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

**ADDENDUM NO. 6 TO PROJECT NO. 47331**

**CONSTRUCTION WORK**
**REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP**
**NEW YORK STATE CAPITOL**
**ALBANY, NY 12224**

October 18, 2024

**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 REQUIRMENTS

1. SECTION 015000 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 015000 – 1 through 015000 – 10) noted "Revised 10/17/2024".

## SPECIFICATIONS

2. SECTION 040322 HISTORIC BRICK UNIT MASONRY REPAIR AND REPOINTING: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 040322 – 1 through 040322 – 10) noted "Revised 10/17/2024".

3. SECTION 040323 BRICK MASONRY VAULTS: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 040323 – 1 through 040323 – 8) noted "Revised 10/17/2024".

4. SECTION 087100 FINISH HARDWARE: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 087100 – 1 through 087100 – 12) noted "Revised 10/17/2024".

5. SECTION 099600 HIGH PERFORMANCE COATINGS: Discard all previously issued versions of this Section and substitute the accompanying Section (pages 099600 – 1 through 099600 – 6) noted "Revised 10/17/2024".

**DRAWINGS**

6. Revised Drawings:
   a. Drawing Nos. C-100, A102.2, A102.3, A102.5, A103.3, A300, A301, A302, A505, A508, A514, A517, A550, A600, S-001, S-101, S-102, S-103, S-104, S-105, S-501, S-600, S-601, DS-701, DS-702, S-701, S-702, S-710, S-801, S-802, S-901, S-902, S-903, S-904 noted "REVISED 10/17/2024" accompany this Addendum and supersede the same numbered originally issued drawings.

7. Addendum Drawing:
   a. Drawing No. S-505, noted "ADDENDUM DRAWING 10/17/2024" accompanies this Addendum and forms part of the Contract Documents.

**END OF ADDENDUM**

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

# SECTION 015000

# CONSTRUCTION FACILITIES & TEMPORARY CONTROLS

## PART 1 GENERAL

### 1.01 SUMMARY

A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities including temporary walkways and protected access.

### 1.02 RELATED WORK SPECIFIED ELSEWHERE

A. For temporary enclosed walkway:

1. Section 061000 “Rough Carpentry.”
2. Section 081113 “Hollow Metal Doors and Frames.”
3. Section 099101 “Construction Painting.”
4. Section 281300 “Card Access Control Systems.”
5. Section 282000 “Video Surveillance.”
6. Section 283105 “Modifications to Fire Alarm System.”

### 1.03 PROJECT CONDITIONS

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

### 1.04 ACTION SUBMITTALS

A. Fire-Prevention Plan: Submit 30 days before work begins.

B. Scaffolding Shop Drawings: Submit shop drawings for scaffolding and temporary entrance sidewalk bridges, designed, stamped, and sealed by Professional Engineer legally qualified to practice in New York State.

1. Director’s Representative shall review scaffolding drawings for potential adverse impact on historic building fabric only.
2. Compliance with life-safety and structural requirements remains the responsibility of the Contractor.
3. Show locations of scaffolding and points of scaffolding in contact with building. Include details of each point of contact or anchorage.
4. Scaffolding may not be attached to the building without written authorization from the Director’s Representative.

C. Temporary Shoring Drawings: Submit shoring erection drawings that have been designed, reviewed, and stamped by Professional Engineer legally qualified to practice in New York State.

1. Director's Representative shall review shoring drawings for potential adverse impact on historic building fabric only.
2. Compliance with life-safety and structural requirements remains the responsibility of the Contractor.
3. Show locations of temporary shoring and points of temporary shoring in contact with building. Include details of each point of contact or anchorage.
4. Temporary shoring may not be attached to the building without written authorization from Director's Representative.

D. Product data for all products to be used for temporary construction and protection.

E. Shop drawings for temporary enclosed walkway and access points showing plans, elevations, and details for all attachment points at existing construction. Provide doors and hardware submittals according to Section 087100 "Finish Hardware." Include submittals for electrical and security systems.

## 1.05 QUALITY ASSURANCE

A. Fire-Prevention Plan: Prepare a written plan for preventing fires during the Work, including placement of fire extinguishers, fire blankets, rag buckets, and other fire-control devices during each phase or process. Coordinate plan with existing fire-protection equipment and State requirements. Include fire-watch personnel's training, duties, and authority to enforce fire safety.

## 1.06 TEMPORARY SHORING

A. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

1. Strength or add new supports when required during progress of selective removals and salvaging.

## 1.07 TEMPORARY LIGHT AND POWER

A. Electric energy will be made available without charge, at source or sources directed, for lighting and for power tools. Power supply for motors rated in excess of 1/2 hp will be made available within the limits of the existing circuitry and usage.

B. Provide temporary lighting as required to maintain a minimum of 10 foot candles in the work areas.

C. Provide ground-fault protection for personnel (such as portable plug-in type ground-fault circuit-interrupters) on single phase 15 and 20 ampere receptacle outlets which are in use.

D. Receptacle outlets and portable cord connectors shall have standard NEMA configuration.

E. Provide temporary wiring and equipment in conformance with the National Electrical Code.

## 1.08 TEMPORARY WATER

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

1. Make arrangements and pay for water for temporary service if amount of water required exceeds capacity of source above.
2. Prevent waste of water.

## 1.09 TEMPORARY TOILETS

A. Provide temporary toilet facilities for Contractor's and subcontractors employees engaged on the project. Locate toilets where directed and maintain them in a sanitary condition.

| NUMBER OF EMPLOYEES | MINIMUM NUMBER OF FACILITIES* |
|---|---|
| 20 or less | 1 toilet |
| 20 or more | 1 toilet and 1 urinal per 40 employees |
| 200 or more | 1 toilet and 1 urinal per 50 employees |

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

1. Where water and sewer connections are available, provide water closets. Where connections are unavailable, provide approved chemical or electric toilets.
2. Locate toilet facilities no more than 1000 feet from any work location.

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

## 1.10 BARRIERS AND ENCLOSURES

A. Provide barriers during performance of the Work to:

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

B. Temporary Partitions: Provide temporary partitions to form fire-resistive barriers between work areas and areas occupied by State personnel.

1. Construct the partitions of 3-5/8 inch width steel framing or 2 x 4 wood framing, with 5/8 inch thick Type X (ASTM C36) gypsum board on public-facing sides of partitions. Provide fire-retardant plywood sheathing below GWB at public facing side. Secure the partitions in place without damaging existing construction. Seal joints on the public-facing side with joint tape and compound with a Level 4 finish.
2. Provide 18-gauge flush steel doors, and steel door frames. Equip doors with full mortise hinges and lockset. Integrate doors into existing card access control system.
3. Paint all visible surfaces of temporary partitions. Colors to be selected by the Director's Representative.
4. Provide 4" high, 1/8" thick rubber/vinyl composition wall base at public-facing side of temporary partitions. Colors shall be selected by the Director's Representative.

C. Temporary Dust Barriers: Provide temporary dust barriers to prevent the spread of dust from the work areas. Construct the dust barriers of wood framing, sheathed with 6 mil polyethylene film. Secure the dust barriers in place without damaging existing construction.

1. Provide tack mats at all entrances to finished construction.

## 1.11 TEMPORARY FENCE ENCLOSURE

A. Scaffolding, Hoist, and Equipment Enclosures: Provide temporary fence enclosures as required to prevent unauthorized persons from coming in contact with ground supported scaffolding, hoists, and equipment.

B. Temporary Fence: Provide temporary fence not less than 8 feet in height above grade.

C. Fabric: #9 gauge galvanized steel, or equal gauge aluminum, woven together into 2 inch diamond mesh, with both top and bottom edges having a twisted and barbed finish.

D. Posts, Rails, and Connections: Standard galvanized steel products of an approved manufacturer, of the size and types as required and approved. Provide top and bottom rails between all posts secured with bolted connections.

E. Gates: Provide access gates for passage of employees and materials, complete with padlock. Fabricate gates with galvanized steel pipe perimeter covered with same fabric specified for fence. Furnish the Director's Representative with 2 keys per gate.

F. Erection: Set posts 4 feet into the ground and not more than 10 feet apart. Install bottom rail not more than 2 inches above existing grade. Pull fabric taut and wire tightly to posts and rails at not more than 2 feet on center.

## 1.12 PROTECTION OF WORK AND EXISTING PROPERTY

A. General: Protect installed Work and existing construction and finishes during performance of the Work.

1. Maintain the building in a watertight condition during performance of the Work.
2. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
3. Provide protective coverings at wall projections, jambs, sills, and soffits of openings.
4. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, and movement of heavy objects by covering them with durable sheet materials.

B. Existing Fire Protection System: Protect smoke detectors from airborne dust and debris.

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

C. Existing Roofing: Prior to the start of work in an area adjacent to roofing, install roofing protection.

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

D. Existing Drains: Prior to the start of work in an area, test drainage system to ensure that it is functioning properly. Notify Director's Representative immediately of inadequate drainage or blockage. Do not begin work in an area until the drainage system is functioning properly.

1. Prevent solids such as stone or mortar residue or other debris from entering the drainage system. Clean out drains and drain lines that become sluggish or blocked by sand or other materials.
2. Protect drains from pollutants. Block drains or filter out sediments, allowing only clean water to pass.
3. Do not wash tools in sinks or other sanitary drainage systems. Protect all drainage systems from debris that can clog or damage piping and fixtures.
4. Dispose of excess cementitious and other insoluble debris with the other construction waste.

E. Existing Trees and Plants: Protect existing trees and plants during performance of the Work unless otherwise indicated. Box trees and plants within the project limit lines. Do not deposit excavated materials or store building materials around trees or plants. Do not attach guy wires to trees.

1. Protect lawn and other planted areas within construction operations area for use as storage for salvaged materials.
2. Restore all lawn and planted areas at completion of Work.

## 1.13 SECURITY

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

B. Facility Key Regulations:

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

C. Identification Cards: Director's Representative will provide ID cards for personnel engaged in work within the main Capitol Building.

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

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

F. Remove all tools and materials from occupied work areas when the work areas are not attended by employees and at the end of each work day. Store tools in a locked tool box, cabinet, or shed. Store materials where directed in a location secure from public access.

## 1.14 WATER CONTROLS

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

## 1.15 FIRE PREVENTION

A. Take precautions necessary to prevent fires. Follow fire-prevention plan and the following:

1. Comply with NFPA 241 requirements unless otherwise indicated.
2. Remove and keep area free of combustibles, including rubbish, paper, waste, and chemicals unless necessary for the immediate work.

    a. If combustible material cannot be removed, provide fire blankets to cover such materials.

3. Prohibit smoking and vaping by all persons within Project work and staging areas.

B. Furnish and maintain a currently inspected 20 pound capacity multi-class A B C fire extinguisher in the immediate vicinity where welding tools or torches are in use.

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

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

E. Heat-Generating Equipment and Combustible Materials: Comply with the following procedures while performing work with heat-generating equipment or combustible materials, including welding, torch-cutting, soldering, or other operations where implements using high heat or combustible solvents and chemicals are anticipated:

1. Obtain written approval from Director's Representative for operations involving use of welding or other high-heat equipment. Notify Director's Representative at least 72 hours before each occurrence, indicating location of such work.

    a. Use of open-flame equipment is not permitted.

2. As far as practicable, restrict heat-generating equipment to shop areas or in lay-down areas outside of the building.
3. Do not perform work with heat-generating equipment in or near rooms or in areas where flammable liquids or explosive vapors are present or thought to be present. Use a combustible gas indicator test to ensure that area is safe.
4. Use fireproof baffles to prevent flames, sparks, hot gases, or other high-temperature material from reaching surrounding combustible material.
5. Prevent the spread of sparks and particles of hot metal through open windows, doors, holes, and cracks in floors, walls, ceilings, roofs, and other openings.

F. Fire Watch: Before working with heat-generating equipment or combustible materials, station personnel to serve as a fire watch at each location where such work is performed. Fire-watch personnel shall have the authority to enforce fire safety. Station fire watch according to NFPA 51B, NFPA 241, and as follows:

1. Train each fire watch in proper operation of fire-control equipment and alarms.
2. Prohibit fire-watch personnel from other work that would distract from fire-watch duties.
3. Cease work with heat-generating equipment whenever fire-watch personnel are not present.
4. Have fire-watch personnel perform final fire-safety inspection each day beginning no sooner than 30 minutes after conclusion of work in each area to detect hidden or smoldering fires and to ensure that proper fire prevention is maintained.
5. Maintain fire-watch personnel at each area of Project site until 60 minutes after conclusion of daily work.

G. Paint Removal Devices: The use of open flame devices, heat plates, and hot air guns to remove paint shall be prohibited.

H. Fire-Control Devices: Provide and maintain fire extinguishers, fire blankets, and rag buckets for disposal of rags with combustible liquids. Maintain each as suitable for type of fire risk in each work area. Ensure that nearby personnel and fire-watch personnel are trained in fire-extinguisher and blanket use.

I. Sprinklers: Where sprinkler protection exists and is functional, maintain it without interruption while operations are being performed. If operations are performed close to sprinklers, shield them temporarily with guards.

1. Remove temporary guards at the end of work shifts, whenever operations are paused, and when nearby work is complete.

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

1. Post signage “Caution: Hot Work In Progress - Stay Clear” in conspicuous locations warning others before they enter a hot work area where the area is accessible to persons other than the operator of the hot work equipment.
2. See applicable facility permits and conditions bound in the Appendix.

## 1.16 TEMPORARY FIRE PROTECTION

A. If the existing building is to be occupied during the course of the project, all existing exits, fire walls, fire barriers and fire protection systems shall be

continuously maintained in the occupied phases in compliance with the Fire Code of New York State. Comply with NFPA 241 for items not specifically addressed in the Fire Code of New York State.

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

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

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

## 1.17 PROTECTION DURING APPLICATION OF CHEMICALS AND ABRASIVE CLEANING

A. Protect motor vehicles, surrounding surfaces of building being restored, building site, plants, and surrounding buildings from harm or spillage resulting from applications of chemicals and abrasives.

B. Cover adjacent surfaces with protective materials that are proven to resist agents selected for Project unless the materials being used will not damage adjacent surfaces as indicated in historic treatment program. Use covering materials and masking agents that are waterproof and UV resistant and that will not stain or leave residue on surfaces to which they are applied. Apply protective materials according to manufacturer's written instructions. Do not apply liquid masking agents or adhesives to any surfaces without prior written approval of Director's Representative. When no longer needed, promptly remove protective materials.

C. Do not apply chemicals or abrasives during winds of sufficient force to spread them to unprotected surfaces.

D. Neutralize alkaline and acid wastes and legally dispose of off State property.

E. Collect and dispose of runoff from chemical operations and abrasives by legal means and in a manner that prevents soil contamination, soil erosion, undermining of paving and foundations, damage to landscaping, or water penetration into building interior.

## 1.18 ACCESS ROADS

A. Routes of ingress and egress on the premises to the location of the Work shall be as directed. Provide temporary paving or road base as required to support vehicles serving construction.

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

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

D. Repair all damage to existing paving at completion of the Work.

## 1.19 PARKING

A. No parking will be allowed at the site, except for vehicles delivering material and equipment while they are being unloaded.

## 1.20 RUBBISH REMOVAL

A. Clean up and containerize the rubbish (refuse, debris, waste materials, and removed materials and equipment) resulting from the Work at the end of each work day and leave work areas broom clean, except where more stringent cleaning is specified. Locate containerized rubbish where directed.

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

C. Burning of rubbish will not be permitted.

## 1.21 RELOCATION AND REMOVALS

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

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

## PART 2 PRODUCTS (Not Used)

## PART 3 EXECUTION (Not Used)

**END OF SECTION**

# SECTION 040322

# HISTORIC BRICK UNIT MASONRY REPAIR AND REPOINTING

## PART 1 GENERAL

### 1.01 SUMMARY

A. Section includes historic treatment work consisting of repairing and repointing historic clay brick masonry assemblies and paving as follows:
   1. Removing brick unit masonry.
   2. Replacing brick unit masonry.
   3. Removing and replacing backup brick unit masonry.
   4. Repointing brick unit masonry.
   5. Painting steel uncovered during the work.
   6. Providing new brick unit masonry to match existing.

### 1.02 RELATED WORK SPECIFIED ELSEWHERE

A. Historic Treatment Procedures: Section 013591.

B. Selective Removals and Salvaging: Section 024297.

C. Mortar: Section 040513.

D. Historic Stone Masonry Repair and Repointing: Section 040342.

E. Sheet Metal Flashing and Trim: Section 076200.

F. High-Performance Coatings: Section 099600.

### 1.03 DEFINITIONS

A. Low-Pressure Spray:
   1. Pressure: 100 to 400 psi.
   2. Flow Rate: 4 to 6 gpm.

B. Cores: Holes in brick units measuring less than or equal to 1-1/2 square inches in cross-sectional area.

C. Frogs: Depressions in brick located on a bedding face of a brick unit.

D. Saturation Coefficient: Ratio of the weight of water absorbed during immersion in cold water to weight absorbed during immersion in boiling water; used as an indication of resistance of bricks to freezing and thawing.

## 1.04 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
   1. Review minutes of Preliminary Historic Treatment Conference that pertain to brick masonry historic treatment including repair and repointing.
   2. Review methods and procedures related to repairing and repointing historic brick masonry, including, but not limited to, the following:
      a. Historic treatment specialist's personnel, equipment, and facilities needed to make progress and avoid delays.
      b. Materials, material application, sequencing, tolerances, and required clearances.
      c. Quality-control program.
      d. Fire-protection plan.
      e. Brick masonry historic treatment program.
      f. Coordination with building occupants.

## 1.05 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
   2. Include written recommendations for product application and use.
   3. Include test data substantiating that products comply with requirements.

B. Brick Masonry Shop Drawings:
   1. Include plans, elevations, sections, and locations of brick masonry repair and repointing work on the structure.
   2. Show provisions for expansion joints or other sealant joints.
   3. Show provisions for flashing, conduits, and weep holes as required.

C. Samples: For the following:
   1. Mortar: Refer to Section 040513 “Mortar” for mortar sample requirements.
   2. Brick matching existing in color and texture. Match existing size when installed in existing construction.

D. Brick masonry historic treatment program.

E. Qualification Data: For brick masonry historic treatment specialist including field supervisors and workers.

## 1.06 INFORMATIONAL SUBMITTALS

A. Quality-control program.

## 1.07 QUALITY ASSURANCE

A. Brick Masonry Historic Treatment Specialist Qualifications: A qualified historic brick repair and repointing specialist. Work must be performed by a contractor having not less

than five years of successful experience in comparable restoration trades on at least three buildings listed, or eligible to be listed, in the National Register of Historic Places under the review of federal and/or state historic preservation agencies in the last five years, and employing personnel skilled in the restoration processes and operations indicated.

1. Field Supervisor Qualifications: Experienced full-time supervisor on Project site during times that brick repair and repointing work is in progress. Supervisors shall not be changed during Project without written notice to Director's Representative and written acceptance of change by Director's Representative.
2. Worker Qualifications: Skilled workers who are familiar and experienced in brick masonry repair and repointing of types they will be performing.
3. In acceptance or rejection of historic treatment work, no allowance will be made for lack of skill on the part of workers.
4. Experience installing standard unit masonry is insufficient experience for historic treatment work.

B. Quality-Control Program: Prepare a written quality-control program for this Project to systematically demonstrate the ability of personnel to properly follow methods and use materials and tools without damaging masonry. Include provisions for supervising worker performance and preventing damage.

C. Brick Masonry Historic Treatment Program: Prepare a written, detailed description of materials, methods, equipment, and sequence of operations to be used for each phase of historic treatment work.

1. Brick Masonry Historic Treatment Program should include, but not be limited to, methods describing the following:
    a. Protection of surrounding materials and Project site.
    b. Removing and salvaging brick.
    c. Cleaning brick of residual mortar and preparing salvaged brick for reuse.
    d. Toothing in brick.
    e. Rebuilding brick assemblies with mortar.
    f. Replacing brick in small areas and in paving.
    g. Removing plant growth.
    h. Inspecting brickwork for open mortar joints and permanently or temporarily pointing them before cleaning to prevent the intrusion of water and other cleaning materials into the wall.
    i. Raking out mortar from joints surrounding brick to be replaced and from joints adjacent to brick repairs along joints.
    j. Pointing with mortar.
    k. Keeping exposed mortar damp during curing period.
    l. After repairs and repointing have been completed and cured, performing a final rinsing to remove residues from this work.
    m. If materials and methods other than those indicated are proposed for any phase of historic treatment work, add to the quality-control program a written description of such materials and methods, including evidence of successful use on comparable projects, and demonstrations to show their effectiveness for this Project.

D. Mockups: Prepare mockups of historic treatment to demonstrate aesthetic effects and to set quality standards for materials and execution and for fabrication and installation.

1. Masonry Repair: Prepare mockups for each type of masonry repair work to be performed. If not otherwise indicated, size each mockup not smaller than two

adjacent whole units or approximately 48 inches in least dimension. Construct mockups in locations in existing walls where directed by Director's Representative unless otherwise indicated. Demonstrate quality of materials, workmanship, and blending with existing work. Include the following as a minimum:

a. Opening Enlargement: Salvage brick for reuse at one opening indicated to be enlarged.
b. Toothed Edges:
    1) Cut out and install salvaged brick at sides of one enlarged opening.
    2) Cut out and install new matching brick at sides of one enlarged opening.
c. Rebuilding Assembly: Provide matching brick for one assembly indicated to be rebuilt.
d. Brick Repointing: Rake out joints in two separate areas indicated to be repointed, approximately 36 inches high by 48 inches wide. Repoint one of the areas.

2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Director's Representative specifically approves such deviations in writing.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

## 1.08 DELIVERY, STORAGE, AND HANDLING

A. Deliver bricks to Project site strapped together in suitable packs or pallets or in heavy-duty cartons and protected against impact and chipping.

B. Handle bricks to prevent overstressing, chipping, defacement, and other damage.

C. Refer to Section 040513 "Mortar" for delivery, storage, and handling requirements for mortar materials.

## 1.09 FIELD CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit repair work to be performed according to product manufacturers' written instructions and specified requirements.

B. Temperature Limits: Repair and repoint brick masonry only when air temperature is between 40 and 90 deg F and is predicted to remain so for at least seven days after completion of the Work unless otherwise indicated.

# PART 2 PRODUCTS

## 2.01 MASONRY MATERIALS

A. Building Brick: ASTM C62, solid without frogging or coring, of same vertical dimension as face brick, for masonry work concealed from view.

1. Grade SW where in contact with earth.
2. Grade SW or Grade MW for concealed backup.

## 2.02 MORTAR MATERIALS

A. Refer to Section 040513 “Mortar” for materials and mortar mix.

B. Water: ASTM C270, potable.

## 2.03 ACCESSORY MATERIALS

A. Setting Buttons and Shims: Resilient plastic, non-staining to masonry, sized to suit joint thicknesses and bed depths of bricks, less the required depth of pointing materials unless removed before pointing.

B. Masking Tape: Non-staining, nonabsorbent material; compatible with mortar, joint primers, sealants, and surfaces adjacent to joints; and that easily comes off entirely, including adhesive.

C. Antirust Coating: As indicated in Section 099600 “High-Performance Coatings.”
   1. Surface Preparation: Use coating requiring no better than SSPC-SP 3, "Power Tool Cleaning," surface preparation according to manufacturer's literature or certified statement.

D. Water: Clean, potable.

E. Other Products: Select materials and methods of use based on the following, subject to approval of a mockup:
   1. Previous effectiveness in performing the work involved.
   2. Minimal possibility of damaging exposed surfaces.
   3. Consistency of each application.
   4. Uniformity of the resulting overall appearance.
   5. Do not use products or tools that could do the following:
      a. Remove, alter, or harm the present condition or future preservation of existing surfaces, including surrounding surfaces not in Contract.
      b. Leave residue on surfaces.

## 2.04 MORTAR MIXES

A. Refer to Section 040513 “Mortar” for mortar mixes.

# PART 3 EXECUTION

## 3.01 PROTECTION

A. Prevent mortar from staining face of surrounding masonry and other surfaces.
   1. Protect sills, ledges, and other projecting elements from mortar droppings.

2. Keep wall area wet adjacent to repointing and repair work to discourage mortar from adhering.
3. Immediately remove mortar splatters in contact with exposed masonry and other surfaces.

B. Provide temporary rain drainage during work to direct water away from building.

## 3.02 MASONRY REPAIR AND REPOINTING, GENERAL

A. Have repair and repointing work performed only by a qualified brick masonry historic treatment specialist.

B. Repair and Repointing Appearance Standard: Repaired and repointed surfaces are to have a uniform appearance as viewed from 5 feet away by Director's Representative.

## 3.03 BRICK REMOVAL

A. Remove bricks at locations indicated. Carefully remove entire units from joint to joint, without damaging surrounding masonry, in a manner that permits replacement with full-size units.
1. When removing single bricks, remove material from center of brick and work toward outside edges.

B. Support and protect remaining masonry that surrounds removal area.

C. Maintain flashing, reinforcement, lintels, and adjoining construction in an undamaged condition. Coordinate with new flashing, reinforcement, and lintels, which are specified in other Sections.

D. Notify Director's Representative of unforeseen detrimental conditions, including voids, cracks, bulges, loose masonry units in existing backup, rotted wood, rusted metal, and other deteriorated items.

E. Undamaged whole bricks may be salvaged for reinstallation.
1. For brick intended to be reused, remove mortar, loose particles, and soil from brick by cleaning with hand chisels, brushes, and water. Remove sealants by cutting close to brick with utility knife and cleaning with solvents.
2. Store brick for reuse. Store off ground, on skids, and protected from weather.

F. Clean masonry surrounding removal areas by removing mortar, dust, and loose particles in preparation for brick replacement.

## 3.04 BRICK REPLACEMENT

A. Install replacement brick into bonding and coursing pattern of existing brick. If cutting is required, use a motor-driven saw designed to cut masonry with clean, sharp, unchipped edges.
1. Maintain joint width for replacement units to match existing joints.
2. Use setting buttons or shims to set units accurately spaced with uniform joints.

B. Lay replacement brick with bedding mortar and with completely filled bed, head, and collar joints. Butter ends with sufficient mortar to fill head joints and shove into place. Wet both replacement and surrounding bricks. Use wetting methods that ensure that units are nearly saturated but surface is dry when laid.
   1. Tool exposed mortar joints in repaired areas to match joints of surrounding existing brickwork.
   2. When mortar is hard enough to support units, remove shims and other devices interfering with pointing of joints.

C. Curing: Cure mortar by maintaining in thoroughly damp condition for at least 72 consecutive hours, including weekends and holidays.
   1. Hairline cracking within the mortar or mortar separation at edge of a joint is unacceptable. Completely remove such mortar and repoint.

## 3.05 BACKUP MASONRY REMOVAL AND REPLACEMENT

A. Where backup masonry is fractured or unstable and at locations indicated, remove mortar and masonry units that are broken or deteriorated and rebuild with whole, new brick or whole salvaged backup masonry units. Carefully remove entire units from joint to joint, without damaging surrounding masonry, in a manner that permits replacement with full-size units.

B. Support and protect remaining masonry that surrounds removal area.

C. Maintain flashing, reinforcement, anchors, lintels, and adjoining construction in an undamaged condition. Coordinate with new flashing, reinforcement, and lintels, which are specified in other Sections.

D. Notify Director's Representative of unforeseen detrimental conditions, including voids, cracks, bulges, loose masonry units beyond the removal area, rotted wood, rusted metal, and other deteriorated items.

E. Whole, unbroken bricks may be salvaged for reinstallation.
   1. For brick to be reused, remove mortar, loose particles, and soil from brick by cleaning with hand chisels, brushes, and water. Remove sealants by cutting close to brick with utility knife and cleaning with solvents.
   2. Store brick for reuse. Store off ground, on skids, and protected from weather.

F. Clean masonry surrounding removal areas by removing mortar, dust, and loose particles in preparation for brick replacement.

G. Replace removed damaged brick with salvaged backup brick in good condition or with new building brick matching existing backup brick. Do not use broken units unless they can be cut to usable size.

H. Install replacement brick into bonding and coursing pattern of existing brick. If cutting is required, use a motor-driven saw designed to cut masonry with clean, sharp, unchipped edges.

I. Lay replacement brick with mortar and with completely filled bed, head, and collar joints. Butter ends with sufficient mortar to fill head joints and shove into place. Wet both replacement and surrounding bricks Use wetting methods that ensure that units are nearly saturated but surface is dry when laid.

J. Curing: Cure mortar by maintaining in thoroughly damp condition for at least 72 consecutive hours, including weekends and holidays.
   1. Hairline cracking within the mortar or mortar separation at edge of a joint is unacceptable. Completely remove such mortar and repoint.

## 3.06 REPOINTING BRICK UNIT MASONRY

A. Rake out and repoint all joints in areas indicated.

B. Do not rake out and repoint joints where not required.

C. Rake out joints as follows, according to procedures demonstrated in approved mockup:
   1. Remove mortar from joints to depth of 2-1/2 times joint width and not less than that required to expose sound, unweathered mortar. Do not remove unsound mortar more than 2 inches deep; consult Director's Representative for direction.
   2. Remove mortar from masonry surfaces within raked-out joints to provide reveals with square backs and to expose masonry for contact with pointing mortar. Brush, vacuum, or flush joints to remove dirt and loose debris.
   3. Do not spall edges of brick or widen joints. Replace damaged bricks as directed by Director's Representative.
      a. Cut out center of mortar bed joints using Arbortech Allsaw or equivalent grinding tool equipped with reciprocating blades. Remove remaining mortar in bed joints and mortar in head joints by hand with chisel and resilient mallet. Strictly adhere to procedures demonstrated in approved mockup.

D. Notify Director's Representative of unforeseen detrimental conditions, including voids in mortar joints, cracks, loose masonry units, rotted wood, rusted metal, and other deteriorated items.

E. Pointing with Mortar:
   1. Rinse joint surfaces with water to remove dust and mortar particles. Time rinsing application so, at time of pointing, joint surfaces are damp but free of standing water. If rinse water dries, dampen joint surfaces before pointing.
   2. Apply pointing mortar first to areas where existing mortar was removed to depths greater than surrounding areas. Apply in layers not greater than 3/8 inch until a uniform depth is formed. Fully compact each layer thoroughly and allow it to become thumbprint hard before applying next layer.
   3. After deep areas have been filled to same depth as remaining joints, point joints by placing mortar in layers not greater than 3/8 inch. Fully compact each layer and allow it to become thumbprint hard before applying next layer. Where existing brick have worn or rounded edges, slightly recess finished mortar surface below face of masonry to avoid widened joint faces. Take care not to spread mortar beyond joint edges onto exposed masonry surfaces or to featheredge the mortar.

4. When mortar is thumbprint hard, tool joints to match original appearance of joints as demonstrated in approved mockup. Remove all excess mortar from edge of joint.
5. Cure mortar by maintaining in thoroughly damp condition for at least 72 consecutive hours, including weekends and holidays.
    a. Acceptable curing methods include covering with wet burlap and plastic sheeting, periodic hand misting, and periodic mist spraying using system of pipes, mist heads, and timers.
    b. Adjust curing methods to ensure that pointing mortar is damp throughout its depth without eroding surface mortar.
6. Hairline cracking within the mortar or mortar separation at edge of a joint is unacceptable. Remove mortar and repoint.

F. Where repointing work precedes cleaning of existing masonry, allow mortar to harden at least 30 days before beginning cleaning work.

## 3.07 PAINTING STEEL UNCOVERED DURING THE WORK

A. Notify Director's Representative if steel is exposed during masonry removal. Where Director's Representative determines that steel is structural, or for other reasons cannot be totally removed, prepare and paint it as follows:
1. Surface Preparation: Remove paint, rust, and other contaminants according to SSPC-SP 3, "Power Tool Cleaning," as applicable to comply with paint manufacturer's recommended preparation.
2. Antirust Coating: Immediately paint exposed steel with two coats of antirust coating, following coating manufacturer's written instructions and without exceeding manufacturer's recommended rate of application (dry film thickness per coat).

B. If on inspection and rust removal, the thickness of a steel member is found to be reduced from rust by more than 1/16 inch, notify Director's Representative before proceeding.

## 3.08 FINAL CLEANING

A. After mortar has fully hardened, thoroughly rinse exposed masonry surfaces with water only to remove excess mortar and foreign matter; use wood scrapers, stiff-nylon or -fiber brushes, and clean water, applied by low-pressure spray.
1. Do not use metal scrapers or brushes.
2. Do not use acidic or alkaline cleaners.

B. Rinse adjacent non-masonry surfaces with water only. Use potable water and soft brushes or cloths.

C. Rinse mortar and debris from roof; remove debris from gutters and downspouts. Rinse off roof and flush gutters and downspouts.

D. Remove masking materials, leaving no residues that could trap dirt.

## 3.09 FIELD QUALITY CONTROL

A. Notify Director's Representative in advance of times when lift devices and scaffolding will be relocated. Do not relocate lift devices and scaffolding until Director's Representative has had reasonable opportunity to make inspections and observations of work areas at lift device or scaffold location.

## 3.10 MASONRY-WASTE DISPOSAL

A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property.

B. Masonry Waste: Remove masonry waste and legally dispose of off Government’s property.

**END OF SECTION**

# SECTION 040323

# BRICK MASONRY VAULTS

## PART 1 GENERAL

### 1.01 GENERAL REQUIREMENTS

A. Work of this section, as shown or specified, shall be in accordance with the requirements of the contract documents.

B. All work shall comply with the provisions of the *New York State Building Code*.

### 1.02 SUMMARY

A. Section includes reconstruction of historic brick masonry vaults.

### 1.03 RELATED WORK SPECIFIED ELSEWHERE

A. Cast In Place Concrete: Section 033000.

B. Historic Brick Unit Masonry Repair and Repointing: Section 040322

C. Structural Steel: Section 051200

D. Metal Fabrications: Section 055000

### 1.04 DEFINITIIONS

A. Centering: Temporary structure built from lumber, timber, panels or sheet materials (i.e., plywood, Masonite, etc.) and/or steel for temporary support of brick masonry vaults.

B. Contractor's Engineer: A structural engineer licensed in the State of New York, retained by the Contractor, to complete drawings and calculations for the following:
   1. Temporary Structure for support of the work of this section.
   2. Proposed Alterations to the work specified in the Contract Documents.

C. Cores: Holes in brick units measuring less than or equal to 1-1/2 square inches in cross-sectional areas.

D. Form-Work: Devices fabricated from lumber, panels or sheet materials, and/or steel and used during construction for managing consistency of the geometry of brick masonry vaults

E. Frogs: Depressions in brick located on bedding face of a brick unit.

F. Saturation Coefficient: Ratio of the weight of water absorbed during immersion in cold water to weight absorbed during immersion in boiling water; used as an indication of resistance of bricks to freezing and thawing.

## 1.05 PREINSTALLATION MEETINGS

A. Preinstallation Conference:
   1. Coordinate masonry work of this section with work of Section 040322.
   2. Conduct conference at Project site for Centering and Form-Work.

## 1.06 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
   2. Include written recommendations for product application and use.
   3. Include test data substantiating that products comply with requirements.

B. Brick Masonry Vault Shop Drawings:
   1. Include plans, elevations, sections, and locations of each combination of vault span and supporting beam size.
   2. Show provisions for intersections with existing masonry walls at perimeter of the structure.

C. Brick Masonry Vault Centering and Form-Work Shop Drawings:
   1. Include plans, elevations, sections, and locations (drawings) of centering and form-work to be used for temporary support during construction of each combination of vault span and supporting beam size. Drawings to be signed and sealed by the Contractor's Engineer. Drawings to be accompanied by signed and sealed calculations for the work depicted in the drawings.
   2. Show provisions for intersections with existing masonry walls at perimeter of the structure.

D. Samples for the following:
   1. Brick for use in construction of the brick masonry vaults.
   2. Mortar: Refer to Section 040513 "Mortar" for mortar sample requirements.

E. Qualification Data: See Section 040322 "Historic Brick Unit Masonry Repair and Repointing" for additional direction. Supervisors, mechanics, and laborers for repairs of existing masonry and reconstruction of brick masonry vaults must be a single, consistent team.

## 1.07 INFORMATIONAL SUBMITTALS

A. Quality-control program, coordinated with Section 040322 "Historic Brick Unit Masonry Repair and Repointing"

## 1.08 QUALITY ASSURANCE

A. Brick Masonry Specialist Qualifications: A qualified historic brick masonry specialist. Work must be performed by a contractor having not less than five years of successful experience in comparable trades for repair, restoration, and/or reconstruction on at least three buildings listed, or eligible to be listed, in the National Register of Historic Places under the review of federal and/or state historic preservation agencies in the last five years, and employing personnel skilled in the reconstruction of historic masonry processes and operations indicated.

1. Field Supervisor Qualifications: Experienced full-time supervisor on Project site during times that brick reconstruction work is in progress. Supervisors shall not be changed during Project without written notice to Director's Representative and written acceptance of change by Director's Representative.
2. Worker Qualifications: Skilled workers who are familiar and experienced in brick masonry vault construction and/or reconstruction of types they will be performing.
3. In acceptance or rejection of reconstruction of brick masonry vaults, no allowance will be made for lack of skill on the part of workers.
4. Experience installing standard unit masonry is insufficient experience for historic treatment work.

B. Quality-Control Program: Prepare a written quality-control program for this Project to systematically demonstrate the ability of personnel to properly follow methods and use materials and tools. Include provisions for supervising worker performance and preventing damage.

C. Mockups of Centering and Form-Work: Prepare mockups of centering and formwork for each combination of vault span and supporting beam size for reconstructed brick masonry vaults to set quality standards for materials and execution and for fabrication and installation.

D. Mockups of Brick Masonry Vaults: Prepare mockups of each combination of vault span and supporting beam size for reconstructed brick masonry vaults to demonstrate aesthetic effects and to set quality standards for materials and execution and for fabrication and installation.

1. Brick Masonry Vault: Prepare mockups for full span between supporting beams and 4'-0" long. Construct mockups in locations where directed by Director's Representative unless otherwise indicated. Demonstrate quality of materials, workmanship, and blending with existing work. Include the following as a minimum:
   a. Appearance of the bottom side or intrados of the vault.
   b. Construction of individual rings of the vault and offsets of masonry from ring to ring
   c. Brick fill at beams and channels where vaults terminate at steel support and/restraining structure.
   d. Placement and concealment of tie rods.
2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Director's Representative specifically approves such deviations in writing.
3. Subject to compliance with requirements, approved mockups may become

part of the completed Work if undisturbed at time of Substantial Completion.

E. Fire Performance Characteristics: Where indicated, provide materials and construction which are identical to those of assemblies whose fire endurance has been determined by testing in compliance with ASTM E 119 by a recognized testing and inspecting organization or by another means, as acceptable to authority having jurisdiction.

F. Single Source Responsibility for Masonry Materials: Obtain masonry units of uniform quality from one manufacturer for each different product required for each use.

G. Single Source Responsibility for Mortar Materials: Obtain mortar ingredients of uniform quality from one manufacturer for each cementitious component and from one source and producer for each aggregate.

H. Masonry Preconstruction Testing Service: Employ and pay for the services of a testing laboratory acceptable to Engineer and experienced in performing types of preconstruction masonry tests indicated. This laboratory is to work under the direction of the Department of General Services inspector.
1. Engage a testing laboratory complying with ASTM E 329.
2. Preconstruction Tests by Unit Test Methods: Test the following materials by methods indicated.
3. Brick: Test each type and grade of brick per ASTM C 67. If coefficient of variation of compression samples tested exceeds 12%, obtain compressive strength by multiplying average compressive strength by (1 - 1.5) x [(0.01 x coefficient of variation) - 0.12].
4. Mortar Tests: Test each mortar type per ASTM C 780.

## 1.09 DELIVERY, STORAGE, AND HANDLING

A. Deliver masonry materials to project in undamaged condition.

B. Store and handle masonry units to prevent their deterioration or damage due to moisture, temperature changes, contaminants, corrosion or other causes.
1. Store cementitious materials off the ground, under cover and in dry location.
2. Store aggregates where grading and other required characteristics can be maintained.
3. Store masonry accessories including metal items to prevent deterioration by corrosion and accumulation of dirt.

## 1.10 PROJECT CONDITIONS

A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit construction work to be performed according to product manufacturers' written instructions and specified requirements.

B. Temperature Limits: Construct brick masonry vaults only when air temperature is between 40 and 90 deg F and is predicted to remain so for at least seven (7) days after

completion of the Work unless otherwise indicated.

1. Do not lay masonry units which are wet or frozen.
2. Remove masonry damaged by freezing conditions.
3. Do not heat water for mortar and grout to above 160° F (71° C).

C. Protection of Work: During erection, cover top of vaults and adjacent walls with heavy waterproof sheeting at end of each day's work. Cover partially completed structures when work is not in progress.

D. Extend cover a minimum of 24 inches down both sides and hold cover securely in place.

E. Staining: Prevent grout or mortar or soil from staining the face of masonry to be left exposed. Remove immediately grout or mortar in contact with such masonry.

F. Protect existing and/or new sills, ledges and projections from drippings of mortar.

## PART 2 PRODUCTS

### 2.01 BRICK MADE FROM CLAY OR SHALE

A. General: Comply with referenced standards and other requirements indicated below applicable to each form of brick required.

1. Size: Provide bricks manufactured to the following actual dimensions:
   Standard Modular: 2-1/4" x 3-5/8" x 7-5/8"
   a. No cores
   b. No frogs
2. Building (Common) Brick: ASTM C 62, Grade SW.
   a. Color to match existing brick masonry in existing historic brick vaults.
   b. Texture to match existing brick masonry in existing historic brick vaults.

### 2.02 MORTAR MATERIALS

A. Portland Cement: ASTM C 150, Type I; white.

B. Hydrated Lime: ASTM C 207, Type S.

C. Aggregates for Mortar: ASTM C 144, except for joints less than 1/4" use aggregate graded with 100% passing the No. 16 sieve.

1. Match size, texture, and gradation of existing mortar sand as closely as possible. Blend several sands if necessary to achieve suitable match.
2. Color: Natural sand or ground marble, granite, or other sound stone of color necessary to produce required mortar color.
3. Provide sand with rounded edges.

D. Water: Clean, and potable.

## 2.03 ACCESSORY MATERIALS

A. Setting Buttons and Shims: Resilient plastic, non-staining to masonry, sized to suit joint thicknesses and bed depths of bricks, less the required depth of pointing materials unless removed before pointing.

B. Masking Tape: Non-staining, nonabsorbent material; compatible with mortar, joint primers, sealants, and surfaces adjacent to joints; and that easily comes off entirely, including adhesive.

## 2.04 MORTAR MIXES

A. General: Do not add admixtures including coloring pigments, air-entraining agents, accelerators, retarders, water repellent agents, anti-freeze compounds or other admixtures, unless otherwise indicated.
   1. Do not use calcium chloride in mortar or grout.

B. Mixing: Combine and thoroughly mix cementitious, water and aggregate in a mechanical batch mixer, comply with referenced ASTM standards for mixing time and water content.

C. Mortar for Unit Masonry: Comply with ASTM C 270, Proportion Specifications, for types of mortar required, unless otherwise indicated.
   1. Limit cementitious materials in mortar to Portland cement and lime.
   2. Use Type N mortar.

# PART 3 EXECUTION

## 3.01 INSTALLATION, GENERAL

A. Wetting Clay Brick: Wet brick made from clay or shale which have ASTM C67 initial rates of absorption (suction) of more than 30 grams per 30 sq. in. per minute. Use wetting methods that ensure each clay masonry unit being nearly saturated but surface dry when laid.

B. Thickness: Build masonry vaults to the full thickness shown.

C. Cut masonry units using motor-driven saws to provide clean, sharp, unchipped edges. Cut units as required to provide continuous pattern and to fit adjoining work. Use full-size units without cutting where possible.

## 3.02 CONSTRUCTION TOLERANCES

A. Variation from Plumb: Brick in vaults to be laid plumb. Check plumbness of brick as required to correct out of plumb conditions without exceeding tolerances for joint width.

B. Variation from Level: Bottom surface (intrados) of brick vaults to be set parallel with

flanges of steel beams supporting vaults. Top surface (extrados) of vault to be set level and not exceed 1/4" in any bay or 20'-0"maximum.

C. Variation in Cross-Sectional Dimensions: For vaults, from dimensions shown, do not exceed minus 1/4" or plus 1/2".

D. Variation in Mortar Joint Thickness: Do not exceed bed joint thickness indicated by more than plus or minus 1/8", with a maximum thickness limited to 3/8". Do not exceed head joint thickness indicated by more than plus or minus 1/8".

## 3.03 LAYING MASONRY VAULTS

A. Lay out vaults in advance for accurate spacing of surface bond patterns with uniform joint widths and to accurately locate opening, returns and offsets. Avoid the use of less-than-half-size units wherever possible.

B. Lay-up walls and columns to comply with specified construction tolerances, with courses accurately spaced and coordinated with other work.

C. Lay masonry in running bond with vertical joint in each course centered on units in courses above and below.

D. Stopping and Resuming Work: Rack back 1/2-unit length in each course, do not touch. Clean exposed surfaces of set masonry, wet units lightly (if required) and remove loose masonry units and mortar prior to laying fresh masonry.

E. Variation in Mortar Joint Thickness: Do not exceed bed joint thickness indicated by more than plus or minus 1/8", with a maximum thickness limited to 3/8". Do not exceed head joint thickness indicated by more than plus or minus 1/8".

## 3.04 MORTAR BEDDING AND JOINTS

A. Lay solid brick-size masonry units with completely filled bed and head joint; butter ends with sufficient mortar to fill head joints and shove into place. Do not slush head joints.

B. Maintain 3/8" joint width, except for minor variations required to maintain bond alignment.

C. Tool exposed joints slightly concave using a jointer larger than joint thickness, unless otherwise indicated.

D. Remove masonry units disturbed after laying; clean and reset in fresh mortar.

E. Collar Joints: As each course is laid, fill in vertical longitudinal joint (parallel to span of vault) between wythes solidly and with mortar for use following masonry work: After each ring of brick is laid and as part of processing of setting subsequent rings of brick, fill "horizontal joint" (i.e., joint between rings of brick) solid with mortar.

## 3.05 FINAL CLEANING

A. After mortar has fully hardened, thoroughly rinse exposed masonry surfaces with water only to remove excess mortar and foreign matter; use wood scrapers, stiff-nylon or -fiber brushes, and clean water, applied by low-pressure spray.
   1. Do not use metal scrapers or brushes.
   2. Do not use acidic or alkaline cleaners.

B. Rinse adjacent non-masonry surfaces with water only. Use potable water and soft brushes or cloths.

C. Rinse mortar and debris from roof; remove debris from gutters and downspouts. Rinse off roof and flush gutters and downspouts.

D. Remove masking materials, leaving no residues that could trap dirt.

## 3.06 FIELD QUALITY CONTROL

A. Notify Director's Representative in advance of times when lift devices and scaffolding will be relocated. Do not relocate lift devices and scaffolding until Director's Representative has had reasonable opportunity to make inspections and observations of work areas at lift device or scaffold location.

## 3.07 MASONRY-WASTE DISPOSAL

A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property.

B. Masonry Waste: Remove masonry waste and legally dispose of off Government’s property.

**END OF SECTION**

# SECTION 087100

# FINISH HARDWARE

## PART 1 GENERAL

### 1.01 SUMMARY

A. Section includes door and gate (finish) hardware.

### 1.02 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 of experience in finish hardware installation, and is qualified and responsible to ensure approved finish hardware is installed, adjusted, and operates properly.

### 1.03 COORDINATION

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

B. Security: Coordinate installation of finish hardware, keying, and access control with Director's Representative.

C. Existing Openings: Where hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field-verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide proper door operation.

## 1.04 PREINSTALLATION CONFERENCE

A. Preinstallation Conference: Before finish hardware installation begins, the Director's Representative will call a conference at the Project site to review Finish Hardware Specifications, approved Finish Hardware Submittals, and to discuss requirements for the Work including:
   1. Hardware delivery and storage.
   2. Hardware labeling by door number.
   3. Hardware locations.
   4. Potential location conflicts.
   5. Hardware installation sequence and responsibility.
   6. Required accessories and fasteners.
   7. Surface overhead stops and closer template and adjustments.
   8. Special tools and maintenance items.
   9. Hardware Closeout requirements.
   10. Hardware Warranties.

B. Preinstallation Conference Attendance: The Construction Contractor, Company Field Advisors, authorized Finish Hardware Installers, and the Finish Hardware Distributor's Architectural Hardware Consultant shall attend the conference. OGS's Finish Hardware Reviewer conducts the meeting. OGS designers and facility personnel may attend. The Company Field Advisors will present installation instruction and advice.

## 1.05 SUBMITTALS, GENERAL

A. Presubmittal Conference: Before Finish Hardware Submittals are written for submission, the Director's Representative will call a teleconference to review Finish Hardware Submittal requirements including but not limited to format, cover sheet, headings, hardware sets, level of detail, installation notes, description of operation, keying, and product data sheets. The Contractor, the Finish Hardware Distributor, the Finish Hardware Detailer, and consulting hardware designer, and OGS Designers shall attend. The OGS Finish Hardware Reviewer shall conduct the conference.

B. Submittal Package Cover Sheets: The Hardware Distributor shall provide a cover sheet, which identifies each package by:
   1. OGS project number.
   2. Project name.
   3. Facility name and location.
   4. Submittal Package name.
   5. Specification section name and number.
   6. Construction Contractor's company name, address, e-mail address, and telephone number.
   7. Finish Hardware Distributor's company name, address, e-mail address, and telephone number.
   8. Certified Architectural Hardware Consultant's name, company name, address, e-mail address, and telephone number.
   9. Submittal Date.

## 1.06 ACTION SUBMITTALS

A. Submittal Packages:

1. Quality Control Package: Do not submit balance of packages until this package is approved.

a. Architectural Hardware Consultant Data:
1) Provide name, business address, and telephone number of DHI certified Architectural Hardware Consultant.
2) Submit photocopy of Door and Hardware Institute's certificate demonstrating individual is an Architectural Hardware Consultant.

b. Company Field Advisor Data:
1) Provide name, business address, and telephone number of Company Field Advisor(s) for continuous hinges, door bolts, locksets, overhead stops, door closers, and gaskets.
2) List services and products for which company field advisor(s) is/are certified by manufacturer. Provide written certifications.

c. Hardware Distributor's Qualification Data:
1) Provide the Finish Hardware Distributor's company name, address, e-mail address, and telephone number.
2) Provide the hardware distributor's company history, including number of years in the hardware distribution business, the number of AHC's employed, and the number of employees. Describe the distributor's major market.
3) Include the names and contact information of physical plant managers for 3 facilities, similar to this project, for which the distributor has furnished architectural hardware within the past 2 years.

d. Supervisor's/Installer's Qualification Data:
1) Name of Supervisor and each installer performing Work, and employer's name, business address and telephone number.
2) Names and addresses, and contact information of physical plant managers for 3 facilities, similar to this project, on which each installer has worked on during past 2 years.

2. Finish Hardware Package:

a. Finish Hardware Schedule: Use vertical format and indicate finish hardware items, both mechanical and electrical in one document, required to complete Work of this section. Submit Hardware Schedule that includes complete hardware sets for each door and frame shown on Door Schedule.

1) Preface schedule with following:
a) Certified Architectural Hardware Consultant's statement of preparation of/or certification of, Finish Hardware Schedule.
b) Index.

c) List of manufacturers.
d) List of finishes.
e) Explanation of abbreviations.
f) Keying instructions and key schedule.

2) Create hardware groups, each group consisting of similar doors and hardware. Do not combine labeled and non-labeled openings. Do not combine doors and frames with dissimilar door sizes and/or materials.

3) For each opening include the following:
a) Door and frame materials and dimensions.
b) Fire rating.
c) Door number, location and handing.
d) Degree of opening required for closer and/or overhead stop.
e) Installation and detailing notes.

4) Under each group heading, list hardware items in detail, required for ordering. For each hardware item include:
a) Type (Hinges).
b) Quantity (Hinges 3ea).
c) Manufacturers' name (Hinges 3ea Stanley).
d) Catalog number (Hinges 3ea Stanley FBB199).
e) Size (Hinges 3ea Stanley FBB199 4 ½ x 4 ½ ).
f) Options or accessories (Hinges HTFBB199 4 ½ x 4 ½ ).
g) Finish (Hinges HTFBB199 4 ½ x 4 ½ x 630).
h) Fasteners (Hinges HTFBB199 4 ½ x 4 ½ x 630 x torx with center security pin).
i) Indicate location of protection plates: Push side or pull side.
j) Installation Notes, as written in this section, for each hardware group.

5) Use a separate hardware group in Hardware Schedule that lists attic stock hardware items, key cabinets, key control system, special tools required to install hardware, lubricants, and Operations and Maintenance Manuals.

b. Product Data: Furnish six copies of manufacturers' catalog sheets, specifications, sizing charts, and installation instructions, for each item specified. Highlight information pertaining specifically to product (s) submitted.

c. Submit samples as requested.

## 1.07 CLOSEOUT SUBMITTALS

A. Closeout Submittals Package: Submit as a complete package.

1. Operation and Maintenance Manuals: Furnish 2 hardcover three ring binders with the project name and number displayed on the front cover and spine. Include:

a. List of Manufacturers.

b. Approved Finish Hardware Schedule.
c. Approved Manufacturers' Product Data Sheets.
d. Manufacturer's operation, installation, maintenance, and repair instructions for each type of hardware furnished.
e. Templates for kind of hardware furnished.
f. Parts List for each type of finish hardware furnished.
g. Manufacturers' dated written warranty for each type of finish hardware furnished.
h. Certifications: Written certification from Company Field Advisors that their products are installed according to manufacturers' printed installation instructions, are operating properly, and manufacturers' written warranty will be in effect upon physical completion of the Work.
i. Special Tools: List of special tools required to install hardware, and their purpose.

2. Special Tools:
   a. At conclusion of finish hardware installation, turn over to Director's Representative 2 of each special tool required to install hardware together with a list of these tools and their purpose.

## 1.08 TEMPLATES

A. After receipt of approved submittals, furnish templates to affected trades, to enable fabricators to make provision for finish hardware without delaying the Work of the Project.

## 1.09 QUALITY ASSURANCE

A. Hardware Distributor's Qualification:

1. Hardware Distributor who has been in the business of furnishing, and/ or installing finish hardware for a minimum of three years.
2. Hardware Distributor shall have the DHI certified Architectural Hardware Consultant prepare or certify the Finish Hardware Submittal meets specified requirements, and the schedule is written accurately and in accordance with DHI recommendations, and requirements of this Specification.

B. Company Field Advisor Qualifications: Advisor(s) for door bolts, mortise locksets, door closers, and gaskets.

C. Installation Supervisor Qualifications: Qualified Installation Supervisor who will be responsible to ensure approved finished hardware is installed, adjusted and operates properly.

D. Installer Qualifications: Experienced finish hardware installers who have been regularly employed by a Company installing finish hardware for a minimum of 5 years.

## 1.10 DELIVERY AND STORAGE

A. Deliver hardware to the Project site in the manufacturers' original packages complete with fasteners, parts, installation instructions, and templates required for proper installation. Tag each item or package separately with identification coordinated with approved finish hardware schedule.

B. Inventory hardware on receipt and provide secure lockup for hardware delivered to Project site.

C. Store finish hardware where directed by Director's Representative. Provide locked, dry storage for finish hardware.

## 1.11 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:

B. Manufacturer's Warranty: Three year minimum for locksets.

## 1.12 MAINTENANCE MATERIALS

A. Special Tools: At the conclusion of finish hardware installation, turn over to Director's Representative two sets of each special tool required for proper installation and adjustment of hardware, together with a list of tools provided and their purpose.

B. Lubricants: Provide manufacturer's recommended lubricants for locksets in amount sufficient for one year of maintenance. Turn over to Director's Representative.

# PART 2 PRODUCTS

## 2.01 SOURCE LIMITATIONS

A. Obtain each type of finish hardware from single manufacturer.

## 2.02 KEYING

A. Keying System: Continue existing facility system.

## 2.03 FASTENERS

A. Provide fasteners that are compatible with finish hardware material and match hardware finish.

B. Provide torx center pin security fasteners for exposed hardware, including full mortise hinges.

C. Provide machine screws for hardware secured to metal; and machine screws and metal expansion shields for attachment to masonry substrates. Self-tapping or self-drilling screws are not acceptable.

D. Provide undercut shallow head torx center pin security fasteners where necessary for proper seating.

## 2.04 MATERIALS AND FINISHES

A. General: Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of finish hardware are indicated in this Article and in the Hardware Groups.

B. Locks, Latches and Bolts:

1. Comply with UL requirements for throw of bolts and latch bolts on rated fire openings.
2. Provide 3/4” minimum throw on other latch bolts.
3. Provide 1” minimum throw deadbolts.

C. Provide finishes complying with ANSI/BHMA A156.18 as indicated in door hardware schedule.

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

E. 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.

## 2.05 FINISH HARDWARE SCHEDULE

A. Group 1: N07 and S07 *North and South Basement Doors* (Type A)

1. (6) Hinges: ASSA ABLOY, Full Mortise – Ball Bearing Butt Hinges BH888, solid brass, 4 ball bearings, 4”W X 5”L, unlacquered brass finish
2. Knob and Cylindrical Lockset: Schlage/Allegion, A Series, Plymouth knob, Standard 2 9/16” rose, Classroom lock function, RH, wrought brass, unlacquered brass finish; Best core to match building standard.
3. (2) Manual flush bolts: William A. Kilian Hardware Co., 7” Flush Bolt with Round End, 5/8” diameter, 1” throw, 1 ½” X 5/8” strike, unlacquered brass
4. Weatherstripping: William A. Kilian Hardware Co., 1 3/8” Spring Bronze Weatherstrip
5. Door Sweep: William A. Kilian Hardware Co., Bronze and Neoprene Door Sweep 1 7/8”
6. Threshold: Pemko/ASSA ABLOY, Pemko Commercial Thresholds: Saddle Thresholds, 1710D, 5”W X ½”H, Bronze

B. Group 2: 104 *Steel Attic Door* (Type B)

1. Salvage and restore hinges OR (3) Hinges: Hager Companies, 1191, 3”X3”, brass, unlacquered finish.
2. Salvage and restore existing knob set.
3. Mortise lock: Schlage, L Series Grade 1 Mortise Lock, Mechanical, Single Cylinder Non-Deadbolt Function, L/LV9080 Storeroom lock function, Cylinder only (no escutcheon), bronze; Best core to match building standard.

C. Group 3: 52 *Promenade areaway crawlspace access door* (Type C)

1. Deadbolt: Schlage/Allegion, B500 Series, B560P Single Cylinder Deadbolt, unlacquered brass finish; Best core to match building standard.
2. Cylindrical Lever Set: Schlage/Allegion, ALX Series Cylindrical Locks, non-keyed function 10 Passage Latch function, Athens lever in unlacquered brass, LH

D. Group 4: 50 *Promenade areaway door into capitol* (Type E)

1. (6) Hinges: ASSA ABLOY, Full Mortise – Ball Bearing Butt Hinges BH888, solid brass, 4 ball bearings, 4”W X 5”L, unlacquered brass finish
2. Deadbolt: Schlage/Allegion, B500 Series, B560P Single Cylinder Deadbolt, unlacquered brass finish; Best core to match building standard.
3. Optional cylindrical lever set: Schlage/Allegion, A Series Cylindrical Locks, non-keyed function A10 Passage Latch function, Plymouth knob in unlacquered brass, LHR
4. Or lever (see crawlspace door lever)
5. (2) Manual flush bolts: William A. Kilian Hardware Co., 7” Flush Bolt with Round End, 5/8” diameter, 1” throw, 1 ½” X 5/8” strike, unlacquered brass
6. Weatherstripping: William A. Kilian Hardware Co., 1 3/8” Spring Bronze Weatherstrip
7. Door Sweep: William A. Kilian Hardware Co., Bronze and Neoprene Door Sweep 1 7/8”

8. Threshold: Pemko/ASSA ABLOY, Pemko Commercial Thresholds: Saddle Thresholds, 1710D, 5”W X ½”H, Bronze

E. Group 5: *Temporary Door – Interior group (Type K)*

1. (6) Hinges: Hager Companies, BB1279, Stainless Steel
2. Mortise Lockset and Lever: Corbin Russwin/Assa Abloy, Mortise Lockset ML2000 Series, ML2057 (F07) Storeroom or closet function, Armstrong ASB Lever, Stainless Steel; Best core to match building standard.
3. Door closer: Corbin Russwin/ASSA ABLOY, DC 6000, Heavy-Duty Parallel Arm 689F02 (Non-Hold Open) - 2
4. Coordinator
5. Electric strike and card access pad

F. Group 6: *Temporary Door – Exterior group (Type K)*

1. (3) Hinges: Hager Companies, BB1279, Stainless Steel
2. Mortise Lockset and Lever: Corbin Russwin/Assa Abloy, Mortise Lockset ML2000 Series, ML2057 (F07) Storeroom or closet function, Armstrong ASB Lever, Stainless Steel; Best core to match building standard.
3. Door closer: Corbin Russwin/ASSA ABLOY, DC 6000, Heavy-Duty Parallel Arm 689F02 (Non-Hold Open) – 2
4. Coordinator
5. Electric strike and card access pad

G. Group 7: *Executive Drive Vehicular Gate*

1. Hinge: Fabricated by gate manufacturer in capacity required, quantity to be determined by weight of gate.
2. Operator: Full Tank Hydraulic swing gate operator.
3. Locks: Electromagnetic locks, (2), Locknetics or equal.
4. Card access pad and stanchion – painted galvanized steel.

H. Group 8: *Pedestrian Gate at Vehicular Ramp*

1. Panic Device: Van Duprin, XP 98/99 Rim Exit Device, WH
2. Hinge: https://www.hardwaresource.com/products/heavy-duty-bolt-on-hinge-7-1-2?variant=46915180331281, size as required.
3. Closer:

I. Group 9: *Gates - Promenade and Landing 2*

1. Deadbolt: Corbin Russwin/ASSA ABLOY, DL3200 Series, DL3212 Double Cylinder, key both sides; Best core to match building standard.
2. Hinge: https://www.hardwaresource.com/products/heavy-duty-bolt-on-hinge-7-1-2?variant=46915180331281

J. Group 10 – *Interior doors at East Temporary Entrance (Type L)*

1. Existing operating hardware to remain.
2. Provide electric strike and card access pad.

K. Group 11: *Exterior Door at South Promenade – Type J*

1. (6) Hinges: ASSA ABLOY, Full Mortise – Ball Bearing Butt Hinges BH888, solid brass, 4"W X 5"L, unlacquered brass finish
2. Handles – Inside and outside levers to match existing hardware in adjacent rooms, unlacquered brass finish.
3. Electromagnetic locks: Locknetics WMG 1200 with interior push button for exiting.
4. Door closer: Corbin Russwin/ASSA ABLOY, DC 6000, Heavy-Duty (Non-Hold Open) - 2
5. Coordinator

L. Group 12: *New Interior Door*

1. Operating hardware: Match existing Group 10 hardware.
2. Provide electric strike and card access pad.

## 2.06 ELECTRIC STRIKE AND CARD ACCESS PAD KEYING

A. Continue existing key system established for Facility.

1. Stamp key symbol on one side of key, and "Do Not Duplicate" on other side of key.
2. Furnish one copy of factory bitting list to facility.
3. Factory key cylinders.
4. Furnish 3 cut keys for each master key.
5. Furnish 7 cut keys for each keyed lockset.
6. These cut key quantities are for bidding purposes only. Actual number of cut keys required will be determined at keying meeting.
7. When lockset and cylinder are by different manufacturers, identify and furnish correct cylinder cam to operate lockset.
8. Provide compression rings and spacers to achieve proper spacing relationship between cylinder and face of door.

B. Keying Conference:

1. Immediately following Contract award, Director's Representative will schedule a keying conference to develop a written key schedule that reflects Facility's specific keying requirements.
   Facility Representative(s), Hardware Distributor, Consulting Hardware Designer, and OGS's Hardware Designer will attend.
2. Incorporate this schedule in Finish Hardware Submittals for approval.

## 2.07 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 ANSI/BHMA A156.18.

# PART 3 EXECUTION

## 3.01 EXAMINATION

A. Examine doors and frames and related items for conditions such as, but not limited to, incorrect handing, hardware preparation, misaligned lock and strike preparations, that would prevent proper application of finish hardware. Do not proceed until defects are corrected.

B. Report conditions or hardware applications that are incorrect to the Director’s Representative.

## 3.02 INSTALLATION

A. Do not proceed with installation of finish hardware prior to attending referenced pre-installation conference.

B. Installation Sequence: Use proper installation sequence, i.e., install coordinators, and overhead stops and holders before surface mounted door closers.

C. Install hardware in accordance with manufacturer’s printed installation instructions, and adjust for smooth operation, free of sticking, binding or rattling.

1. Template and adjust closers for proper operation.

D. Use proper tools and methods to prevent scratches, burrs or other defacement.

E. Threshold Installation:

1. Drill holes 3 inches from each end of threshold and intermediate holes 12 inches maximum o.c. for required fasteners. Prepare holes for countersunk fasteners.
2. Level and align thresholds with frames and doors. Where required, use non-corrosive shims.
3. Exterior Doors: Set thresholds in a solid bed of sealant.
4. Secure thresholds to substrate with countersunk fasteners.

F. Door Bottom Installation:

1. Mount sweep type door bottom protection/drip caps on exterior side of doors.
2. Before mounting apply sealant on the back side of bearing surface. Secure to door with required fasteners.

G. Gasket Installation:

1. Install continuous stripping at each opening without unnecessary interruptions.
2. Where fasteners are required, secure fasteners for stripping and seals so they will not work loose during door operation. Exposed heads of fasteners shall be free of sharp edges.
3. Coordinate meeting stile gasket with hardware before installation.
4. Install units plumb and level at the optimum location to maintain a permanent effective seal.

H. After installation, cover and protect hardware to prevent damage during remaining construction. Remove protection upon completion of construction.

## 3.03 FIELD QUALITY CONTROL

A. Post Installation Review: After hardware is adjusted for proper operation, Director's Representative will hold a Post-Installation Review with the Contractor, Hardware Designer, Company Field Advisors, Hardware Distributor and Hardware Installers.

1. Physically inspect to verify proper application, installation, adjustment and operation of finish hardware, and in particular that:

   a. Latches engage freely without binding. Filing of strike plates to relieve latch bind is not acceptable.
   b. Closers are adjusted for proper spring power; sweep speed, latching speed; and hydraulic back check.
   c. Locations and proper attachment of installed protective hardware are as specified.
   d. There is no field modification of fasteners.
   e. Damaged fasteners are replaced.

2. Defective hardware is repaired or replaced.
3. Hardware is to be left clean and free from disfigurement.

**END OF SECTION**

# SECTION 099600

# HIGH-PERFORMANCE COATINGS

## PART 1 -GENERAL

### 1.01 SUMMARY

A. Section includes surface preparation and the application of high-performance coating systems on the following substrates:

1. Exterior Substrates:

a. Steel and other ferrous metals.

b. Galvanized metal.

c. Embedded items specified in Sections 051200 and 055000.

B. Related Requirements:

1. Section 051200 "Structural Steel Framing" for coating of structural steel.

### 1.02 DEFINITIONS

A. MPI Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D523.

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

C. MPI Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D523.

### 1.03 ACTION SUBMITTALS

A. 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.

B. Samples for Verification: For each type of coating system and each color and gloss of topcoat indicated.

1. Submit Samples on rigid backing, **8 inches (200 mm)** square.
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.

C. Product List: Cross-reference to coating system and locations of application areas. Use

same designations indicated on Drawings and in schedules. Include color designations.

## 1.04 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Coatings: 5 percent, but not less than 1 gal. (3.8 L) of each material and color applied.

## 1.05 QUALITY ASSURANCE

A. Mockups: Apply mockups of each coating system indicated to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Director's Representative will select one item of each type to represent surfaces and conditions for application of each coating system.
2. Final approval of color selections will be based on mockups.

a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.

3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

## 1.06 DELIVERY, STORAGE, AND HANDLING

A. 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 (7 deg C)**.

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

## 1.07 FIELD CONDITIONS

A. Apply coatings only when temperature of surfaces to be coated and ambient air temperatures are between **50 and 95 deg F (10 and 35 deg C)**.

B. Do not apply coatings when relative humidity exceeds 85 percent; at temperatures less than **5 deg F (3 deg C)** above the dew point; or to damp or wet surfaces.

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

## PART 2 -PRODUCTS

### 2.01 HIGH-PERFORMANCE COATINGS, GENERAL

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

1. Benjamin Moore & Co.
2. International Protective Coatings; AkzoNobel
3. PPG Paints; PPG Industries, Inc.
4. Sherwin-Williams Company (The)
5. Tnemec Company, Inc.

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

C. 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 topcoat manufacturers for use in paint system and on substrate indicated.
3. Products shall be of same manufacturer for each coat in a coating system.

D. VOC Content, LEED 2009: For field applications that are inside the weatherproofing system, paints and coatings shall comply with VOC content limits of authorities having jurisdiction and the following VOC content limits:

1. Flat Paints and Coatings: 50 g/L.
2. Nonflat Paints and Coatings: 150 g/L.
3. Primers, Sealers, and Undercoaters: 200 g/L.
4. Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250 g/L.
5. Zinc-Rich Industrial Maintenance Primers: 340 g/L.
6. Pretreatment Wash Primers: 420 g/L.
7. Floor Coatings: 100 g/L.

E. Colors: As selected by the Director’s Representative.

### 2.02 SOURCE QUALITY CONTROL

A. Testing of Coating Materials: The State reserves the right to invoke the following procedure:

1. The State will engage the services of a qualified testing agency to sample coating materials. Contractor will be notified in advance and may be present when

samples are taken. If coating 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 State may direct Contractor to stop applying coatings if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying coating materials from Project site, pay for testing, and recoat surfaces coated with rejected materials. Contractor will be required to remove rejected materials from previously coated surfaces if, on recoating with complying materials, the two coatings are incompatible.

## PART 3 -EXECUTION

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

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

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

### 3.02 PREPARATION

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

C. Clean substrates of substances that could impair bond of coatings, 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 coating systems indicated.

D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer.

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 coatings.

## 3.03 APPLICATION

A. Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."

1. Use applicators and techniques suited for coating and substrate indicated.
2. Coat backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
3. Do not apply coatings over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.

B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of the same material are to be applied. Tint undercoats to match color of finish coat, but provide sufficient difference in shade of undercoats to distinguish each separate coat.

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

D. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections.

## 3.04 FIELD QUALITY CONTROL

A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test coatings for dry film thickness.

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

## 3.05 CLEANING AND PROTECTION

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

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

C. Protect work of other trades against damage from coating operation. Correct damage to work of other trades by cleaning, repairing, replacing, and recoating, as approved by Architect, and leave in an undamaged condition.

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

## 3.06 EXTERIOR HIGH-PERFORMANCE COATING SCHEDULE

A. Steel Substrates:

1. Pigmented Polyurethane over Epoxy Zinc-Rich Primer System:

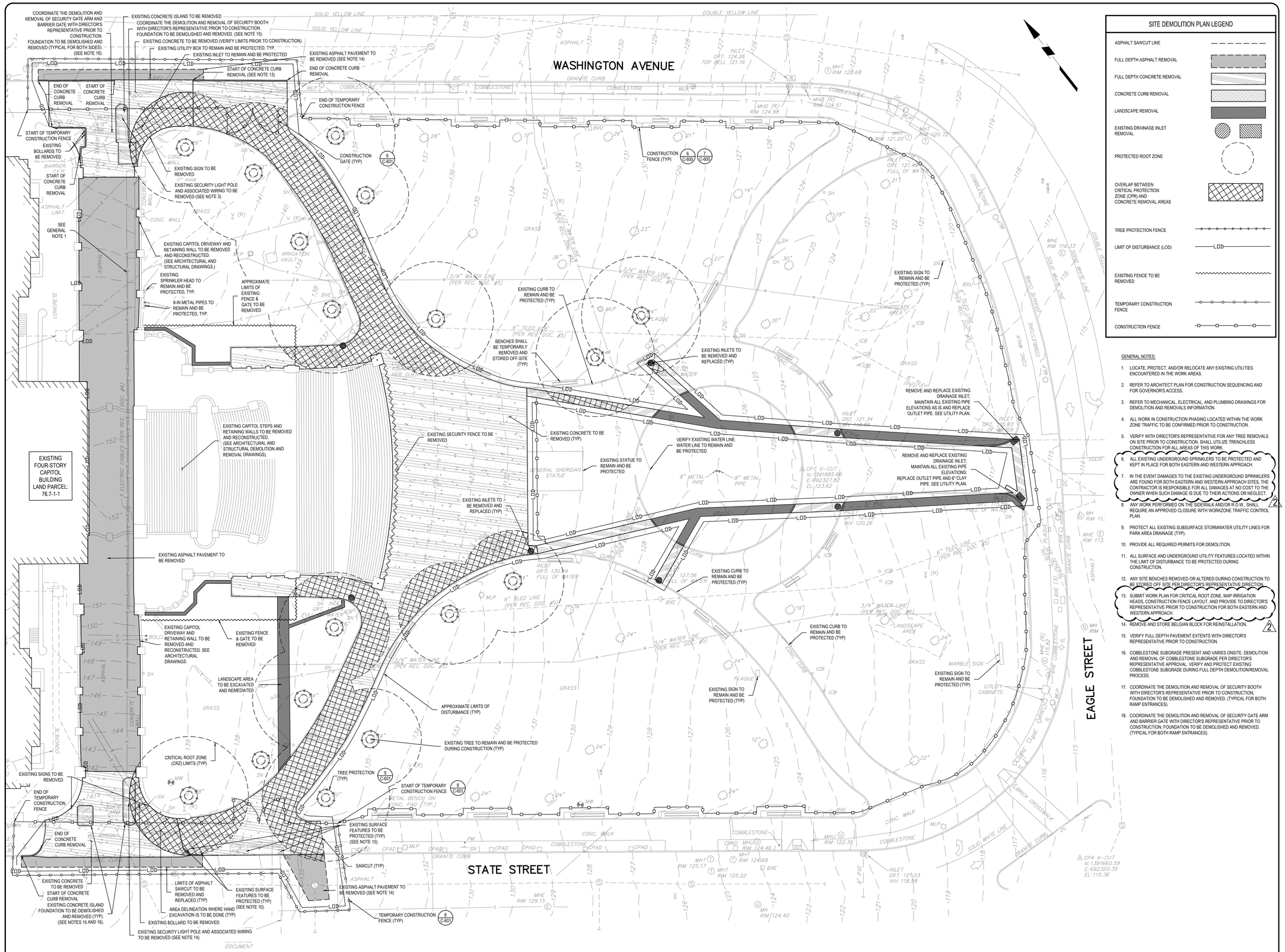
a. Prime Coat: Primer, zinc rich, epoxy, MPI #20.
b. Intermediate Coat: Epoxy, gloss, MPI #77.
c. Topcoat: Polyurethane, two component, pigmented, gloss (MPI Gloss Level 6), MPI #72.

B. Galvanized-Metal Substrates:

1. Pigmented Polyurethane over Vinyl Wash Primer and Epoxy Primer System:

a. Prime Coat: Primer, vinyl wash, MPI #80.
b. Intermediate Coat: Primer, epoxy, anti-corrosive, for metal, MPI #101
c. Topcoat: First and Second Polyurethane, two component, pigmented, gloss (MPI Gloss Level 6), MPI #72.

**END OF SECTION 099600**




1 SITE DEMOLITION AND REMOVALS PLAN
Scale: 1"=20' (0, 20', 40')

## SITE DEMOLITION PLAN LEGEND

- ASPHALT SAWCUT LINE
- FULL DEPTH ASPHALT REMOVAL
- FULL DEPTH CONCRETE REMOVAL
- CONCRETE CURB REMOVAL
- LANDSCAPE REMOVAL
- EXISTING DRAINAGE INLET REMOVAL
- PROTECTED ROOT ZONE
- OVERLAP BETWEEN CRITICAL PROTECTION ZONE (CPR) AND CONCRETE REMOVAL AREAS
- TREE PROTECTION FENCE
- LIMIT OF DISTURBANCE (LOD)
- EXISTING FENCE TO BE REMOVED
- TEMPORARY CONSTRUCTION FENCE
- CONSTRUCTION FENCE

GENERAL NOTES:

1. LOCATE, PROTECT, AND/OR RELOCATE ANY EXISTING UTILITIES ENCOUNTERED IN THE WORK AREAS.
2. REFER TO ARCHITECT PLAN FOR CONSTRUCTION SEQUENCING AND FOR GOVERNOR'S ACCESS.
3. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR DEMOLITION AND REMOVALS INFORMATION.
4. ALL WORK IN CONSTRUCTION PHASING LOCATED WITHIN THE WORK ZONE TRAFFIC TO BE CONFIRMED PRIOR TO CONSTRUCTION.
5. VERIFY WITH DIRECTOR'S REPRESENTATIVE FOR ANY TREE REMOVALS ON SITE PRIOR TO CONSTRUCTION. SHALL UTILIZE TRENCHLESS CONSTRUCTION FOR ALL AREAS OF THIS WORK.
6. ALL EXISTING UNDERGROUND SPRINKLERS TO BE PROTECTED AND KEPT IN PLACE FOR BOTH EASTERN AND WESTERN APPROACH.
7. IN THE EVENT DAMAGES TO THE EXISTING UNDERGROUND SPRINKLERS ARE FOUND FOR BOTH EASTERN AND WESTERN APPROACH SITES, THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES AT NO COST TO THE OWNER WHEN SUCH DAMAGE IS DUE TO THEIR ACTIONS OR NEGLECT. 2
8. ANY WORK PERFORMED ON THE SIDEWALK AND/OR R.O.W., SHALL REQUIRE AN APPROVED CLOSURE WITH WORKZONE TRAFFIC CONTROL PLAN.
9. PROTECT ALL EXISTING SUBSURFACE STORMWATER UTILITY LINES FOR PARK AREA DRAINAGE (TYP).
10. PROVIDE ALL REQUIRED PERMITS FOR DEMOLITION.
11. ALL SURFACE AND UNDERGROUND UTILITY FEATURES LOCATED WITHIN THE LIMIT OF DISTURBANCE TO BE PROTECTED DURING CONSTRUCTION.
12. ANY SITE BENCHES REMOVED OR ALTERED DURING CONSTRUCTION TO BE STORED OFF SITE PER DIRECTOR'S REPRESENTATIVE DIRECTION.
13. SUBMIT WORK PLAN FOR CRITICAL ROOT ZONE, MAP IRRIGATION HEADS, CONSTRUCTION FENCE LAYOUT, AND PROVIDE TO DIRECTOR'S REPRESENTATIVE PRIOR TO CONSTRUCTION FOR BOTH EASTERN AND WESTERN APPROACH. 2
14. REMOVE AND STORE BELGIAN BLOCK FOR REINSTALLATION.
15. VERIFY FULL DEPTH PAVEMENT EXTENTS WITH DIRECTOR'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
16. COBBLESTONE SUBGRADE PRESENT AND VARIES ONSITE. DEMOLITION AND REMOVAL OF COBBLESTONE SUBGRADE PER DIRECTOR'S REPRESENTATIVE APPROVAL. VERIFY AND PROTECT EXISTING COBBLESTONE SUBGRADE DURING FULL DEPTH DEMOLITION/REMOVAL PROCESS.
17. COORDINATE THE DEMOLITION AND REMOVAL OF SECURITY BOOTH WITH DIRECTOR'S REPRESENTATIVE PRIOR TO CONSTRUCTION. FOUNDATION TO BE DEMOLISHED AND REMOVED. (TYPICAL FOR BOTH RAMP ENTRANCES).
18. COORDINATE THE DEMOLITION AND REMOVAL OF SECURITY GATE ARM AND BARRIER GATE WITH DIRECTOR'S REPRESENTATIVE PRIOR TO CONSTRUCTION. FOUNDATION TO BE DEMOLISHED AND REMOVED. (TYPICAL FOR BOTH RAMP ENTRANCES).

NEW YORK STATE | Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT: MFS CONSULTING ENGINEERS
CERTIFICATE OF AUTHORIZATION #: 7564

John G. Waite Associates Architects PLLC

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE DRAWINGS ARE IN CONFORMANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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CONTRACT: CONSTRUCTION

TITLE: REHABILITATE THE - EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION: NEW YORK STATE CAPITOL ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

STATE OF NEW YORK — CHIU B. SHIM — 090984 — LICENSED PROFESSIONAL ENGINEER

REVISED 10/17/2024

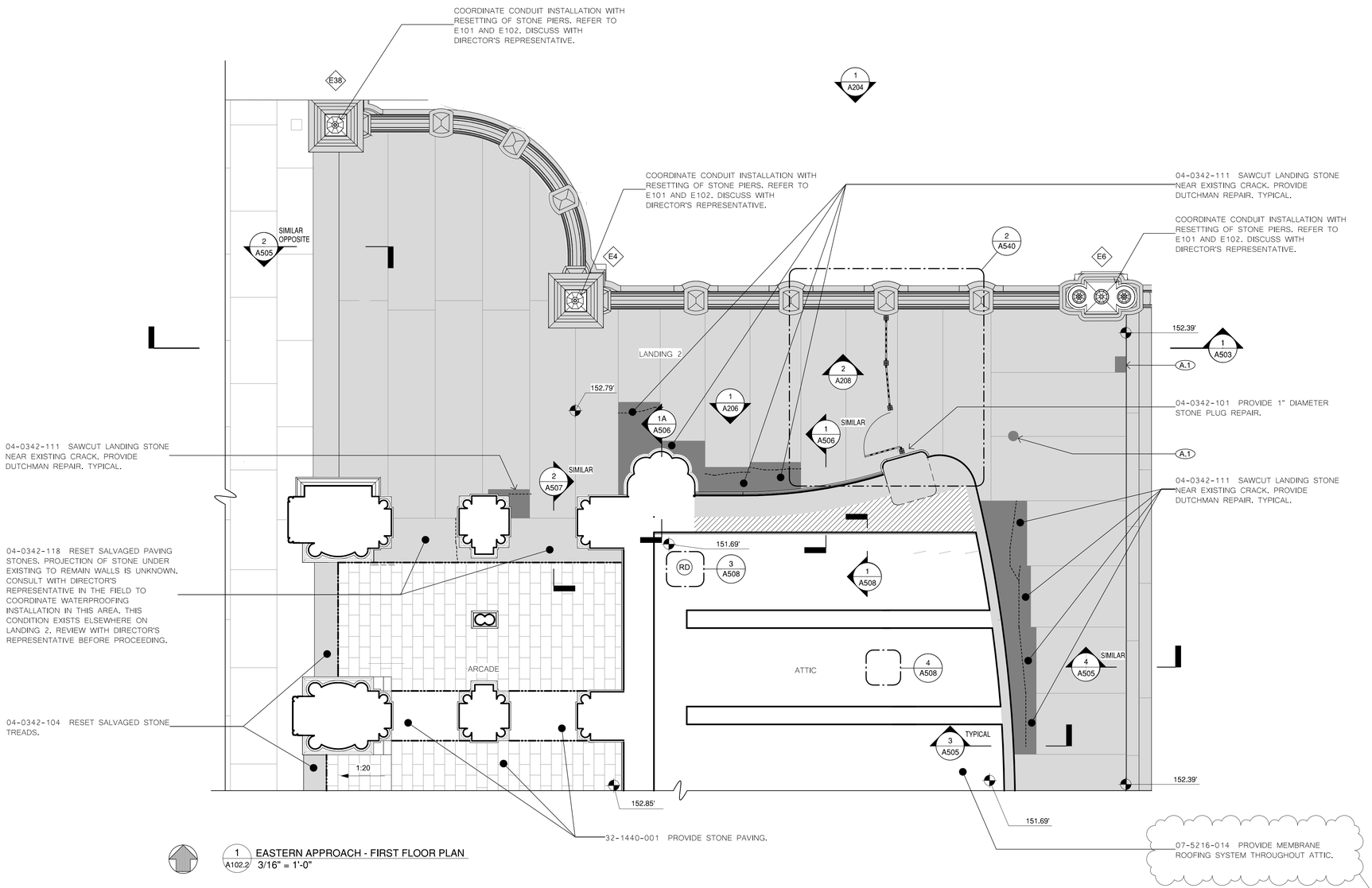
| | | |
|---|---|---|
| REV. 02 | 10/17/2024 | ADDENDUM #6 |
| REV. 01 | 09/30/2024 | ADDENDUM #4 |
| | 06/21/2024 | BID SET |

| MARK | DATE | DESCRIPTION |
|---|---|---|
| PROJECT NUMBER: | 47331-C | |
| DESIGNED BY: | SS | |
| DRAWN BY: | JO | |
| FIELD CHECK: | | |
| APPROVED: | PBS | |

SHEET TITLE: SITE DEMOLITION & REMOVALS PLAN

DRAWING NUMBER: C-100

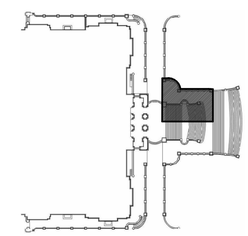
SHEET: 37 OF 257




1 A102.2 EASTERN APPROACH - FIRST FLOOR PLAN
3/16" = 1'-0"

## LEGEND:

- A.1 — 04-0342-200 PROVIDE DUTCHMAN REPAIR.
- A.2 — 04-0342-300 PROVIDE PROFILE STONE DUTCHMAN REPAIR IN SIZE INDICATED.
- A.3 — 04-0342-400 PROVIDE DECORATIVE STONE DUTCHMAN REPAIR.
- A.4 — 04-0342-600 PROVIDE REPLACEMENT STONE.
- EJ -------- PROVIDE EXPANSION JOINT.
- CJ -------- PROVIDE CONTROL JOINT.
- EXISTING STONE TO BE SALVAGED AND RESET.
- PROVIDE STONE PAVING.
- 1001 — DOOR NUMBER. REFER TO SCHEDULE.
- ELEVATION — SPOT ELEVATION VERIFY IN FIELD.
- RD — PROVIDE ROOF DRAIN. REFER TO PLUMBING.
- REBUILD BRICK BACKUP.



KEY PLAN

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10/17/2024 11:52:40 AM
36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

John G. Waite Associates PLLC Architects

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REGISTERED ARCHITECT JOHN G. WAITE, JR. 014437 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| | | |
|---|---|---|
| 1 | 10/17/2024<br>06/21/2024 | ADDENDUM 6<br>BID SET |
| MARK | DATE | DESCRIPTION |

| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | |
| DRAWN BY: | |
| FIELD CHECK: | |
| APPROVED: | |

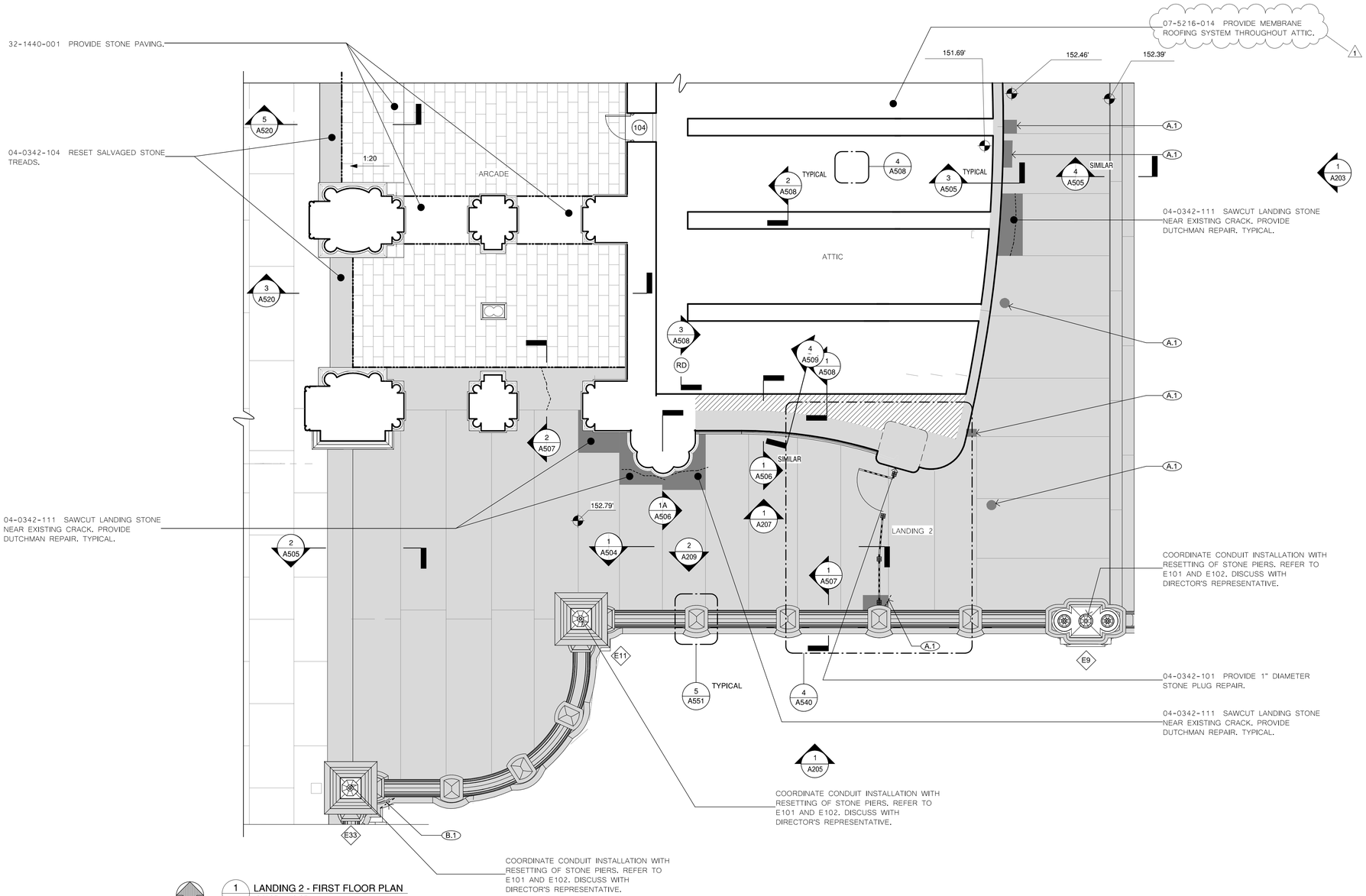
SHEET TITLE:

LANDING 2 DETAIL PLAN

DRAWING NUMBER:

A102.2

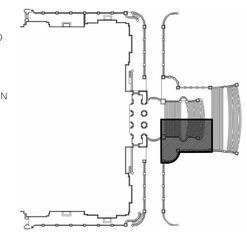
SHEET: 69 OF 257




1 A102.3 LANDING 2 - FIRST FLOOR PLAN
3/16" = 1'-0"

## LEGEND:

- A.1 — 04-0342-200 PROVIDE DUTCHMAN REPAIR.
- A.2 — 04-0342-300 PROVIDE PROFILE STONE DUTCHMAN REPAIR IN SIZE INDICATED.
- A.3 — 04-0342-400 PROVIDE DECORATIVE STONE DUTCHMAN REPAIR.
- A.4 — 04-0342-600 PROVIDE REPLACEMENT STONE.
- EJ -------- PROVIDE EXPANSION JOINT.
- CJ -------- PROVIDE CONTROL JOINT.
- EXISTING STONE TO BE SALVAGED AND RESET.
- PROVIDE STONE PAVING.
- 1001 — DOOR NUMBER. REFER TO SCHEDULE.
- ELEVATION — SPOT ELEVATION VERIFY IN FIELD.
- RD — PROVIDE ROOF DRAIN. REFER TO PLUMBING.
- REBUILD BRICK BACKUP.



KEY PLAN

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36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

John G. Waite Associates PLLC Architects

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REGISTERED ARCHITECT JOHN G. WAITE, JR. 014437 STATE OF NEW YORK

CONTRACT: CONSTRUCTION

TITLE: REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION: NEW YORK STATE CAPITOL ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 09/27/2024 | BID SET |

| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | |
| DRAWN BY: | |
| FIELD CHECK: | |
| APPROVED: | |

SHEET TITLE:

LANDING 2 DETAIL PLAN

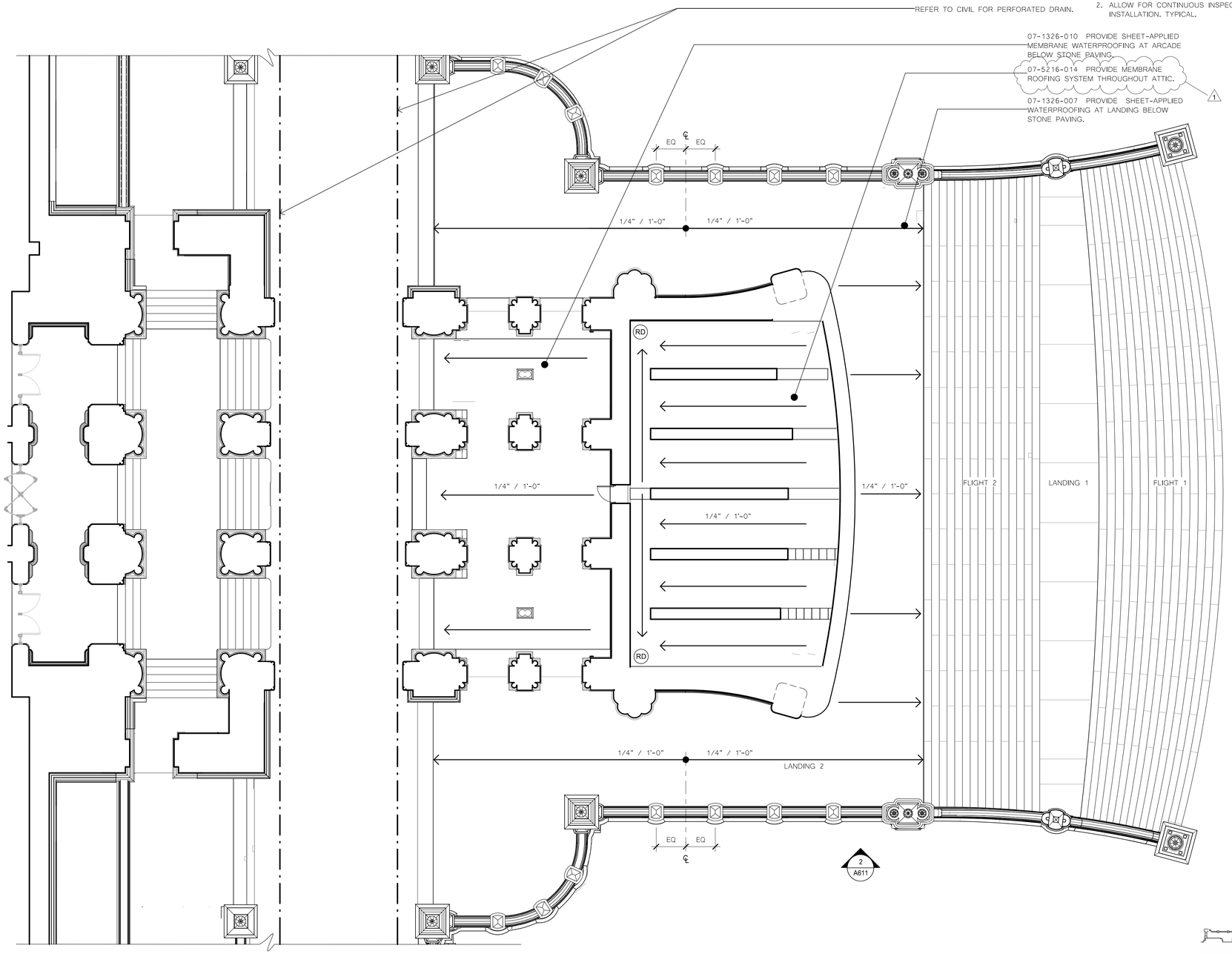
DRAWING NUMBER:

A102.3

SHEET: 70 OF 257

## GENERAL NOTES:

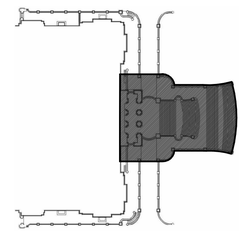
1. SLOPES INDICATED ON THIS SHEET ARE AT WATERPROOFING LAYER. STONE PAVING FINISH ELEVATIONS AND SLOPE NOTED ON DETAIL PLANS, SECTIONS, AND DETAILS.
2. ALLOW FOR CONTINUOUS INSPECTION OF WATERPROOFING INSTALLATION. TYPICAL.




1 / A102.5 LANDING 2 DRAINAGE PLAN
1/8" = 1'-0"

## LEGEND:

- (RD) PROVIDE ROOF DRAIN. REFER TO PLUMNING.
- PROVIDE PERFORATED DRAIN PIPING. REFER TO CIVIL.
- INDICATES DIRECTION OF SLOPE AT WATERPROOFING LAYER. MINIMUM 1/4" PER FOOT.



KEY PLAN

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

John G. Waite Associates PLLC Architects

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REGISTERED ARCHITECT JOHN G. WAITE, JR. 014437 STATE OF NEW YORK

CONTRACT: CONSTRUCTION

TITLE: REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION: NEW YORK STATE CAPITOL ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |

| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | |
| DRAWN BY: | |
| FIELD CHECK: | |
| APPROVED: | |

SHEET TITLE:

LANDING 2 DRAINAGE PLAN

DRAWING NUMBER:

A102.5

SHEET: 72 OF 257

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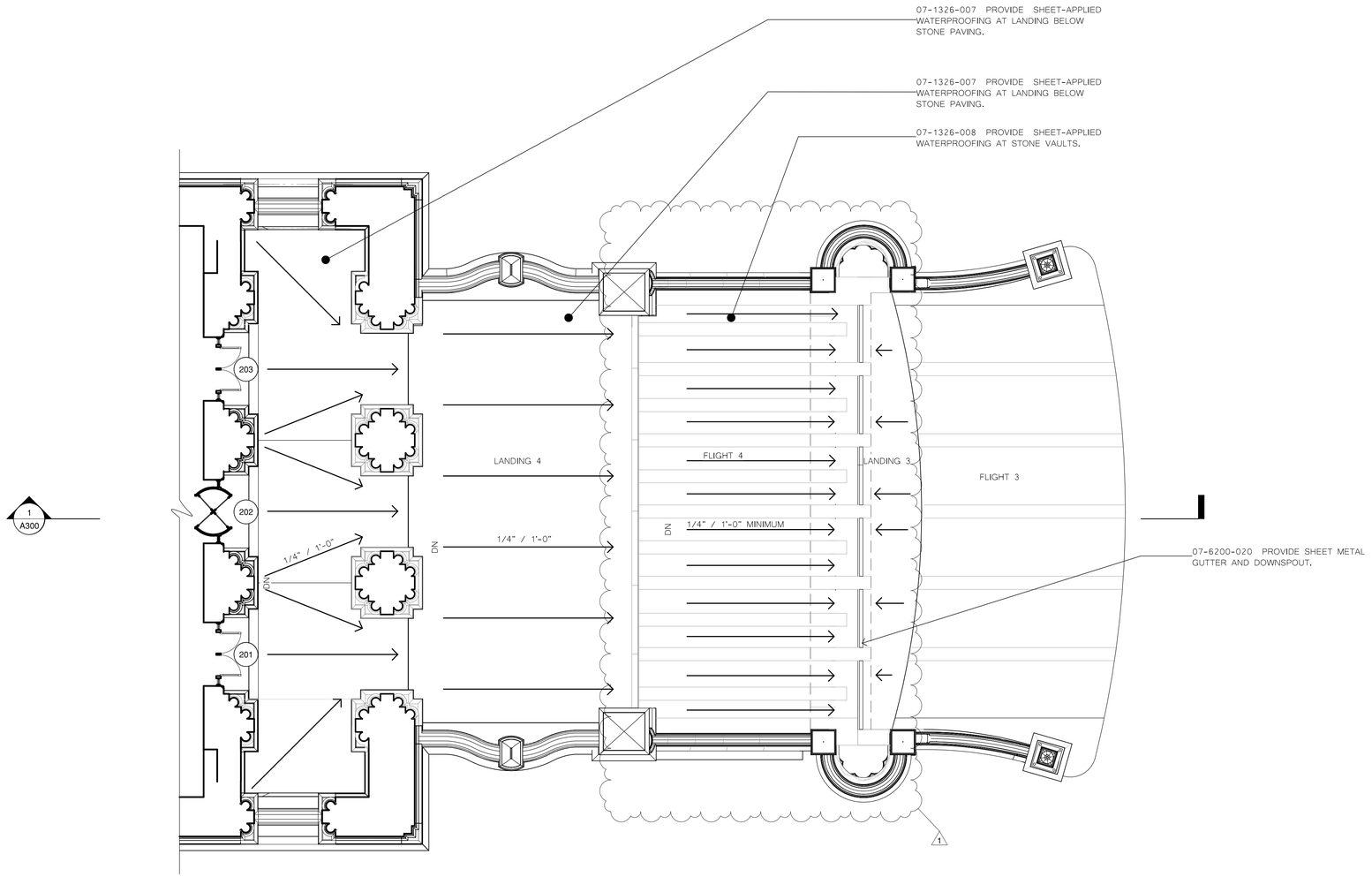
10/17/2024 11:52:47 AM
36x24 PLOT SHEET

## GENERAL NOTES:

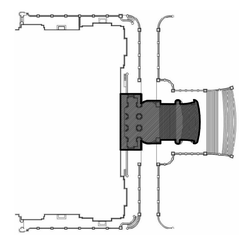
1. SLOPES INDICATED ON THIS SHEET ARE AT WATERPROOFING LAYER. STONE PAVING FINISH ELEVATIONS AND SLOPE NOTED ON DETAIL PLANS, SECTIONS, AND DETAILS.
2. ALLOW FOR CONTINUOUS INSPECTION OF WATERPROOFING INSTALLATION. TYPICAL.




1 A103.3 LANDING 3, FLIGHT 4, LANDING 4 DRAINAGE PLAN
1/8" = 1'-0"

## LEGEND:

INDICATES DIRECTION OF SLOPE AT WATERPROOFING LAYER. MINIMUM 1/4" PER FOOT.



KEY PLAN

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

John G. Waite Associates PLLC Architects

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REGISTERED ARCHITECT JOHN G. WAITE JR. 014437 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |

| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | |
| DRAWN BY: | |
| FIELD CHECK: | |
| APPROVED: | |

SHEET TITLE:

LANDING 3, FLIGHT 4, LANDING 4 DRAINAGE PLAN

DRAWING NUMBER:

A103.3

SHEET: 76 OF 257

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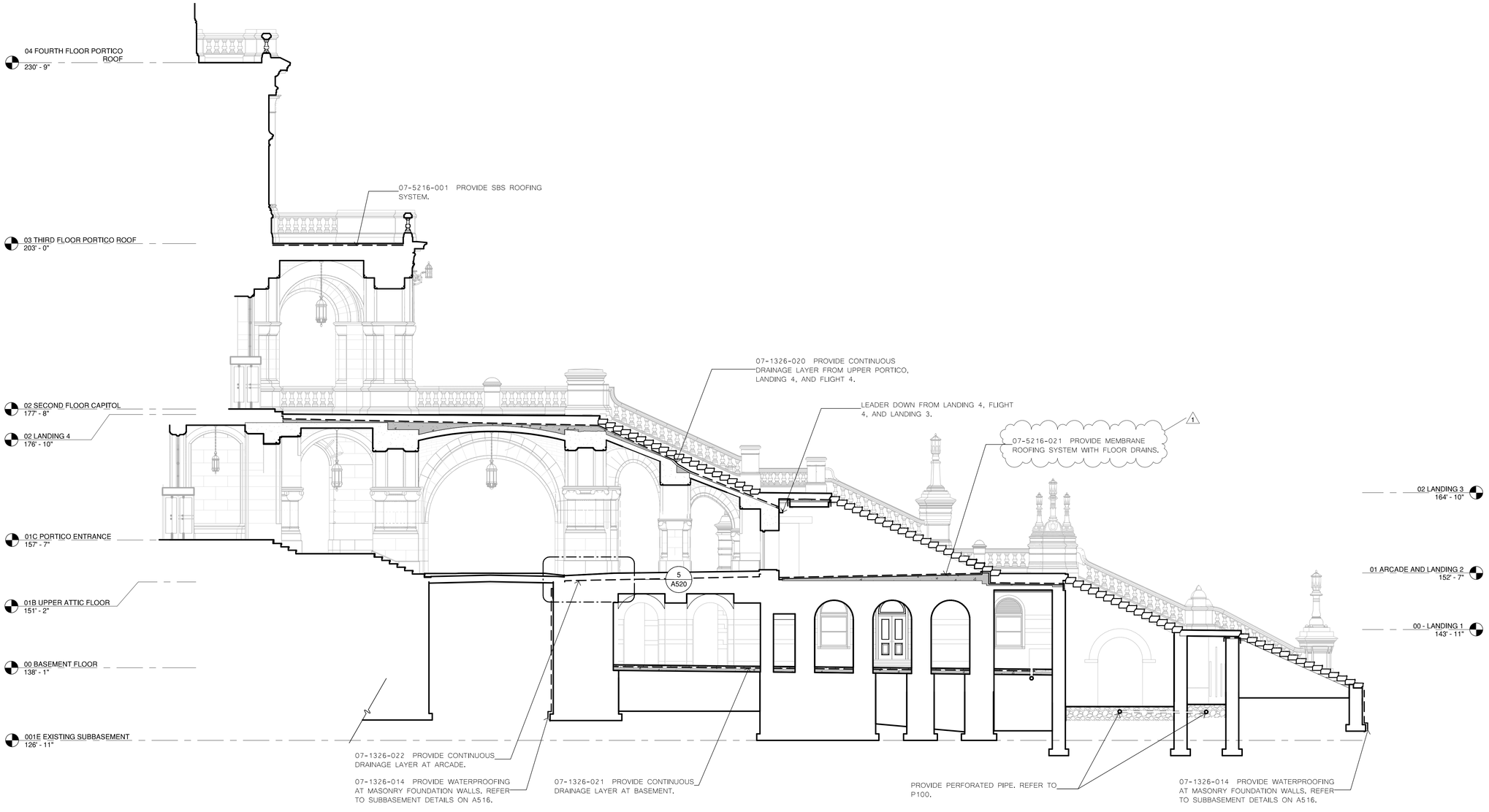
36x24 PLOT SHEET




1 / A300 LONGITUDINAL SECTION
1/8" = 1'-0"

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10/17/2024 11:52:55 AM
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REGISTERED ARCHITECT JOHN G. WAITE JR. 014437 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |

| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | |
| DRAWN BY: | |
| FIELD CHECK: | |
| APPROVED: | |

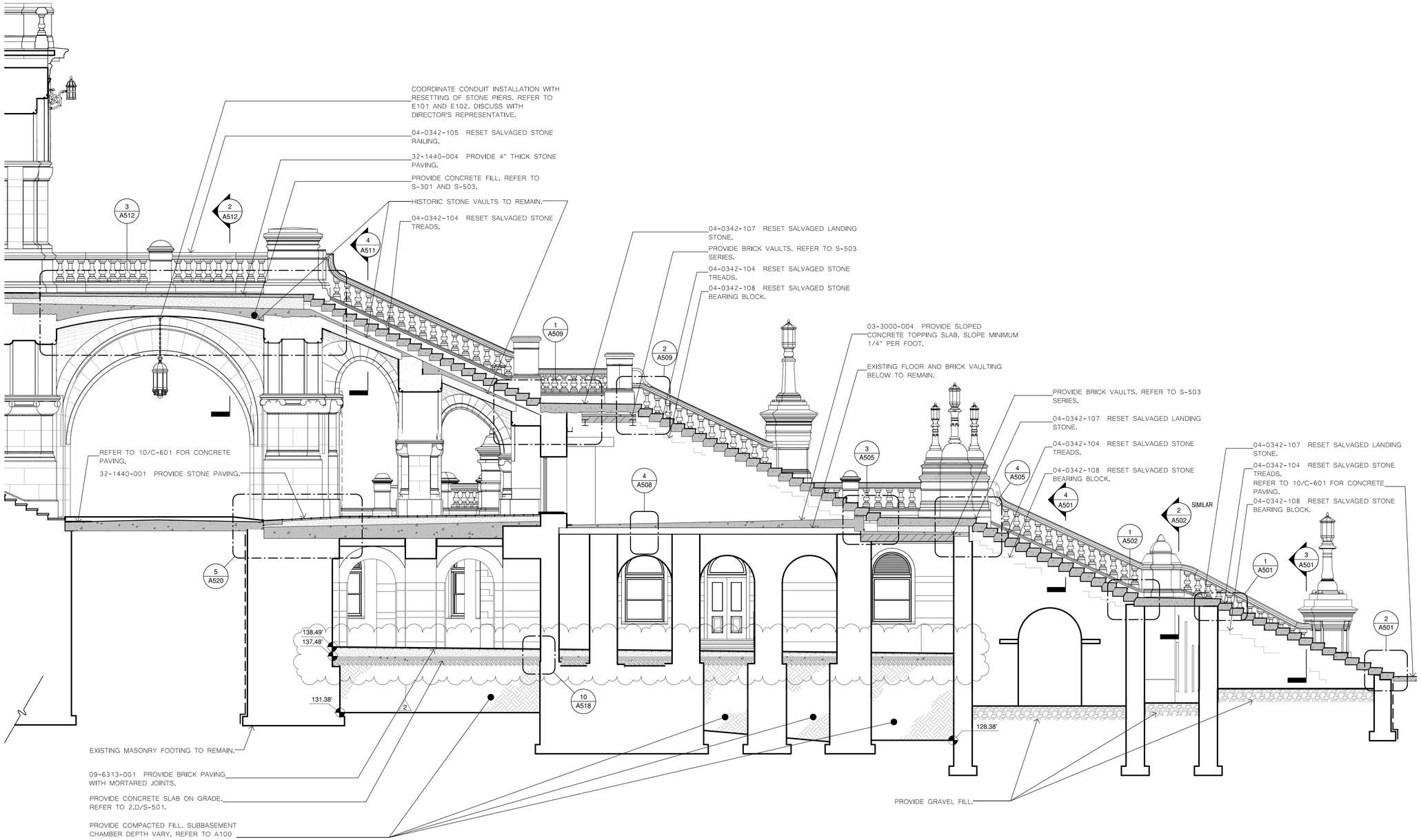
SHEET TITLE:

WATERPROOFING OVERALL SECTION

DRAWING NUMBER:

A300

SHEET: 120 OF 257




1 / A301 DETAIL KEY SECTION
3/16" = 1'-0"

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REGISTERED ARCHITECT JOHN G. WAITE, JR. 014437 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

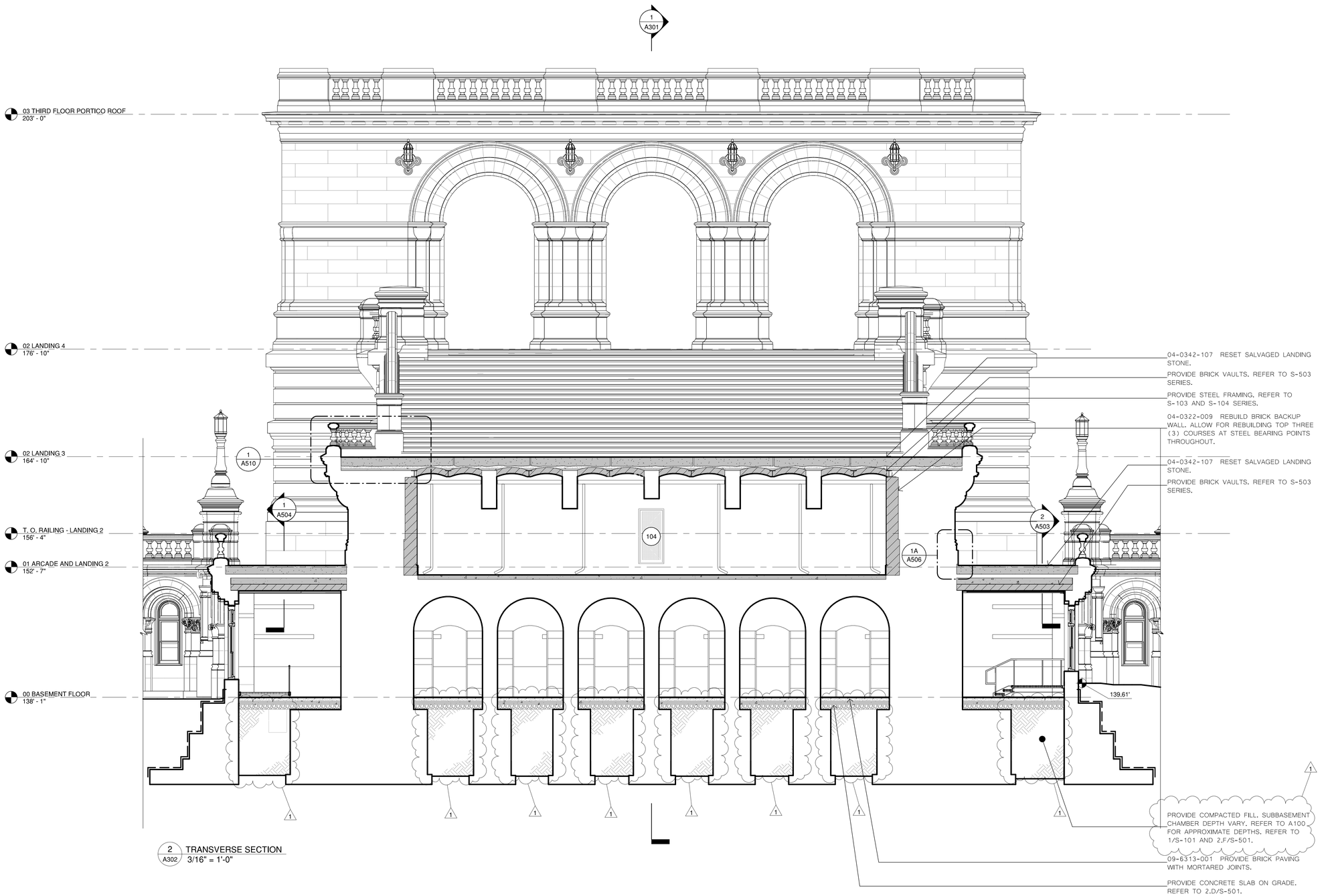
| MARK | DATE | DESCRIPTION |
|---|---|---|
| 2 | 10/17/2024 | ADDENDUM 6 |
| 1 | 10/11/2024 | ADDENDUM 5 |
| | 06/21/2024 | BID SET |

| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | |
| DRAWN BY: | |
| FIELD CHECK: | |
| APPROVED: | |

SHEET TITLE:
DETAIL KEY SECTION

DRAWING NUMBER:
A301

SHEET: 121 OF 257




2 A302 TRANSVERSE SECTION
3/16" = 1'-0"

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10/17/2024 11:53:36 AM
36x24 PLOT SHEET

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REGISTERED ARCHITECT JOHN G. WAITE, JR. 014437 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |

PROJECT NUMBER: 47331 - C

DESIGNED BY:

DRAWN BY:

FIELD CHECK:

APPROVED:

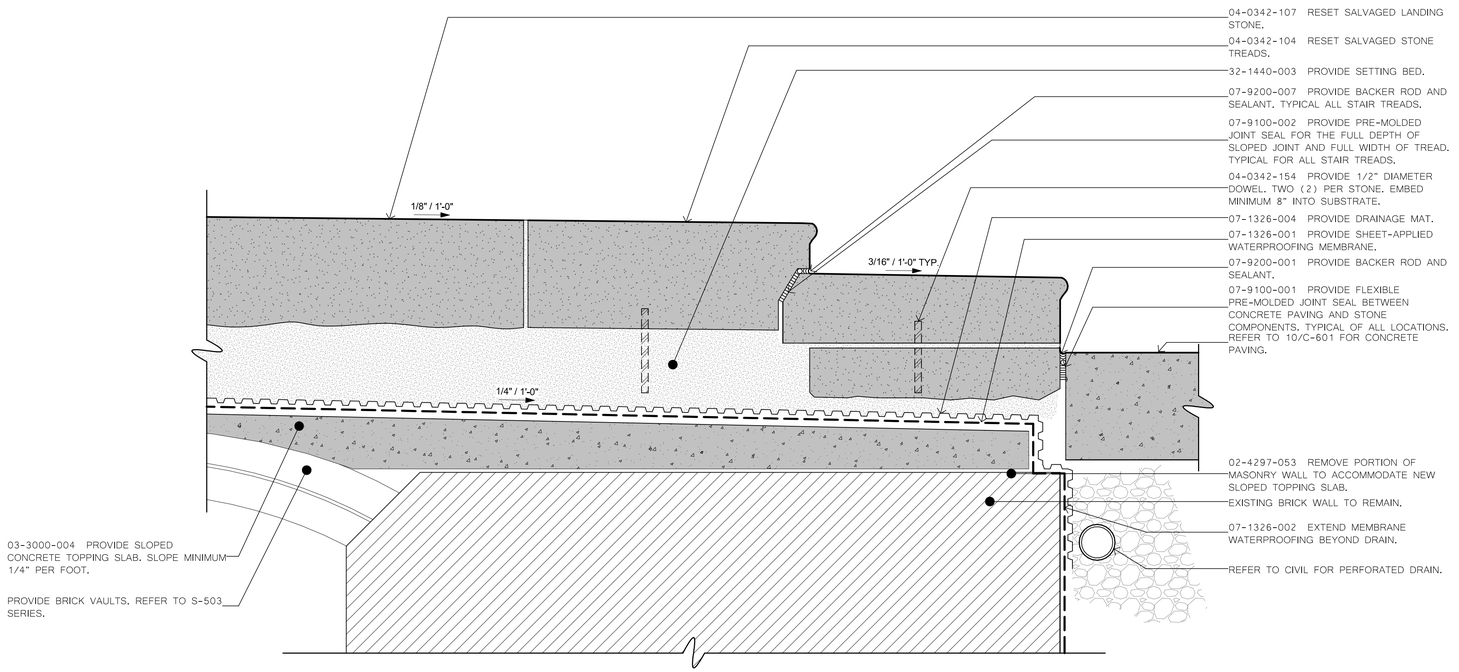
SHEET TITLE:

TRANSVERSE SECTION

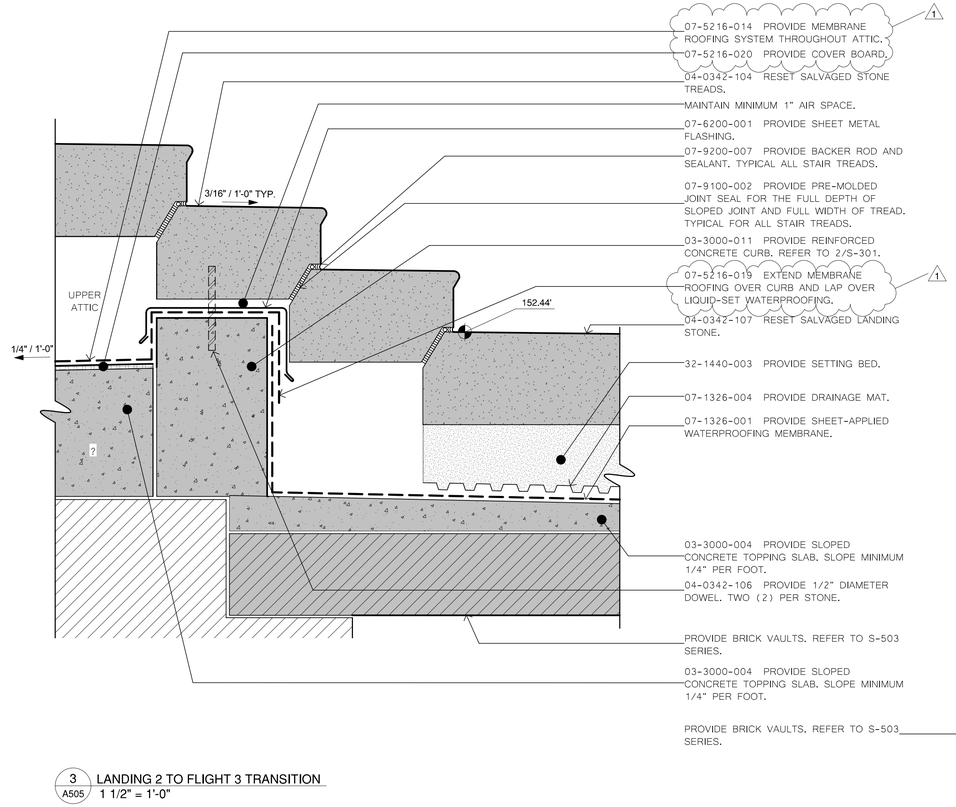
DRAWING NUMBER:

A302

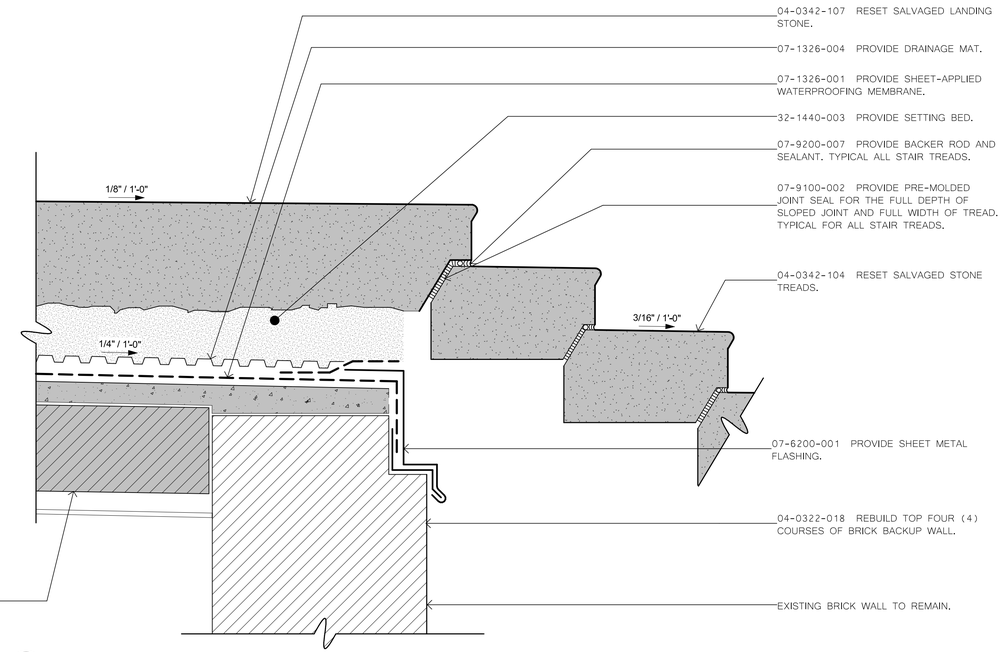
SHEET: 122 OF 257




2 A505 LANDING 2 TO EXECUTIVE RAMP TRANSITION
1 1/2" = 1'-0"




3 A505 LANDING 2 TO FLIGHT 3 TRANSITION
1 1/2" = 1'-0"




4 A505 FLIGHT 2 TO LANDING 2 TRANSITION
1 1/2" = 1'-0"

## GENERAL NOTE:

1. ALLOW FOR CONTINUOUS INSPECTION OF WATERPROOFING INSTALLATION. TYPICAL.

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10/17/2024 11:53:38 AM
36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

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REGISTERED ARCHITECT JOHN G. WAITE, JR. 014437 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |

| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | |
| DRAWN BY: | |
| FIELD CHECK: | |
| APPROVED: | |

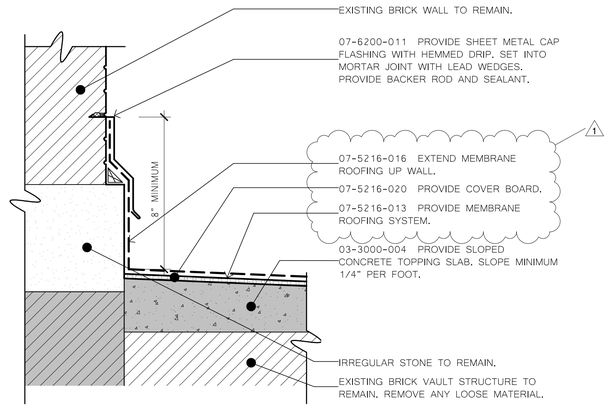
SHEET TITLE:

LANDING 2 DETAILS

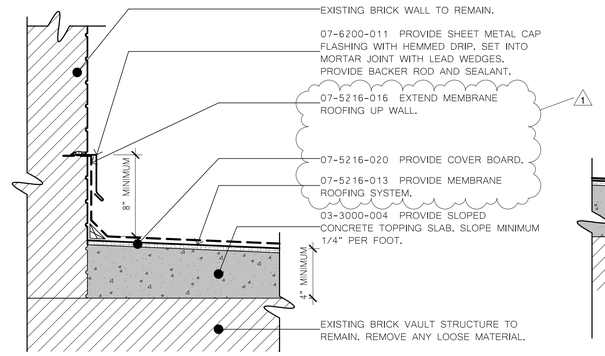
DRAWING NUMBER:

A505

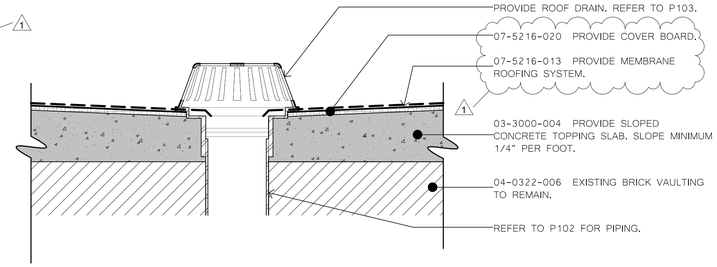
SHEET: 150 OF 257



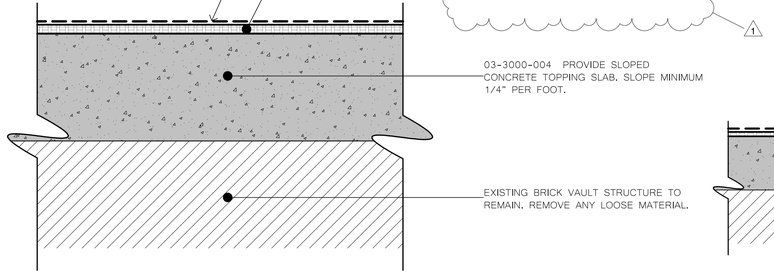

1 A508 FLASHING DETAIL AT EXTERIOR WALL
1 1/2" = 1'-0"



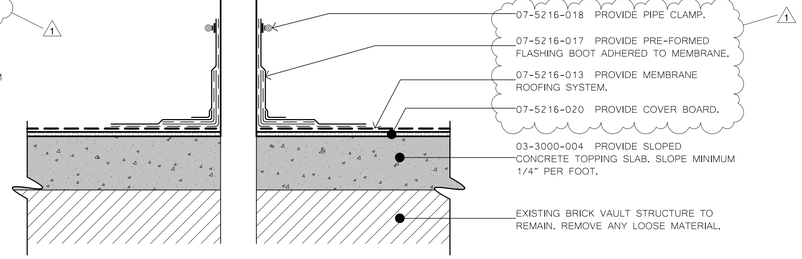

2 A508 FLASHING DETAIL AT INTERIOR WALLS
1 1/2" = 1'-0"




3 A508 DRAIN DETAIL
1 1/2" = 1'-0"




4 A508 TYPICAL INTERIOR MEMBRANE DETAIL
3" = 1'-0"




5 A508 PIPE PENETRATION DETAIL
1 1/2" = 1'-0"

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10/17/2024 12:16:11 PM
36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

John G. Waite Associates PLLC Architects

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REGISTERED ARCHITECT JOHN G. WAITE, JR. 014437 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |

PROJECT NUMBER: 47331 - C

DESIGNED BY:

DRAWN BY:

FIELD CHECK:

APPROVED:

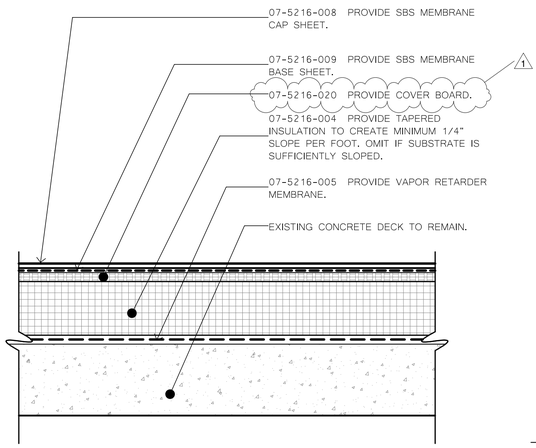
SHEET TITLE:

UPPER ATTIC DETAILS

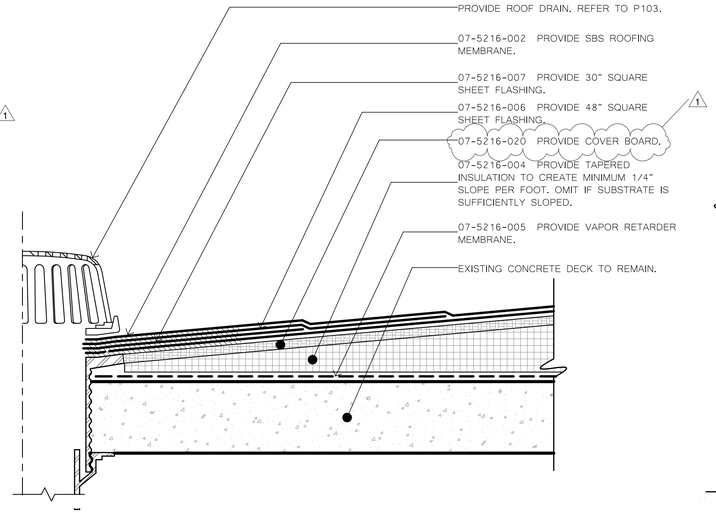
DRAWING NUMBER:

A508

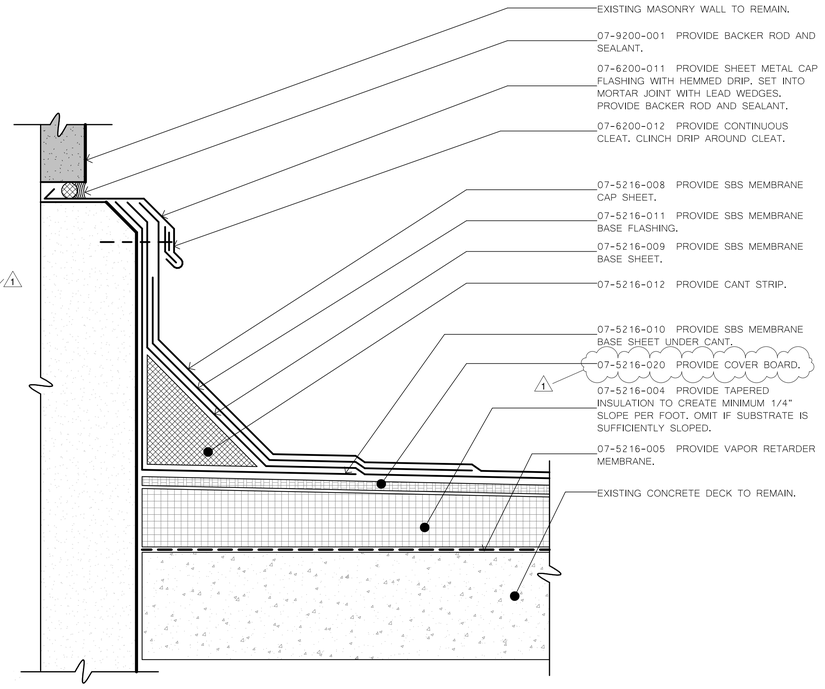
SHEET: 153 OF 257



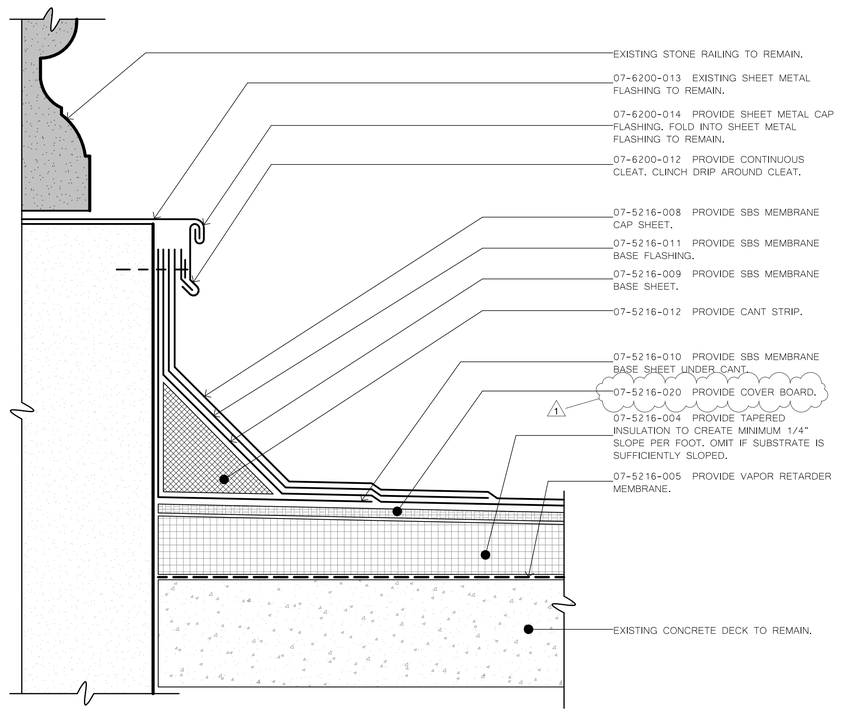

1 A514 TYPICAL SBS MEMBRANE ROOFING SYSTEM
3" = 1'-0"




2 A514 ROOF DRAIN DETAIL
3" = 1'-0"




3 A514 BASE FLASHING DETAIL
3" = 1'-0"




4 A514 BASE FLASHING AT RAILING DETAIL
3" = 1'-0"

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DESIGN & CONSTRUCTION

CONSULTANT:

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REGISTERED ARCHITECT JOHN G. WAITE, JR. 014437 STATE OF NEW YORK

CONTRACT:
CONSTRUCTION

TITLE:
REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |

| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | |
| DRAWN BY: | |
| FIELD CHECK: | |
| APPROVED: | |

SHEET TITLE:

EASTERN APPROACH - PORTICO ROOF DETAILS

DRAWING NUMBER:

A514

SHEET: 159 OF 257

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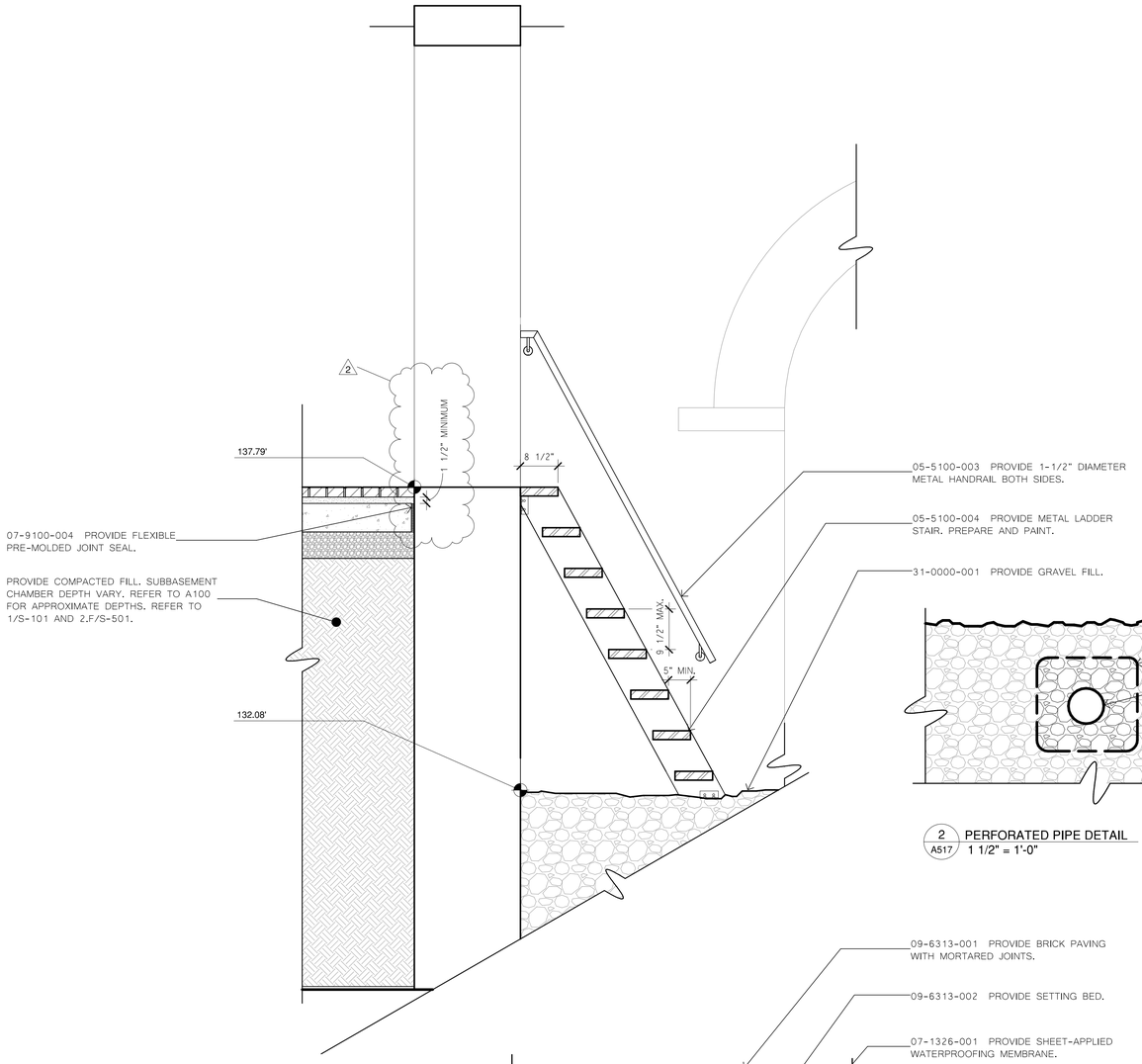
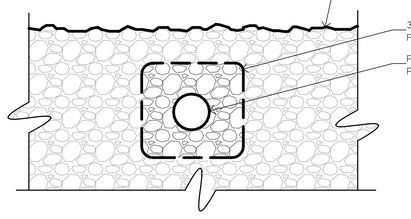
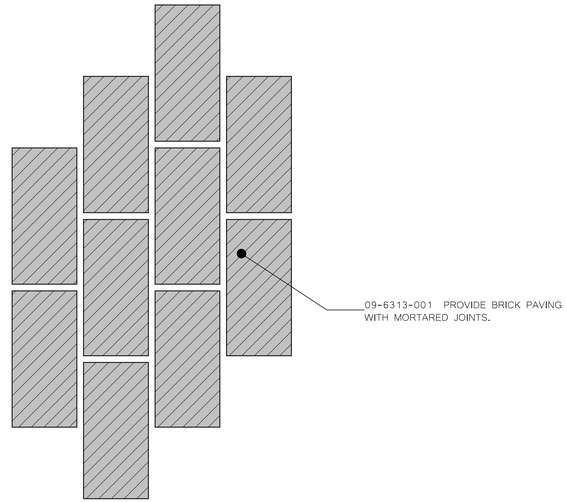


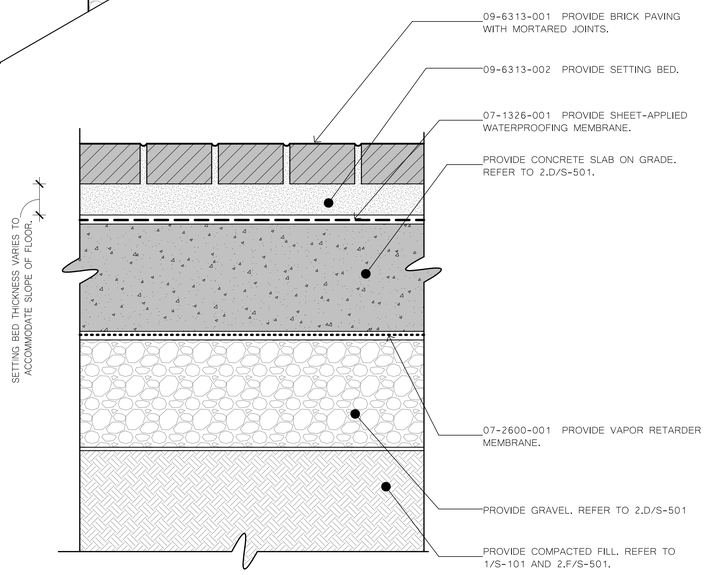

1 A517 SUBBASEMENT LADDER STAIR DETAIL
3/4" = 1'-0"



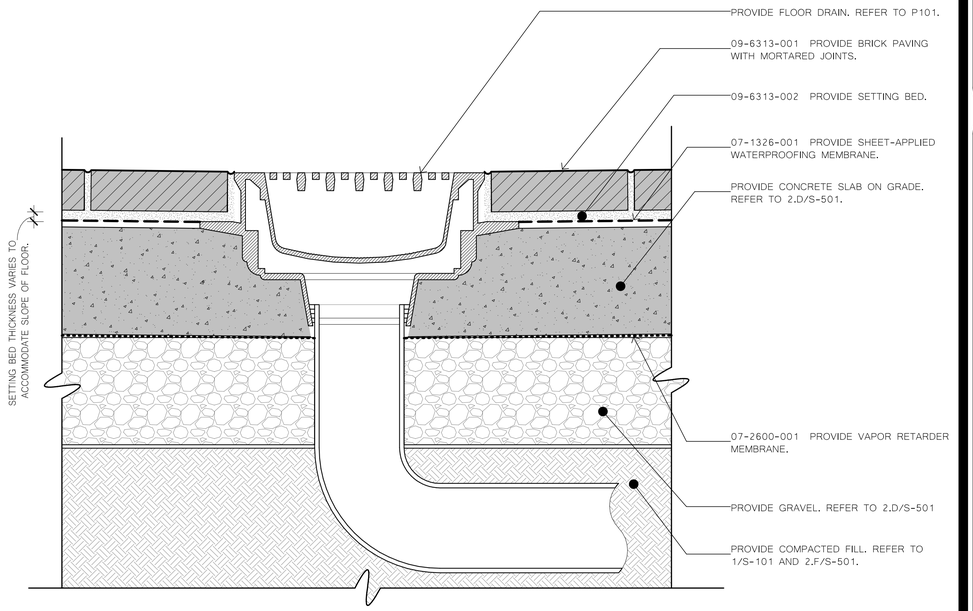

2 A517 PERFORATED PIPE DETAIL
1 1/2" = 1'-0"




4 A517 TYPICAL BRICK PAVING PATTERN
3" = 1'-0"




3 A517 TYPICAL BASEMENT FLOOR DETAIL
3" = 1'-0"




5 A517 TYPICAL BASEMENT FLOOR DRAIN DETAIL
3" = 1'-0"

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DESIGN & CONSTRUCTION

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ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 2 | 10/17/2024 | ADDENDUM 6 |
| 1 | 10/11/2024 | ADDENDUM 5 |
| | 06/21/2024 | BID SET |

| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | |
| DRAWN BY: | |
| FIELD CHECK: | |
| APPROVED: | |

SHEET TITLE:
BASEMENT & SUBBASEMENT DETAILS

DRAWING NUMBER:
A517

SHEET: 162 OF 257

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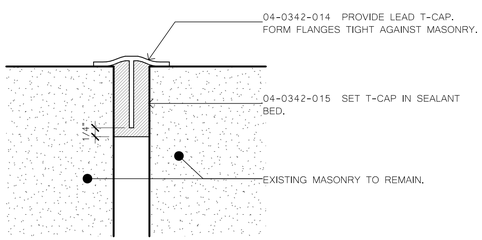
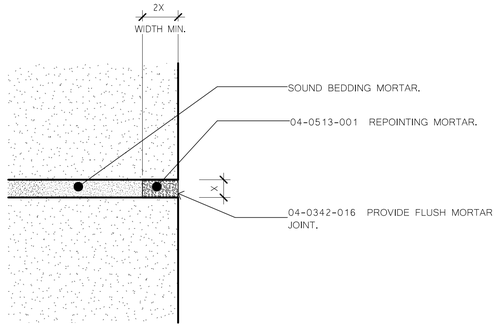
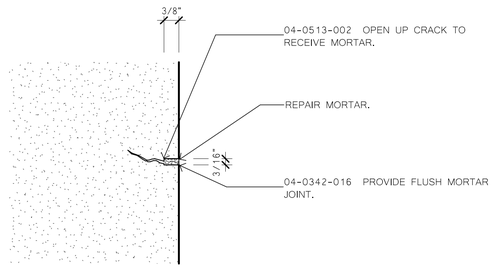



1 A550 TYPICAL T-CAP AT HORIZONTAL JOINT
6" = 1'-0"

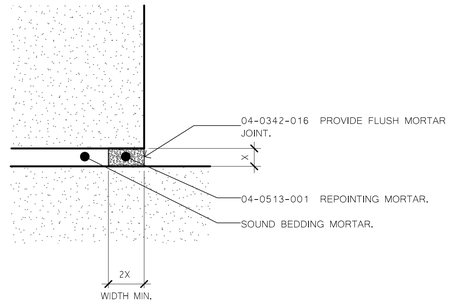



NOTE: TYPICAL UNLESS NOTED OTHERWISE.

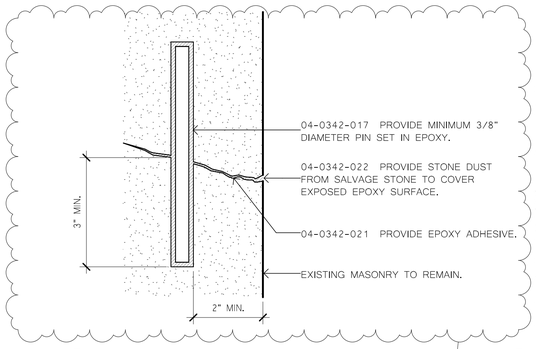
2 A550 TYPICAL STONE MASONRY JOINT
6" = 1'-0"



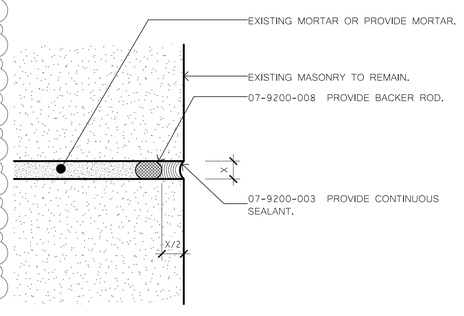

3 A550 TYPICAL STONE CRACK REPAIR
6" = 1'-0"



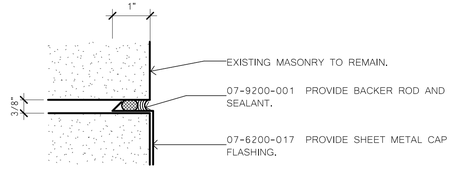

4 A550 TYPICAL STONE CORNER JOINT
6" = 1'-0"



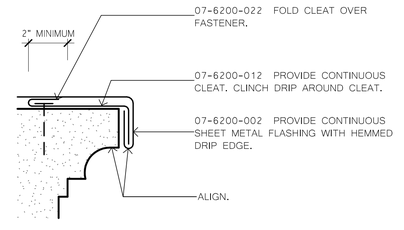

5 A550 TYPICAL STONE PIN REPAIR
6" = 1'-0"



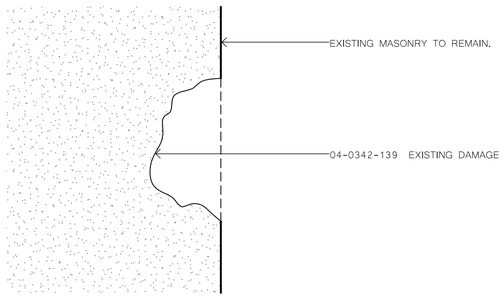

6 A550 TYPICAL FLUSH SEALANT JOINT
6" = 1'-0"



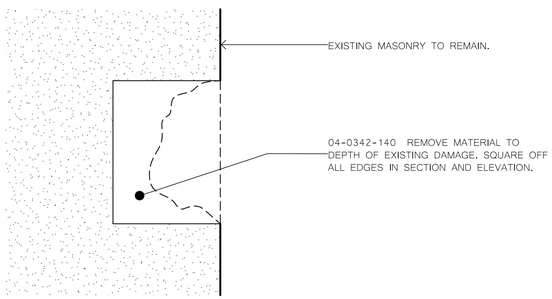

7 A550 TYPICAL REGLET JOINT
6" = 1'-0"



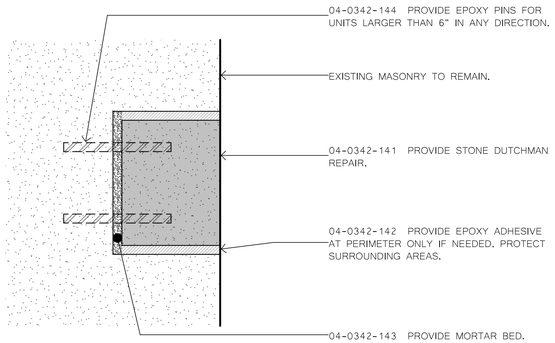

8 A550 TYPICAL DRIP EDGE
6" = 1'-0"




DAMAGED CONDITION

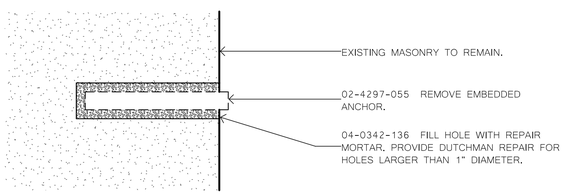



INTERMEDIATE CONDITION

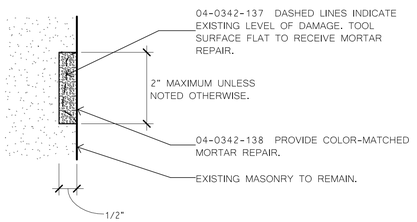



REPAIRED CONDITION

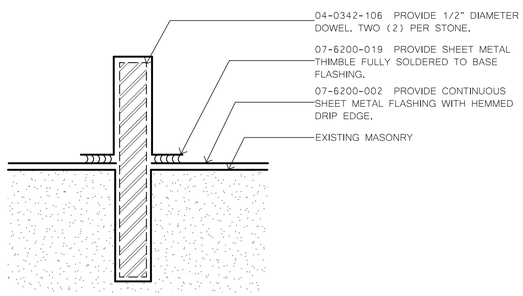
9 A550 TYPICAL STONE DUTCHMAN REPAIR
6" = 1'-0"




10 A550 TYPICAL REPAIR AT EMBEDDED ANCHOR
6" = 1'-0"




11 A550 TYPICAL MORTAR PATCH REPAIR
6" = 1'-0"




12 A550 DOWEL FLASHING DETAIL
6" = 1'-0"

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NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
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REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024<br>06/21/2024 | ADDENDUM 6<br>BID SET |
| PROJECT NUMBER: | | 47331 - C |
| DESIGNED BY: | | |
| DRAWN BY: | | |
| FIELD CHECK: | | |
| APPROVED: | | |

SHEET TITLE:

MASONRY DETAILS

DRAWING NUMBER:

A550

SHEET: 187 OF 257

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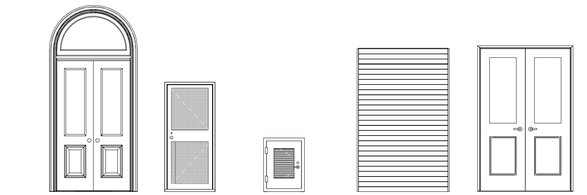
# DOOR SCHEDULE

| DOOR NO. | DOOR WIDTH | DOOR HEIGHT | DOOR THICKNESS | DOOR TYPE | DOOR MATERIAL | DOOR FINISH | DETAIL | HARDWARE GROUP | REMARKS | DOOR NO. |
|---|---|---|---|---|---|---|---|---|---|---|
| TEMPORARY ENTRANCE | | | | | | | | | | |
| T001 | 6' - 0" | 6' - 8" | 0' - 1 3/4" | K | MTL | | 3,4/G014 | 5 | | T001 |
| T002 | 6' - 0" | 6' - 8" | 0' - 1 3/4" | K | MTL | | 3,4/G014 | 5 | | T002 |
| T003 | 6' - 0" | 6' - 8" | 0' - 1 3/4" | K | MTL | | 3,4/G014 | 6 | | T003 |
| T004 | 6' - 0" | 6' - 8" | 0' - 1 3/4" | K | MTL | | 3,4/G014 | 6 | | T004 |
| T005 | 6' - 0" | 6' - 8" | 0' - 1 3/4" | K | MTL | | 3,4/G014 | 6 | | T005 |
| NORTH PROMENADE BASEMENT | | | | | | | | | | |
| 34 | 2' - 3 1/2" | 3' - 0" | 0' - 1 1/2" | C | S.S. | P | 1,2/A602 | 3 | PROVIDE DOOR AND FRAME IN EXISTING MASONRY OPENING. | 34 |
| 36 | 2' - 3 1/2" | 3' - 0" | 0' - 1 1/2" | C | S.S. | P | 1,2/A602 | 3 | PROVIDE DOOR AND FRAME IN EXISTING MASONRY OPENING. | 36 |
| 37 | 2' - 3 1/2" | 3' - 0" | 0' - 1 1/2" | C | S.S. | P | 1,2/A602 | 3 | PROVIDE DOOR AND FRAME IN EXISTING MASONRY OPENING. | 37 |
| 40 | 2' - 3 1/2" | 3' - 0" | 0' - 1 1/2" | C | S.S. | P | 1,2/A602 | 3 | PROVIDE DOOR AND FRAME IN EXISTING MASONRY OPENING. | 40 |
| 43.5 | 5' - 0" | 8' - 0" | | D | S | P | 5,6/A602 | | PROVIDE DOOR AND FRAME IN EXISTING MASONRY OPENING. | 43.5 |
| SOUTH PROMENADE BASEMENT | | | | | | | | | | |
| 50 | 5' - 0" | 8' - 0" | 0' - 1 3/4" | E | WD | P | 3,4/A602 | 4 | PROVIDE NEW DOORS AND FRAME. | 50 |
| 52 | 4' - 0" | 4' - 9" | 0' - 1 1/2" | C | S.S. | P | 1,2/A602 | 3 | PROVIDE DOOR AND FRAME IN EXISTING MASONRY OPENING. | 52 |
| 53 | 2' - 3 1/2" | 3' - 0" | 0' - 1 1/2" | C | S.S. | P | 1,2/A602 | 3 | PROVIDE DOOR AND FRAME IN EXISTING MASONRY OPENING. | 53 |
| 55 | 2' - 3 1/2" | 3' - 0" | 0' - 1 1/2" | C | S.S. | P | 1,2/A602 | 3 | PROVIDE DOOR AND FRAME IN EXISTING MASONRY OPENING. | 55 |
| 55A | 2' - 3 1/2" | 3' - 0" | 0' - 1 1/2" | C | S.S. | P | 1,2/A602 | 3 | PROVIDE DOOR AND FRAME IN EXISTING MASONRY OPENING. | 55A |
| 60 | 2' - 3 1/2" | 3' - 0" | 0' - 1 1/2" | C | S.S. | P | 1,2/A602 | 3 | PROVIDE DOOR AND FRAME IN EXISTING MASONRY OPENING. | 60 |
| BASEMENT | | | | | | | | | | |
| N07 | 4' - 11" | 7' - 0" | 0' - 1 3/4" | A | WD | P | 3,5/A601 | 1 | | N07 |
| S07 | 4' - 11" | 7' - 0" | 0' - 1 3/4" | A | WD | P | 2,3/A601 | 1 | | S07 |
| ATTIC | | | | | | | | | | |
| 104 | 2' - 9 3/4" | 6' - 1 1/2" | 0' - 1 1/4" | B | S | P | | 2 | RESTORE HISTORIC STEEL DOOR LEAF. PREPARE AND PAINT. PROVIDE STAINLESS STEEL HOLLOW METAL DOOR FRAME. PREPARE AND PAINT. | 104 |
| EAST ENTRY | | | | | | | | | | |
| 100 | 5' - 2" | 16' - 8" | | J | WD | P | 3,4,5/A603 | 11 | PROVIDE WOOD DOOR TO MATCH EXISTING HISTORIC DOOR. EXISTING FRAME AND TRANSOM TO REMAIN. PREPARE AND PAINT. | 100 |
| 101 | 9' - 0 1/2" | 11' - 8 11/16" | | F | | | | | NO WORK. | 101 |
| 102 | 9' - 0 1/2" | 11' - 8 11/16" | | G | | | | | NO WORK. | 102 |
| 103 | 9' - 0 1/2" | 11' - 8 11/16" | | F | | | | | NO WORK. | 103 |
| 105 | 3' - 0" | 6' - 8" | 0' - 1 3/4" | L | WD | | 1,2/A603 | 12 | PROVIDE WOOD DOOR TO MATCH EXISTING DOORS IN ADJACENT ROOMS. | 105 |
| 110 | 3' - 0" | 6' - 8" | 0' - 1 3/4" | L | WD | | | 10 | PROVIDE CARD READER ACCESS. | 110 |
| 111 | 3' - 0" | 6' - 8" | 0' - 1 3/4" | L | WD | | | 10 | PROVIDE CARD READER ACCESS. | 111 |
| EAST PORTICO | | | | | | | | | | |
| 201 | 9' - 0 1/2" | 11' - 8 11/16" | | H | | | | | NO WORK. | 201 |
| 202 | 9' - 0 1/2" | 11' - 8 11/16" | | I | | | | | NO WORK. | 202 |
| 203 | 9' - 0 1/2" | 11' - 8 11/16" | | H | | | | | NO WORK. | 203 |

# GATE SCHEDULE

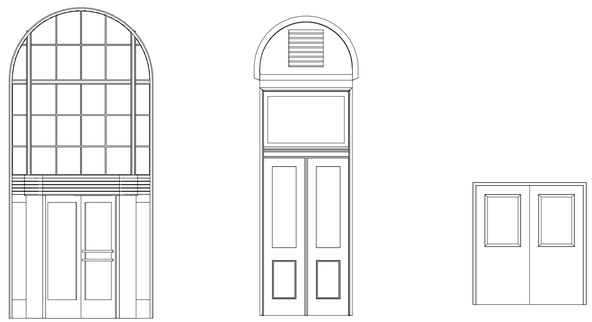
| GATE NO. | WIDTH | HEIGHT | THICKNESS | MATERIAL | FINISH | DETAIL | HARDWARE GROUP | REMARKS | GATE NO. |
|---|---|---|---|---|---|---|---|---|---|
| NORTH PROMENADE | | | | | | | | | |
| G01 | 2' - 10 1/2" | 4' - 0" | 1 1/2" | MTL | P | 5/A545 | 9 | | G01 |
| G02 | 6' - 3 3/8" | 6' - 10" | 1 1/2" | MTL | P | 7/A545 | 9 | | G02 |
| SOUTH PROMENADE | | | | | | | | | |
| G03 | 2' - 8 1/2" | 4' - 0" | 1 1/2" | MTL | P | 6/A545 | 9 | | G03 |
| G04 | 6' - 3 3/8" | 6' - 10" | 1 1/2" | MTL | P | 7/A545 | 9 | | G04 |
| NORTH EXECUTIVE DRIVE | | | | | | | | | |
| G05 | 3' - 7 1/2" | 6' - 8" | 1 1/2" | MTL | P | 8/A544 | 8 | | G05 |
| G06 | 6' - 5 1/2" | 7' - 8" | 1 1/2" | MTL | P | 7/A544 | 7 | | G06 |
| G07 | 6' - 5 1/2" | 7' - 8" | 1 1/2" | MTL | P | 7/A544 | 7 | | G07 |
| SOUTH EXECUTIVE DRIVE | | | | | | | | | |
| G08 | 4' - 5 1/2" | 6' - 8" | 1 1/2" | MTL | P | 8/A544 | 8 | | G08 |
| G09 | 6' - 5 1/2" | 7' - 8" | 1 1/2" | MTL | P | 7/A544 | 7 | | G09 |
| G10 | 6' - 5 1/2 | 7' - 8" | 1 1/2" | MTL | P | 7/544 | 7 | | G10 |
| LANDING 2 | | | | | | | | | |
| G11 | 3' - 4 7/8" | 4' - 0" | 1 1/2" | MTL | P | 2/A546 | 9 | | G11 |
| G12 | 3' - 4 7/8" | 4' - 0" | 1 1/2" | MTL | P | 2/A546 | 9 | | G12 |

## LEGEND - DOOR TYPES:



TYPE A TYPE B TYPE C TYPE D TYPE E

TYPE F TYPE G TYPE H



TYPE I TYPE J TYPE K

TYPE L

S.S. - STAINLESS STEEL

P - PAINTED

WD - WOOD

S - STEEL

GL - GLASS

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT:

John G. Waite Associates PLLC Architects

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE DRAWINGS ARE IN CONFORMANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

WARNING:

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

REGISTERED ARCHITECT JOHN G. WAITE, JR. 014437 STATE OF NEW YORK

CONTRACT:

CONSTRUCTION

TITLE:

REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICO, AND EXECUTIVE RAMP

LOCATION:

NEW YORK STATE CAPITOL

ALBANY, NY

CLIENT:

OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |

| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | |
| DRAWN BY: | |
| FIELD CHECK: | |
| APPROVED: | |

SHEET TITLE:

DOOR SCHEDULE AND DETAILS

DRAWING NUMBER:

A600

SHEET: 190 OF 257

## GENERAL NOTES

1. COORDINATE ALL STRUCTURAL WORK WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SHALL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE NEW YORK STATE BUILDING CODE. ALL GOVERNING STANDARDS LISTED IN THESE NOTES SHALL BE THE EDITION REFERENCED IN THIS GOVERNING CODE.

2. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING, BRACING AND SHEETING AND SHALL MAKE SAFE ALL FLOORS, ROOFS, WALLS AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE. SHORING AND SHEETING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION, HIRED BY THE CONTRACTOR, WHO SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE OWNER'S REVIEW.

3. DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION GIVEN IN STRUCTURAL DRAWINGS ARE BASED ON INFORMATION CONTAINED IN VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER, AND LIMITED FIELD OBSERVATIONS AND MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE DIRECTOR'S REPRESENTATIVE FOR EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS PUT IN PLACE.

4. THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. THESE NOTES HIGHLIGHT RATHER THAN REPLACE THE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS FOR GUIDANCE.

## CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS.
   - A. AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318).
   - B. ACI "MANUAL OF CONCRETE PRACTICE" LATEST EDITION
   - C. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE".

2. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.

3. SUBMIT A PROJECT-SPECIFIC SIGNED AND SEALED CONCRETE MIX DESIGN FOR EACH CONCRETE TYPE SPECIFIED IN THE CONTRACT DOCUMENTS. WHERE 033000 SPECIFICATIONS HAVE BEEN INCLUDED IN THE CONTRACT DOCUMENTS, REFER TO THAT SPECIFICATION SECTION FOR BALANCE OF MIX DESIGN REQUIREMENTS (AGGREGATES, ADMIXTURES, W/C RATIO, AIR CONTENT, ETC.)

5. REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 OR A775 EPOXY COATED WHEN CALLED OUT ON PLAN. REINFORCING STEEL SHALL BE DETAILED ACCORDING TO THE ACI "DETAILS AND DETAILING OF REINFORCEMENT", (ACI 315).

6. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064, WITH A MINIMUM YIELD STRENGTH OF 65,000 PSI.

7. REINFORCING STEEL TO BE WELDED TO CONFORM TO ASTM A706 GRADE 60.

8. COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND PIPE SLEEVES WITH ALL OTHER DISCIPLINES. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6".

9. PROVIDE COORDINATED MEP TRADE SUBMITTALS FOR DESIGN TEAM REVIEW OF PENETRATIONS. ALL TRADES SHALL BE OVERLAID INTO ONE SUBMITTAL TO CAPTURE AND EVALUATE ALL PENETRATIONS THROUGH SLABS AND WALLS TOGETHER.

10. ALL GROUT SHALL BE NONSHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.

11. MINIMUM CONCRETE COVER FOR REINFORCING STEEL IN CAST-IN-PLACE NON-PRESTRESSED MEMBERS SHALL BE AS FOLLOWS:
   - A. ALL CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND: 3"
   - B. ALL CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
     - a. 2" (#6 THROUGH #18 BARS)
     - b. 1½" (#5 BAR, W31 OR D31 WIRE, AND SMALLER)
   - C. NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
     - a. SLABS, JOISTS, AND WALLS:
       - 1½" (#14 THROUGH #18 BARS)
       - ¾" (#11 BAR AND SMALLER)
     - b. BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES (STIRRUPS, TIES, SPIRALS, HOOPS, AND PRIMARY REINFORCEMENT): 1½"
   - D. SHEAR WALLS: SEE ELEVATIONS FOR SPECIFIED CONCRETE COVER.

12. SHOP DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO CONCRETE WORK SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.

13. CLEAN AND ROUGHEN TO ¼" AMPLITUDE ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE PRIOR TO PLACEMENT.

14. SEE OTHER DRAWINGS IN THIS PROJECT FOR SIZE AND LOCATIONS OF EQUIPMENT PADS, INSERTS AND EMBED ITEMS.

15. REINFORCING DOWELS, WATERSTOPS AND OTHER EMBED ITEMS SHALL BE INSTALLED AND SECURED PRIOR TO CONCRETE PLACEMENT. "WET-SETTING" OF EMBEDDED ITEMS IS NOT PERMITTED.

16. WELDED WIRE REINFORCEMENT IN COMPOSITE CONSTRUCTION SHALL HAVE TENSION SPLICES AND BE ANCHORED AT DISCONTINUOUS EDGES.

17. CONDUIT EMBEDDED IN CONCRETE SHALL FOLLOW THE GUIDELINES IN THE TYPICAL DETAILS. THE CONTRACTOR SHALL NOT VIOLATE THESE GUIDELINES WITHOUT WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD. CONTRACTOR TO PROVIDE SHOP DRAWINGS SHOWING LAYOUT OF ALL EMBEDDED CONDUIT FOR APPROVAL BY ENGINEER OF RECORD BEFORE PLACEMENT.

18. MASS CONCRETE – PER ACI, PLACEMENT OF STRUCTURAL CONCRETE WITH A LEAST DIMENSION EQUAL TO OR GREATER THAN 4 FEET SHALL BE CONSIDERED "MASS CONCRETE." SIMILAR CONSIDERATIONS SHOULD BE GIVEN TO OTHER CONCRETE PLACEMENTS THAT DO NOT MEET THIS MINIMUM DIMENSION BUT CONTAIN TYPE III CEMENT, ACCELERATING ADMIXTURES, OR CEMENTITIOUS MATERIALS IN EXCESS OF 660 LB./YD3 OF CONCRETE. CONSIDERATION SHOULD ALSO BE GIVEN TO PLACEMENTS THAT TRAP HEAT. WHERE APPLICABLE PER ACI DEFINITION ABOVE, CONTRACTOR SHALL ADHERE TO MASS CONCRETE PROCEDURES AND RECOMMENDATIONS OF ACI301 AND ACI211. CONTRACTOR SHALL PROVIDE SPECIFIC MASS CONCRETE MIX DESIGN TO MINIMIZE HEAT.

## STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
   - A. AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
   - B. AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
   - C. AMERICAN WELDING SOCIETY (AWS D1.1) "STRUCTURAL WELDING CODE – STEEL".
   - D. RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS".

2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
   - A. WIDE FLANGE BEAMS, COLUMNS AND STRUCTURAL TEES: ASTM A992.
   - B. HOLLOW STRUCTURAL SECTIONS: ASTM A500, GRADE C.
   - C. STRUCTURAL PIPE SECTIONS: ASTM A53, GRADE B.
   - D. CHANNELS, ANGLES AND PLATES: ASTM A36 UNLESS OTHERWISE NOTED.
   - E. BOLTED CONNECTIONS SHALL BE PER ASTM F3125. GRADES ARE TO BE SELECTED AS FOLLOWS:
     - a. STANDARD BEAM TO BEAM/GIRDER: ASTM F3125, GRADES A325, F1852, A490 OR F2280 BOLTS IN SNUG-TIGHTENED JOINTS (¾" DIAMETER MINIMUM WITH HARDENED WASHERS).
     - b. BEAM/GIRDER TO COLUMN CONNECTIONS, COLUMN SPLICES AND BOLTS EXPERIENCING TENSION LOADS (UNLESS OVERSIZED OR SLOTTED HOLES ARE USED, IN WHICH CASE SLIP-CRITICAL JOINTS SHALL BE USED): ASTM F3125, GRADES A325, F1852, A490 OR F2280 BOLTS IN PRETENSIONED JOINTS (¾" DIAMETER MINIMUM WITH HARDENED WASHERS).
     - c. PER AISC 341, ALL BOLTS SHALL BE INSTALLED AS PRETENSIONED HIGH STRENGTH BOLTS AND MEET THE REQUIREMENTS FOR SURFACE PREPARATION FOR SLIP CRITICAL CONNECTIONS WITH CLASS A SLIP COEFFICIENT OR HIGHER. THE AVAILABLE SHEAR STRENGTH OF BOLTED JOINTS USING STANDARD HOLES SHALL BE CALCULATED AS THAT FOR BEARING TYPE JOINTS.
   - F. STRUCTURAL STEEL NOTED TO BE STAINLESS STEEL SHALL BE ASTM A276 STAINLESS STEEL TYPE 316L [304L], UNLESS NOTED OTHERWISE.
   - G. ALL STAINLESS STEEL BOLTS SHALL CONFORM TO ASTM F593 GRADE B8/B8M FOR TYPE 304/316, RESPECTIVELY, TO MATCH MATERIAL JOINED.
   - H. ALL STAINLESS STEEL NUTS SHALL CONFORM TO ASTM F594 GRADE 8/8M FOR TYPE 304/316, RESPECTIVELY, TO MATCH BOLT MATERIAL.

3. STEEL CONNECTION SHALL BE STANDARD AISC FRAMED BEAM CONNECTIONS, AND SHALL BE DESIGNED BY A LICENSED ENGINEER WORKING FOR THE FABRICATOR, WHO SHALL PROVIDE CALCULATIONS, USING ASD LOADS AND PROCEDURES.
   - A. WHERE CONNECTIONS HAVE BEEN DESIGNED BY A LICENSED ENGINEER, STEEL CONTRACTOR IS RESPONSIBLE FOR INTEGRATING RESULTS OF ALL CALCULATIONS INTO THE SHOP DRAWINGS WHICH ARE BASED ON AISC DOUBLE ANGLE CONNECTIONS.
   - B. UNLESS OTHERWISE NOTED ON PLAN, PROVIDE CONNECTIONS BASED ON MINIMUM SHEAR CAPACITY REQUIREMENTS IN THE FOLLOWING TABLE

| MINIMUM SHEAR CAPACITY REQUIREMENTS | | | |
|---|---|---|---|
| NOMINAL BEAM DEPTH | MIN. SHEAR CAPACITY ASD (kips) | MIN. SHEAR CAPACITY LRFD (kips) | MIN. NUMBER OF BOLT ROWS |
| 8", 10" | 23 | 34 | 2 |
| 12", 14" | 36 | 54 | 3 |
| 16" | 45 | 68 | 3 |

   - C. REINFORCING IS TO BE PROVIDED AT CONNECTIONS WHERE CUTS REDUCE THE SHEAR OR MOMENT CAPACITY BELOW THAT REQUIRED TO SUSTAIN THE REACTION. FLANGES AND WEBS ARE TO BE REINFORCED WHERE THE LOCAL CAPACITY TO SUSTAIN CONNECTION LOADS ARE INADEQUATE. CUTS OR COPES MAY PREVENT MINIMUM NUMBER OF BOLT ROWS SHOWN ABOVE FROM BEING ACHIEVED, WHICH IS ACCEPTABLE PENDING WRITTEN APPROVAL AND CONFIRMATION THAT MINIMUM SHEAR CAPACITY HAS BEEN MET.
   - D. CONNECTIONS SHALL BE DESIGNED FOR SHEAR AND ECCENTRICITY, CONSIDERING THAT THE CONNECTIONS ARE AN EXTENSION OF THE BEAMS AND GIRDERS.

4. MINIMUM WELD SIZE IS ¼" FILLET UNLESS NOTED OTHERWISE.

5. ALL BEAMS EXCEPT CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED WITH NATURAL CAMBER UP. CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED SO THAT NATURAL CAMBER RAISES CANTILEVER END.

6. FIELD CUTTING OR BURNING OF STEEL IS PROHIBITED EXCEPT WITH THE EXPRESSED WRITTEN APPROVAL OF THE DIRECTOR'S REPRESENTATIVE (IN WHICH CASE ALL BURNING OF STEEL MUST CONFORM TO THE THERMAL CUTTING REQUIREMENTS OF AISC AND AWS).

7. WELDING SHALL BE PERFORMED BY CERTIFIED, AWS-QUALIFIED WELDERS. WELDING ELECTRODES FOR CARBON STEEL SHALL BE AWS 5.1, CLASS E70XX. FOR ASTM A572 GRADE 50 KSI PLATE USE ELECTRODE E7018 OR APPROVED EQUAL. WELDING ELECTRODES FOR ASTM A276 STAINLESS STEEL, TYPE 304, SHALL CONFORM TO AWS A5.4 FOR SHIELDED METAL ARC WELDING, ELECTRODE CLASS E308; OR AWS A5.9 FOR GAS METAL ARC WELDING, ELECTRODE CLASS ER308. WELDING ELECTRODES FOR ASTM A276 TYPE 316L STAINLESS STEEL SHALL CONFORM TO AWS A5.4 FOR SHIELDED METAL ARC WELDING, ELECTRODE CLASS E316; OR AWS A5.9 FOR GAS METAL ARC WELDING, ELECTRODE CLASS ER316. WELDING ELECTRODES FOR JOINING STAINLESS STEEL TO CARBON STEEL SHALL CONFORM TO ELECTRODE CLASS E309/ER309.

8. HOT-DIP GALVANIZE EXPOSED STEEL MEMBERS, STEEL MEMBERS ENCASED IN CONCRETE AND ALL STEEL MEMBERS AT THE EXTERIOR WALL. ⚠

9. SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL. NO FABRICATION OF STEEL SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.

10. SHOP DRAWING SUBMITTALS SHALL FOLLOW THE FOLLOWING SEQUENCE (WITH EACH NOT BEING SUBMITTED UNTIL THE PREVIOUS ONE IS APPROVED):
    - A. JOB STANDARDS (BASIS OF DESIGN AND REPRESENTATIVE CALCULATIONS FOR VARIOUS CONNECTION TYPES)
    - B. ERECTION PLANS
    - C. PIECE DETAILS AND PIECE-SPECIFIC CONNECTION CALCULATIONS

## SPECIAL INSPECTIONS

1. INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION SHALL BE PERFORMED BY A TESTING AGENCY PROVIDED BY THE OWNER FOR THE FOLLOWING ITEMS:
   - A. INSPECTION OF FABRICATORS (IBC 1704.2.5)
   - B. STEEL CONSTRUCTION (IBC 1705.2)
     - i. STRUCTURAL STEEL (IBC 1705.2.1)
       1. STRUCTURAL STEEL WELDING (AISC 360, AWD D1.1)
       2. HIGH STRENGTH BOLTS (AISC 360)
   - C. CONCRETE CONSTRUCTION (IBC 1705.3, TABLE 1705.3)
     - i. WELDING OF REINFORCING BARS (IBC 1705.3.1 TABLE 1705.3)
     - ii. MATERIALS TESTS (IBC 1705.3.2, TABLE 1705.3)
     - iii. POST-INSTALLED ANCHORS (IBC TABLE 1705.3, ACI 318 CHAPTER 17)
   - D. MASONRY CONSTRUCTION (IBC 1705.4, ACI 530 AND ACI 530.1 LEVEL B QUALITY ASSURANCE)

2. STRUCTURAL OBSERVATIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION AND IBC 1704.5 SHALL BE PERFORMED BY A REGISTERED DESIGN PROFESSIONAL PROVIDED BY THE DIRECTOR'S REPRESENTATIVE (TYP.). STRUCTURAL OBSERVATIONS SHALL BE THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.
3. TESTING AGENCY FOR THE INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH THE AUTHORITY HAVING JURISDICTION.

## STANDARD ABBREVIATIONS

| | | | |
|---|---|---|---|
| ADD'L. | ADDITIONAL | I.J. | ISOLATION JOINT |
| ADJ. | ADJACENT | INFO. | INFORMATION |
| A/E | DESIGN TEAM OF RECORD | INT. | INTERIOR |
| ALT. | ALTERNATE | JT. | JOINT |
| ANCH. | ANCHOR | K | KIPS |
| APPROX. | APPROXIMATE/APPROXIMATLEY | LB. | POUND |
| ARCH. | ARCHITECTURAL/ARCHITECT | L.L. | LIVE LOAD |
| B.O. | BOTTOM OF | LLBB | LONG LEGS BACK-TO-BACK |
| BLDG. | BUILDING | LLH | LONG LEG HORIZONTAL |
| BM. | BEAM | LLV | LONG LEG VERTICAL |
| BOT. | BOTTOM | L.P. | LOW POINT |
| BRG. | BEARING | L.W. | LIGHTWEIGHT |
| BSMT. | BASEMENT | MAS. | MASONRY |
| CANT. | CANTILEVER | MAX. | MAXIMUM |
| CFS. | COLD FORMED STEEL | MECH. | MECHANICAL |
| C.I.P. | CAST IN PLACE | MEP | MECH., ELEC., PLUMBING, & FIRE PROTECTION |
| C.J. | CONTRACTION JOINT | MFR. | MANUFACTURER |
| CLG. | CEILING | MIN. | MINIMUM |
| CLR. | CLEAR | MISC. | MISCELLANEOUS |
| CMU | CONCRETE MASONRY UNIT | M.O. | MASONRY OPENING |
| COL. | COLUMN | MPII | MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS |
| COMPS. | COMPOSITE | N.F. | NEAR FACE |
| CONC. | CONCRETE | N.I.C. | NOT IN CONTRACT |
| CONST. | CONSTRUCTION | NO. | NUMBER |
| CONT. | CONTINUOUS | N.S. | NEAR SIDE |
| COORD. | COORDINATE/COORDINATION | N.T.S. | NOT TO SCALE |
| CONTR. | CONTRACTOR | N.W. | N.W. NORMAL WEIGHT |
| COTR | CONTRACTING OFFICER'S TECHNICAL REP. | O.C. | ON CENTER |
| CTR. | CENTER | O.D. | OUTSIDE DIAMETER |
| DBL. | DOUBLE | O.F. | OUTSIDE FACE |
| DEMO. | DEMOLITION/DEMOLISH | OPNG. | OPENING |
| DTL. | DETAIL | OPP. | OPPOSITE |
| DIA. | DIAMETER | PC. | PIECE |
| DIAG. | DIAGONAL | PED. | PEDESTAL |
| DIM. | DIMENSION | PERP. | PERPENDICULAR |
| D.L. | DEAD LOAD | PL. | PLATE |
| DN. | DOWN | PLF | POUNDS PER LINEAR FOOT |
| DWG(S). | DRAWING(S) | PREFAB. | PREFABRICATED |
| DWL. | DOWEL | PSF | POUNDS PER SQUARE FOOT |
| EA. | EACH | PSI | POUNDS PER SQUARE INCH |
| E.O. | EDGE OF | REINF. | REINFORCE(D), REINFORCEMENT |
| E.F. | EACH FACE | REQ'D. | REQUIRED |
| EXIST. | EXISTING | REV. | REVISION |
| EXP. JT. | EXPANSION JOINT | SCHED. | SCHEDULE |
| EL. | ELEVATION | SECT. | SECTION |
| ELEC. | ELECTRICAL | SIM. | SIMILAR |
| ELEV. | ELEVATOR | SLBB | SHORT LEGS BACK-TO-BACK |
| EMBED. | EMBEDMENT | S.O.G. | SLAB ON GRADE |
| ENGR. | ENGINEER | SPEC | SPECIFICATION |
| E.O.R. | ENGINEER OF RECORD | SQ. | SQUARE |
| EQ. | EQUAL | S.S. | STAINLESS STEEL |
| EXP. | EXPANSION | STD | STANDARD |
| EXT. | EXTERIOR | STIFF. | STIFFENER |
| E.W. | EACH WAY | STL. | STEEL |
| FDN. | FOUNDATION | S-W | SHORT WAY |
| FIN. | FINISH | SYM. | SYMMETRIC |
| FLR. | FLOOR | T.O. | TOP OF |
| FRMG. | FRAMING | T & B | TOP & BOTTOM |
| F.S. | FAR SIDE | TEMP. | TEMPORARY/TEMPERATURE |
| FT. | FEET | TYP. | TYPICAL |
| FTG. | FOOTING | U.N.O. | UNLESS NOTED OTHERWISE |
| GA. | GAGE/GAUGE | VERT. | VERTICAL |
| GALV. | GALVANIZED | W/ | WITH |
| G.B. | GRADE BEAM | W.P. | WORK POINT |
| HDR. | HEADER | W.W.R. | WELDED WIRE REINFORCEMENT |
| HGR. | HANGER | # | NUMBER/SIZE |
| HORIZ. | HORIZONTAL | ℄ | CENTERLINE |
| H.P. | HIGH POINT | ø | DIAMETER |
| HT. | HEIGHT | ℙ | PLATE/PROPERTY LINE |
| I.D. | INSIDE DIAMETER | | |
| I.F. | INSIDE FACE | | |

### STANDARD ABBREVIATIONS FOR EXISTING STRUCTURES

| | | | |
|---|---|---|---|
| C.I. | CAST IRON | T.C. | TERRACOTTA |
| (E) | EXISTING MEMBER OR DIMENSION | V.I.F. | VERIFY IN FIELD |
| EXIST. | EXISTING | | |

### LOADING SCHEDULE

| | PSF | STAIR & LANDINGS |
|---|---|---|
| **DEAD LOAD** | | |
| SELF-WEIGHT OF STEEL | SELF-VARIES AS NOTED ON PLAN | |
| CONCRETE FILL | SELF-VARIES AS NOTED ON PLAN | |
| 6" STONE | 75 | 75 |
| **LIVE LOAD** | | |
| STAIRCASE | 100 | 100 |
| ROADWAY | SEE S-600 TO S-900 SERIES AND CIVIL DRAWINGS | |
| RAILING | 50 LB/LIN. FT AND 200 LB CONCENTRATED LOAD | |
| **SNOW LOAD** | | |
| **GROUND SNOW LOAD** | 40 | 40 |
| **DEAD LOAD TOTAL** | | |
| DL + LL | | 175 |

DESIGN APPROACH USES NEW YORK STATE EXISTING BUILDING CODE PROVISIONS CHAPTER 12, FOR REPAIRS TO HISTORIC BUILDINGS.


NEW YORK STATE Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT: SILMAN

CERTIFICATE OF AUTHORIZATION #: 0021756

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TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE DRAWINGS ARE IN CONFORMANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.



CONTRACT:

TITLE: NYS CAPITOL - EASTERN APPROACH

LOCATION: NEW YORK STATE CAPITOL, ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

STATE OF NEW YORK — NATHANIEL EZRA OPPENHEIMER — LICENSED PROFESSIONAL ENGINEER — 89888

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |

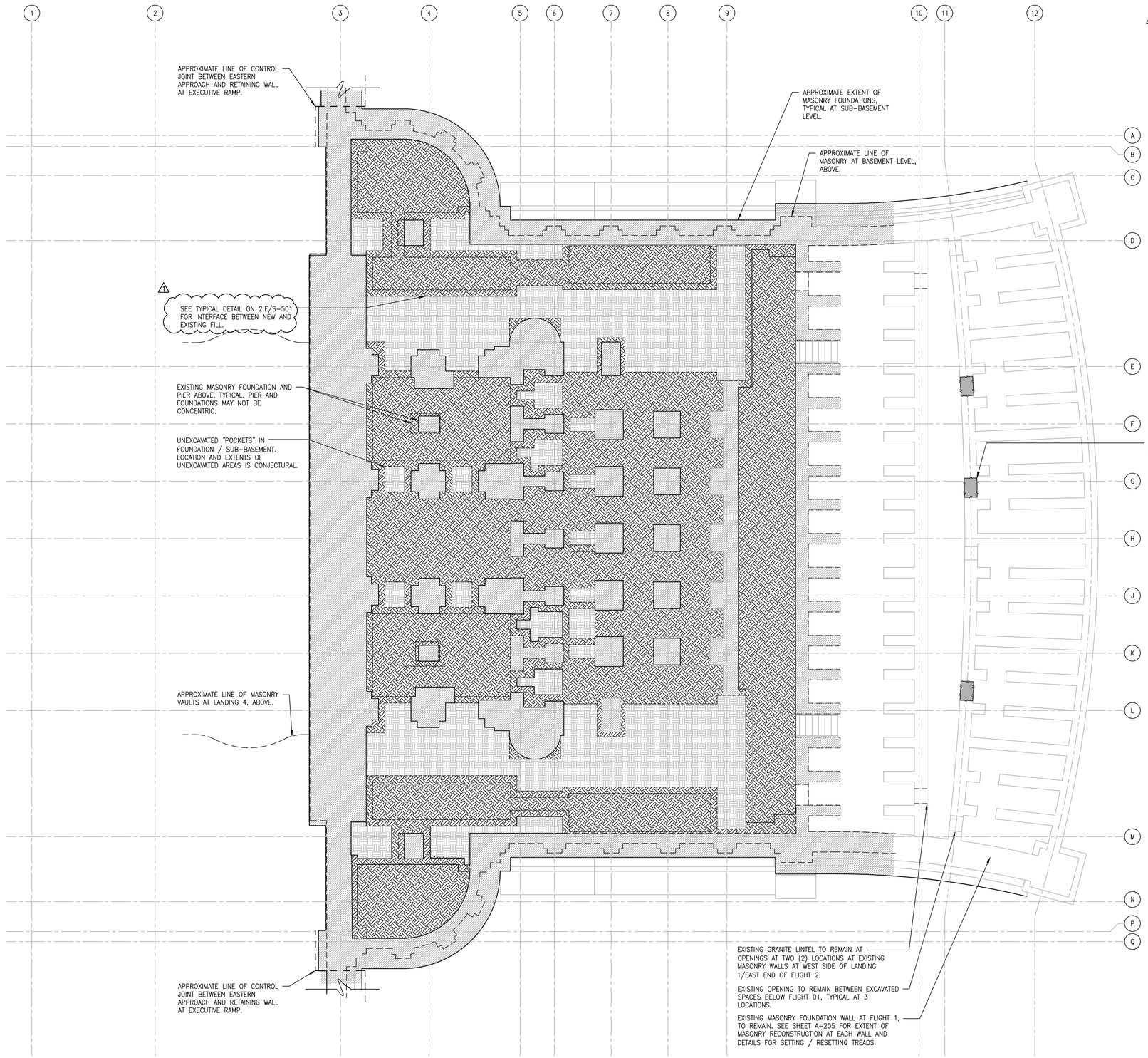
| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | DT / HC |
| DRAWN BY: | MAM / DT |
| FIELD CHECK: | DT |
| APPROVED: | DT |

SHEET TITLE: GENERAL NOTES

DRAWING NUMBER: S-001

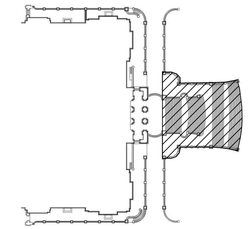
SHEET: 200 OF 257

SILMAN #30749




1 NOTES:
1. REMOVE EXISTING FILL DOWN TO ELEVATION OF FOUNDATION AND REPLACE WITH COMPACTED FILL, SEE PLAN FOR EXTENT. REFER TO 3/A507 FOR FLOOR ASSEMBLY.

LEGEND:
- EXTENT OF REMOVAL
- EXISTING BRICK OR STONE FINISH MASONRY TO REMAIN
- 1 UNDISTURBED FILL
- COMPACTED FILL
- NEW 6" CONCRETE SLAB ON GRADE REINFORCED WITH 6"x6"-W2.9 x W2.9 W.W.F. SEE TYPICAL DETAILS ON S-501.
- NORMAL WEIGHT CONCRETE FILL ABOVE BRICK ARCHES AND BETWEEN BRICK KNEE WALLS
- EXISTING CONCRETE FOOTING
- WALL OR CONCRETE BEAM BELOW
- BA BRICK ARCH
- EXISTING BRICK ARCH
- X APPROXIMATE VOLUME OF FILL (DOT HATCH) AT VAULT TYPE: SEE TABLE 1, SHEET S503.



KEY PLAN

1 / S-101 PLAN – SUB-BASEMENT FRAMING
SCALE: 1/8" = 1'-0"

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DESIGN & CONSTRUCTION

CONSULTANT: SILMAN

CERTIFICATE OF AUTHORIZATION #: 0021756

John G. Waite Associates Architects PLLC
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CONTRACT:

TITLE:
NYS CAPITOL - EASTERN APPROACH

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

STATE OF NEW YORK
NATHANIEL EZRA OPPENHEIMER
LICENSED PROFESSIONAL ENGINEER
89886

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |

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| PROJECT NUMBER: | 47331 - C |
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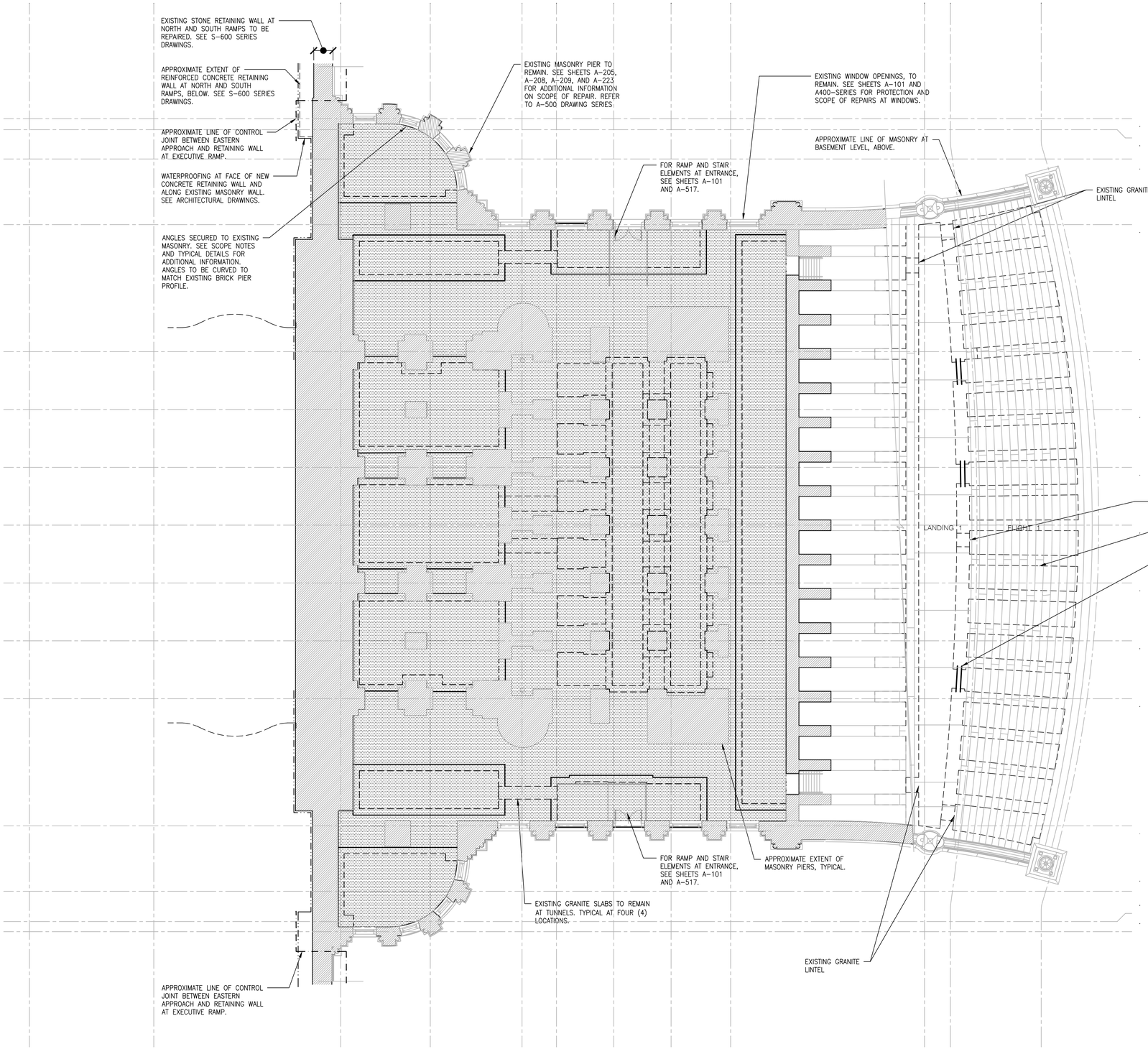
SHEET TITLE:
SUB-BASEMENT FRAMING PLAN

DRAWING NUMBER:
S-101

SHEET: 202 OF 257

SILMAN #30749

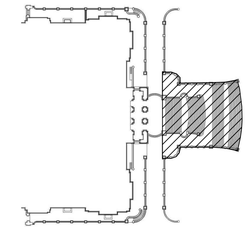



NOTES:

1. STEEL and ASSOCIATED MASONRY
   A. FRAMING SHOWN WITHOUT A BEAM DESIGNATION SHALL BE FRAMED USING STEEL SECTIONS INDICATED ON OTHER SIMILAR AREAS AT THIS LEVEL.
   B. ALL BEAMS TO BE COPED AT TOP FLANGE TO ACCOMMODATE STEEL ANGLE AT PERIMETER OF OPENINGS. SEE NOTE 7, BELOW.
   C. PROVIDE BEARING PLATES AT ALL BEAMS BEARING ON EXISTING MASONRY. SEE TYPICAL DETAIL FOR SCHEDULE.
   D. PROVIDE ANGLES SECURED TO EXISTING MASONRY AT LOCATIONS INDICATED ON PLAN. (SEE NOTE 1, ABOVE FOR DETAIL ON EXTENT OF WORK.) SECURE ANGLES TO MASONRY WITH 1/2"ø TYPE 316 STAINLESS-STEEL THREADED ROD, EMBEDDED 6" INTO MASONRY AND SET IN HILTI HY-270 ADHESIVE WITH STAINLESS-STEEL SCREEN. PROVIDE STAINLESS-STEEL WASHER AND NUT. ANCHORS TO BE AT 2-1/2" FROM END OF ANGLE AND AT MAX. 1'-4" c/c. MINIMUM OF TWO (2) ANCHORS PER ANGLE.
2. COATINGS
   A. ALL STEEL TO BE GALVAINIZED WITH AS INDICATED IN THE "STEEL NOTES" ON S-001.
3. GENERAL
   B. ALL NEW STEEL FRAMING TO BE PLACED AT ELEV. INDICATED ON S-301 AND S-503, AND COORDINATED WITH ELEVATIONS ON THE A400-SERIES SHEETS.

LEGEND:

- EXTENT OF REMOVAL
- EXISTING BRICK OR STONE FINISH MASONRY TO REMAIN
- UNDISTURBED FILL
- COMPACTED FILL
- NEW 6" CONCRETE SLAB ON GRADE REINFORCED WITH 6"x6"-W2.9 x W2.9 W.W.F. SEE TYPICAL DETAILS ON S-501.
- NORMAL WEIGHT CONCRETE FILL ABOVE BRICK ARCHES AND BETWEEN BRICK KNEE WALLS
- EXISTING CONCRETE FOOTING
- WALL OR CONCRETE BEAM BELOW
- BA BRICK ARCH
- EXISTING BRICK ARCH
- APPROXIMATE VOLUME OF FILL (DOT HATCH) AT VAULT TYPE: SEE TABLE 1, SHEET S503.



KEY PLAN

1 S-102 PLAN – BASEMENT FRAMING
SCALE: 1/8" = 1'-0"

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DESIGN & CONSTRUCTION

CONSULTANT: SILMAN

CERTIFICATE OF AUTHORIZATION #: 0021756

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CONTRACT:

TITLE: NYS CAPITOL - EASTERN APPROACH

LOCATION: NEW YORK STATE CAPITOL ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

STATE OF NEW YORK NATHANIEL EZRA DRESSELHUYS LICENSED PROFESSIONAL ENGINEER 89886

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
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| 1 | 10/17/2024 | ADDENDUM 6 |
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| DESIGNED BY: | | DT / HC |
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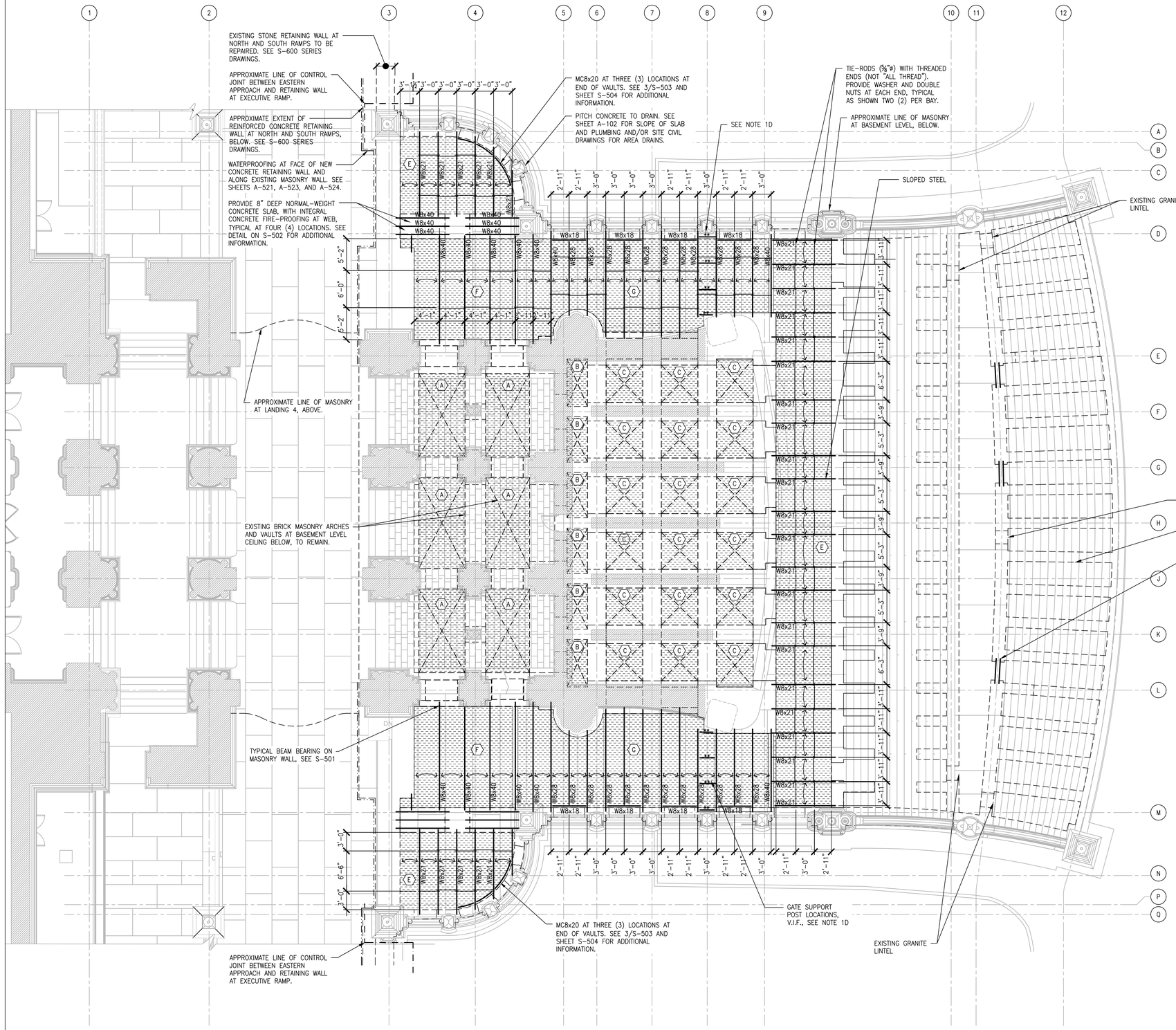
| APPROVED: | | DT |

SHEET TITLE: BASEMENT FRAMING PLAN

DRAWING NUMBER: S-102

SHEET: 203 OF 257

SILMAN #30749




NOTES:

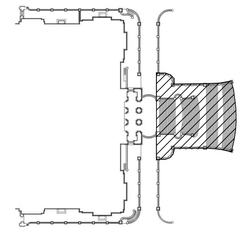
1. STEEL FRAMING and ASSOCIATED MASONRY
   A. FRAMING SHOWN WITHOUT A BEAM DESIGNATION SHALL BE FRAMED USING STEEL SECTIONS INDICATED ON OTHER SIMILAR AREAS AT THIS LEVEL. ASSUME THAT TOP OF STEEL (T.O.S.) IS LEVEL EXCEPT AS NOTED OTHERWISE. WHERE T.O.S. IS SLOPED, SLOPE TO FOLLOW GENERAL PITCH OF TOPPING SLAB (1/4" : 1'-0") TO DRAIN. SEE SHEET A-102 FOR ADDITIONAL INFORMATION REGARDING PITCH.
   B. PROVIDE BEARING PLATES AT ALL BEAMS BEARING ON EXISTING MASONRY TYPICAL BEAM BEARING ON MASONRY WALL, SEE S-501. SEE TYPICAL DETAIL FOR SCHEDULE. EXISTING "STONE TEMPLATES" AT BEAM BEARING TO BE RE-SET AT NEW ELEVATION.
   C. PROVIDE TIE RODS AT BRICK VAULTS. SIZE, NUMBER, AND LOCATIONS OF TIE RODS SHOWN ON PLAN. SEE S-503 FOR ADDITIONAL INFORMATION.
   D. "★" ON PLAN INDICATES W8x24 BEAM FOR GATE POST SUPPORT; COORDINATE LOCATION OF BEAM WITH ARCHITECTURAL GATE POST LOCATIONS. SEE S-504 FOR DETAIL.
2. MASONRY ARCHES
   A. TWO (2) RING, SOLID, RED BRICK VAULT AT LOCATIONS INDICATED THUS "↩" AT ALL LOCATIONS WHERE STEEL BEAMS ARE INDICATED.
   B. AT FIRST LEVEL FLOOR PROVIDE NORMAL WEIGHT CONCRETE FILL ABOVE BRICK VAULTS. PITCH TOP OF CONCRETE TO DRAINS. SEE ARCHITECTURAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

⚠1

3. COATINGS
   A. ALL STEEL TO BE GALVANIZED AS INDICATED IN THE "STEEL NOTES" ON S-001
4. GENERAL
   A. ALL NEW STEEL FRAMING TO BE PLACED AT LOCATIONS OF EXISTING STEEL. DIMENSIONS SHOWN ON DRAWING ARE FOR INFORMATIONAL PURPOSES ONLY. LOCATIONS OF NEW STEEL MEMBERS TO BE REVIEWED ON STEEL SHOP DRAWINGS. SEE "STEEL" NOTES ON S-001 FOR ADDITIONAL INFORMATION.
5. WATERPROOFING
   A. SEE A300-SERIES SHEETS FOR WATERPROOFING AND PAVING STONE SETTING DETAILS.

LEGEND:

- EXTENT OF REMOVAL
- EXISTING BRICK OR STONE FINISH MASONRY TO REMAIN
- ⚠1 UNDISTURBED FILL
- COMPACTED FILL
- NEW 6" CONCRETE SLAB ON GRADE REINFORCED WITH 6"x6"-W2.9 x W2.9 W.W.F. SEE TYPICAL DETAILS ON S-501.
- NORMAL WEIGHT CONCRETE FILL ABOVE BRICK ARCHES AND BETWEEN BRICK KNEE WALLS
- EXISTING CONCRETE FOOTING
- WALL OR CONCRETE BEAM BELOW
- BA BRICK ARCH
- EXISTING BRICK ARCH
- (X) APPROXIMATE VOLUME OF FILL (DOT HATCH) AT VAULT TYPE: SEE TABLE 1, SHEET S503.



KEY PLAN

1 / S-103 PLAN – FIRST FLOOR FRAMING
SCALE: 1/8" = 1'-0"

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CONSULTANT: SILMAN

CERTIFICATE OF AUTHORIZATION #: 0021756

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CONTRACT:

TITLE: NYS CAPITOL - EASTERN APPROACH

LOCATION: NEW YORK STATE CAPITOL, ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

STATE OF NEW YORK — NATHANIEL EZRA OPPENHEIMER — LICENSED PROFESSIONAL ENGINEER — 69888

REVISED 10/17/2024

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| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |
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| DESIGNED BY: | | DT / HC |
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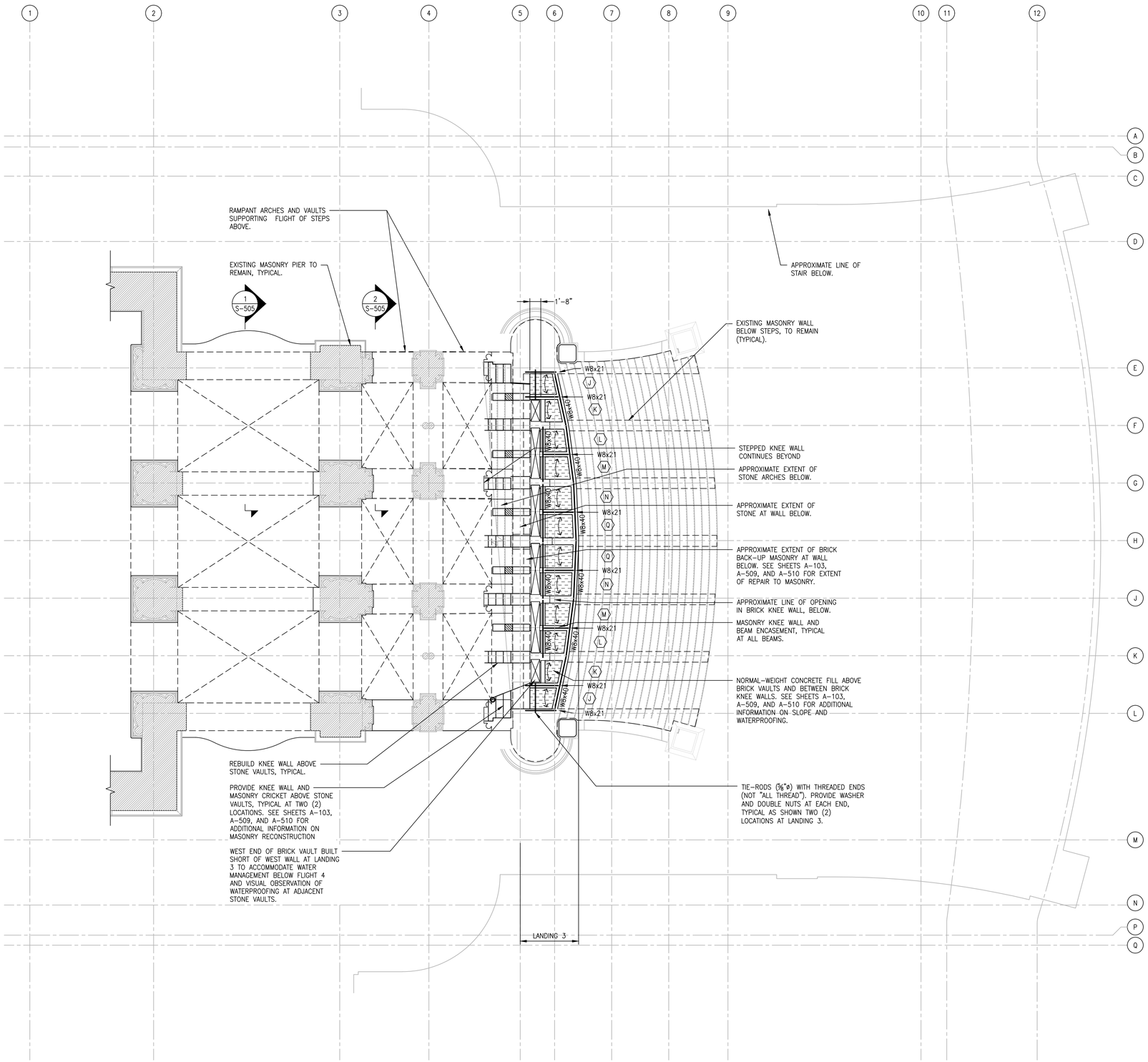
| APPROVED: | | DT |

SHEET TITLE: FIRST FLOOR FRAMING PLAN

DRAWING NUMBER: S-103

SHEET: 204 OF 257

SILMAN #30749




1 S-104 PLAN – LANDING 03 FRAMING
SCALE: 1/8" = 1'-0"

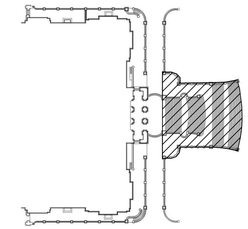
NOTES:

1. PROVIDE BEARING PLATES AT ALL BEAMS BEARING ON EXISTING MASONRY. SEE TYPICAL DETAIL FOR SCHEDULE. EXISTING "STONE TEMPLATES" AT BEAM BEARING TO BE RE-SET AT NEW ELEVATION.
2. PROVIDE TIE RODS AT BRICK VAULTS. SIZE, NUMBER, AND LOCATIONS OF TIE RODS SHOWN ON PLAN. SEE S-502 FOR FOR ADDITIONAL INFORMATION.
3. TWO (2) RING, SOLID, RED BRICK VAULT AT LOCATIONS INDICATED THUS "⟷" AT ALL LOCATIONS WHERE STEEL BEAMS ARE INDICATED.

   AT LANDING 3 PROVIDE NORMAL WEIGHT CONCRETE FILL ABOVE BRICK VAULTS. PITCH TOP OF CONCRETE TO DRAINS. SEE SHEET A-103 AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. SEE LEGEND FOR VOLUME OF FILL. ⚠1
4. ALL STEEL TO BE GALVANIZED AS INDICATED IN THE "STEEL NOTES" ON S-001.
5. ALL NEW STEEL FRAMING TO BE PLACED AT LOCATIONS OF EXISTING STEEL. DIMENSIONS SHOWN ON DRAWING ARE FOR INFORMATIONAL PURPOSES ONLY. LOCATIONS OF NEW STEEL MEMBERS TO BE REVIEWED ON STEEL SHOP DRAWINGS. SEE "STEEL" NOTES ON S-001 FOR ADDITIONAL INFORMATION.
6. SEE SHEETS A-103, A-509, AND A-510 FOR WATERPROOFING AND PAVING STONE SETTING DETAILS.

LEGEND:

- EXTENT OF REMOVAL
- EXISTING BRICK OR STONE FINISH MASONRY TO REMAIN
- ⚠ UNDISTURBED FILL
- COMPACTED FILL
- NEW 6" CONCRETE SLAB ON GRADE REINFORCED WITH 6"x6"-W2.9 x W2.9 W.W.F. SEE TYPICAL DETAILS ON S-501.
- NORMAL WEIGHT CONCRETE FILL ABOVE BRICK ARCHES AND BETWEEN BRICK KNEE WALLS
- EXISTING CONCRETE FOOTING
- WALL OR CONCRETE BEAM BELOW
- BA BRICK ARCH
- EXISTING BRICK ARCH
- (X) APPROXIMATE VOLUME OF FILL (DOT HATCH) AT VAULT TYPE: SEE TABLE 1, SHEET S503.



KEY PLAN

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

CONSULTANT: SILMAN

CERTIFICATE OF AUTHORIZATION #: 0021756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LOCATION: NEW YORK STATE CAPITOL ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

NATHANIEL EZRA OPPENHEIMER — LICENSED PROFESSIONAL ENGINEER — 89886

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| DESIGNED BY: | | DT / HC |
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SHEET TITLE: LANDING 03 FRAMING PLAN

DRAWING NUMBER: S-104

SHEET: 205 OF 257

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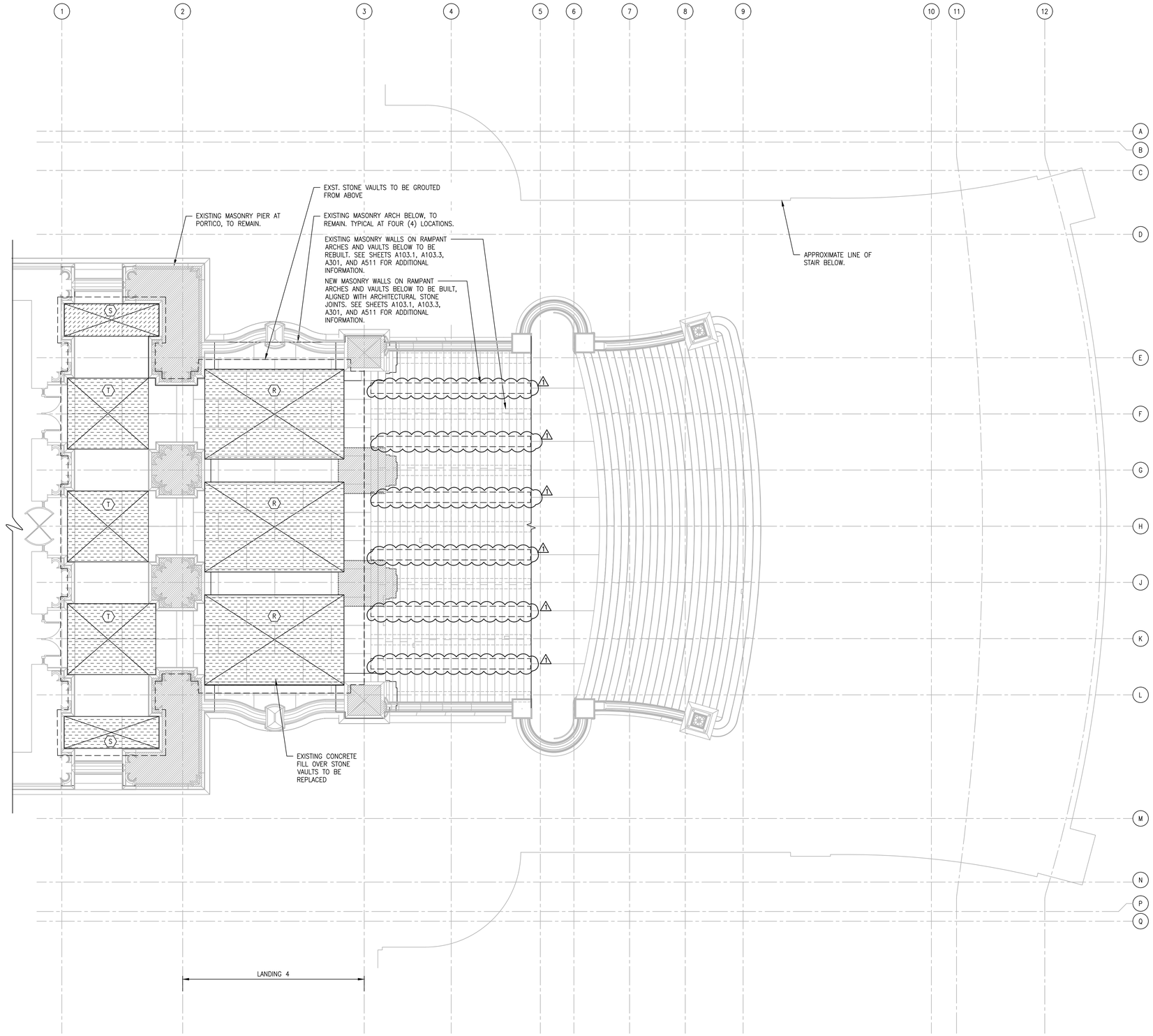
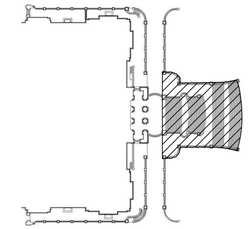



1 S-105 PLAN – SECOND FLOOR FRAMING
SCALE: 1/8" = 1'-0"

NOTES:
1. AT LANDING 04 (DOT HATCHED AREA) REMOVE LOOSE AND DETERIORATED EXISTING FILL AT STONE ARCHES AND VAULTS. REMOVE STEEL FRAMING AND BRICK ARCHES ABOVE. PROVIDE NORMAL WEIGHT CONCRETE FILL ABOVE STONE ARCHES AND VAULTS. PITCH TOP OF CONCRETE TO DRAIN. SEE SHEET A–103 AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
2. SEE SHEETS A–103, A–511, AND A–512 FOR INFORMATION ON WATERPROOFING AND PAVING.

LEGEND:
- EXTENT OF REMOVAL
- EXISTING BRICK OR STONE FINISH MASONRY TO REMAIN
- 1 UNDISTURBED FILL
- COMPACTED FILL
- NEW 6" CONCRETE SLAB ON GRADE REINFORCED WITH 6"x6"–W2.9 x W2.9 W.W.F. SEE TYPICAL DETAILS ON S–501.
- NORMAL WEIGHT CONCRETE FILL ABOVE BRICK ARCHES AND BETWEEN BRICK KNEE WALLS
- EXISTING CONCRETE FOOTING
- WALL OR CONCRETE BEAM BELOW
- BA BRICK ARCH
- EXISTING BRICK ARCH
- X APPROXIMATE VOLUME OF FILL (DOT HATCH) AT VAULT TYPE: SEE TABLE 1, SHEET S503.



KEY PLAN

NEW YORK STATE | Office of General Services

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CONSULTANT: SILMAN

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CLIENT: OFFICE OF GENERAL SERVICES

STATE OF NEW YORK · NATHANIEL EZRA DIPPENHEIMER · LICENSED PROFESSIONAL ENGINEER · 89886

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SHEET TITLE: SECOND FLOOR FRAMING PLAN

DRAWING NUMBER: S-105

SHEET: 206 OF 257

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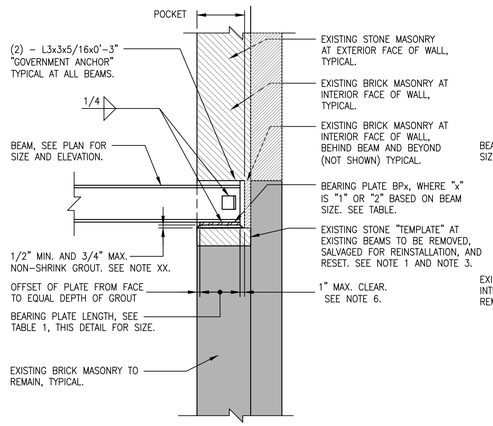
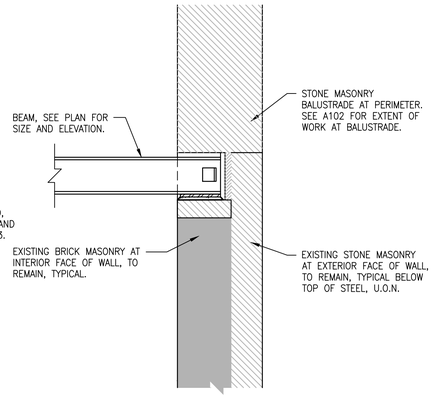



1.A S–501 SECTION – CHEEK WALL AT STAIR
SCALE: N.T.S.



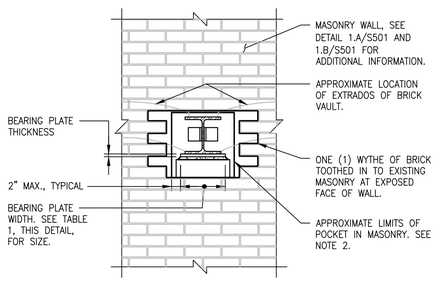

1.B S–501 SECTION – PERIMETER WALL AT BALUSTRADE
SCALE: N.T.S.

NOTES:
1. SEE DETAIL 1.A/S501 FOR BALANCE OF INFORMATION.
2. SEE NOTES FOR DETAILS 1.A, 1.B, AND 1.C FOR ADDITIONAL INFORMATION.

TABLE 1: BEARING PL SCHEDULE

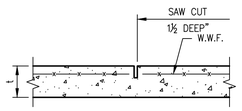
| MARK | LENGTH (⊥ TO BM) | WIDTH (∥ TO BM) | THICKNESS | NOTES |
|---|---|---|---|---|
| BP–1 | 6" | 7" | ½" | FOR W8 X 21 AND LIGHTER |
| BP–2 | 9" | 7" | ⅝" | FOR W8 X 24 TO W8X40 |

NOTES for DETAILS 1.A, 1.B, and 1.C:
1. NOTIFIY DIRECTOR'S REPRESENTATIVE IF HOLLOWS OR VOIDS ARE UNCOVERED IN WALL UNDER BEARING PLATE.
2. CUT POCKET IN WALL AS SHOWN. AFTER BEAM IS INSTALLED BRICK UP POCKET SOLID. FULL MORTAR BEDDING IN ALL HORIZONTAL AND VERTICAL BRICK JOINTS, TO POCKET FACES AND TO BEAM.
3. NOTIFY DIRECTOR'S REPRESENTATIVE IF (a) STONE TEMPLATES ARE FOUND IN PLACE TO BE DETERIORATED, CRACKED, OR OTHERWISE DAMAGED OR (b) STONE TEMPLATES ARE FOUND FOLLOWING REMOVAL FROM THE WALL TO BE DETERIORATED, CRACKED, OR OTHERWISE DAMAGED AND CANNOT BE SALVAGED AND RESET.
4. SIZE OF EXISTING STONE TEMPLATE VARIES. SEE INTERIOR ELEVATION DRAWINGS (A400–SERIES).
5. RESET TEMPLATE IN WALL TO ALIGN WITH BRICK COURSING, AS SHOWN IN DETAIL 1.C/S501.
6. NOTIFY DIRECTOR'S REPRESENTATIVE IF MAINTAINING 1" CLEARANCE REQUIRES CUTTING BACK EXISTING STONE CLADDING. STONE CANNOT BE MODIFIED WITHOUT WRITTEN INSTRUCTION FROM THE DIRECTOR'S REPRESENTATIVE. WHERE STONE MUST BE MODIFIED IT MUST BE REMOVED FROM THE WALL, SAW CUT TO ACCOMMODATE PLACEMENT OF TEMPLATE AND/OR BEAM, AND RESET.

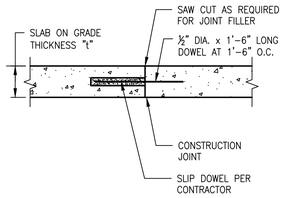



1.C S–501 ELEVATION
SCALE: N.T.S.

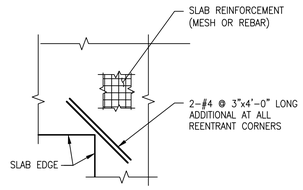
1 S–501 TYPICAL DETAIL – BEAM BEARING ON EXISTING WALL
SCALE: N.T.S.



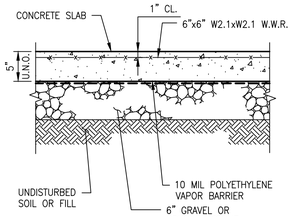

2.A S–501 SAWED CONTRACTION JOINT
SCALE: N.T.S.
MAXIMUM DISTANCE BETWEEN CONTRACTION JOINTS IN INCHES IS 36 TIMES SLAB THICKNESS



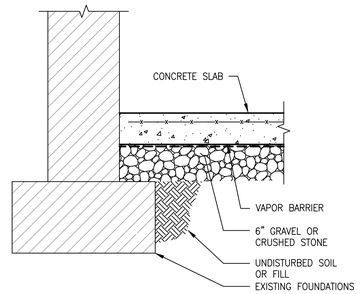

2.B S–501 CONSTRUCTION JOINT
SCALE: N.T.S.



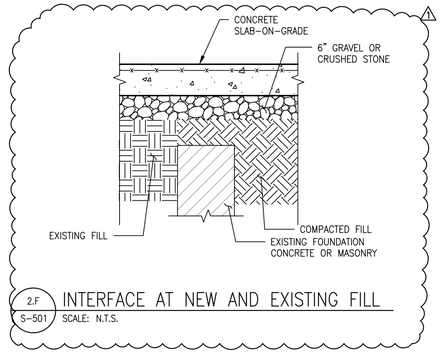

2.C S–501 ADDITIONAL REINFORCEMENT AT ALL RE–ENTRANT CORNERS
SCALE: N.T.S.




2.D S–501 SLAB ON GRADE
SCALE: N.T.S.




2.E S–501 SLAB ON GRADE & WALL INTERFACE
SCALE: N.T.S.




2.F S–501 INTERFACE AT NEW AND EXISTING FILL
SCALE: N.T.S.

NOTES:
1. SLAB ON GRADE SHALL BE PLACED IN ALTERNATING STRIPS WHERE EACH SINGLE STRIP DOES NOT EXCEED 36 TIMES SLAB THICKNESS WIDTH IN INCHES. ALTERNATIVELY, LARGE BLOCK PLACEMENTS WITH INTERIOR CONTRACTION JOINTS ARE ACCEPTABLE IF THE CONTRACTION JOINTS ARE MADE IN BOTH DIRECTIONS AT SPECIFIED INTERVALS IN A TIMELY MANNER.
2. SAWED CONTRACTION JOINTS SHALL BE LOCATED AT A MAXIMUM SPACING IN INCHES OF 36 TIMES THE SLAB THICKNESS. JOINTS SHALL BE SAWED NO LATER THAN 24 HOURS AFTER CONCRETE IS PLACED.
3. GRAVEL OR CRUSHED STONE BASE SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.

2 S–501 TYPICAL DETAILS SLAB ON GRADE
SCALE: N.T.S.

Office of General Services
DESIGN & CONSTRUCTION
CONSULTANT: SILMAN
CERTIFICATE OF AUTHORIZATION #: 0021756
John G. Waite Associates, PLLC Architects
384 Broadway, Albany, NY 12207, 518.449.5440 tel, 518.449.5828 fax
64 Fulton Street, Suite 402, New York, NY 10038, 212.619.4883 tel, 212.619.4882 fax

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE DRAWINGS ARE IN CONFORMANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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

CONTRACT:

TITLE:
NYS CAPITOL - EASTERN APPROACH

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

STATE OF NEW YORK · MATTHEW EZRA OPPENHEIMER · LICENSED PROFESSIONAL ENGINEER · 069888

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| 1 | 10/17/2024 | ADDENDUM 6 |
| | 06/21/2024 | BID SET |

| | |
|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | DT / HC |
| DRAWN BY: | MAM / DT |
| FIELD CHECK: | DT |
| APPROVED: | DT |

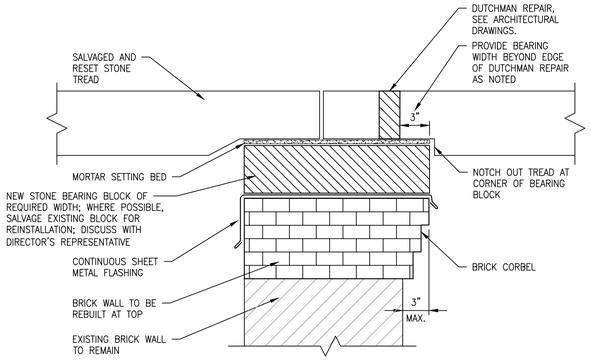
SHEET TITLE:
TYPICAL DETAILS

DRAWING NUMBER:
S-501

SHEET: 210 OF 257

SILMAN #30749

C:\Users\derek.trelstad\OneDrive - Global Infrastructure\Documents\30749-S21-CENTRAL_derek.trelstad.rvt
6/19/2023 12:37:10 PM
36x24 PLOT SHEET

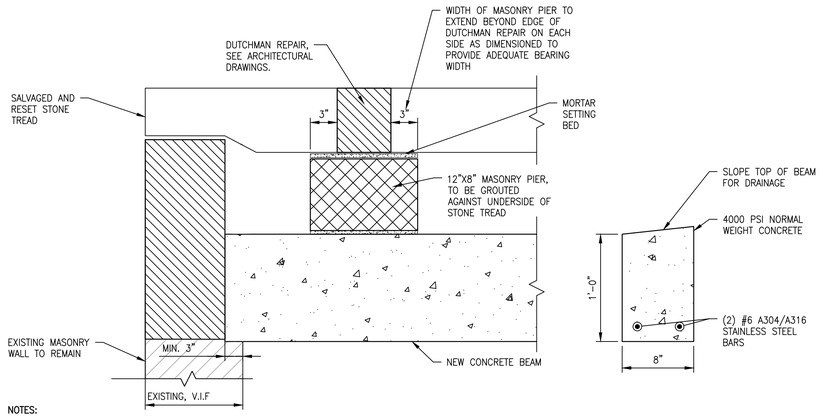



NOTES:

1. DETAIL CAN BE MIRRORED VERTICALLY AROUND CENTERLINE WHERE A CORBEL IS NEEDED ON BOTH SIDES OF AN EXISTING WALL.
2. BASED ON AVAILABLE INFORMATION, THE ASSUMED QUANTITY OF THIS DETAIL IS AT 10 LOCATIONS THROUGHOUT EXTENT OF STONE TREAD REPLACEMENT SCOPE (SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION).
3. FOR WATERPROOFING INFORMATION, REFER TO ARCHITECTURAL DRAWINGS.

1 / S-505 TYPICAL SINGLE CORBEL AT STONE TREAD DUTCHMAN REPAIR

SCALE: N.T.S.

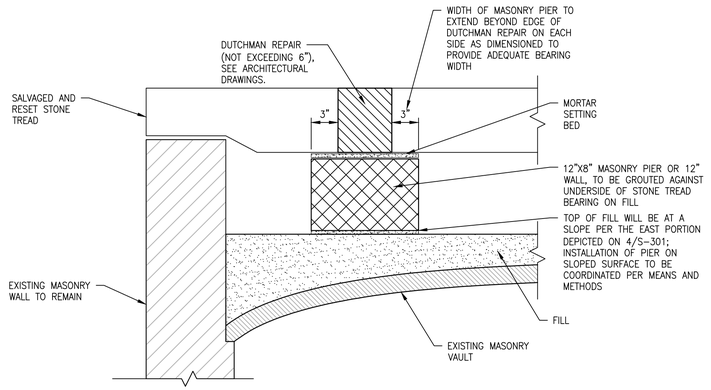



NOTES:

1. WHERE FURTHEST EDGE OF STAIR TREAD REPAIR LIES WITHIN 3" OF EXISTING MASONRY WALL BELOW, PROVIDE CORBEL.
2. WHERE FURTHEST EDGE OF STAIR TREAD REPAIR LIES GREATER THAN 3" AWAY FROM EXISTING WALL BELOW, PROVIDE CONCRETE BEAM BELOW WITH BUILT UP MASONRY PILE TO SUPPORT TREAD REPAIR.
3. FOR WATERPROOFING INFORMATION, REFER TO ARCHITECTURAL DRAWINGS.
4. BASED ON AVAILABLE INFORMATION, THE ASSUMED QUANTITY OF THIS DETAIL IS AT 10 LOCATIONS THROUGHOUT EXTENT OF STONE TREAD REPLACEMENT SCOPE (SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION). IN ADDITION TO THAT QUANTITY, PROVIDE AN ADDITIONAL 22 BEAM INSTALLATIONS FOR SUPPORTING TREADS AT FLIGHT 3'S NORTH AND SOUTH BOUNDARIES.

2 / S-505 TYPICAL CONCRETE BEAM AT STONE TREAD DUTCHMAN REPAIR

SCALE: N.T.S.




NOTES:

1. SEE STRUCTURAL PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATION OF PIER, RELATIVE TO SUPPORTED STONE JOINTS.
2. FOR WATERPROOFING INFORMATION, REFER TO ARCHITECTURAL DRAWINGS.

3 / S-505 SUPPORT OF STONE TREAD REPAIRS OR REPLACEMENT ON EXISTING VAULT (FLIGHT 4)

SCALE: N.T.S.

NEW YORK STATE | Office of General Services
DESIGN & CONSTRUCTION

CONSULTANT: SILMAN

CERTIFICATE OF AUTHORIZATION #: 0021756

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TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE DRAWINGS ARE IN CONFORMANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.



CONTRACT:

TITLE: NYS CAPITOL - EASTERN APPROACH

LOCATION: NEW YORK STATE CAPITOL, ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES


ADDENDUM DRAWING 10/17/2024

| | | |
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| | 10/17/2024 | ADDENDUM 6 |
| MARK | DATE | DESCRIPTION |

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|---|---|
| PROJECT NUMBER: | 47331 - C |
| DESIGNED BY: | DT / HC |
| DRAWN BY: | MAM / DT |
| FIELD CHECK: | DT |
| APPROVED: | DT |

SHEET TITLE: TYPICAL DETAILS

DRAWING NUMBER: S-505 ⚠

SHEET: 213.1 OF 257

SILMAN #30749

## GENERAL NOTES:

1. ALL STRUCTURAL WORK TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND WILL CONFORM TO THE PROJECT SPECIFICATIONS, INCLUDING THE NEW YORK STATE BUILDING CODE 2020.

2. PROVIDE TEMPORARY SHORING, BRACING, SHEETING AND MAKE SAFE ALL SLABS, WALLS AND ADJACENT PROPERTY AS PROJECT CONDITIONS REQUIRE. SHORING AND SHEETING WILL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE PROJECT JURISDICTION HIRED BY THE CONTRACTOR WHO WILL SUBMIT SHOP DRAWINGS AND CALCULATIONS FOR THE OWNER'S REVIEW.

3. DIMENSIONS AND ELEVATIONS OF EXISTING CONSTRUCTION GIVEN IN STRUCTURAL DRAWINGS ARE BASED ON INFORMATION CONTAINED IN VARIOUS ORIGINAL DESIGN AND CONSTRUCTION DOCUMENTS PROVIDED BY THE OWNER, AND LIMITED FIELD OBSERVATIONS AND MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION PERTAINING TO EXISTING CONDITIONS BY ACTUAL MEASUREMENT AND OBSERVATION AT THE SITE. ALL DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS WILL BE REPORTED TO THE ENGINEER OF RECORD FOR EVALUATION BEFORE THE AFFECTED CONSTRUCTION IS PUT IN PLACE.

4. THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. THESE NOTES HIGHLIGHT RATHER THAN REPLACE THE SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL. CONTRACTOR WILL NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS FOR GUIDANCE.

5. SUBMIT SIGNED AND SEALED DRAWINGS FOR THE TEMPORARY BRACING OF THE EXISTING WALLS TO REMAIN DURING THE REMOVAL AND REPLACING OF THE PROMENADES.

## DESIGN LOADS:

MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR THE PROMENADES AND RAMPS IN ACCORDANCE WITH ASCE 7-16 SECTION 1603.10.

GRAVITY LOADS: 1

DEAD LOADS

| | |
|---|---|
| 8" NORMAL WEIGHT CONCRETE | 100PSF |
| 4" NORMAL WEIGHT CONCRETE TOPPING SLAB | 50 PSF |
| EXTRUDED POLYSTYRENE INSULATION | 5 PSF |
| PAVING TOPPING | 45 PSF |
| LIVE LOADS AT PROMENADES: | 100PSF |
| GROUND SNOW LOADS: | 50 PSF |
| DESIGN LOAD BEARING VALUES OF SOIL FOR RETAINING WALLS | 1000 PSF |
| 1 FOR VEHICULAR GATES AND BARRICADES | 700 PSF |

## SPECIAL INSPECTIONS:

1. SPECIAL INSPECTIONS REQUIRED BY THE NEW YORK STATE SHALL BE PERFORMED BY A TESTING AGENCY PROVIDED BY THE OWNER FOR THE FOLLOWING ITEMS:

   A. STRUCTURAL STEEL (BCNYS 1705.2, 1705.2.1)
   B. CONCRETE CONSTRUCTION (BCNYS 1705.3)
   C. REINFORCING STEEL (BCNYS 1705.3, 1908.4)
   D. SUBGRADE INSPECTION (BCNYS 1705.6)
   E. CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS (BCNYS 1705.6)
   F. EXCAVATION - SHEETING, SHORING, AND BRACING (BCNYS 1705.8,1804.1)
   G. POST-INSTALLED ANCHORS (BCNYS 1705.3)
   H. CONCRETE DESIGN MIX - (BCNYS 1705.3, 1904.1, 1908.2, 1908.3)
   I. CONCRETE SAMPLING AND TESTING - (BCNYS 1705.3, 1908.10)

THE TESTING AGENCY FOR THE INSPECTIONS SHALL FILE ALL APPROPRIATE FORMS WITH AHJ.

## FOUNDATIONS:

1. RETAINING WALL FOUNDATIONS WILL BEAR ON UNDISTURBED SOIL OF VARIED BEARING CAPACITY, BUT WITH THE BEARING CAPACITY AS SPECIFIED BY MFS ENGINEERS & SURVEYOR, DPC. IN THEIR REPORT DATED 21 APRIL, 2023. ADEQUACY OF BEARING STRATUM SHALL BE VERIFIED IN FIELD PRIOR TO PLACING CONCRETE. ALL NECESSARY ADJUSTMENTS TO THE BOTTOM OF FOOTINGS TO BE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

2. ALL EXTERIOR FOOTINGS SHALL BE PLACED A MINIMUM OF 4'-0" BELOW FINAL GRADE.

3. CONCRETE SHALL BE POURED IN DRY EXCAVATIONS. CONTRACTOR SHALL NOTE SOIL AND WATER CONDITIONS AS SHOWN BY BORINGS AND DEPTHS OF FOOTING AS SHOWN ON FOUNDATION PLANS.

4. SHALLOW FOUNDATIONS AT BOLLARDS IN RAMPS SHALL BE CONSTRUCTED ON A MINIMUM 12 INCHES OF CLEAN CRUSHED STONE. THIS LAYER OF CRUSH STONE MUST BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION AS PROTECTION AGAINST SUB-GRADE DETERIORATION. PRIOR TO POURING CONCRETE FOR THE FOUNDATIONS, ALL WATER, ORGANICS, AND DEBRIS WILL NEED TO BE REMOVED FROM THE FOOTING SUB-GRADE. ANY UNPROTECTED SUB-GRADE EXPOSED TO RAIN OR SNOW EVENTS SHOULD BE RE-INSPECTED BY THE GEOTECHNICAL ENGINEER RESPONSIBLE FOR SPECIAL INSPECTIONS PRIOR TO CONCRETE PLACEMENT. SEE GEOTECHNICAL ENGINEERING REPORT REV. 1 29 JUNE 2023.

1 5. ALL IMPORTED FILL USED TO ESTABLISH THE FINISH SUB-GRADE BENEATH NEW VEHICULAR GATE AND BARRICADE FOUNDATIONS AND BEHIND RETAINING WALLS (NOT WITHIN THE DRAINAGE MEDIA AREA) SHOULD BE SELECT GRANULAR MATERIAL AS DEFINED BY THE NYSOGS MASTER SPECIFICATIONS (MF04) FOR EARTHWORK.

## CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS.
   A. AMERICAN CONCRETE INSTITUTE (ACI) "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318-14), LATEST EDITION PER GOVERNING BUILDING CODE.
   B. ACI "MANUAL OF CONCRETE PRACTICE" LATEST EDITION
   C. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE" LATEST EDITION

2. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED.

3. REINFORCING STEEL SHALL BE STAINLESS STEEL DEFORMED BARS CONFORMING TO ASTM A 9555/M 955 GRADE 60. REINFORCING STEEL SHALL BE DETAILED ACCORDING TO THE ACI "DETAILS AND DETAILING OF REINFORCEMENT", (ACI 315), LATEST EDITION.

1 4. WELDED WIRE REINFORCEMENT SHALL BE GALVANIZED AND CONFORM TO ASTM A1064, WITH A MINIMUM YIELD STRENGTH OF 65,000 PSI.

5. COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND PIPE SLEEVES WITH ALL OTHER DISCIPLINES. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6".

6. ALL GROUT SHALL BE NONSHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.

7. PROVIDE CLEARANCE FROM FACE OF CONCRETE TO REINFORCEMENT AS FOLLOWS:
   SLAB TOP: 2"
   SLAB BOTTOM: 1"
   RETAINING WALL: 2"
   FOUNDATION BOTTOM: 3"

8. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. NO CONCRETE WORK SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.

1 9. CLEAN AND ROUGHEN TO ¼" AMPLITUDE ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE PRIOR TO PLACEMENT.

10. SEE OTHER DRAWINGS IN THIS PROJECT FOR SIZE AND LOCATIONS OF EQUIPMENT PADS, INSERTS AND EMBEDDED ITEMS.

11. REINFORCING DOWELS, WATERSTOPS AND OTHER EMBEDDED ITEMS SHALL BE INSTALLED AND SECURED PRIOR TO CONCRETE PLACEMENT. "WET-SETTING" OF EMBEDDED ITEMS IS NOT PERMITTED.

12. ALL CONCRETE FOR THE FOUNDATION OF THE RETAINING WALL, VEHICULAR GATE AND BARRICADE WILL BE AIR ENTRAINED.

## POST INSTALLED ADHESIVE AND MECHANICAL ANCHORS:

1. POST INSTALLED ANCHORAGE SHALL BE INSTALLED PER MANUFACTURER TECHNICAL DATA TO INTACT BASE MATERIAL. NOTIFY ENGINEER OF RECORD PRIOR TO INSTALLATION IF BASE MATERIAL CONDITION DEVIATES FROM STRUCTURAL DRAWINGS OR MANUFACTURER TECHNICAL DATA.

2. MANUFACTURER DATA FOR ALTERNATE ANCHORAGE PROPOSED BY CONTRACTOR SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. SUBMITTAL SHALL INCLUDE THE ICC EVALUATION SERVICE REPORT WITH ICC TESTED CAPACITY MEETING OR EXCEEDING CAPACITY OF ANCHORAGE SPECIFIED IN CONTRACT DOCUMENTS.

3. UNLESS OTHERWISE INDICATED, POST INSTALLED ANCHORAGE SHALL BE ADHESIVE TYPE HILTI HIT-HY200 INTO CONCRETE OR HILTI-HIT HY70 INTO BRICK MASONRY OR GROUT FILLED CMU OR UNGROUTED CMU BASE MATERIAL.

4. EXISTING REINFORCING BARS IN THE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE EXISTING REBARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS BY A MEANS APPROVED BY THE ENGINEER OF RECORD.

30x24 PLOT SHEET

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

STRUCTURAL CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 019008

Gedeon GRC Consulting
6901 Jericho Turnpike, Suites 216 and 217
Syosset, NY 11791
T. 516-873-7010
info@gedeongrc.com

ARCHITECT CONSULTANT:

John G. Waite Associates PLLC Architects

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE DRAWINGS ARE IN CONFORMANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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STATE OF NEW YORK · HAROLD J. GEDEON · 070901 · LICENSED PROFESSIONAL ENGINEER

CONTRACT:

TITLE:
REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICOS, AND EXECUTIVE RAMP

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| REVISION 1 | 10/17/2024 | ADDENDUM 06 |
| | 6/21/2024 | BID SET |

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|---|---|
| PROJECT NUMBER: | 47331-C |
| DESIGNED BY: | CO |
| DRAWN BY: | CO |
| FIELD CHECK: | MG |
| APPROVED: | MG |

SHEET TITLE:
STRUCTURAL NOTES

DRAWING NUMBER:
S-600

SHEET: 214 OF 257

## STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING GOVERNING STANDARDS:
   - A. AISC 360-16 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
   - B. AMERICAN WELDING SOCIETY (AWS D1.1) "STRUCTURAL WELDING CODE - STEEL".

2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
   - A. WIDE FLANGE BEAMS: ASTM A992
   - B. CHANNELS, ANGLES AND PLATES: ASTM A36 UNLESS OTHERWISE NOTED.
   - C. STRUCTURAL STEEL PLATE SHALL BE ASTM A572 GRADE 50 HAVING A MINIMUM YIELD POINT OF 50,000 PSI,EXCEPT WHERE THICKNESSES EXCEED 4" USE A572 GRADE 42 HAVING A MINIMUM YIELD POINT OF 42,000 PSI.
   - D. BOLTED CONNECTIONS OF BEAMS/GIRDERS ARE TO BE DESIGNED AS FOLLOWS:
     - a. STANDARD BEAM TO BEAM/GIRDER: ASTM A325, ASTM F1852, ASTM A490 OR ASTM F2280 BOLTS IN BEARING TYPE CONNECTIONS (¾" DIAMETER MINIMUM WITH HARDENED WASHERS).
   - E. ANCHOR BOLTS: ASTM F1554, GRADE 36.
   - F. STRUCTURAL STEEL NOTED TO BE STAINLESS STEEL SHALL BE ASTM A276 STAINLESS STEEL GRADE 304.
   - G. ALL STAINLESS STEEL BOLTS SHALL CONFORM TO ASTM F593 ALLOY 304.
   - H. ALL STAINLESS STEEL NUTS SHALL CONFORM TO ASTM F594 ALLOY 304.

3. STEEL CONNECTION SHALL BE STANDARD AISC FRAMED BEAM CONNECTIONS, AND SHALL BESELECTED OR COMPLETED BY AN EXPERIENCED STEEL DETAILER, OR DESIGNED BY A LICENSED ENGINEER WORKING FOR THE FABRICATOR, WHO SHALL PROVIDE CALCULATIONS, UTILIZING LFRD LOADS AND PROCEDURES.
   - A. FOR NON-COMPOSITE MEMBERS. PROVIDE CONNECTIONS BASED ON REACTION AS DETERMINED FROM AISC UNIFORM LOAD TABLE. (UNLESS OTHERWISE NOTED ON PLANS.)
   - B. FOR COMPOSITE MEMBERS. PROVIDE CONNECTIONS BASED ON 1.5 x REACTION FROM AISC UNIFORM LOAD TABLE. (UNLESS OTHERWISE NOTED ON PLANS.)
   - C. REINFORCING IS TO BE PROVIDED AT CONNECTIONS WHERE CUTS REDUCE THE SHEAR OR MOMENT CAPACITY BELOW THAT REQUIRED TO SUSTAIN THE REACTION. FLANGES AND WEB ARE TO BE REINFORCED WHERE THE LOCAL CAPACITY TO SUSTAIN CONNECTION LOAD IS INADEQUATE.
   - D. CONNECTIONS SHALL BE DESIGNED FOR SHEAR AND ECCENTRICITY, CONSIDERING THAT THE CONNECTION IS AN EXTENSION OF THE BEAM AND GIRDERS.

4. MINIMUM WELD SIZE IS ¼" FILLET UNLESS NOTED OTHERWISE.

5. ALL BEAMS EXCEPT CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED WITH NATURAL CAMBER UP. CANTILEVER BEAMS SHALL BE FABRICATED AND INSTALLED SO THAT NATURAL CAMBER RAISES CANTILEVER END.

6. FIELD CUTTING OR BURNING OF STEEL IS PROHIBITED EXCEPT WITH THE EXPRESSED WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD (IN WHICH CASE ALL BURNING OF STEEL MUST CONFORM TO THE THERMAL CUTTING REQUIREMENTS OF AISC AND AWS).

1

7. HOT-DIP GALVANIZING SHALL CONFORM TO ASTM A123, REPAIR SCRATCHES OR ABRADED GALVANIZED SURFACE WITH ZINC RICH PAINT. ALL EXTERIOR EXPOSED STEEL AND CONCRETE ENCASED STEEL SUPPORTING EXTERIOR SHALL BE HOT-DIP GALVANIZED.

8. SHOP AND ERECTION DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. NO FABRICATION OF STEEL SHALL COMMENCE WITHOUT APPROVED SHOP DRAWINGS.

9. PROVIDE MECHANICALLY GALVANIZED BOLTS FOR EXTERIOR APPLICATIONS.

## STANDARD ABBREVIATIONS

| | |
|---|---|
| ADD'L. | ADDITIONAL |
| ADJ. | ADJACENT |
| A/E | DESIGN TEAM OF RECORD |
| ALT. | ALTERNATE |
| ANCH. | ANCHOR |
| APPROX. | APPROXIMATE/APPROXIMATELY |
| ARCH. | ARCHITECTURAL/ARCHITECT |
| B.O. | BOTTOM OF |
| BLDG. | BUILDING |
| BM. | BEAM |
| BOT. | BOTTOM |
| BRG. | BEARING |
| BSMT. | BASEMENT |
| CANT. | CANTILEVER |
| C.I.P. | CAST IN PLACE |
| C.J. | CONTRACTION JOINT |
| CLG. | CEILING |
| CLR. | CLEAR |
| CONC. | CONCRETE |
| CONST. | CONSTRUCTION |
| COORD. | COORDINATE/COORDINATION |
| CONTR. | CONTRACTOR |
| CTR. | CENTER |
| DBL. | DOUBLE |
| DEMO. | DEMOLITION/DEMOLISH |
| DTL. | DETAIL |
| DIA. | DIAMETER |
| DIAG. | DIAGONAL |
| DIM. | DIMENSION |
| D.L. | DEAD LOAD |
| DN. | DOWN |
| DWG(S) | DRAWING(S) |
| DWL. | DOWEL |
| EA. | EACH |
| E.O. | EDGE OF |
| E.F. | EACH FACE |
| EXIST. | EXISTING |
| EXP. JT. | EXPANSION JOINT |
| EL. | ELEVATION |
| ELEC. | ELECTRICAL |
| ELEV. | ELEVATOR |
| EMBED. | EMBEDMENT |
| ENGR. | ENGINEER |
| E.O.R. | ENGINEER OF RECORD |
| EQ. | EQUAL |
| EXP. | EXPANSION |
| EXT. | EXTERIOR |
| E.W. | EACH WAY |
| FDN. | FOUNDATION |
| FIN. | FINISH |
| FLR. | FLOOR |
| FRMG. | FRAMING |
| F.S. | FAR SIDE |
| FT. | FEET |
| FTG. | FOOTING |
| GA. | GALVANIZED |
| G.B. | GRADE BEAM |
| HDR. | HEADER |
| HGR. | HANGER |
| HORIZ. | HORIZONTAL |
| H.P. | HIGH POINT |
| HT. | HEIGHT |
| HVAC | HEATING, VENTILATION & AIR CONDITIONING |
| I.D. | INSIDE DIAMETER |
| I.F. | INSIDE FACE |
| I.J. | ISOLATION JOINT |
| INFO | INFORMATION |
| INT. | INTERIOR |
| JT. | JOINT |
| K | KIPS |
| LB. | POUND |
| L.L. | LIVE LOAD |
| LLH. | LONG LEG HORIZONTAL |
| LLV. | LONG LEG VERTICAL |
| L.P. | LOW POINT |
| L.W. | LIGHTWEIGHT |
| MAS | MASONRY |
| MAX | MAXIMUM |
| MECH | MECHANICAL |
| MEP | MECH., ELECT., PLUMBING & F.P. |
| MFR | MANUFACTURER |
| MIN | MINIMUM |
| MISC | MISCELLANEOUS |
| M.O. | MASONRY OPENING |
| N.F. | NEAR FACE |
| N.I.C. | NOT IN CONTRACT |
| NO. | NUMBER |
| N.S. | NEAR SIDE |
| N.T.S. | NOT TO SCALE |
| N.W. | NORMAL WEIGHT |
| O/C | ON CENTER |
| O.D. | OUTSIDE DIAMETER |
| O.F. | OUTSIDE FACE |
| OPNG | OPENING |
| OPP | OPPOSITE |
| PC. | PIECE |
| PED. | PEDESTAL |
| PERP | PERPENDICULAR |
| PL. | PLATE |
| PLF | PUNDS PER LINEAR FOOT |
| PREFAB | PREFABRICATED |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| REINF | REINFORCE(D)/REINFORCEMENT |
| REQ'D | REQUIRED |
| REV | REVISION |
| SCHED | SCHEDULE |
| SECT | SECTION |
| SIM. | SIMILAR |
| S.O.G. | SLAB ON GRADE |
| SPEC | SPECIFICATION |
| SQ. | SQUARE |
| S.S. | STAINLESS STEEL |
| STD | STANDARD |
| STIFF | STIFFENER |
| STL. | STEEL |
| S-W | SHORT WAY |
| SYM. | SYMMETRIC |
| T.O. | TOP OF |
| T&B | TOP & BOTTOM |
| TEMP. | TEMPORARY/TEMPERATURE |
| TYP. | TYPICAL |
| U.N.O. | UNLESS OTHERWISE NOTED |
| VERT | VERTICAL |
| W/ | WITH |
| W.P. | WORK POINT |
| W.W.R. | WELDED WIRE REINFORCEMENT |
| # | NUMBER/SIZE |
| ℄ | CENTERLINE |
| Ø | DIAMETER |
| ℔ | PLATE/PROPERTY LINE |

## STANDARD ABBREVIATIONS FOR EXISTING STRUCTURES

| | |
|---|---|
| (I) | EXISTING MEMBER OR DIMENSION |
| EXIST. | EXISTING |

V.I.F. VERIFY IN FIELD

1

36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION


STRUCTURAL CONSULTANT:

CERTIFICATE OF AUTHORIZATION #: 019008

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STATE OF NEW YORK · RANDOLF J. GEDEON · 070991 · LICENSED PROFESSIONAL ENGINEER

CONTRACT:

TITLE:
REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICOS, AND EXECUTIVE RAMP

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
| REVISION 1 | 10/17/2024 | ADDENDUM 06 |
| | 6/21/2024 | BID SET |

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|---|---|
| PROJECT NUMBER: | 47331-C |
| DESIGNED BY: | CO |
| DRAWN BY: | CO |
| FIELD CHECK: | MG |
| APPROVED: | MG |

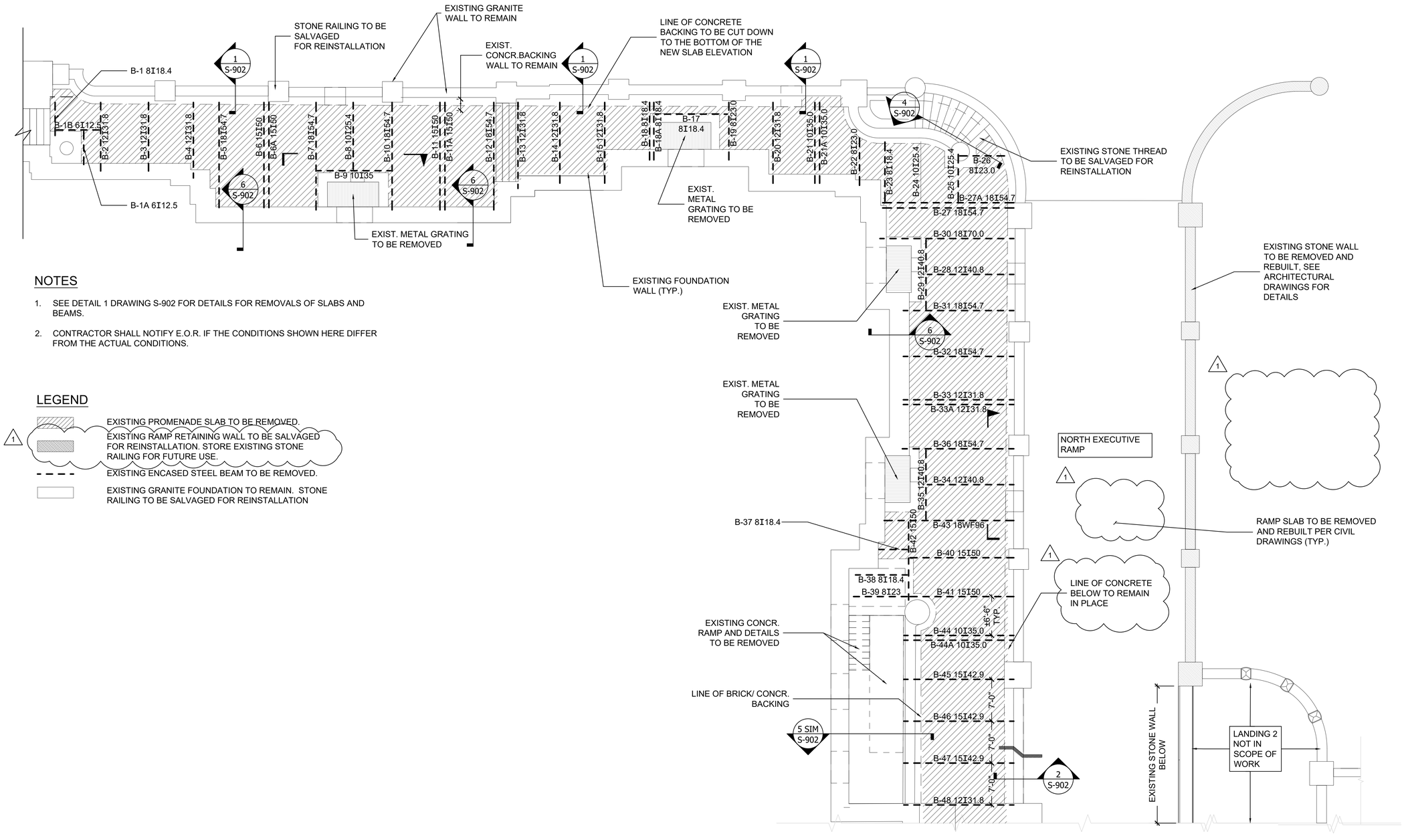
SHEET TITLE:

STRUCTURAL NOTES

DRAWING NUMBER:

S-601

SHEET: 215 OF 257




## NOTES

1. SEE DETAIL 1 DRAWING S-902 FOR DETAILS FOR REMOVALS OF SLABS AND BEAMS.
2. CONTRACTOR SHALL NOTIFY E.O.R. IF THE CONDITIONS SHOWN HERE DIFFER FROM THE ACTUAL CONDITIONS.

## LEGEND

1 — EXISTING PROMENADE SLAB TO BE REMOVED.
EXISTING RAMP RETAINING WALL TO BE SALVAGED FOR REINSTALLATION. STORE EXISTING STONE RAILING FOR FUTURE USE.
EXISTING ENCASED STEEL BEAM TO BE REMOVED.
EXISTING GRANITE FOUNDATION TO REMAIN. STONE RAILING TO BE SALVAGED FOR REINSTALLATION

1 DS701 NORTH PROMENADE SLAB AND EXECUTIVE RAMP REMOVAL PLAN
1/8" = 1'-0"

36x24 PLOT SHEET


NEW YORK STATE | Office of General Services
DESIGN & CONSTRUCTION

STRUCTURAL CONSULTANT:
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LOCATION: NEW YORK STATE CAPITOL, ALBANY, NY

CLIENT: OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

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| DRAWN BY: | CO |
| FIELD CHECK: | MG |
| APPROVED: | MG |

SHEET TITLE: NORTH PROMENADE SLAB AND EXECUTIVE RAMP REMOVAL PLAN

DRAWING NUMBER: DS-701

SHEET: 216 OF 257

## NOTES

1. SEE DETAIL 1 DRAWING S-902 FOR DETAILS FOR REMOVALS OF SLABS AND BEAMS.
2. CONTRACTOR SHALL NOTIFY E.O.R. IF THE CONDITIONS SHOWN HERE DIFFER FROM THE ACTUAL CONDITIONS.

## LEGEND

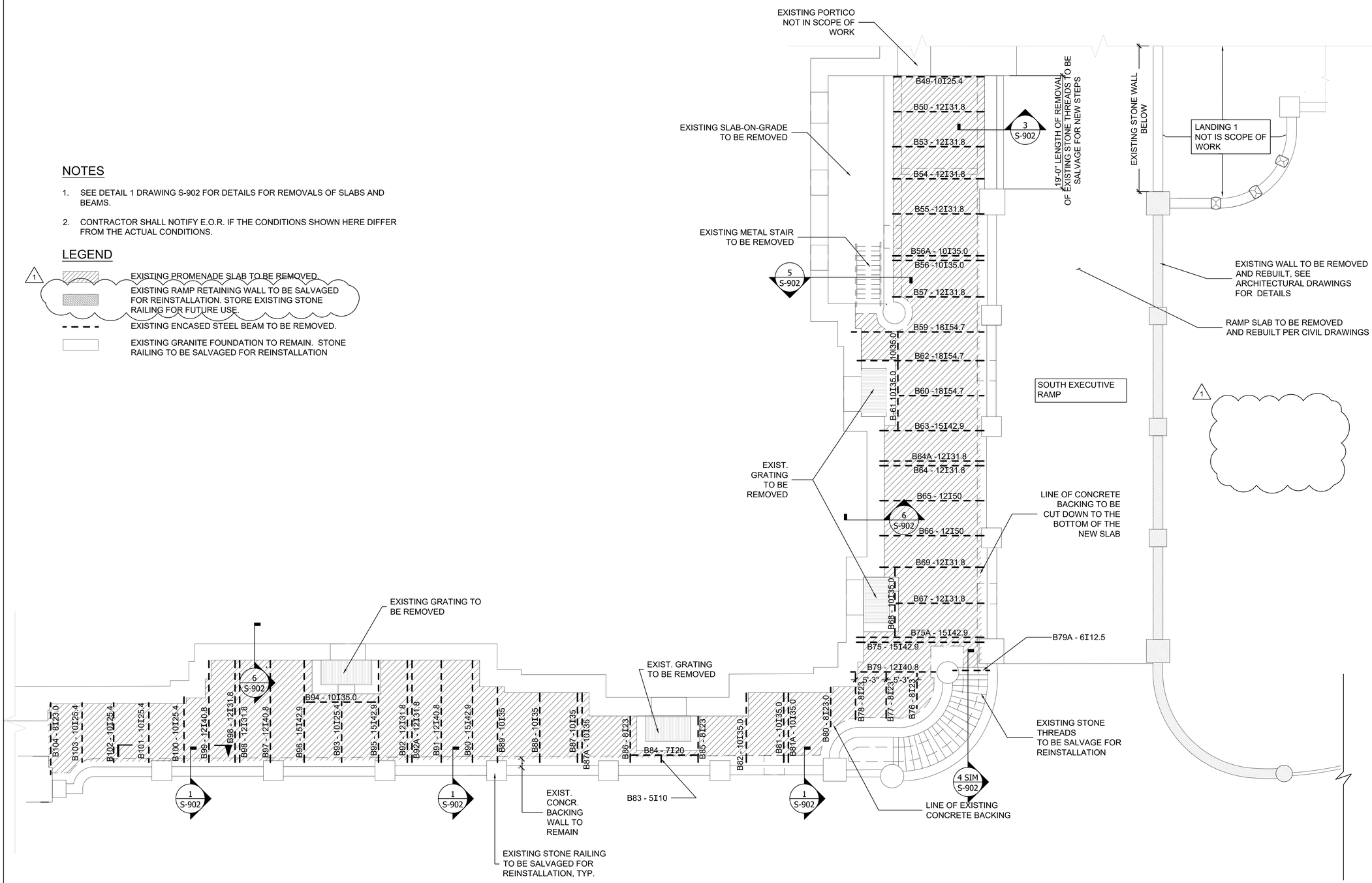
1

EXISTING PROMENADE SLAB TO BE REMOVED.

EXISTING RAMP RETAINING WALL TO BE SALVAGED FOR REINSTALLATION. STORE EXISTING STONE RAILING FOR FUTURE USE.

EXISTING ENCASED STEEL BEAM TO BE REMOVED.

EXISTING GRANITE FOUNDATION TO REMAIN. STONE RAILING TO BE SALVAGED FOR REINSTALLATION




1 DS701 SOUTH PROMENADE SLAB AND EXECUTIVE RAMP REMOVAL PLAN
1/8" = 1'-0"

36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

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CONTRACT:

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LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

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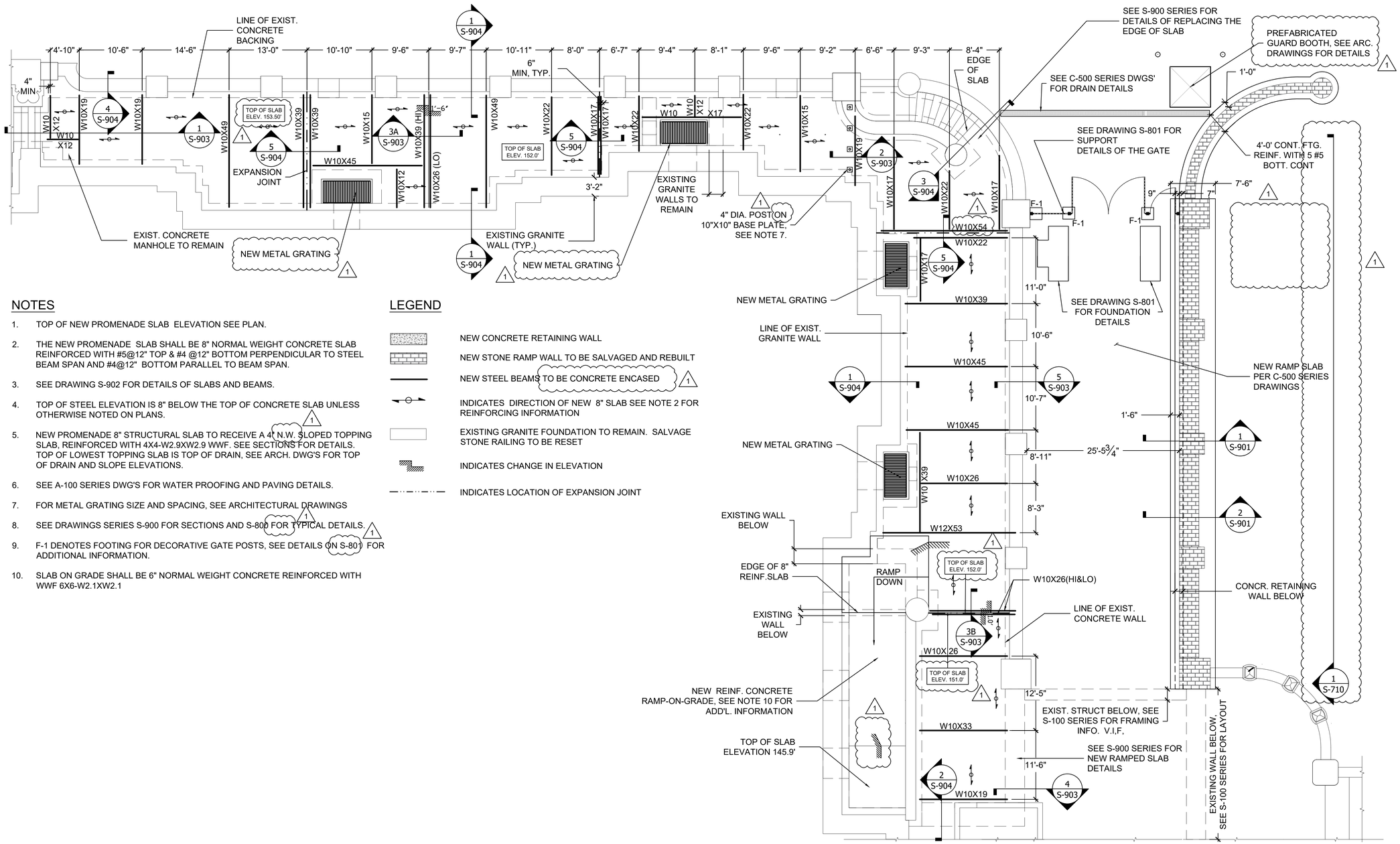
| DRAWN BY: | CO |
| FIELD CHECK: | MG |
| APPROVED: | MG |

SHEET TITLE:
SOUTH PROMENADE SLAB AND EXECUTIVE RAMP REMOVAL PLAN

DRAWING NUMBER:
DS-702

SHEET: 217 OF 257




## NOTES

1. TOP OF NEW PROMENADE SLAB ELEVATION SEE PLAN.
2. THE NEW PROMENADE SLAB SHALL BE 8" NORMAL WEIGHT CONCRETE SLAB REINFORCED WITH #5@12" TOP & #4 @12" BOTTOM PERPENDICULAR TO STEEL BEAM SPAN AND #4@12" BOTTOM PARALLEL TO BEAM SPAN.
3. SEE DRAWING S-902 FOR DETAILS OF SLABS AND BEAMS.
4. TOP OF STEEL ELEVATION IS 8" BELOW THE TOP OF CONCRETE SLAB UNLESS OTHERWISE NOTED ON PLANS.
5. NEW PROMENADE 8" STRUCTURAL SLAB TO RECEIVE A 4" N.W. SLOPED TOPPING SLAB, REINFORCED WITH 4X4-W2.9XW2.9 WWF. SEE SECTIONS FOR DETAILS. TOP OF LOWEST TOPPING SLAB IS TOP OF DRAIN, SEE ARCH. DWG'S FOR TOP OF DRAIN AND SLOPE ELEVATIONS.
6. SEE A-100 SERIES DWG'S FOR WATER PROOFING AND PAVING DETAILS.
7. FOR METAL GRATING SIZE AND SPACING, SEE ARCHITECTURAL DRAWINGS
8. SEE DRAWINGS SERIES S-900 FOR SECTIONS AND S-800 FOR TYPICAL DETAILS.
9. F-1 DENOTES FOOTING FOR DECORATIVE GATE POSTS, SEE DETAILS ON S-801 FOR ADDITIONAL INFORMATION.
10. SLAB ON GRADE SHALL BE 6" NORMAL WEIGHT CONCRETE REINFORCED WITH WWF 6X6-W2.1XW2.1

## LEGEND

- NEW CONCRETE RETAINING WALL
- NEW STONE RAMP WALL TO BE SALVAGED AND REBUILT
- NEW STEEL BEAMS TO BE CONCRETE ENCASED
- INDICATES DIRECTION OF NEW 8" SLAB SEE NOTE 2 FOR REINFORCING INFORMATION
- EXISTING GRANITE FOUNDATION TO REMAIN. SALVAGE STONE RAILING TO BE RESET
- INDICATES CHANGE IN ELEVATION
- INDICATES LOCATION OF EXPANSION JOINT

1 S701 — NORTH PROMENADE SLAB AND EXECUTIVE RAMP PROPOSED PLAN
1/8" = 1'-0"

36x24 PLOT SHEET


NEW YORK STATE | Office of General Services
DESIGN & CONSTRUCTION

STRUCTURAL CONSULTANT:
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CLIENT:
OFFICE OF GENERAL SERVICES

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| FIELD CHECK: | MG | |
| APPROVED: | MG | |

SHEET TITLE:
NORTH PROMENADE SLAB AND EXECUTIVE RAMP PROPOSED FRAMING PLAN

DRAWING NUMBER:
S-701

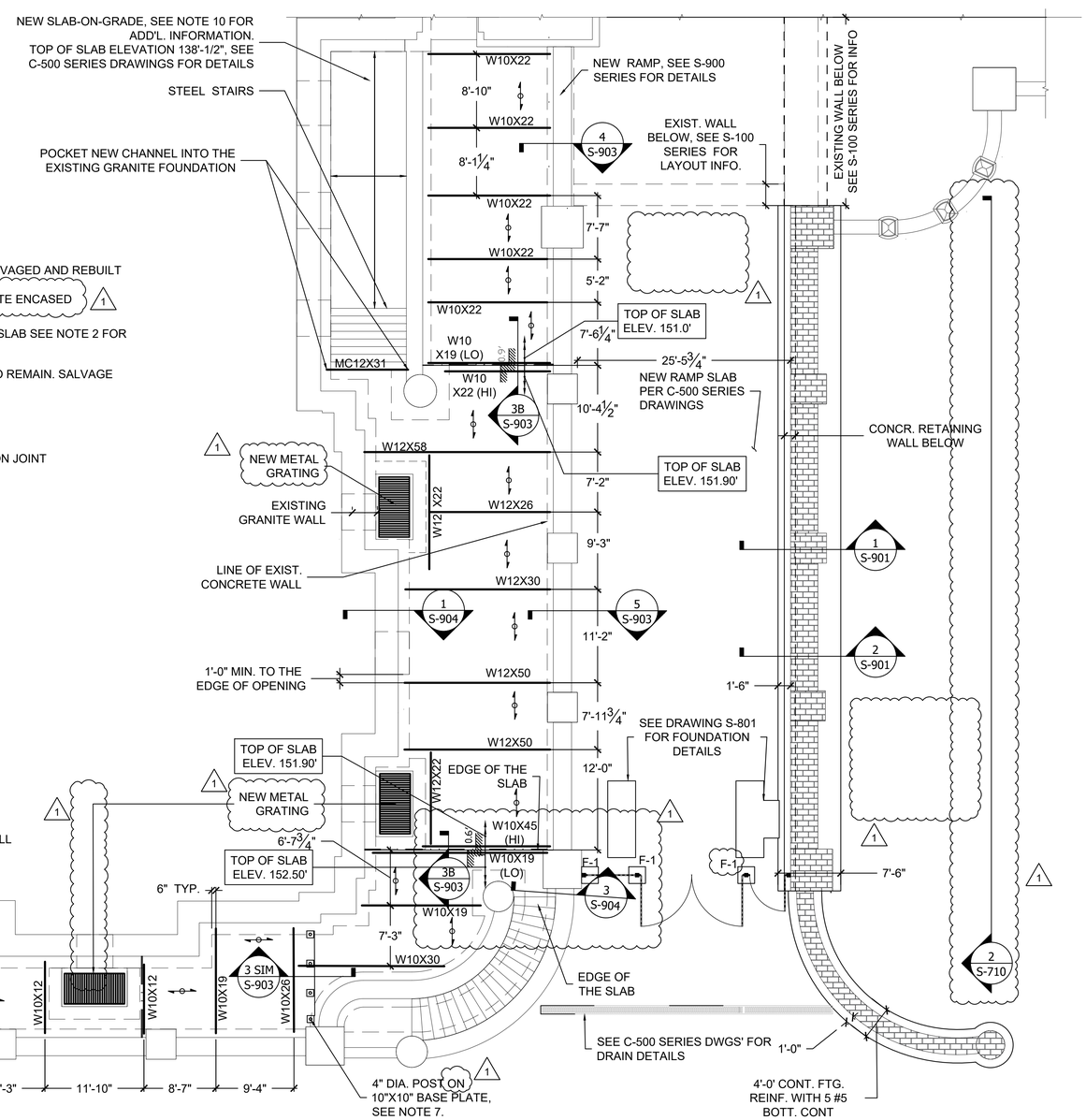
SHEET: 218 OF 257

## NOTES

1. TOP OF NEW PROMENADE SLAB ELEVATION SEE PLAN.
2. THE NEW PROMENADE SLAB SHALL BE 8" NORMAL WEIGHT CONCRETE SLAB REINFORCED WITH #5@12" TOP & #4 @12" BOTTOM PERPENDICULAR TO STEEL BEAM SPAN AND #4@12" BOTTOM PARALLEL TO BEAM SPAN.
3. SEE DRAWING S-902 FOR DETAILS OF SLABS AND BEAMS.
4. TOP OF STEEL ELEVATION IS 8" BELOW THE TOP OF CONCRETE SLAB UNLESS OTHERWISE NOTED ON PLANS.
5. NEW PROMENADE 8" STRUCTURAL SLAB TO RECEIVE A 4" N.W. SLOPED TOPPING SLAB, REINFORCED WITH 4X4-W2.9XW2.9 WWF. SEE SECTIONS FOR DETAILS. TOP OF LOWEST TOPPING SLAB IS TOP OF DRAIN, SEE ARCH. DWG'S FOR TOP OF DRAIN AND SLOPE ELEVATIONS.
6. SEE A-100 SERIES DWGS FOR WATER PROOFING AND PAVING DETAILS.
7. FOR METAL GRATING SIZE AND SPACING, SEE ARCHITECTURAL DRAWINGS
8. SEE DRAWINGS SERIES S-900 FOR SECTIONS AND S-800 FOR TYPICAL DETAILS.
9. F-1 DENOTES FOOTING FOR DECORATIVE GATE POSTS, SEE DETAILS ON S-801 FOR ADDITIONAL INFORMATION.
10. SLAB ON GRADE SHALL BE 6" NORMAL WEIGHT CONCRETE REINFORCED WITH WWF 6X6-W2.1XW2.1

## LEGEND

- NEW CONCRETE RETAINING WALL
- NEW STONE RAMP WALL TO BE SALVAGED AND REBUILT
- NEW STEEL BEAMS TO BE CONCRETE ENCASED
- INDICATES DIRECTION OF NEW 8" SLAB SEE NOTE 2 FOR REINFORCING INFORMATION
- EXISTING GRANITE FOUNDATION TO REMAIN. SALVAGE STONE RAILING TO BE RESET
- INDICATES CHANGE IN ELEVATION
- INDICATES LOCATION OF EXPANSION JOINT




1 S701 SOUTH PROMENADE SLAB AND EXECUTIVE RAMP PROPOSED PLAN
1/8" = 1'-0"

36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

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LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

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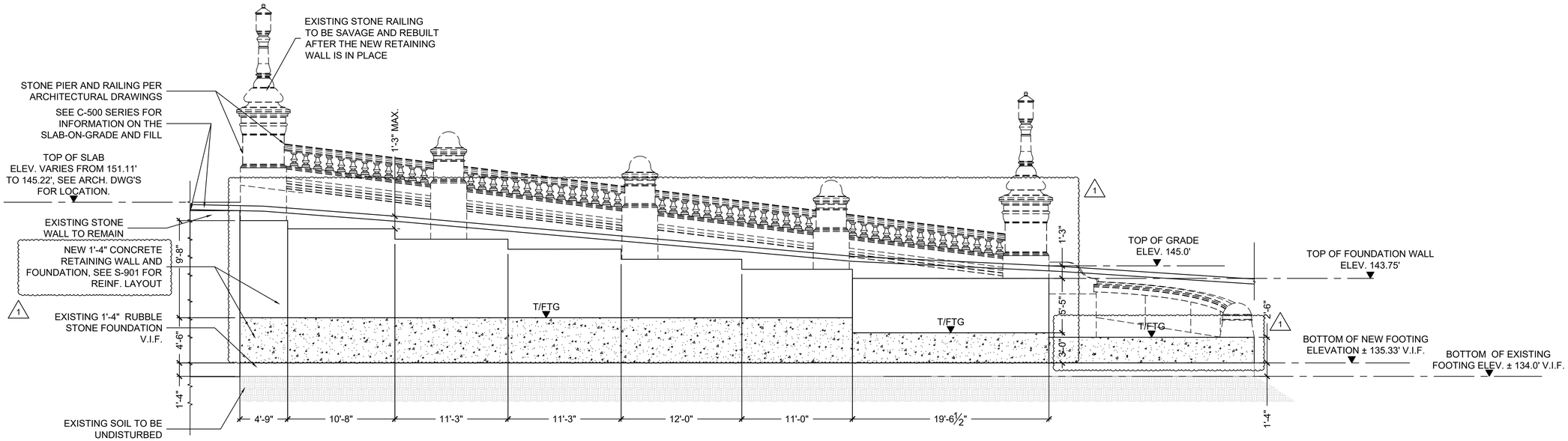
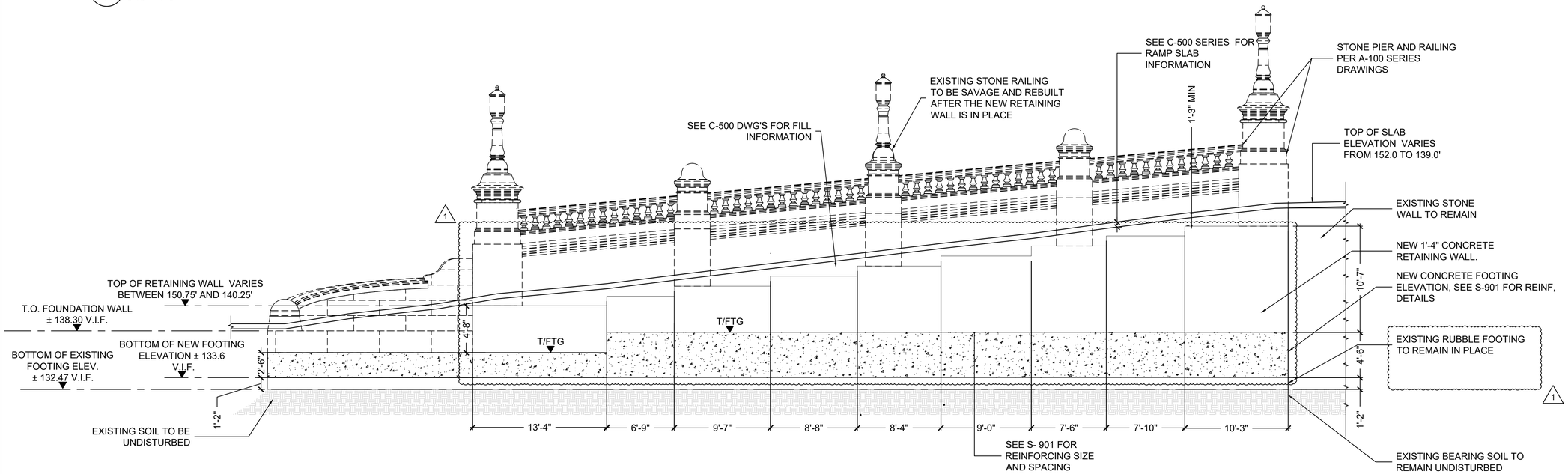
SHEET TITLE:
SOUTH PROMENADE SLAB AND EXECUTIVE RAMP PROPOSED PLAN

DRAWING NUMBER:
S-702

SHEET: 219 OF 257




1 S-710 NORTH EXECUTIVE RAMP - WEST ELEVATION
3/16" = 1'-0"




2 S-710 SOUTH EXECUTIVE RAMP - WEST ELEVATION
3/16" = 1'-0"

## NOTES

1. TOP OF FOUNDATION WALL TO BE 15" BELOW TOP OF RAMP, SEE C-500 SERIES DRAWINGS FOR TOP OF RAMP ELEVATIONS.
2. SEE S-901 FOR SIZE OF THE RETAINING WALL AND FOOTING AND REINFORCEMENT INFORMATION.
3. SEE S-600 FOR MATERIALS AND SOIL STRENGTH AND OTHER SPECIFICATIONS.
4. BOTTOM OF RETAINING WALL TO BE SUPPORTED ON THE EXISTING STONE AND TO BE AT LEAST 4' BELOW LOWEST GRADE IT IS EXPOSED TO.
5. SEE A-100 SERIES DRAWINGS FOR STONE RAILING INFORMATION

## LEGEND

- DENOTES EXISTING SOIL TO REMAIN UNDISTURBED
- DENOTES NEW CONCRETE RETAINING WALL AND FOOTING, SEE S-901 FOR DETAILS
- DENOTES EXISTING RUBBLE FOUNDATION TO REMAIN

36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

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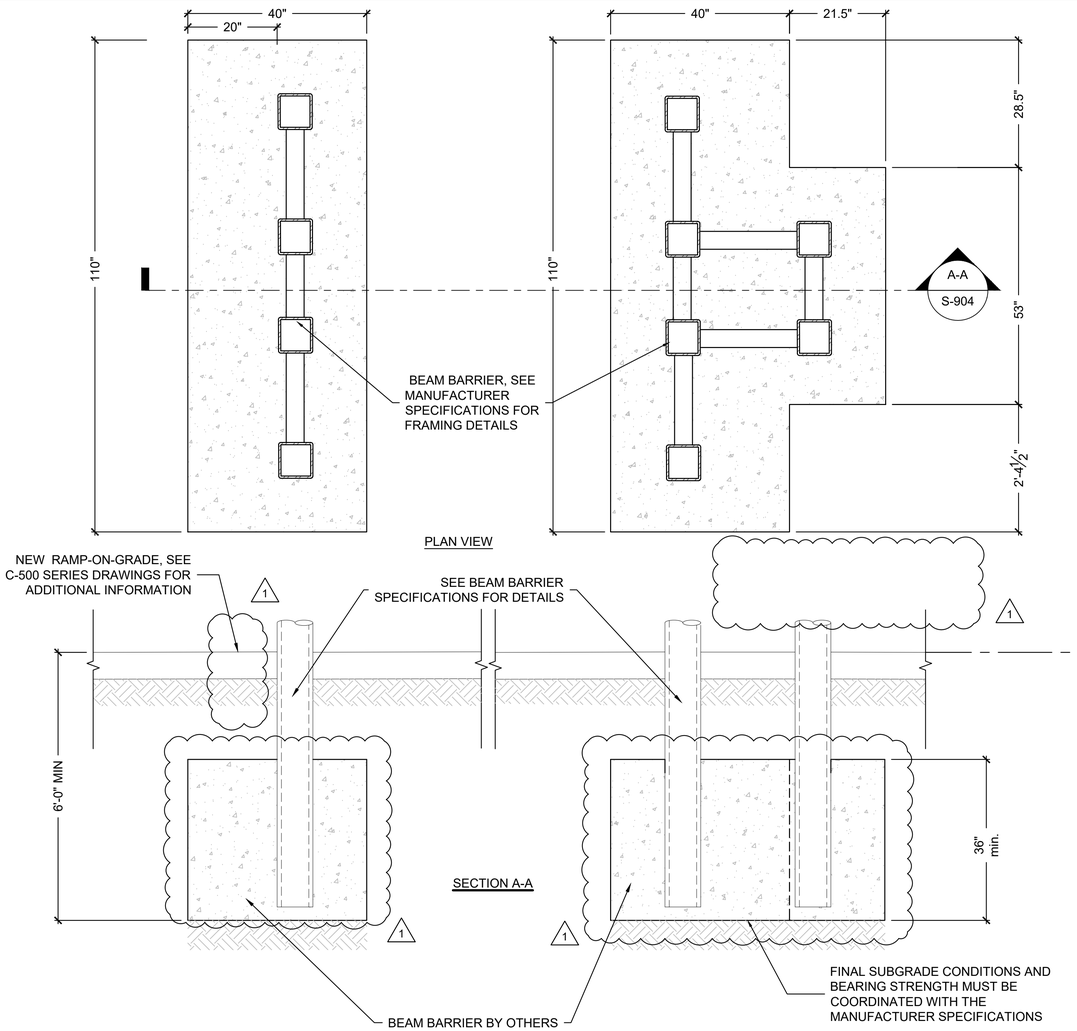
SHEET TITLE:

NORTH & SOUTH RAMP ELEVATIONS

DRAWING NUMBER:

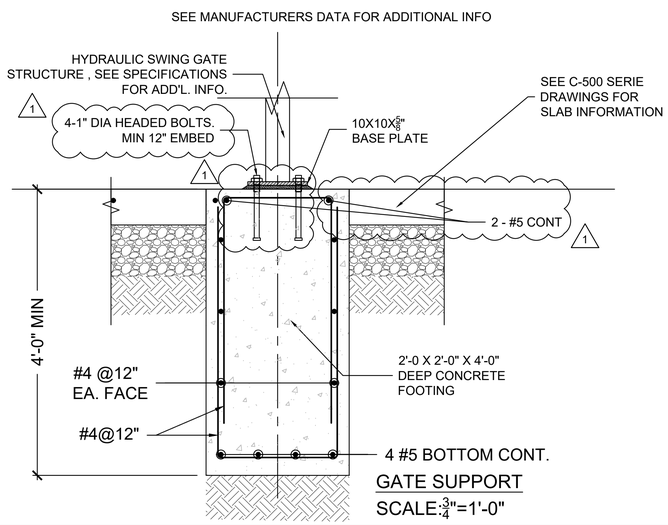
S-710

SHEET: 220 OF 257




## CRASH RATED BARRIER BEAM FOUNDATION DETAIL

SCALE:$\frac{3}{4}$"=1'-0"




## GATE SUPPORT

SCALE:$\frac{3}{4}$"=1'-0"

| SIZE | HOOKED TENSION DEVELOPMENT LENGTHS 'Ldh' (in) | | | HOOKED BAR STRAIGHT EXTENSION 'Lext' (in) | | |
|---|---|---|---|---|---|---|
| | 4000 PSI | 5000 PSI | 6000 PSI | 4000 PSI | 5000 PSI | 6000 PSI |
| #3 | 8 | 7 | 6 | 6 | 6 | 6 |
| #4 | 10 | 9 | 8 | 8 | 8 | 8 |
| #5 | 12 | 11 | 10 | 10 | 10 | 10 |
| #6 | 15 | 13 | 12 | 12 | 12 | 12 |
| #7 | 17 | 15 | 14 | 14 | 14 | 14 |
| #8 | 19 | 17 | 16 | 15 | 15 | 15 |
| #9 | 22 | 20 | 18 | 1 | 19 | 19 |

### STANDARD HOOK GEOMETRY FOR DEVELOPMENT OF DEFORMED BARS IN TENSION

| TYPE OF STANDARD HOOK | BAR SIZE | MINIMUM INSIDE BEND DIAMETER, in. | STRAIGHT EXTENSION [1] $L_{ext}$, in. | TYPE OF STANDARD HOOK |
|---|---|---|---|---|
| 90 - DEGREE HOOK | NO. 3 THROUGH NO. 8 | 6 $d_b$ | 12 $d_b$ | POINT AT WHICH BAR IS DEVELOPED, $L_{dh}$, 90° BEND, $d_b$, DIAMETER, $L_{ext}$ |
| | NO.9 THROUGH NO. 11 | 8 $d_b$ | | |
| | NO. 14 AND NO. 18 | 10 $d_b$ | | |
| 180 - DEGREE HOOK | NO. 3 THROUGH NO. 8 | 6 $d_b$ | GREATER OF 4 $d_b$ AND 2.5 in. | POINT AT WHICH BAR IS DEVELOPED, $L_{dh}$, 180° BEND, $d_b$, DIAMETER, $L_{ext}$ |
| | NO.9 THROUGH NO. 11 | 8 $d_b$ | | |
| | NO. 14 AND NO. 18 | 10 $d_b$ | | |

[1] A STANDARD HOOK FOR DEFORMED BARS IN TENSION INCLUDES THE SPECIFIC INSIDE BEND DIAMETER AND STRAIGHT EXTENSION LENGTH. IT SHALL BE PERMITTED TO USE A LONGER STRAIGHT EXTENSION AT THE END OF A HOOK. A LONGER EXTENSION SHALL NOT BE CONSIDERED TO INCREASE THE ANCHORAGE CAPACITY OF THE HOOK.

### DEFORMED BAR TENSION LAP SPLICE - CLASS B

FOR NORMAL WEIGHT STONE CONCRETE & UNCOATED BARS

| BAR SIZE | 3000 PSI CONCRETE | | 4000 PSI CONCRETE | | 5000 PSI CONCRETE | | 6000 PSI CONCRETE | |
|---|---|---|---|---|---|---|---|---|
| | CASE I | CASE II | CASE I | CASE II | CASE I | CASE II | CASE I | CASE II |
| #3 | 22 | 33 | 19 | 28 | 17 | 25 | 16 | 23 |
| #4 | 29 | 43 | 25 | 37 | 23 | 34 | 21 | 31 |
| #5 | 36 | 54 | 31 | 47 | 28 | 42 | 26 | 38 |
| #6 | 43 | 65 | 37 | 56 | 34 | 50 | 31 | 46 |
| #7 | 63 | 94 | 54 | 81 | 49 | 73 | 45 | 67 |
| #8 | 72 | 107 | 62 | 93 | 56 | 83 | 51 | 76 |
| #9 | 81 | 121 | 70 | 105 | 63 | 94 | 57 | 86 |

### DEFORMED BAR TENSION DEVELOPMENT LENGTH

FOR NORMAL WEIGHT STONE CONCRETE & UNCOATED BARS

| BAR SIZE | 3000 PSI CONCRETE | | 4000 PSI CONCRETE | | 5000 PSI CONCRETE | | 6000 PSI CONCRETE | |
|---|---|---|---|---|---|---|---|---|
| | CASE I | CASE II | CASE I | CASE II | CASE I | CASE II | CASE I | CASE II |
| #3 | 17 | 25 | 15 | 22 | 13 | 20 | 12 | 18 |
| #4 | 22 | 33 | 19 | 29 | 17 | 26 | 16 | 24 |
| #5 | 28 | 42 | 24 | 36 | 22 | 32 | 20 | 30 |
| #6 | 33 | 50 | 29 | 43 | 26 | 39 | 24 | 35 |
| #7 | 48 | 72 | 42 | 63 | 38 | 56 | 34 | 51 |
| #8 | 55 | 83 | 48 | 72 | 43 | 64 | 39 | 59 |
| #9 | 62 | 93 | 54 | 81 | 48 | 72 | 44 | 66 |

### DEFORMED TENSION BAR NOTES:

1. FOR HORIZONTAL REINFORCEMENT WITH 12 INCH OR MORE FRESH CONCRETE CAST BELOW IT, TENSION DEVELOPMENT LENGTH/ TENSION LAP SPLICE LENGTH SHALL BE 1.3x THE VALUES GIVEN.
2. FOR EPOXY-COATED BARS:

a. WHERE CONCRETE COVER IS LESS THAN 3x BAR DIAMETER, OR CLEAR SPACING IS LESS THAN 6x BAR DIAMETER, TENSION DEVELOPMENT LENGTH/ TENSION LAP SPLICE LENGTH SHALL BE 1.5x THE VALUES GIVEN.

b. WHERE CONCRETE COVER IS EQUAL TO OR GREATER THAN 3x BAR DIAMETER AND CLEAR SPACING IS GREATER THAN 6x BAR DIAMETER, TENSION DEVELOPMENT LENGTH/ TENSION LAP SPLICE LENGTH SHALL BE 1.2x THE VALUES GIVEN.

CASE I: CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN BAR DIAMETER, CLEAR COVER NOT LESS THAN BAR DIAMETER, AND STIRRUPS OR TIES THROUGHOUT DEVELOPMENT LENGTH NOT LESS THAN THE CODE MINIMUM OR CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2x BAR DIAMETER AND CLEAR COVER NOT LESS THAN BAR DIAMETER.

CASE II: OTHER CASES


NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

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STATE OF NEW YORK · RONALD J. GEDEON · 070991 · LICENSED PROFESSIONAL ENGINEER

CONTRACT:

TITLE:
REHABILITATE THE EASTERN APPROACH STAIRCASE, PROMENADES, PORTICOS, AND EXECUTIVE RAMP

LOCATION:
NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

REVISED 10/17/2024

| MARK | DATE | DESCRIPTION |
|---|---|---|
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| | 6/21/2024 | BID SET |

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|---|---|
| PROJECT NUMBER: | 47331-C |
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| DRAWN BY: | CO |
| FIELD CHECK: | MG |
| APPROVED: | MG |

SHEET TITLE:

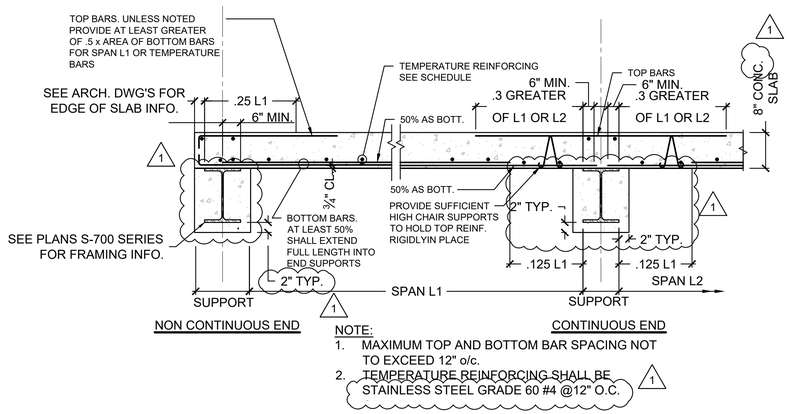
TYPICAL DETAILS

DRAWING NUMBER:

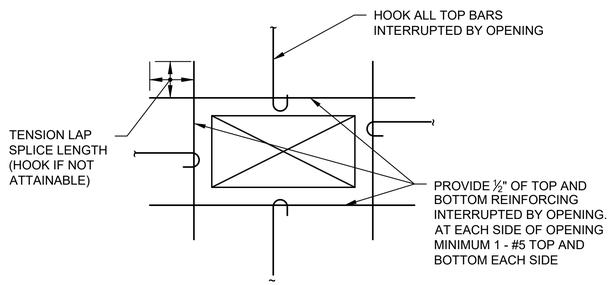
S-801

SHEET: 221 OF 257

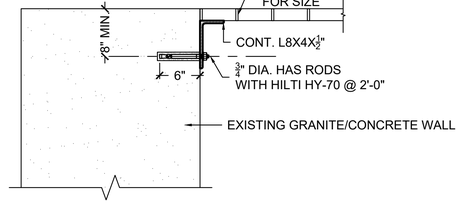
36x24 PLOT SHEET



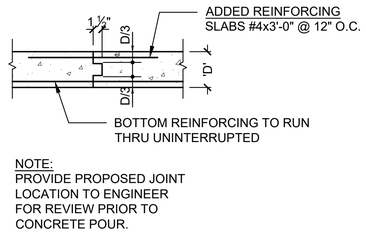

1 S-802 TYPICAL REINFORCED CONCRETE SLAB
SCALE: 3/4"=1'-0"



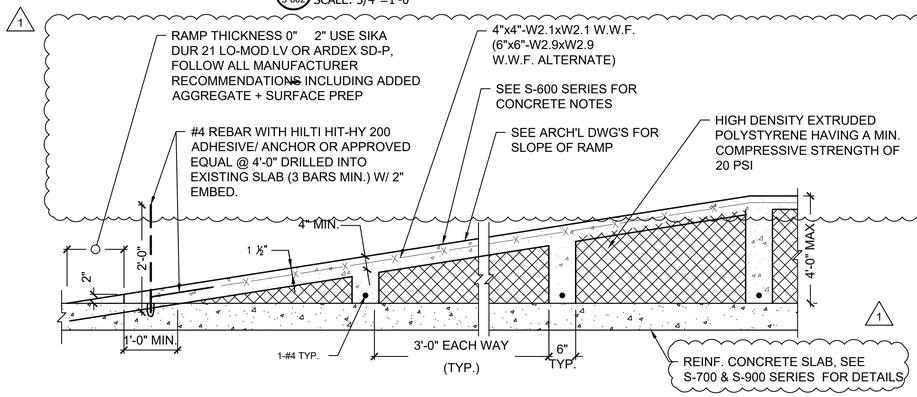

2 S-802 TYPICAL DETAIL ADDITIONAL REINFORCEMENT AT OPENING IN FRAMED SLABS
SCALE: 3/4"=1'-0"

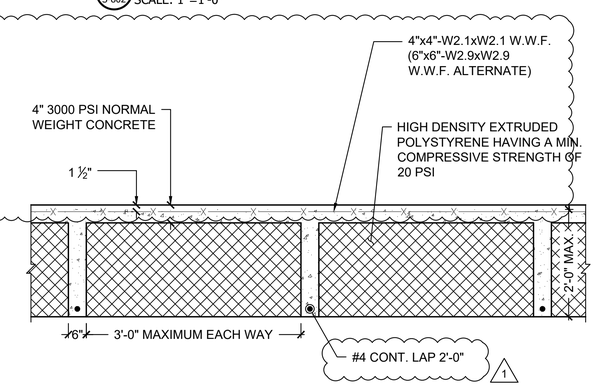



3 S-802 TYPICAL DETAIL OF GRATING SUPPORT
SCALE: 1"=1'-0"




NOTE:
PROVIDE PROPOSED JOINT LOCATION TO ENGINEER FOR REVIEW PRIOR TO CONCRETE POUR.

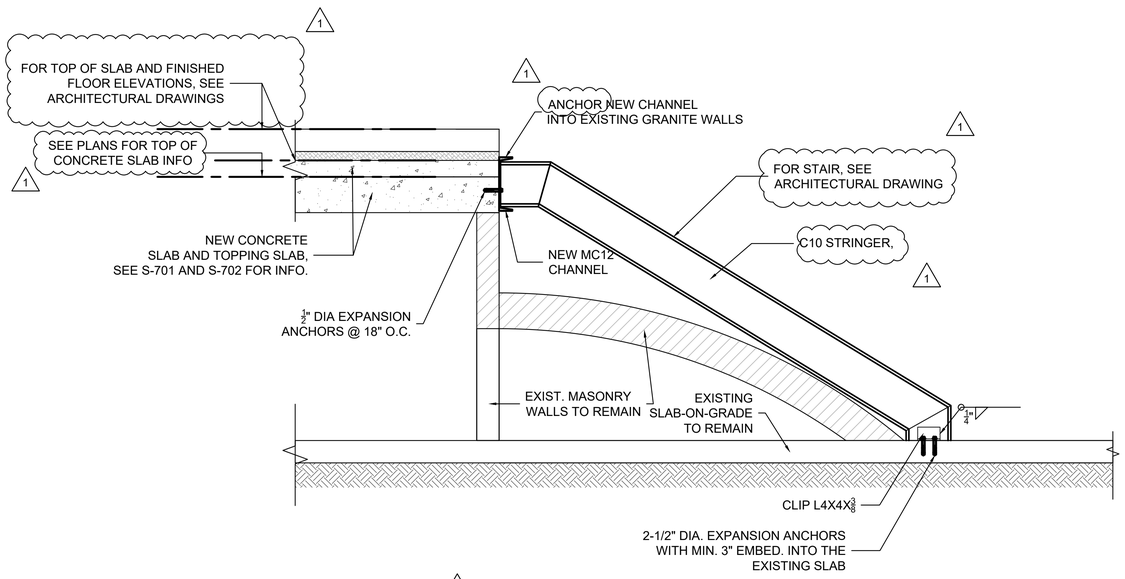


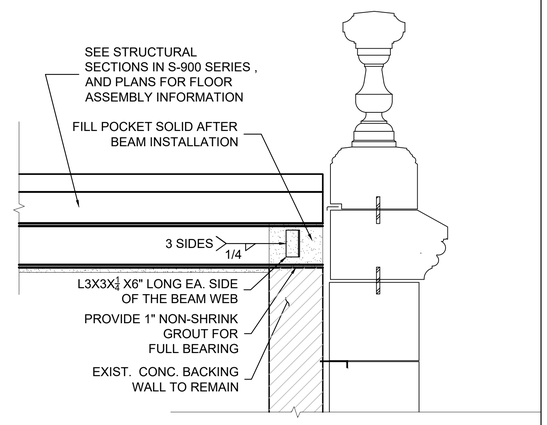

4 S-802 TYPICAL DETAIL CONSTRUCTION JOINT IN FRAMED SLAB
SCALE: 1"=1'-0"

5 S-802 TYPICAL DETAIL OF SLOPED RAISED SLAB
SCALE: 3/4"=1'-0"

6 S-802 TYPICAL DETAIL RAISED SLAB
SCALE: 3/4"=1'-0"




7 S-802 DETAIL OF STRINGER CONNECTION
SCALE: 3/4"=1'-0"




8 S-802 TYPICAL BEAM POCKET DETAIL
SCALE: 3/4"=1'-0"

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STATE OF NEW YORK · MICHELE J. GEDEON · 070901 · LICENSED PROFESSIONAL ENGINEER

CONTRACT:

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LOCATION:
NEW YORK STATE CAPITOL
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CLIENT:
OFFICE OF GENERAL SERVICES

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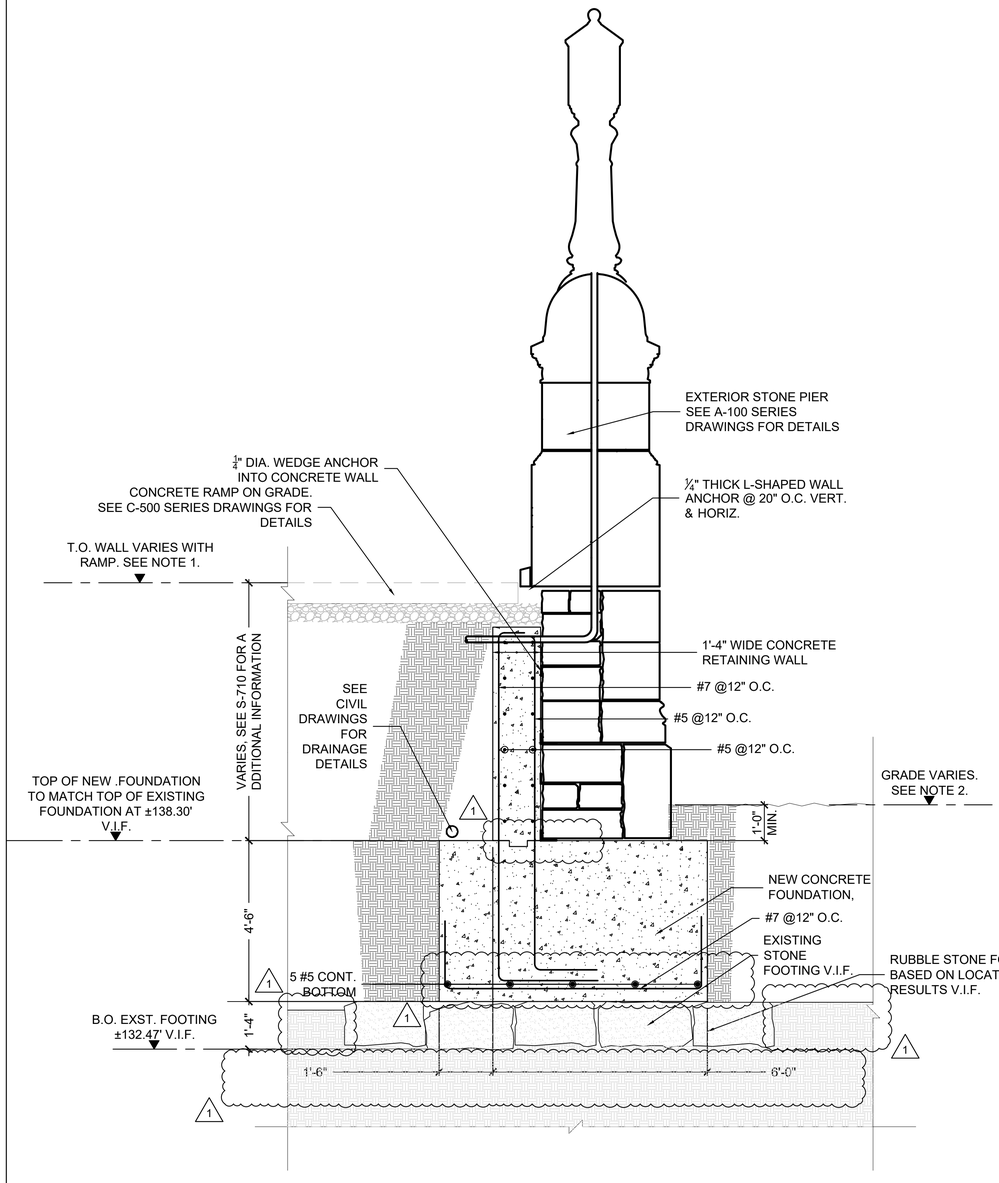
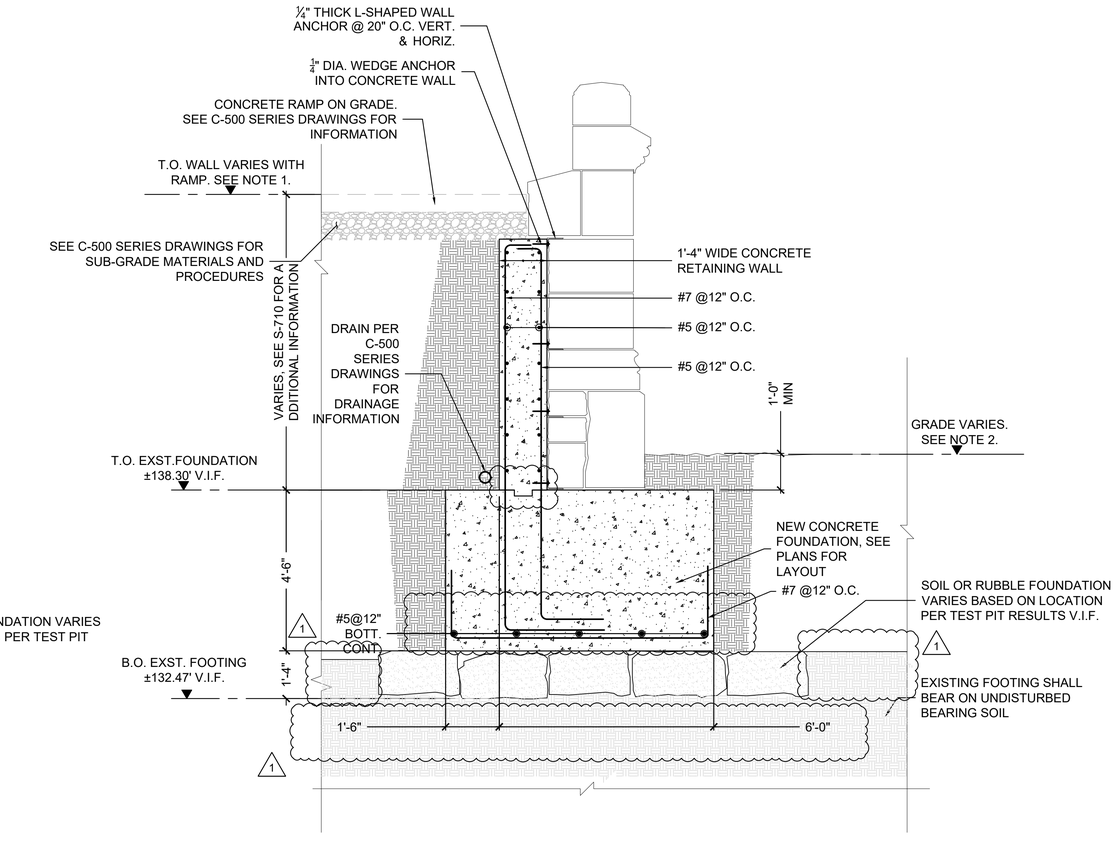
SHEET TITLE:
TYPICAL DETAILS

DRAWING NUMBER:
S-802

SHEET: 222 OF 257




1 S-901 ELEVATION AT GRANITE PIER
SCALE: 1/2"-1'-0"




2 S-901 ELEVATION AT GRANITE RAILING
SCALE: 1/2"-1'-0"

## NOTES

1. TOP OF RAMP VARIES FROM ELEVATION 139.0' TO 152.0'.
2. GRADE VARIES FROM 139.0' TO 140.0' AT THE SOUTH RAMP AND FROM 142.0' TO 144.0' AT THE NORTH RAMP.

36x24 PLOT SHEET


NEW YORK STATE | Office of General Services

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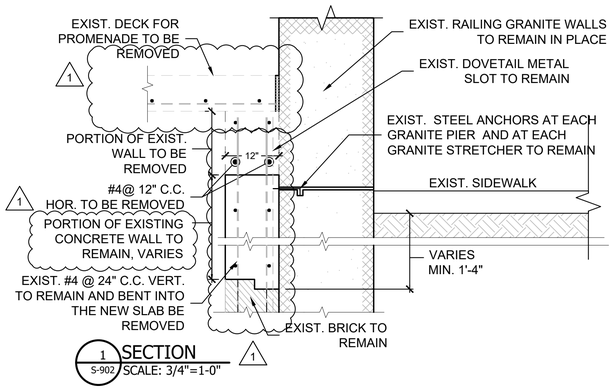
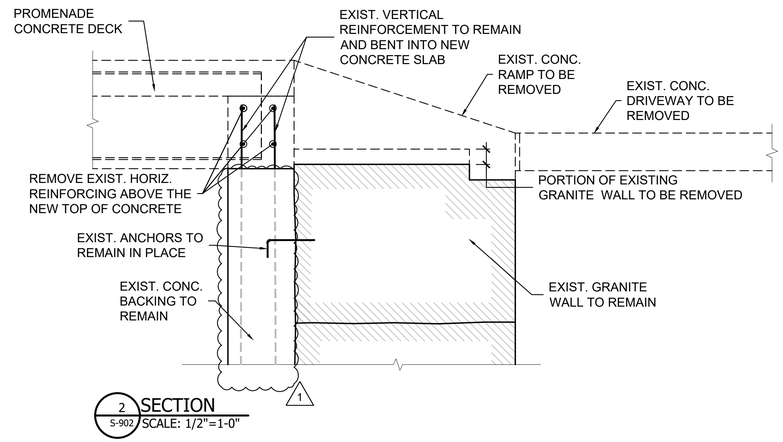
| FIELD CHECK: | MG | |
| APPROVED: | MG | |

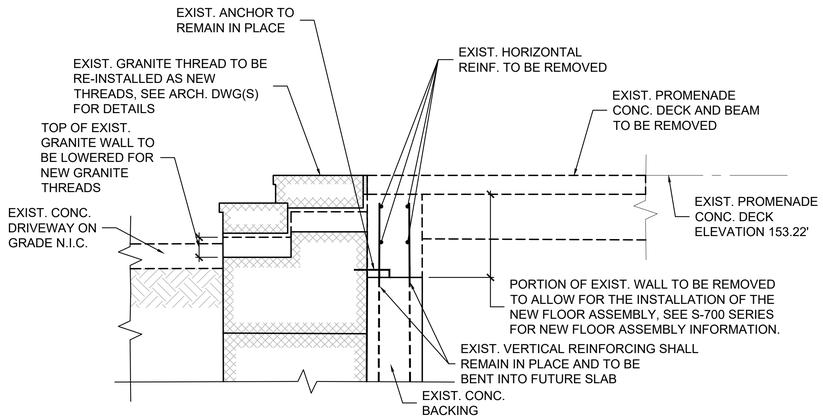
SHEET TITLE:
RETAINING WALL SECTIONS

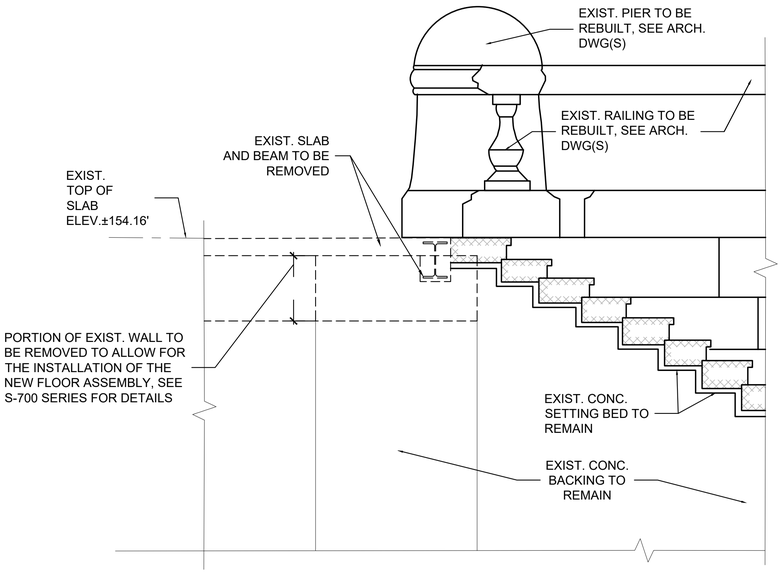
DRAWING NUMBER:
S-901

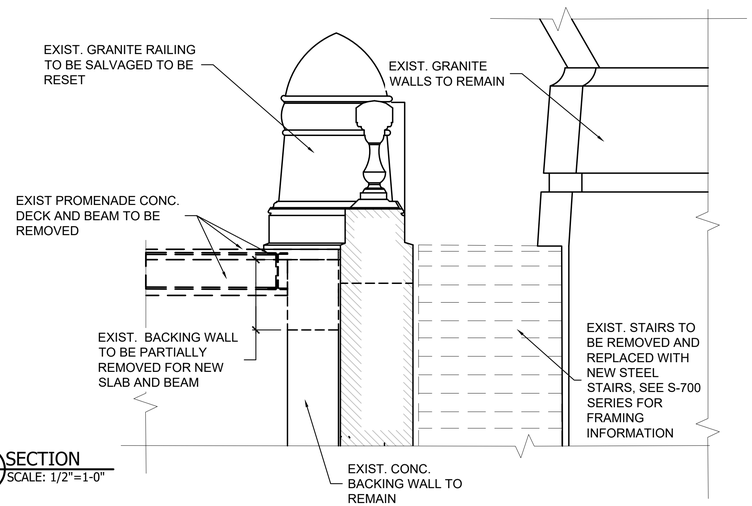
SHEET: 223 OF 257

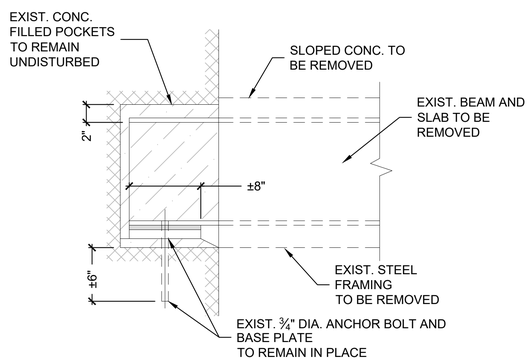



36x24 PLOT SHEET

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CONTRACT:

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NEW YORK STATE CAPITOL
ALBANY, NY

CLIENT:
OFFICE OF GENERAL SERVICES

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| | 8/21/2024 | BID SET |

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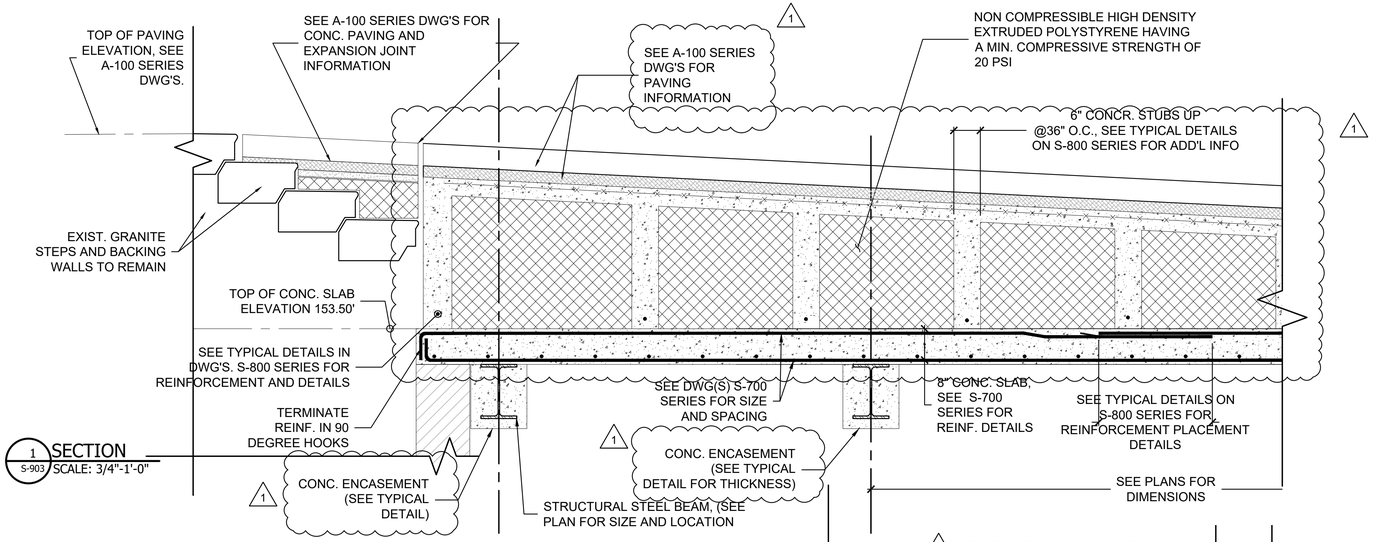
| DRAWN BY: | CO |
| FIELD CHECK: | MG |
| APPROVED: | MG |

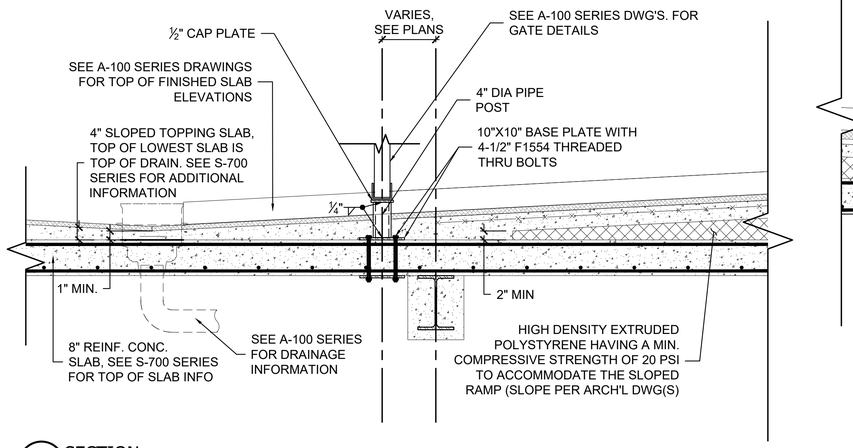
SHEET TITLE:
STRUCTURAL SECTIONS

DRAWING NUMBER:
S-902

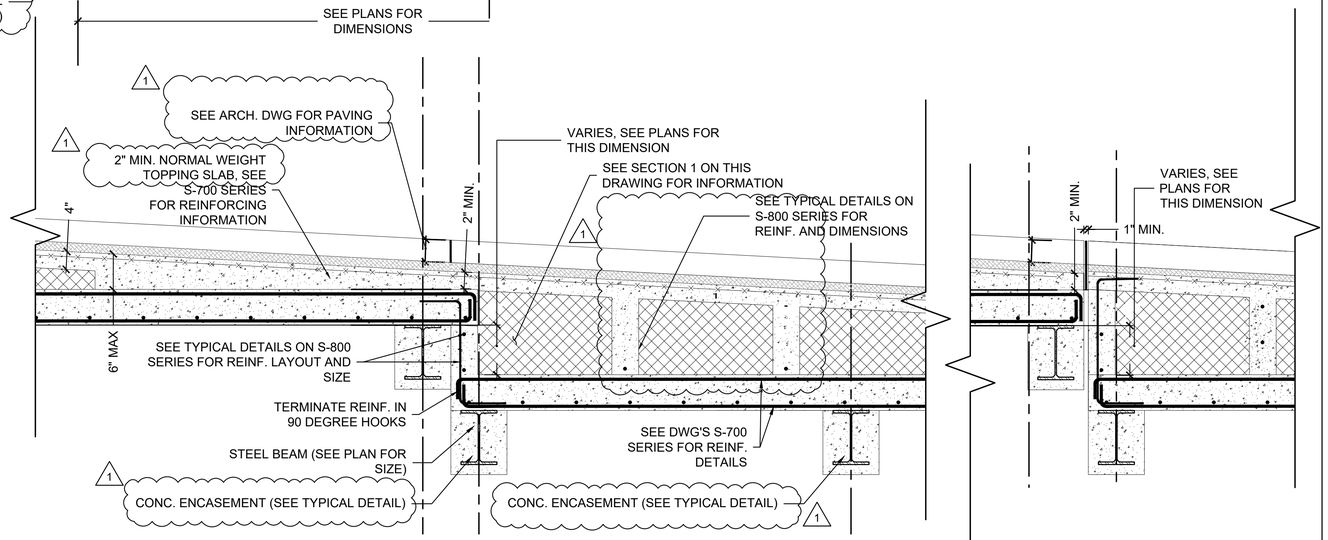
SHEET: 224 OF 257




1 SECTION
S-903 SCALE: 3/4"-1'-0"




2 SECTION
S-903 SCALE: 3/4"-1'-0"

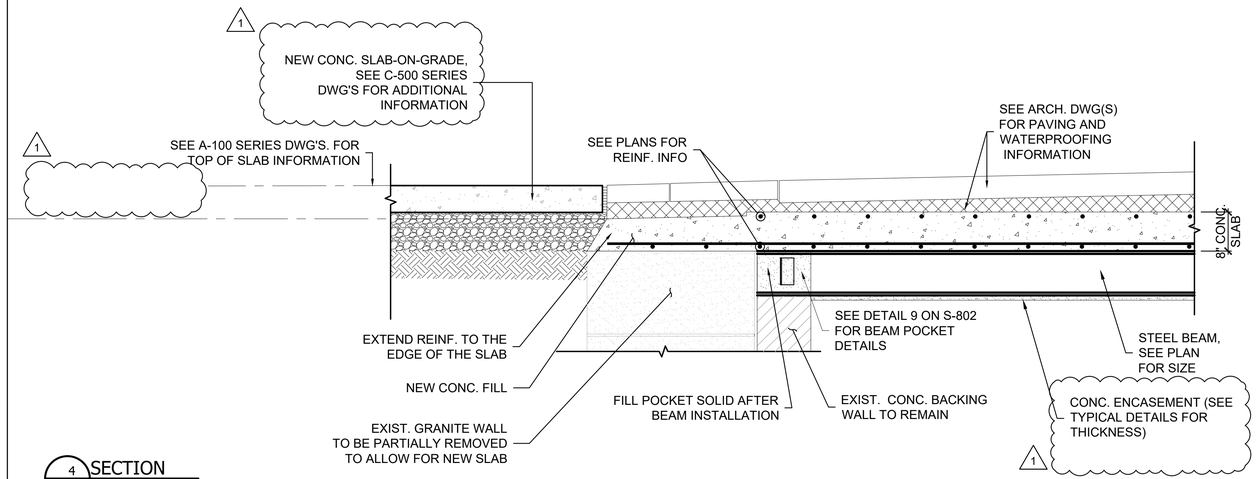



3A AT STEP WITHOUT JOINT EXPANSION
Scale: 3/4"=1'-0"

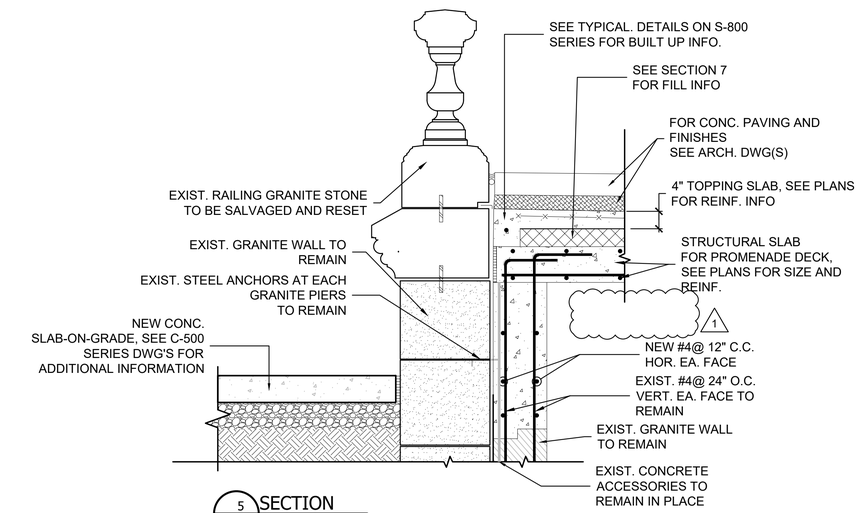



3B AT STEP WITH EXPANSION JOINT
Scale: 3/4"=1'-0"

3 SECTION
S-903 SCALE: 3/4"-1'-0"




4 SECTION
S-903 SCALE: 3/4"-1'-0"




5 SECTION
S-903 SCALE: 3/4"-1'-0"

36x24 PLOT SHEET

NEW YORK STATE | Office of General Services

DESIGN & CONSTRUCTION

STRUCTURAL CONSULTANT:

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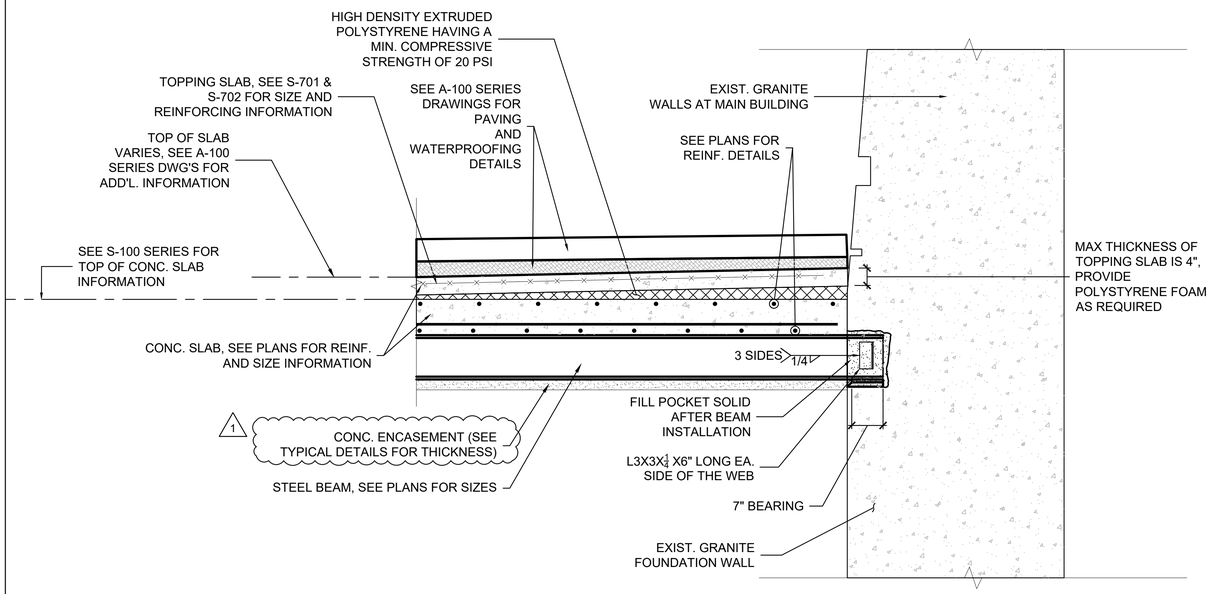
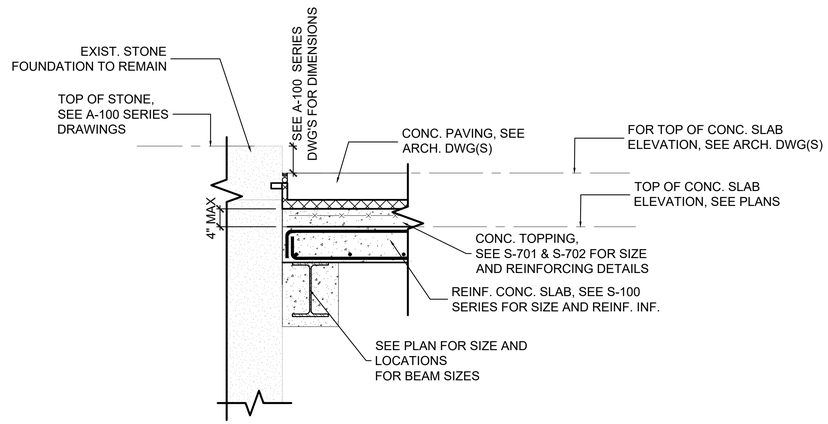
SHEET TITLE:
STRUCTURAL SECTIONS

DRAWING NUMBER:
S-903

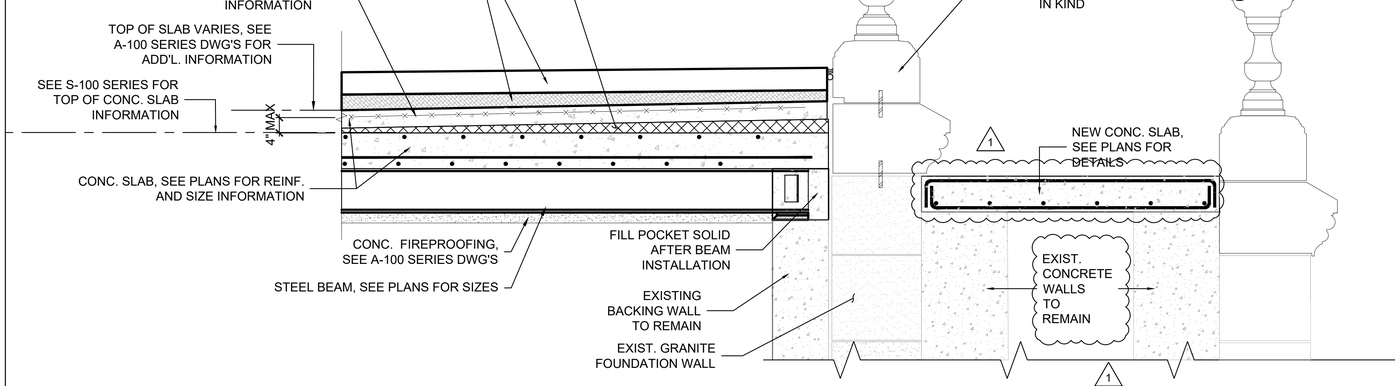
SHEET: 225 OF 257




1 SECTION
S-904 SCALE: 3/4"=1'-0"




2 SECTION
S-904 SCALE: 3/4"=1'-0"




3 SECTION
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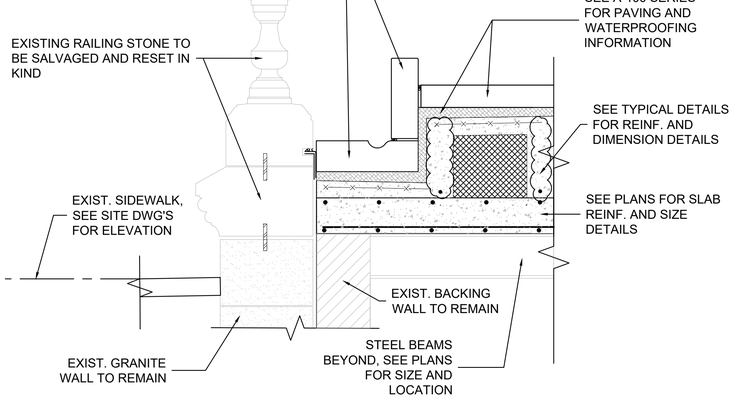
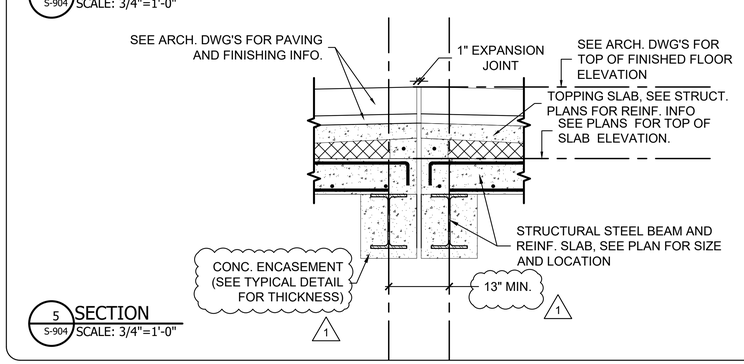



4 SECTION
S-904 SCALE: 3/4"=1'-0"




5 SECTION
S-904 SCALE: 3/4"=1'-0"

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SHEET TITLE:
STRUCTURAL SECTIONS

DRAWING NUMBER:
S-904

SHEET: 226 OF 257