



STATE OF NEW YORK
OFFICE OF GENERAL SERVICES
DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242



ADDENDUM NO. 4 TO PROJECT NO. 44752

**CONSTRUCTION WORK
REPLACE WINDOWS BUILDING 1
RIVERVIEW CORRECTIONAL FACILITY
PO BOX 158 ROUTE 37
OGDENSBURG, NEW YORK 13669-0158**

August 15, 2014

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.

SPECIFICATIONS

1. **ADD SECTION 040121** Masonry Restoration to the project manual.
2. **ADD SECTION 093016** Quarry Tile to the project manual.

DRAWINGS

1. DRAWING A-101 BUILDING 1 FLOOR PLAN: **REPLACE** "D2" with "D1" at window 064 of the floor plan.

END OF ADDENDUM

Margaret F. Larkin
Acting Executive Director

SECTION 040121

MASONRY RESTORATION

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Masonry Cleaning: Section 040123.
- B. Joint Sealers: Section 079200.

1.02 SUBMITTALS

- A. Product Data:
 - 1. Portland Cement: Brand and manufacturer's name.
 - 2. Lime: Brand and manufacturer's name.
 - 3. Mortar Pigments: Brand and manufacturer's name.
 - 4. Packaged Products: Manufacturer's specifications and application instructions for products specified.
 - 5. Sand: Location of pit, name of owner, and previous test data.
- B. Samples: Deliver to the Site for comparison with existing masonry.
 - 1. Mortar for Exposed Joints and Cracks: Each required type, minimum 12 inches long by full thickness, showing finish and color.
 - 2. Masonry Units: Each required type, full size, showing finish and full color range.

1.03 QUALITY ASSURANCE

- A. Material Container Labels: Material containers shall bear the manufacturer's label indicating manufacturer's name, trade name of product, lot number, shelf life of product, and mix ratio (if applicable).

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Packaged Products:
 - 1. Deliver materials to the site in manufacturer's original, sealed containers. Do not deliver materials which have exceeded shelf life limitation set forth by the manufacturer.
 - 2. Comply with manufacturer's printed instructions for storing and protecting materials.
- B. Bulk Aggregate: Store in a manner which will keep aggregate clean and protected from the weather elements.

1.05 PROJECT CONDITIONS

- A. Environmental Requirements:
1. For factory packaged products, comply with the manufacturer's printed limitations and instructions.
 2. At temperatures below 40 degrees F, maintain mortar temperature between 40 degrees F and 120 degrees F unless otherwise recommended by the material manufacturer. If necessary, heat mixing water and sand to produce the required results.
 3. At temperatures between 32 degrees F and 20 degrees F, provide wind breaks and cover the restored masonry to prevent wetting and freezing. Maintain restored masonry above freezing for not less than 16 hours using auxiliary heat or insulating blankets.
 4. At temperatures below 20 degrees F, provide heated enclosures for performing the Work. At the end of the workday, maintain the enclosures and keep the Work from freezing for not less than 24 hours.
 5. Do not lower freezing point of mortar by use of antifreeze, calcium chloride, or other additives.
 6. Do not use frozen materials or materials coated with ice or frost.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Mortar Types:
1. Type N Mortar: ASTM C 270, Type N.
 2. Modified Type N Pointing Mortar: ASTM C 270, Type N, modified with an acrylic additive in accordance with the additive manufacturer's printed instructions for the intended usage.
 3. Type C-1 Patching Mortar: "Thorite" by Thoro System Products; "Sonopatch" by Sonneborn Building Products; "Deco-Rez TPM 722" or "Deco-Rez TPM 723" by General Polymers Corp.; "SikaTop 122" or "SikaTop 123" by Sika Corp.; "Emaco R300 CI" or "Emaco R320 CI" or "Emaco R350 CI" or "Emaco S88 CI" by Master Builders, Inc.
- B. Mortar Color: For exposed Type N mortar and Modified Type N pointing mortar, select materials (complying with the requirements) and proportion pigments with other ingredients as necessary to match the color of existing corresponding materials.
- C. Mortar Pigments: High purity, finely ground, chemically inert, unfading, lime proof mineral oxides specially prepared for use in mortar.
- D. Acrylic Additive: "Acryl 60" by Thoro System Products; "Sonocrete" by Sonneborn Building Products; "Anchor - IT" by Anti-Hydro Waterproofing Co.
- E. Masonry Units: Match existing units in type, grade, size, appearance, and texture unless otherwise indicated.
- F. Accessories:

PART 3 EXECUTION

3.01 PREPARATION

- A. Protection: Protect adjacent surfaces not being restored. Protect sills, ledges, and projections from material droppings.
- B. Surface Preparation:
 - 1. Prepare surfaces to be restored in compliance with product manufacturer's printed instructions and as specified.
 - 2. Remove dirt, dust, and foreign material from surfaces to be restored.
 - 3. Clean areas to be restored with compressed air or water flushing, except as otherwise recommended by the mortar manufacturer.
- C. Materials Preparation:
 - 1. Dry concrete masonry units and stone that have become wet. Do not wet these masonry units.
 - 2. Wet bricks that have a high absorption rate. Wet bricks until water runs off. Install bricks when surface is slightly damp.
 - 3. Prepare exposed Type N mortar and Modified Type N pointing mortar to match the color and appearance of existing adjoining mortar.

3.02 REPOINTING JOINTS

- A. Rake or cut out joints to a minimum depth of 5/8 inch and until sound surface is reached. Where cutting is required to remove existing mortar and joint filler, use a rotary power masonry saw wherever possible without damaging masonry. Cut the mortar and joint filler cleanly from the sides of the joints, leaving square corners. Flush joints clean with water or compressed air.
- B. Dampen joints slightly before application of mortar, making sure there is no free water. Backpack joints tightly out to a depth of 5/8 inch from the face of masonry with Modified Type N pointing mortar. After backpacking mortar has attained initial set, redampen remaining 5/8 inch depth of joints, fill with Modified Type N pointing mortar, and finish joints to match existing adjoining joints.
 - 1. Where joint sealant is required, backpack the joints tightly out to a uniform depth of 1/4 inch.

3.03 REPLACING MASONRY UNITS

- A. Provide temporary shoring or other supports as required to prevent displacement of existing masonry which is to remain. Perform the removal Work with such care as may be required to prevent damage to adjoining masonry which is to remain.
- B. Remove the deteriorated and damaged masonry units to their full depth, including the surrounding joint mortar. Wherever possible without damaging masonry, use a rotary power masonry saw for cutting Work. Leave square

corners at adjoining masonry which is to remain. Clean joints and cavities by flushing with water or compressed air.

- C. Dampen contact surfaces slightly before application of mortar, making sure there is no free water. Install matching masonry units with Type N mortar. Install units to match and align with existing masonry. Maintain bonding and coursing pattern of existing masonry. Use presoaked wood wedges where necessary to properly set the units and maintain uniform matching joints. Backpack and fill joints full of mortar. Finish joints to match existing adjoining joints.

3.04 FILLING JOINTS

- A. Rake out loose mortar until sound surface is reached. Flush joints clean with water or compressed air.
- B. Dampen joints slightly before application of mortar, making sure there is no free water. Fill joints with Modified Type N pointing mortar flush with adjoining masonry.

3.05 FILLING CRACKS

- A. Non-Moving Cracks: Clean cracks with water flushing or compressed air. Dampen contact surfaces. Fill cracks with Modified Type N pointing mortar flush with adjoining masonry.
 - 1. Enlarge cracks 1/8 inch or less in width to 1/4 inch wide by minimum 3/8 inch deep prior to cleaning and filling. Use masonry saw or power chisel.
- B. Moving Cracks: Cut out cracks more than 1/8 inch in width (for sealant) as required to provide joint configuration shown on the Drawings. Use masonry saw or power chisel. Clean and dry the contact surfaces.

3.06 PATCHING MASONRY SURFACES

- A. Remove all loose and deteriorated material. Prepare substrate surface. Remove paint, oil, grease, and salt deposits from surface to be restored. Use cleaning agent, recommended by manufacturer of patching mortar, where required. Fill the depressed area or void with Type C-1 patching mortar. Provide a uniform wood float finish, flush and even with the adjacent existing surfaces. If necessary, apply the patching mortar in layers to fill the depression. Comply with manufacturer's printed instructions.

3.07 CLEANING

- A. As the Work proceeds and after completion of Work, remove excess mortar, droppings, smears, stains, and other soiling substances resulting from the Work of this Section. Remove misplaced materials from surfaces immediately.

END OF SECTION

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SECTION 093016

QUARRY TILE

PART 1 GENERAL

1.01 REFERENCES

- A. Tile Manufacturing Standard: Comply with the requirements of ANSI A 137.1 - 1988.
- B. Installation Standards: Comply with the requirements of ANSI Specifications for the Installation of Ceramic Tile, and Correlating Tile Council of America (TCA) Details, except as shown or specified otherwise.

1.02 SUBMITTALS

- A. Product Data: Manufacturer's printed specifications and installation instructions for the following:
 - 1. Each tile material specified.
 - 2. Each Setting Material specified except for reinforcement, membrane, and primer.
 - 3. Each Grouting Material specified.
 - 4. Marble Door Thresholds specified.
- B. Samples:
 - 1. Flat Tile: Each type and color specified.
 - 2. Trim Units: Each type and shape specified.
 - 3. Grout: Each type specified.
 - 4. Color Samples:
 - a. Tile manufacturer's standard range of colors and textures for each tile type specified.
 - b. Grout manufacturer's standard range of colors for each grout type specified.
- C. Quality Control Submittals:
 - 1. Tile Grade Certificates: Furnish tile manufacturer's Master Grade Certificate bearing the manufacturer's certification for each shipment of tile.
 - 2. List of Completed Installations: Furnish a list of at least 3 comparable installations of the submitted flooring materials with a satisfactory service life of not less than 3 years. Include list and references with title and contact information.
- D. Contract Closeout Submittals:
 - 1. Maintenance Data: Manufacturer's recommended cleaning and stain removal methods and materials.

1.03 QUALITY ASSURANCE

- A. Manufacturer:
 - 1. Obtain each color, grade, finish, type, composition, and variety of tile from one source with resources to provide products from the same production run for each contiguous area of consistent quality in appearance and physical properties without delaying the Work.
 - 2. Obtain ingredients of a uniform quality for each mortar, waterproof membrane, adhesive, and grout component from a single manufacturer and each aggregate from one source or producer.

- B. Certifications:
 - 1. Tile manufacturer's grade certification for each shipment of tile.

- C. Installers' Qualifications: The persons installing the work of this Section and their Supervisor shall be personally experienced in quarry or ceramic tile installation and shall have been regularly employed by a Company installing quarry or ceramic tile for a minimum of 5 years. Submit 3 project sites of similar size completed within last 3 years. The Director's Representative will view these sites to determine quality of work. If work is acceptable, the subcontractor will then be approved to perform the work.

- D. Pre-installation Conference: Before the work of this Section is scheduled to begin, a conference will be called by the Director's Representative at the site for the purpose of reviewing the Drawings and the Specifications and discussing the requirements for the Work. The conference shall be attended by the Contractor, the quarry tile installers, and if needed the quarry tile distributor.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements of ANSI A137.1 for labeling sealed tile packages.

- B. Prevent damage or contamination to materials by water, freezing, foreign matter, and other causes.

1.05 PROJECT CONDITIONS

- A. Environmental Requirements: Do not install tile until construction in spaces is completed. Set and grout tile when ambient temperature is 50 degrees F (10 degrees C) or higher and humidity conditions are being maintained. Substrate must be free of ice. All work to meet material manufacturer's recommendations.

1.06 MAINTENANCE

- A. Extra Materials: Furnish extra tile, equal to 3 percent of the tile installed, of each type, size and color of tile required for the Work. Also furnish a proportionate number of trim units. Place extra materials in storage at the site where directed.

PART 2 PRODUCTS

2.01 TILE MATERIALS

- A. Unglazed Quarry Tile: Ground square edge unglazed units complying with Section 5.2, ANSI A 137.1; Standard Grade, and of the following requirements:
 - 1. Wearing Surface: Nonabrasive.
 - 2. Facial Dimensions: 6 by 6 inches.
 - 3. Thickness: 1/2 inch.
 - 4. Face: Plain.

- B. Trim Units: Furnish necessary trim shapes of same material, grade, type, and finish as flat tile unless otherwise indicated. Furnish trim shapes required for a complete finished installation.
 - 1. Base: Sanitary cove units.
 - 2. Internal Corners: Field-buttet square corners, except with coved base and cap angle pieces designed to member with stretcher shapes.

- D. Colors: Quarry tile colors shall match existing.

2.02 SETTING MATERIALS

- A. Dry-Set Mortar: Complying with ANSI A 118.1, and meeting the requirements for setting the particular type of tile to be set with the mortar.

2.03 GROUTING MATERIALS

- A. Commercial Portland Cement Grout: Compound of Portland cement and additives, factory blended to decrease shrinkage and increase moisture resistance, and complying with ANSI A 118.6.

- B. Colors: Match existing.

2.04 MISCELLANEOUS MATERIALS

- A. Metal Edge Strips: White-zinc alloy terrazzo strips, 1/8 inch (3.2mm) wide at top edge with integral provision for anchorage to mortar bed or substrate, unless otherwise indicated.

- B. Trowelable Underlayments and Patching Compounds: Latex-modified, portland-cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.
- B. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Provide concrete substrates for tile floors installed with dry-set or latex-portland cement mortars that comply with flatness tolerances specified in referenced ANSI A 108 series of tile installation standards for installations indicated.
 - 1. Use trowelable leveling and patching compounds per tile-setting material manufacturer's written instructions to fill cracks, holes, and depressions.
 - 2. Remove protrusions, bumps, and ridges by sanding or grinding.
- B. Protection: Protect adjacent surfaces before tile work begins.
- C. Cleaning: Clean substrate surfaces in accordance with applicable reference standards and manufacturer's installation instructions.

3.03 INSTALLATION

- A. Install quarry tile in accordance with ANSI A 108.1, 108.5, or 108.6, as applicable for type of tile and method of installation, and in accordance with the printed installation instructions of the tile and setting material manufacturers.
 - 1. Neutralize and seal substrate as required by the mortar manufacturer's instructions.
 - 2. Mix and apply proprietary setting and grouting materials in compliance with the manufacturer's instructions.
- B. Setting Beds:
 - 1. Floors: Portland cement mortar..
- C. Joint Pattern: Install tile in grid pattern with 1/4 inch joint width, unless otherwise indicated.
- D. Layout tile work on principal walls, with tile field centered in both directions on the floor in each space, so that no tile less than one-half full size will occur along principal walls, unless otherwise approved to suit the features of the space. Align joints (parallel to the space axis in both directions) when adjoining tiles are the same size, unless otherwise indicated. Maintain uniform joint width.
- E. Extend tile work into recesses and under equipment and fixtures, to form a complete covering without interruptions, except as otherwise shown. Terminate tile work neatly at obstructions, edges, and corners without disruption of pattern or joint alignments.

- F. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- G. Metal Edge Strips: Install metal edge strips at edge of tile meeting other types of flooring, unless otherwise indicated.
- H. Grouting: Comply with ANSI A 108.10, 108.8, or 108.6, as applicable; for type of grout, and grout manufacturer's installation instructions. Make joints watertight, and without voids, cracks and excess grout. Damp cure in accordance with reference standards and manufacturer's instructions when applicable.

3.04 ADJUSTING

- A. Check the tile work installation. Remove defective tile and retile. Leave finished installation free of cracked, chipped, broken, unbonded, and otherwise defective tile work.

3.05 CLEANING

- A. On completion of placement and grouting, clean all quarry tile surfaces so they are free of foreign matter. Comply with grouting specifications and with grout manufacturer's printed instructions for materials and method.
 - 1. Unglazed tile may be cleaned with acid solutions only when permitted by tile and grout manufacturer's written instructions, but no sooner than 10 days after installation. Protect metal surfaces, cast iron, and vitreous plumbing fixtures from effects of acid cleaning. Flush surface with clean water before and after cleaning.

3.06 PROTECTION

- A. Apply heavy kraft paper, or other approved heavy protective covering, masked in place over tile work to prevent surface damage.
- B. Prohibit foot and wheel traffic on newly tiled areas for seven days after completion of installation unless otherwise approved by the Director's Representative.
- C. Before final inspection, remove protective coverings and rinse neutral cleaner from tile surfaces.

END OF SECTION

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