUM NO. 2

PROJECT NUMBER:	Q2025 – C
DESIGNED BY:	TEW
DRAWN BY:	TEW
FIELD CHECK:	JML
APPROVED:	JMB

DRAWING TITLE:
TYPICAL SITE DETAILS

DRAWING NUMBER:
C-500

DRAWING 10 OF 49

Mar 30,2026 - 3:40pm
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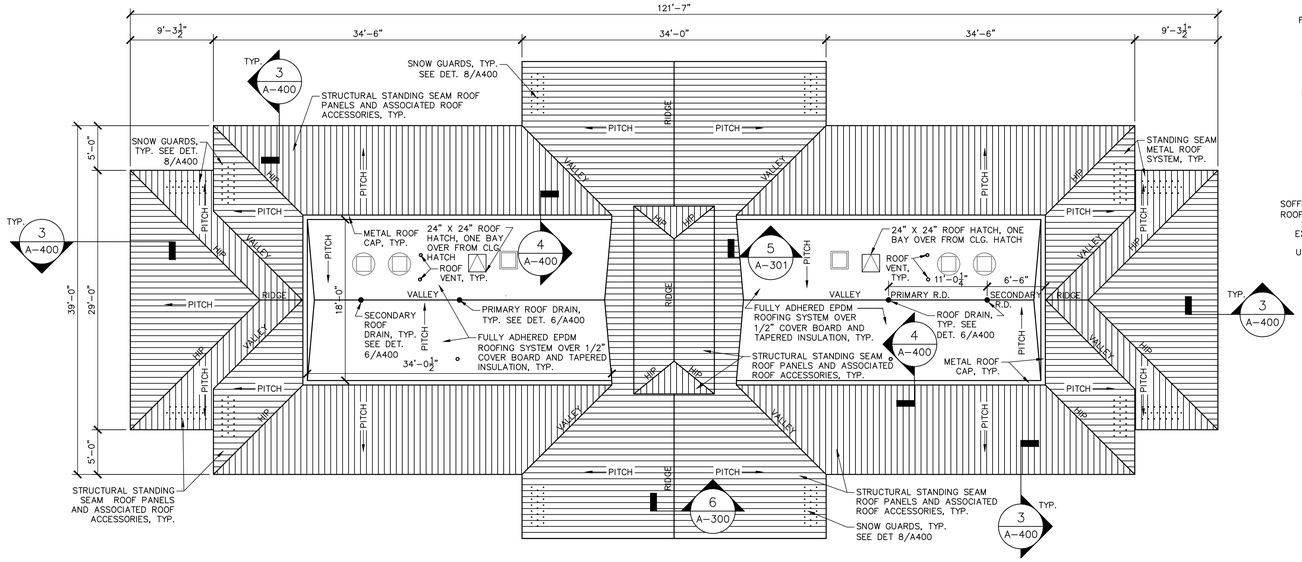
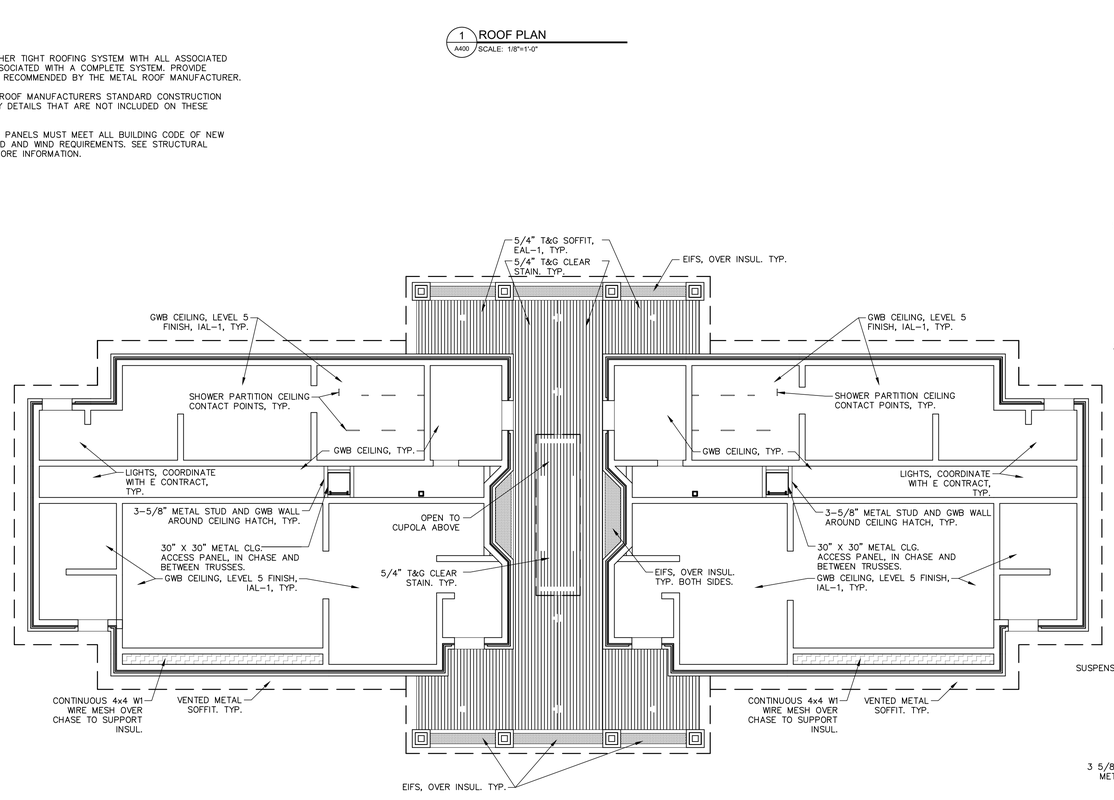
36x24 PLOT SHEET



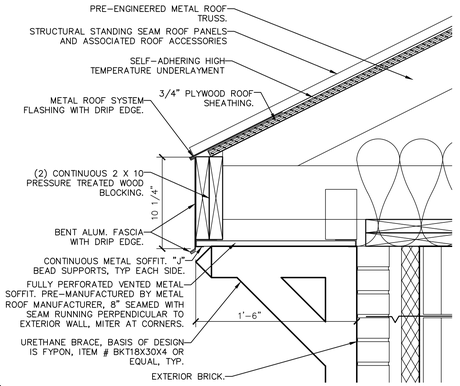
1 A400 ROOF PLAN
SCALE: 1/8"=1'-0"

ROOF NOTES:

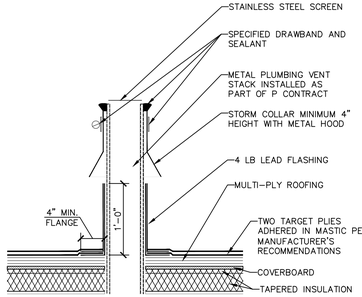
1. PROVIDE A WEATHER TIGHT ROOFING SYSTEM WITH ALL ASSOCIATED ACCESSORIES ASSOCIATED WITH A COMPLETE SYSTEM. PROVIDE ACCESSORIES AS RECOMMENDED BY THE METAL ROOF MANUFACTURER.
2. USE THE METAL ROOF MANUFACTURERS STANDARD CONSTRUCTION DETAILS FOR ANY DETAILS THAT ARE NOT INCLUDED ON THESE DRAWINGS.
3. THE METAL ROOF PANELS MUST MEET ALL BUILDING CODE OF NEW YORK STATE LOAD AND WND REQUIREMENTS. SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION.



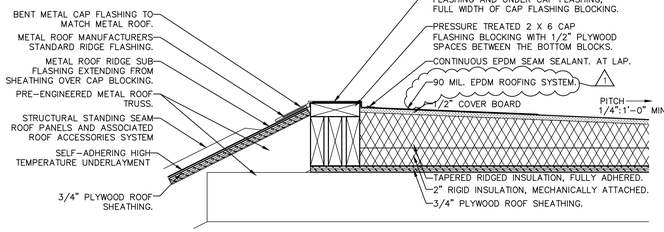
2 A400 REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"



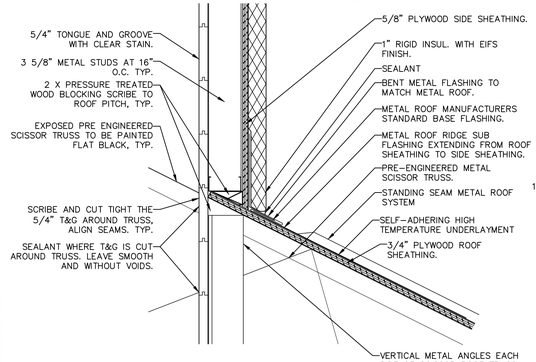
3 A400 METAL ROOF EDGE AND SOFFIT
SCALE: 1 1/2"=1'-0"



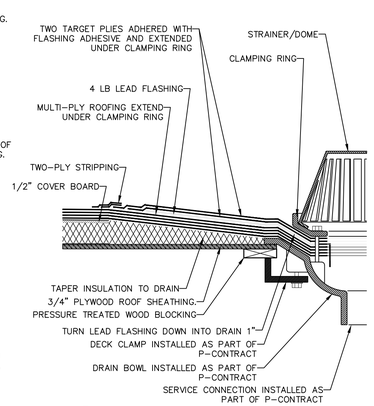
5 A400 TYP. ROOF VENT
SCALE: 3"=1'-0"



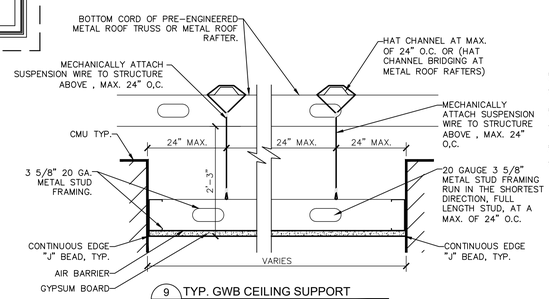
4 A400 METAL ROOF CAP
SCALE: 1 1/2"=1'-0"



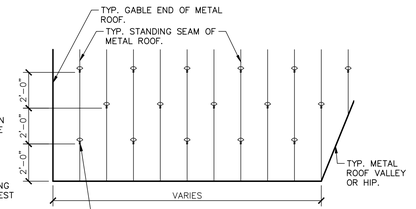
7 A400 METAL ROOF FLASHING AT EIFS
SCALE: 1 1/2"=1'-0"



6 A400 ROOF DRAIN
SCALE: 1"=1'-0"



9 A400 TYP. GWB CEILING SUPPORT
SCALE: 1 1/2"=1'-0"



8 A400 SNOW GUARD AND PATTERN
SCALE: 1/4"=1'-0"

NOTES:

BATT INSUL. NOT SHOWN FOR CLARITY.

Mar 30,2026 - 9:05am
L:\Projects\MJ1816 - NYSOGS SE287 Environmental_Civil Services\1816.62 Q2025 Provide Bathrooms NYSF\02 Bid\Addendum\Addendum No. 2\Arch Files for Addendum\CAD\Q2025_A400_Roof-Plan.dwg
36x24 PLOT SHEET

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CONSULTANT
CERTIFICATE OF AUTHORIZATION #: 0017980

MJ Engineering Architecture Landscape Architecture and Land Surveying, P.C.

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STATE OF NEW YORK · LICENSED · MICHAEL D. PANICCIA · 074751 · PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 10.31.2026

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1	3/31/2026	ADDENDUM NO. 2
	11/21/2025	BID DOCUMENT

PROJECT NUMBER:	Q2025 – C
DESIGNED BY:	AMK
DRAWN BY:	SMB
FIELD CHECK:	
APPROVED:	CMD

DRAWING TITLE:
RESTROOM ROOF AND REFLECTED CEILING PLAN

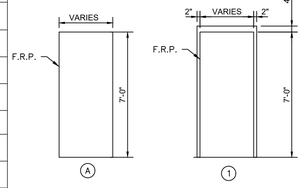
DRAWING NUMBER:
A–400

DRAWING 30 OF 49

DOOR SCHEDULE

* SEE HARDWARE SPECIFICATION SECTION.

NUMBER	TYPE	MATERIAL	SIZE	THICK	FINISH	RATING	HDWR*	GLASS	FRAME TYPE	FRAME MAT.	FRAME FIN.	FRAME DET.	REMARKS
100	A	INSUL. FRP	3'-0" X 7'-0"	1 3/4	FACTORY FINISH	–	1	–	1	FRP	FACTORY FINISH	3,4 & 13/A600	
101	A	INSUL. FRP	3'-0" X 7'-0"	1 3/4	FACTORY FINISH	–	1	–	1	FRP	FACTORY FINISH	3,4 & 13/A600	
102	A	INSUL. FRP	3'-0" X 7'-0"	1 3/4	FACTORY FINISH	–	2	–	1	FRP	FACTORY FINISH	3,4 & 13/A600	
103	A	FRP	2'-6" X 7'-0"	1 3/4	FACTORY FINISH	–	4	–	1	FRP	FACTORY FINISH	1&2/A600	
104	A	INSUL. FRP	3'-0" X 7'-0"	1 3/4	FACTORY FINISH	–	3	–	1	FRP	FACTORY FINISH	3,4 & 13/A600	
105	A	INSUL. FRP	3'-0" X 7'-0"	1 3/4	FACTORY FINISH	–	3	–	1	FRP	FACTORY FINISH	3,4 & 13/A600	
106	A	FRP	2'-6" X 7'-0"	1 3/4	FACTORY FINISH	–	4	–	1	FRP	FACTORY FINISH	1&2/A600	
107	A	INSUL. FRP	3'-0" X 7'-0"	1 3/4	FACTORY FINISH	–	2	–	1	FRP	FACTORY FINISH	3,4 & 13/A600	
108	A	INSUL. FRP	3'-0" X 7'-0"	1 3/4	FACTORY FINISH	–	1	–	1	FRP	FACTORY FINISH	3,4 & 13/A600	
109	A	INSUL. FRP	3'-0" X 7'-0"	1 3/4	FACTORY FINISH	–	1	–	1	FRP	FACTORY FINISH	3,4 & 13/A600	

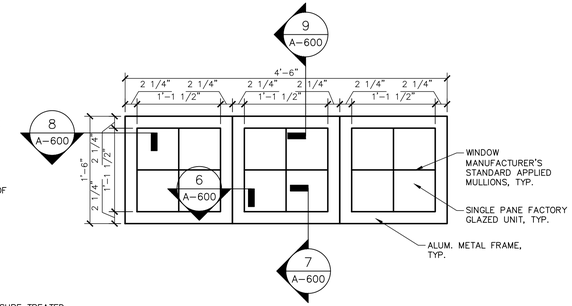


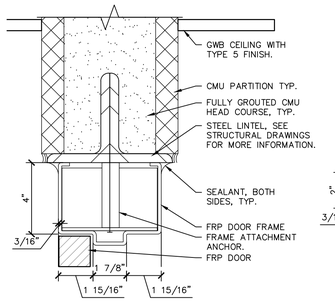
DOOR NOTES:

1. PROVIDE A CONTINUOUS BEAD OF SEALANT AT ALL DOORS WHERE THE FRAME MEETS THE MASONRY PARTITION.
2. FILL ALL HOLLOW FRAMES ON EXTERIOR WALLS WITH BATT INSUL.
3. INSULATE ALL DOORS AND WINDOWS ON EXTERIOR WALLS.
4. MOUNT ALL ROOM IDENTIFICATION SIGNS ON THE EXTERIOR FACE OF THE DOOR IT IS MOUNTED ON. SEE DET. 14/A-600 FOR MORE INFORMATION.

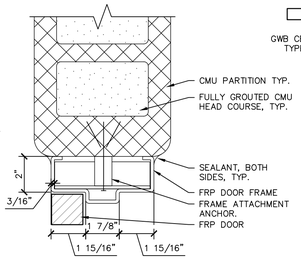
WINDOW SCHEDULE

NUMBER	TYPE	MATERIAL	SIZE	FRAME THICK.	FINISH	RATING	GLASS	HEAD & SILL TYPE	
A	FIXED	ALUM.	18"W. x 18"H.	0'-2 1/4"	CLEAR	–	SINGLE PANEL	7&9/A600	KAWNEER 7225 NON-THERMAL FACTORY GLAZED WINDOW UNIT, OR EQUAL

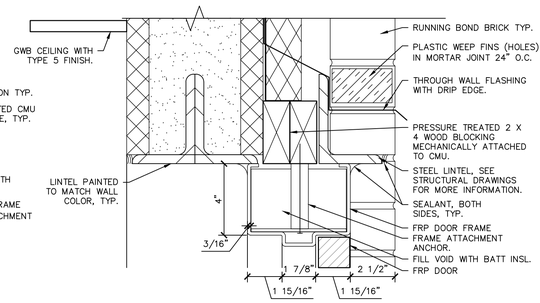




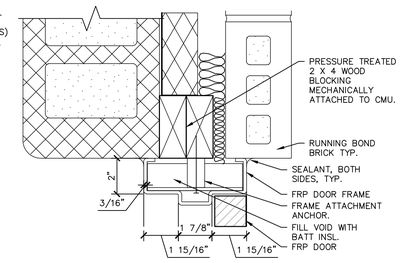
1 A600 HEAD DETAIL INTERIOR WALL SCALE: 3"=1'-0"



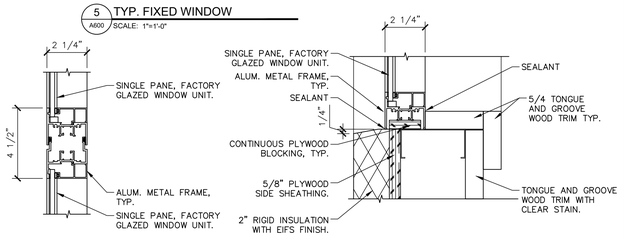
2 A600 JAMB DETAIL INTERIOR WALL SCALE: 3"=1'-0"

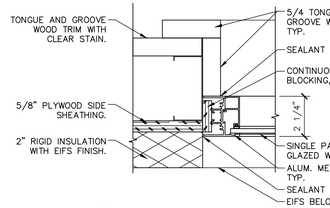


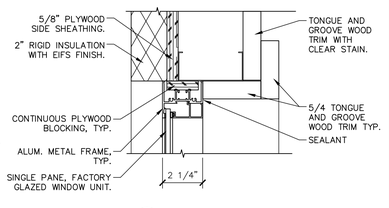
3 A600 HEAD DETAIL EXTERIOR WALL SCALE: 3"=1'-0"



4 A600 JAMB DETAIL EXTERIOR WALL SCALE: 3"=1'-0"







8 A600 TYP. WINDOW JAMB SCALE: 3"=1'-0"

9 A600 TYP. WINDOW HEAD SCALE: 3"=1'-0"

FINISH SCHEDULE

NO.	ROOM	FLOOR	BASE	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING			REMARKS
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
100	FAIR WOMENS RESTROOM	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	–
101	FAMILY RESTROOM 1	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	WRAP WATER LINES AND DRAIN LINE UNDER LAV. WITH PRE MANUFACTURED ADA CONFORMING INSULATION WRAP. BASIS OF DESIGN IPC CORP. TRUEBRO LAVE GUARD 2 E-Z SERIES UNDER SINK PIPE COVERS.
102	RV WOMENS RESTROOM	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	–
103	RV WOMENS SHOWERS	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	–
104	UTILITY RM.	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	–
105	PLUMBING CHASE	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	–
106	PLUMBING CHASE	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	–
107	UTILITY RM.	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	–
108	RV MENS SHOWERS	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	–
109	RV MENS RESTROOM	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	–
110	FAMILY RESTROOM 2	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	WRAP WATER LINES AND DRAIN LINE UNDER LAV. WITH PRE MANUFACTURED ADA CONFORMING INSULATION WRAP. BASIS OF DESIGN IPC CORP. TRUEBRO LAVE GUARD 2 E-Z SERIES UNDER SINK PIPE COVERS.
111	FAIR MENS RESTROOM	STAINED CONC.	NONE	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	PGF CMU	GWB	IAL-1	8'-0"	–

FINISH NOTES:

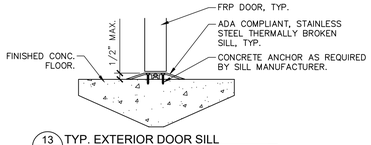
1. FOLLOW THE MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS FOR THE INSTALLATION OF ALL FINISH MATERIALS.
2. PROVIDE FINISHES WITH A CLASS A FLAME SPREAD OR BETTER.
3. ALL DOORS AND F.R.P. DOOR FRAMES TO BE FACTORY FINISHED.
4. ALL GYPSUM BOARD SOFFITS AND CEILINGS TO BE PAINTED IAL-1 UNLESS NOTED OTHERWISE.
5. CONTRACTOR TO SUBMIT SAMPLES FOR ALL MATERIALS FOR VERIFICATION TO THE DIRECTOR'S REPRESENTATIVE.
6. ALL SEALANT IN PROJECT, TO MATCH ADJACENT ADJACENT MATERIAL COLOR. PROVIDE BACKER ROD AS REQUIRED (TYP.)

FINISH MATERIAL (BASIS OF DESIGN) OR EQUAL:

COORDINATE FINAL COLOR SELECTION OF FINISH MATERIAL WITH DIRECTOR'S REPRESENTATIVE BEFORE ORDERING ITEM.

CMU	CMU1:BARNES & CONE INC. GROUND FACE CMU – OUTER BANKS, FILLED AND SEAL WITH MONOPOLE'S AQUASEAL ME-12. CMU2:BARNES & CONE INC. GROUND FACE CMU – FRENCH TOAST, FILLED AND SEAL WITH MONOPOLE'S AQUASEAL ME-12
BRICK	BRICK1: RUNNING BOND – ACME BRICK – BIG BEND BRICK2: SOLDIER COURSE – ACME BRICK – BROWNWOOD MILL (BRICK MORTAR TO MATCH ADJACENT BRICK)
ROOF	MTLR1: MBCI CRAFTSMAN SERIES – HIGH BATTEN – KOKO BROWN.
EIFS	EIFS1: STO CORP STANDARD COLOR – 31221 57 C2 – FINISH TEXTURE – MEDIUM
PLASTIC PARTITIONS	TP1: BOBRICK, DURALINE (CL), 1081 SERIES, CLASS A SYSTEM WITH CONCEALED FASTENERS – ALMOND S-445-CA
FRP DOOR	FRP1: EDGEWATER DOOR COMPANY STANDARD COLOR – DARK BROWN
PAINT	EAL-1: SHERWIN WILLIAMS – WHITE FLOUR SW 7102 IAL-1: SHERWIN WILLIAMS – BRIGHT WHITE SW 7007 AU (EXPOSED TRUSSES): SHERWIN WILLIAMS – COURTYARD SW 6440 AU (EXPOSED LINTELS): MATCH ADJACENT WALL COLOR.
COUNTER	CT: DUPONT CORIAN – COCOA BROWN
SLAB STAIN	SRI CONCRETE PRODUCTS, RENAISSANCE CHEMICAL STAIN – WALNUT BROWN (COORDINATE WITH STRUCTURAL DRAWINGS AND SPECIFICATIONS)
CLEAR STAIN (FOR WOOD)	SHERWIN WILLIAMS – MINWAX HELMSMAN SPAR URETHANE

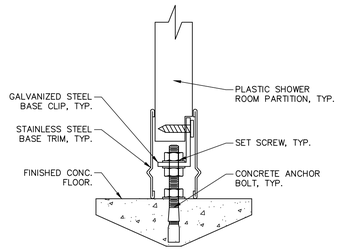
1



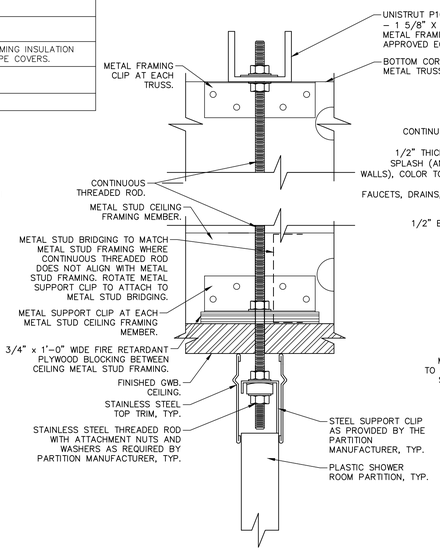
13 A600 TYP. EXTERIOR DOOR SILL SCALE: N.T.S.

14 A600 TYP. RESTROOM SIGNAGE SCALE: N.T.S.

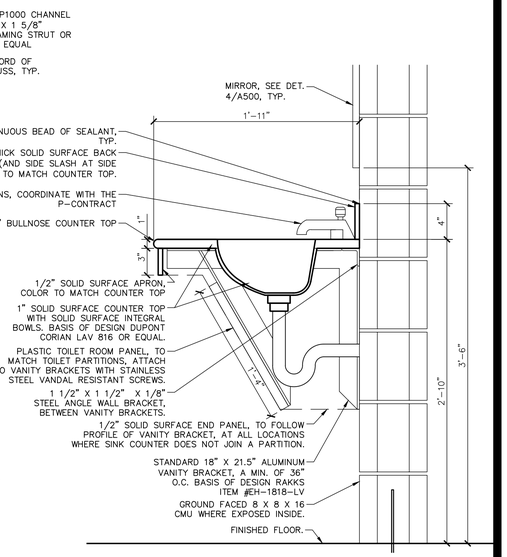
NOTE: COORDINATE ROOM NAME WITH ASSOCIATED ROOM THAT SIGN IS LOCATED ON.



10 A600 TYP. PARTITION FLOOR CONNECTION SCALE: N.T.S.



11 A600 SHOWER PARTITION CLG. CONNECTION SCALE: N.T.S.



12 A600 SOLID SURFACE COUNTERTOP SECTION SCALE: 1 1/2"-1'-0"

Mar 30,2026 – 9:07am
L:\Projects\MJ1816 – NYSOGS SE287 Environmental_Civil Services\1816.62 Q2025 Provide Bathrooms NYSF\02 Bid\Addendum\Addendum No. 2\Arch Changes for Addendum\CAD\Q2025_A600_Schedules.dwg

36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0017980

Engineering
Architecture
Landscape Architecture
and Land Surveying, P.C.

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STATE OF NEW YORK · MICHAEL D. PANTUSO · 074751 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 10.31.2026

CONTRACT:
CONSTRUCTION

TITLE:
PROVIDE BATHROOMS, RV PARK/MIDWAY

LOCATION:
NYS FAIRGROUNDS
581 STATE FAIR BOULEVARD
SYRACUSE, NY

CLIENT:
NYS DEPARTMENT OF AGRICULTURE AND MARKETS

MARK	DATE	DESCRIPTION
1	3/31/2026	ADDENDUM NO. 2
	11/21/2025	BID DOCUMENT

PROJECT NUMBER:	Q2025 – C
DESIGNED BY:	AMK
DRAWN BY:	SMB
FIELD CHECK:	
APPROVED:	CMD

DRAWING TITLE:
RESTROOM SCHEDULES

DRAWING NUMBER:
A-600

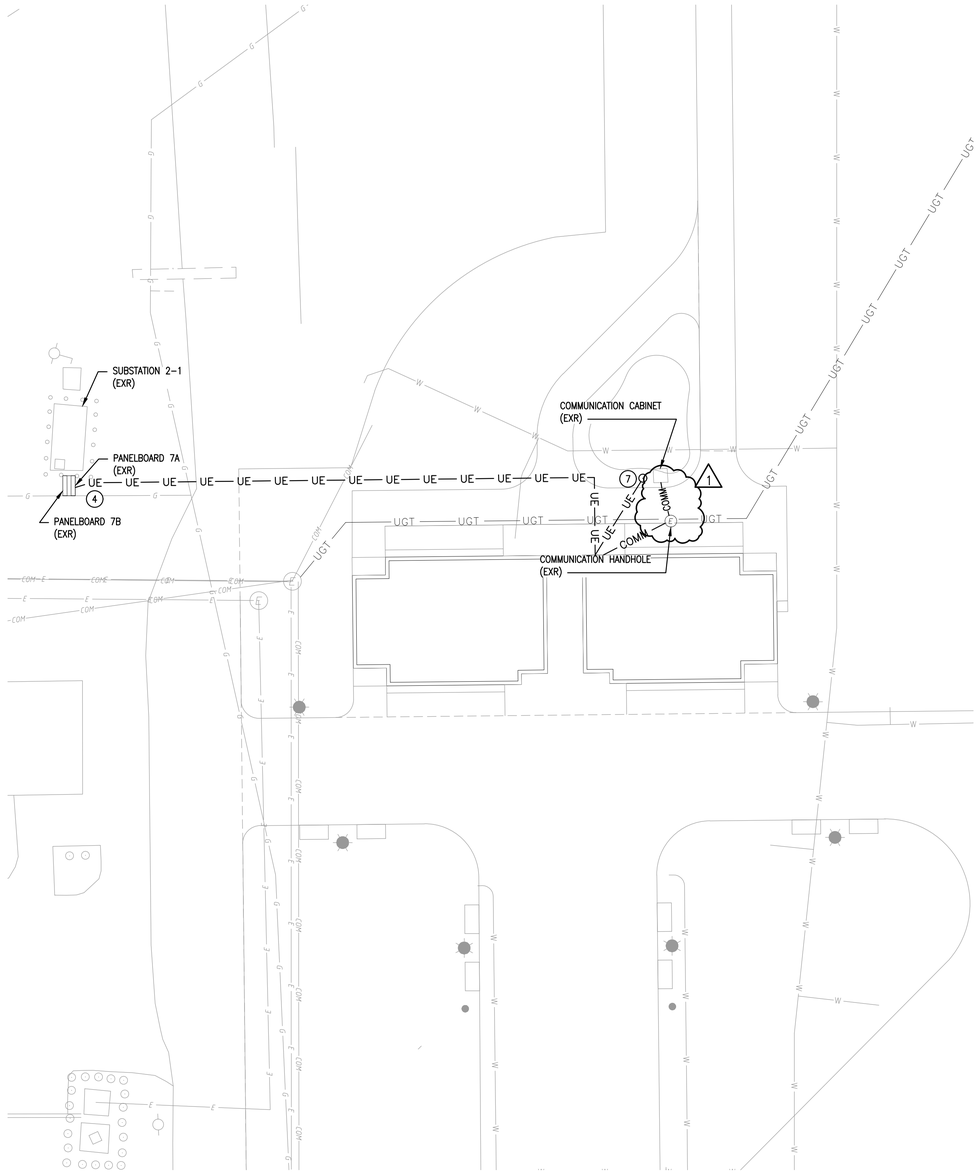
DRAWING 32 OF 49

GENERAL NOTES:

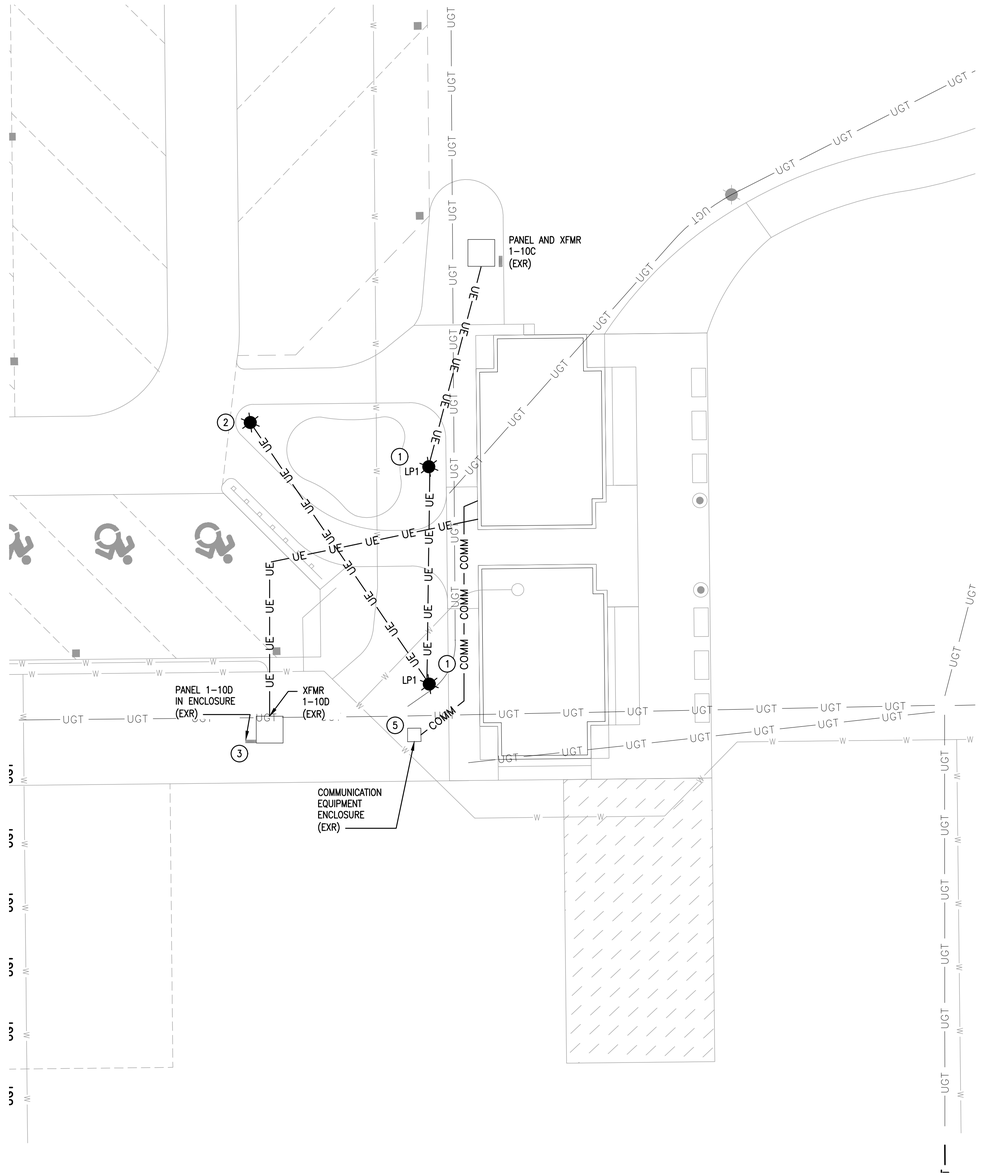
1. REFER TO SHEET E-001.

KEYED NOTES:

1. REINSTALL LIGHT POLES. PROVIDE CONCRETE BASE FOR POLES.
2. PROVIDE LIGHT POLE LP1 AND CONCRETE BASE.
3. REUSE EXISTING 200 AMP CIRCUIT BREAKERS IN PANEL 1-10C TO FEED PANEL RV AND PANEL RV1. PROVIDE 4-3/0, #6G, 2" C TO EACH PANEL. ROUTE UG INTO MECH ROOM.
4. PROVIDE 200A/3 POLE CIRCUIT BREAKER (CUTLER HAMMER HJD) IN PANEL 7A TO FEED PANEL MW. PROVIDE 4-3/0, #6G, 2" C. PROVIDE 200A/3 POLE CIRCUIT BREAKER (CUTLER HAMMER HJD) IN PANEL 7B TO FEED PANEL MW1. PROVIDE 4-3/0, #6G, 2"C.
5. PROVIDE 1-2" CONDUIT WITH PULL STRING FROM EXISTING TELCO ENCLOSURE TO RV PARK BATHROOM MECH. ROOM.
6. PROVIDE 1-2" CONDUIT WITH PULL STRING FROM EXISTING TELCO HANDHOLE TO MIDWAY BATHROOM MECH. ROOM.
7. RELOCATE WOOD POST AND 6-DUPLEX RECEPTACLES. PROVIDE 120V, 1P, 20A CIRCUIT TO RECEPTACLES.



1 E-101 MIDWAY BATHROOM ELECTRICAL INSTALL
SCALE: 1"=20'



2 E-101 RV PARK BATHROOM ELECTRICAL INSTALLS
SCALE: 1"=20'

NEW YORK STATE | Office of General Services

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0018644

SAGE ENGINEERING ASSOCIATES, LLP

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STATE OF NEW YORK · MICHAEL O'KEEFE · 080613 · REGISTERED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 10.31.2026

CONTRACT:
ELECTRICAL

TITLE:
PROVIDE BATHROOMS, RV PARK/MIDWAY

LOCATION:
NYS FAIRGROUNDS
581 STATE FAIR BOULEVARD
SYRACUSE, NY

CLIENT:
NYS DEPARTMENT OF AGRICULTURE AND MARKETS

MARK	DATE	DESCRIPTION
1	03/31/2026	ADDENDUM 2
	11/21/2025	BID DOCUMENT

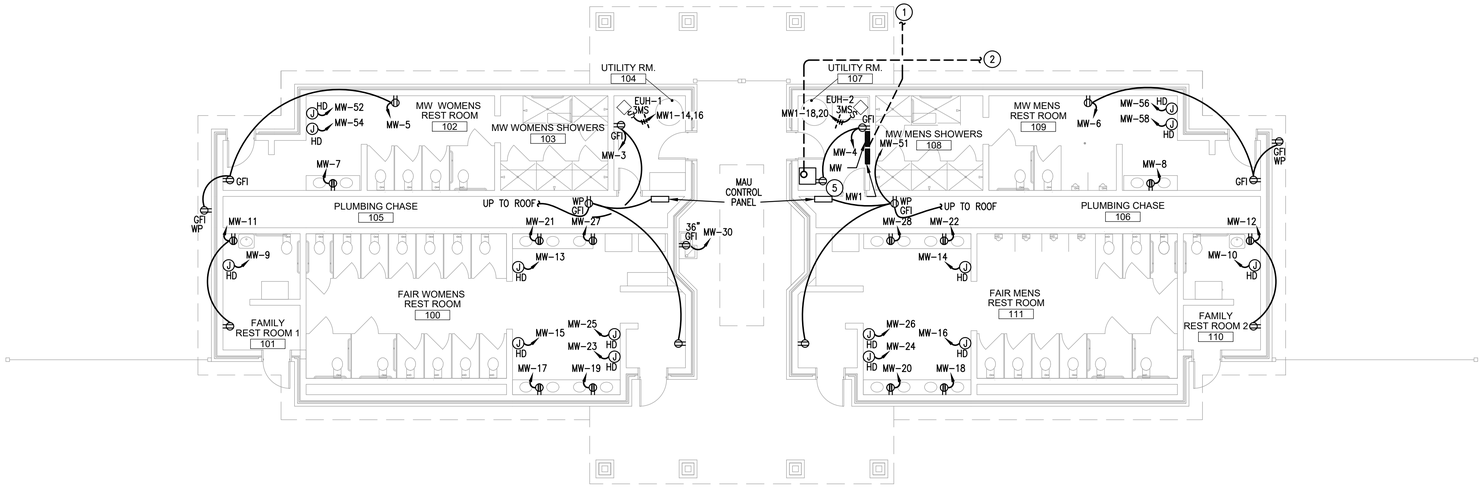
PROJECT NUMBER:	Q2025 – E
DESIGNED BY:	MOM
DRAWN BY:	LSD
FIELD CHECK:	
APPROVED:	MOM

DRAWING TITLE:
SITE ELECTRICAL INSTALLATION PLANS

DRAWING NUMBER:
E-101

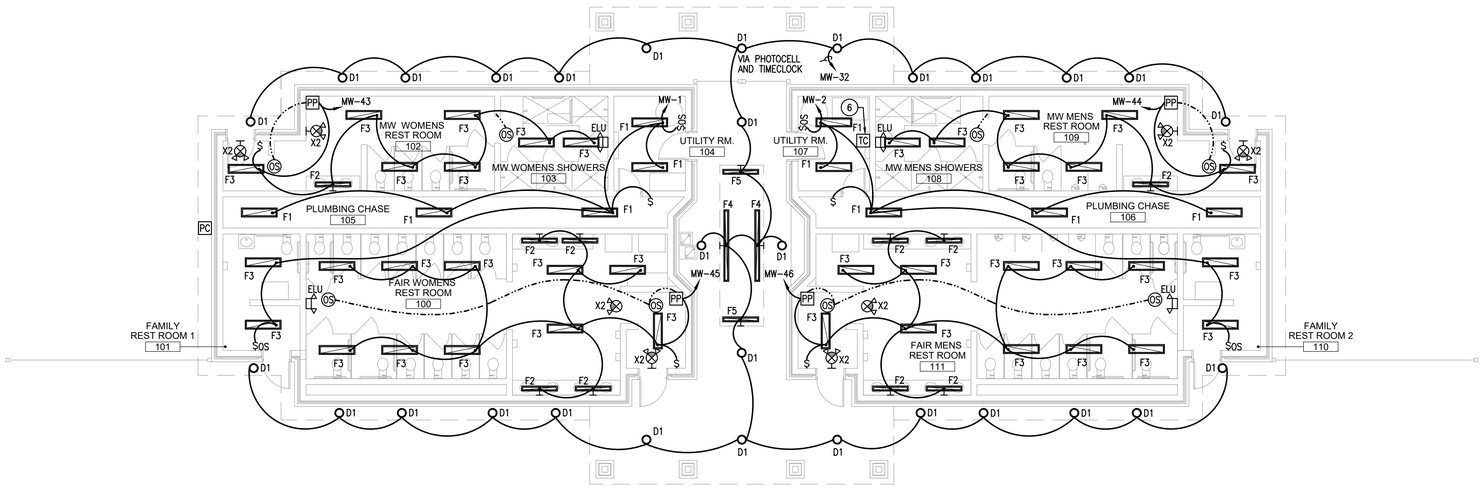
DRAWING X OF 49

Mar 30,2026 - 11:48am
\\SAGEPRIME\Data\Work\Mi Engineering\4342 NYS Fair Bathrooms Q2025\CAD\E101.dwg



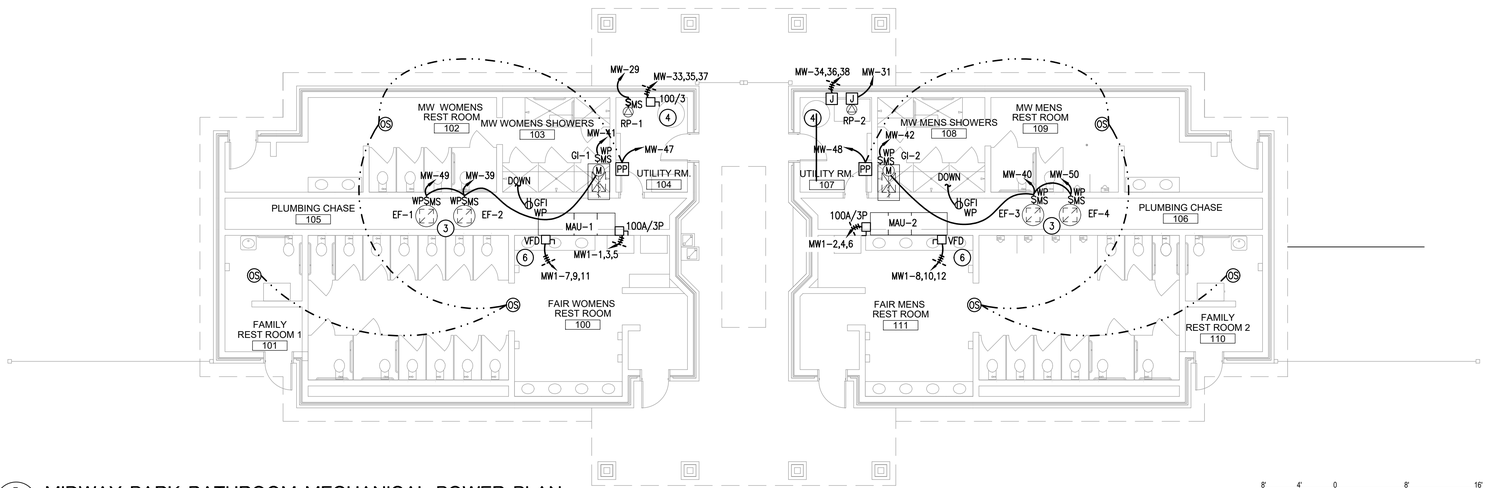
1 E-120 MIDWAY PARK BATHROOM POWER PLAN

SCALE: 1/8"=1'-0"



2 E-120 MIDWAY PARK BATHROOM LIGHTING PLAN

SCALE: 1/8"=1'-0"



3 E-120 MIDWAY PARK BATHROOM MECHANICAL POWER PLAN

SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. REFER TO SHEET E-001.

KEYED NOTES:

1. PROVIDE FEEDER FROM EXISTING PANELBOARDS 7A AND 7B. REFER TO SITE PLANS.
2. PROVIDE 1-2" COMMUNICATION CONDUIT FROM INTERIOR OF BUILDING TO EXTERIOR. REFER TO SITE PLANS. PROVIDE 24 STRAND SINGLE MODE FIBER CORNING FREEDOM FIBER OPTIC CABLE WITH LC TYPE APC CONNECTORS. PROVIDE FIBER CROSS CONNECT IN COMMUNICATION CABINET/ENCLOSURE AND TERMINATE FIBERS.
3. EXTEND POWER FROM FAN TO DAMPER. DAMPER AND FAN WILL BE INTERLOCKED FOR SIMULTANEOUS OPERATION.
4. CONNECT RE-CIRC PUMPS VIA LINE VOLTAGE AQUASTAT.
5. PROVIDE WALL MOUNTED DATA RACK 24"W X 18"D X 20"H. PROVIDE A QSC GX3 AMPLIFIER, A SYMETRIX PRISM WITH DANTE 8X8 MATRIX SWITCH, A SYMETRIX ARC-2E WHITE REMOTE CONTROL, A CISCO SWITCH SG350 W/POE 10 PORT INCLUDING SFP MODULE FOR SINGLE MODE FIBER INPUT, AND 500FT SPEAKER WIRE 16 GAUGE. FURNISH: 500FT OF OUTDOOR SPEAKER CABLE 2/14AWG. 500FT OF OUTDOOR SPEAKER CABLE 4/14AWG. 10 ATLAS SD72W-KIT CEILING SPEAKER KIT. 10 ATLAS CJ-46 70V WIDE ANGLE HORNS.10 ATLAS DRIVERS DAYTON AUDIO D1075T WITH 70V TRANSFORMERS.
6. PROVIDE INTERMATIC # ET2145C TIMECLOCK TO CONTROL SITE AND BUILDING EXTERIOR LIGHTING. RUN CIRCUIT FROM TIMECLOCK VIA LINE VOLTAGE PHOTOCELL TO POWER LIGHTS.

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DESIGN & CONSTRUCTION

CONSULTANT

CERTIFICATE OF AUTHORIZATION #: 0018644

SAGE ENGINEERING ASSOCIATES, LLP

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REGISTRATION EXPIRES: 10.31.2026

CONTRACT:

ELECTRICAL

TITLE:

PROVIDE BATHROOMS, RV PARK/MIDWAY

LOCATION:

NYS FAIRGROUNDS
581 STATE FAIR BOULEVARD
SYRACUSE, NY

CLIENT:

NYS DEPARTMENT OF AGRICULTURE AND MARKETS

MARK	DATE	DESCRIPTION
1	03/31/2026	ADDENDUM 2
	11/21/2025	BID DOCUMENT

PROJECT NUMBER:	Q2025 – E
DESIGNED BY:	MOM
DRAWN BY:	LSD
FIELD CHECK:	–
APPROVED:	MOM

DRAWING TITLE:

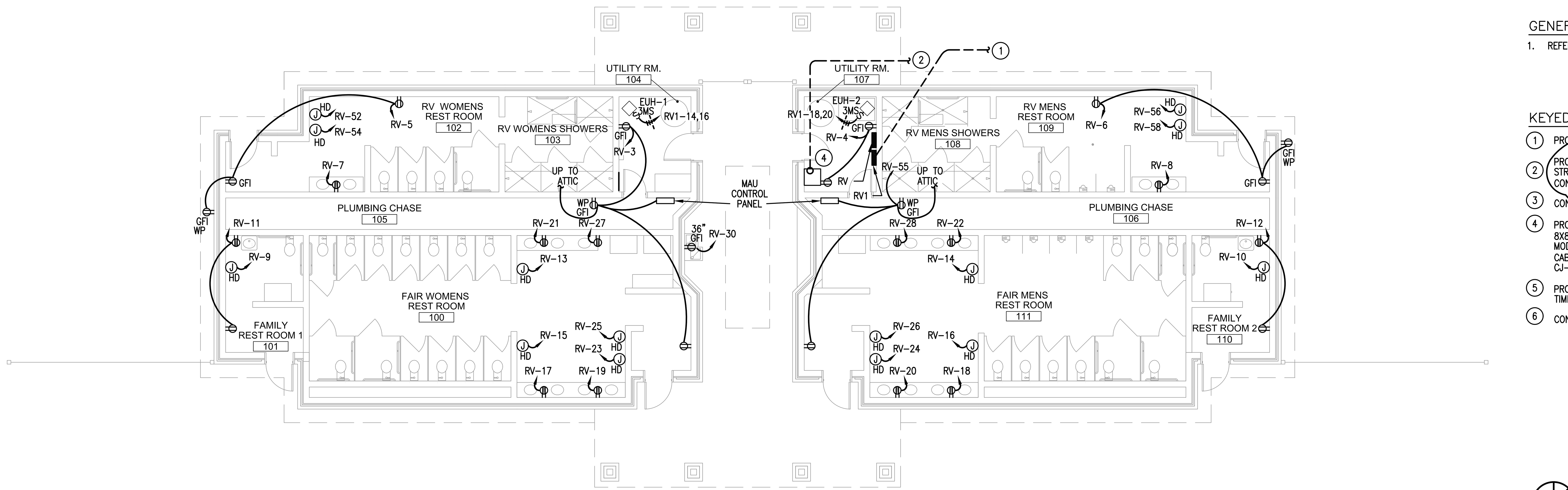
MIDWAY BATHROOM ELECTRICAL PLAN

DRAWING NUMBER:

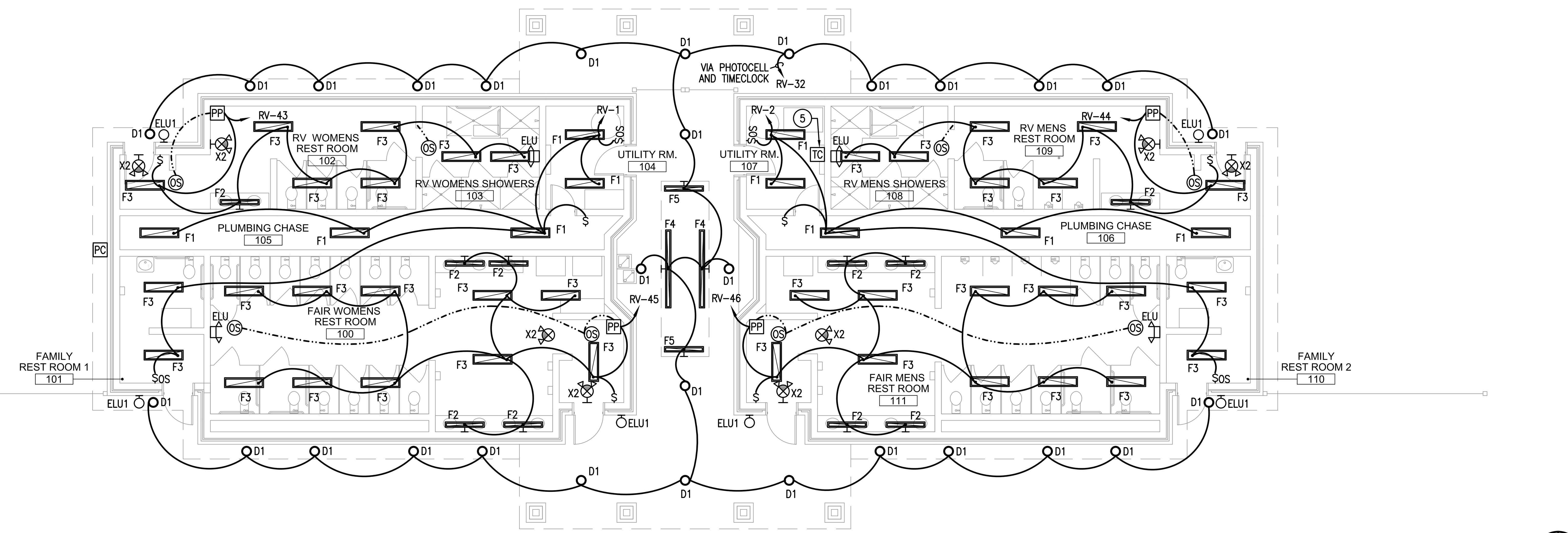
E-120

DRAWING 1 OF 49

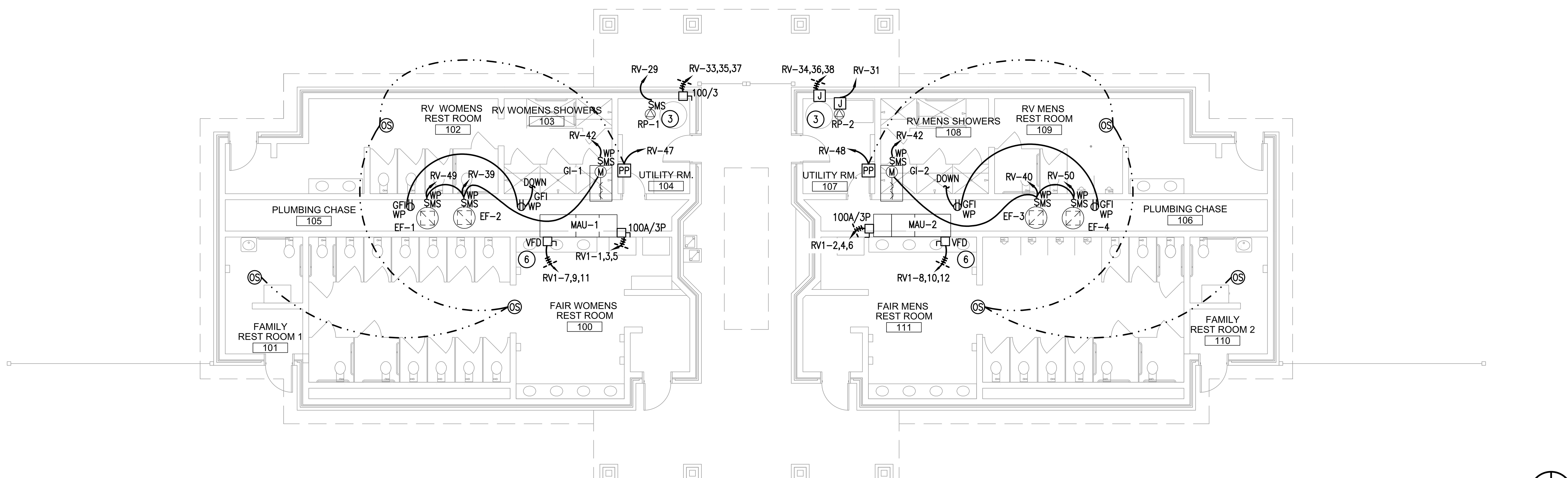
Mar 30,2026 - 11:49am
\\SAGEPRIME\Data\Work\Mu Engineering\4342 NYS Fair Bathrooms Q2025\CAD\E120.dwg
36x24 PLOT SHEET



1 E-121 RV PARK BATHROOM POWER PLAN
SCALE: 1/8"=1'-0"



2 E-121 RV PARK BATHROOM LIGHTING PLAN
SCALE: 1/8"=1'-0"



3 E-121 RV PARK BATHROOM MECHANICAL POWER PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

1. REFER TO SHEET E-001.

KEYED NOTES:

1. PROVIDE FEEDERS FROM PANELBOARD 1-10D. REFER TO SITE PLANS.
2. PROVIDE 1-2" COMMUNICATION CONDUIT FROM INTERIOR OF BUILDING TO EXTERIOR. REFER TO SITE PLANS.PROVIDE 24 STRAND SINGLE MODE FIBER CORNING FREEDOM FIBER OPTIC CABLE WITH LC TYPE APC CONNECTORS. PROVIDE FIBER CROSS CONNECT IN COMMUNICATION CABINET/ENCLOSURE AND TERMINATE FIBERS. (1)
3. CONNECT RE-CIRC PUMPS VIA LINE VOLTAGE AQUASTAT.
4. PROVIDE WALL MOUNTED DATA RACK 24"W X 18"D X 20"H. PROVIDE A QSC GX3 AMPLIFIER, A SYMETRIX PRISM WITH DANTE 8X8 MATRIX SWITCH, A SYMETRIX ARC-2E WHITE REMOTE CONTROL, A CISCO SWITCH SG350 W/POE 10 PORT INCLUDING SFP MODULE FOR SINGLE MODE FIBER INPUT, AND 500FT SPEAKER WIRE 16 GAUGE. FURNISH: 500FT OF OUTDOOR SPEAKER CABLE 2/14AWG. 500FT OF OUTDOOR SPEAKER CABLE 4/14AWG. 10 ATLAS SD72W-KIT CEILING SPEAKER KIT. 10 ATLAS CJ-46 70V WIDE ANGLE HORNS.10 ATLAS DRIVERS DAYTON AUDIO D1075T WITH 70V TRANSFORMERS.
5. PROVIDE INTERMATIC # ET2145C TIMECLOCK TO CONTROL SITE AND BUILDING EXTERIOR LIGHTING. RUN CIRCUIT FROM TIMECLOCK VIA LINE VOLTAGE PHOTOCELL TO POWER LIGHTS.
6. CONNECT CIRCUIT TO PROVIDED VFD.

NEW YORK STATE | Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT
CERTIFICATE OF AUTHORIZATION #: 0018644

SAGE ENGINEERING ASSOCIATES, LLP

ENERGY CODE STATEMENT:

TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CODE.

UNIFORM CODE STATEMENT

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STATE OF NEW YORK · MICHAEL OWEN MEYERS · 080612 · LICENSED PROFESSIONAL ENGINEER

REGISTRATION EXPIRES: 10.31.2026

CONTRACT: ELECTRICAL

TITLE: PROVIDE BATHROOMS, RV PARK/MIDWAY

LOCATION: NYS FAIRGROUNDS, 581 STATE FAIR BOULEVARD, SYRACUSE, NY

CLIENT: NYS DEPARTMENT OF AGRICULTURE AND MARKETS

MARK	DATE	DESCRIPTION
1	03/31/2026	ADDENDUM 2
	11/21/2025	BID DOCUMENT

PROJECT NUMBER: Q2025 – E

DESIGNED BY: MOM
DRAWN BY: LSD
FIELD CHECK: –
APPROVED: MOM

DRAWING TITLE: RV PARK BATHROOM ELECTRICAL PLAN

DRAWING NUMBER: E-121

DRAWING 1 of 49