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RGA No. 15043
13 June 2016

ADDENDUM NO. 3

STATE OF DELAWARE OMB/DFM
Baylor Women's Correctional Institution
Housing Units 3&4 Bathroom Renovations
660 Baylor Boulevard
New Castle, DE 19720

R G Architects
200 West Main Street
Middletown, DE 19709
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Email: chris@rgarchitects.net

BIDS DUE: ***Thursday, June 16, 2016 at 2:30 p.m.***

LOCATION: **THOMAS COLLINS BUILDING**
Division of Facilities Management Office
540 S. DuPont Highway, Suite 1 (Third Floor)
Dover, Delaware 19901
Attn: Kerry Wareham

NOTICE TO ALL BIDDERS

1.0 GENERAL NOTES:

1.1 Bidders are hereby notified that this Addendum shall be and hereby becomes part of their Contract Documents, and shall be attached to the Project Manual for this project.

1.2 The following items are intended to revise and clarify the Drawings and Project Manual, and shall be included by the Bidder in their proposal.

1.3 Bidders shall verify that their Sub-bidders are in full receipt of the information contained herein.

2.0 Revisions to the SPECIFICATIONS

2.1 09 51 23 ACOUSTICAL TILE CEILINGS - Section added in its entirety, see attached.
2.2 09 65 10 RESILIENT FLOOR TILE – Section added in its entirety, see attached.
2.3 09 65 30 RESILIENT WALL BASE AND ACCESSORIES – Section added in its entirety, see attached.
2.4 10 28 10 TOILET AND BATH ACCESSORIES - Section added in its entirety, see attached.
2.5 11 19 00 SECURITY STAINLESS STEEL PANELS & MISC. TRIM – Section added in its entirety, see attached.

3.0 ATTACHMENT LIST:

A. 09 51 23 ACOUSTICAL TILE CEILINGS

B. 09 65 10 RESILIENT FLOOR TILE

C. 09 65 30 RESILIENT WALL BASE AND ACCESSORIES

D. 10 28 10 TOILET AND BATH ACCESSORIES

E. 11 19 00 SECURITY STAINLESS STEEL PANELS & MISC. TRIM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Acoustical tiles.
2. Suspension systems for ceilings.
3. Trim.

B. Related Sections include the following:
1. Division 07 Section “Joint Sealants”.

1.3 DEFINITIONS

A. AC: Articulation Class.

B. CAC: Ceiling Attenuation Class.

C. LR: Light-Reflectance coefficient.

D. NRC: Noise Reduction Coefficient.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, based on input from installers of the items involved:

1. Ceiling suspension system members.
2. Method of attaching hangers to building structure.

a. Furnish layouts for cast-in-place anchors, clips, and other ceiling attachment devices whose installation is specified in other Sections.

3. Size and location of initial access modules for acoustical tile.

4. Ceiling-mounted items including lighting fixtures, diffusers, grilles, speakers, sprinklers, access panels, and special moldings.
5. Minimum Drawing Scale: 1/4-inch = 1 foot.

C. Samples for Initial Selection: For components with factory-applied color finishes.

D. Samples for Verification: For each component indicated and for each exposed finish required, prepared on Samples of size indicated below.

1. Acoustical Tile: Set of full-size Samples of each type, color, pattern, and texture.
2. Concealed Suspension System Members: 12-inch- long Sample of each type.
3. Exposed Moldings and Trim: Set of 12-inch- long Samples of each type and color.

E. Qualification Data: For testing agency.

F. Field quality-control test reports.

G. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each acoustical tile ceiling.

H. Maintenance Data: For finishes to include in maintenance manuals.

1.5 QUALITY ASSURANCE

A. Source Limitations:

1. Acoustical Ceiling Tile: Obtain each type through one source from a single manufacturer.
2. Suspension System: Obtain each type through one source from a single manufacturer.

B. Source Limitations: Obtain each type of acoustical ceiling tile and supporting suspension system through one source from a single manufacturer.

C. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination. "

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver acoustical tiles, suspension system components, and accessories to Project site in original, unopened packages and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.

B. Before installing acoustical tiles, permit them to reach room temperature and stabilized moisture content.

C. Handle acoustical tiles carefully to avoid chipping edges or damaging units in any way.

1.7 PROJECT CONDITIONS

A. Environmental Limitations: Do not install acoustical tile ceilings until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

1.8 COORDINATION

A. Coordinate layout and installation of acoustical tiles and suspension system with other construction that penetrates ceilings or is supported by them, including light fixtures, HVAC equipment, fire-suppression system, and partition assemblies.

1.9 EXTRA MATERIALS

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

1. Acoustical Ceiling Units: Full-size tiles equal to 2.0 percent of quantity installed.
2. Suspension System Components: Quantity of each concealed grid and exposed component equal to 2.0 percent of quantity installed.
3. Hold-Down Clips: Equal to 2.0 percent of amount installed.

PART 2 - PRODUCTS

2.1 ACOUSTICAL TILES, GENERAL

A. Acoustical Tile Standard: Provide manufacturer's standard tiles of configuration indicated that comply with ASTM E 1264 classifications as designated by types, patterns, acoustical ratings, and light reflectances, unless otherwise indicated.

B. Acoustical Tile Colors and Patterns: Match appearance characteristics for each product type.

2.2 MANUFACTURERS

A. Acoustical Tile(s) / Suspension System(s):

1. Basis-of-Design: The design for acoustical tile type(s) and acoustical ceiling suspension system(s) specified, are based on the named product by Armstrong

World Industries, Lancaster, PA. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:

a. USG Interiors, Inc., Chicago, IL
b. BPB America, Tampa, FL

B. Other acoustical ceiling tile manufacturer's products comparable to these designs and specifications will be considered in accordance with the requirements of Division 01 and the following requirements:

1. Ceiling Attenuation Class (CAC): Shall not vary more than 5 points.
2. Noise Reduction Coefficient Range (NRC): Shall not vary more than .05 points.
3. Light Reflectance (LR): Shall not vary more than .05 points.

2.3 ACOUSTICAL TILES

A. Acoustical Tile (Type-A): High Acoustics, Fine Fissured, Smooth Textured, “Armstrong Fine Fissured #1719”, the intent is to match the existing ceiling tiles (contractor to field verify) and conforming to the following:

1. Surface Texture: Smooth /Fine
2. Composition: Mineral Fiber
3. Color: White.
4. Size: 24in by 24in by 3/4in.
5. Edge Profile: Beveled Tegular
6. Noise Reduction Coefficient (NRC): ASTM C 423; Classified with UL label on product carton, 0.70.
7. Ceiling Attenuation Class (CAC): ASTM C 1414; Classified with UL label on product carton, 35
8. Emissions Testing: Section 01350 Protocol, < 13.5 ppb of formaldehyde when used under typical conditions required by ASHRAE Standard 62.1-2004, "Ventilation for Acceptable Indoor Air Quality"
9. Flame Spread: ASTM E 1264; Class A (UL)
10. Light Reflectance (LR): ASTM E 1477; White Panel: Light Reflectance: 0.90.
11. Dimensional Stability: HumiGuard Plus - Temperature is between 32°F (0° C) and 120°F (49° C). It is not necessary for the area to be enclosed or for HVAC systems to be functioning. All wet work (plastering, concrete, etc) must be complete and dry.
12. Antimicrobial Protection: BioBlock Plus - Resistance against the growth of mold/mildew and gram positive and gram negative odor and stain causing bacteria.
13. VOC Removal: AirGuard Coating removes formaldehyde present in indoor air; performance certified by UL Environment.
14. Acceptable Product: Ultima Lay-In and Tegular with AirGuard Coating, 1902 as manufactured by Armstrong World Industries

15. Mold/Mildew Inhibitor: The front and back of the product have been treated with BioBlock, a paint that contains a special biocide that inhibits or retards the growth of mold or mildew, ASTM D 3273.

2.4 SUSPENSION SYSTEMS FOR THE FOLLOWING ACOUSTICAL TILE CEILINGS

A. TYPE-A :

1. Product: Prelude ML 15/16-inch Exposed Tee.

   a. Components: All main beams and cross tees shall be commercial quality hot-dipped galvanized galvanized steel as per ASTM A 653. Main beams and cross tees are double-web steel construction with type exposed flange design. Exposed surfaces chemically cleansed, capping pre-finished galvanized steel in baked polyester paint. Main beams and cross tees shall have rotary stitching.
   b. Structural Classification: ASTM C 635 Intermediate Duty.
   c. Hold down clips
   d. Color: Match the actual color of the selected ceiling tile, unless noted otherwise.
   e. Attachment Devices: Size for five times design load indicated in ASTM C 635, Table 1, Direct Hung unless otherwise indicated.
   f. Wire for Hangers and Ties: ASTM A 641, Class 1 zinc coating, soft temper, pre-stretched, with a yield stress load of at least time three design load, but not less than 12 gauge.
   g. Edge Moldings and Trim: Metal or extruded aluminum of types and profiles indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations, including light fixtures, that fit type of edge detail and suspension system indicated. Provide moldings with exposed flange of the same width as exposed runner.

2.5 ACCESSORIES

A. Accessories: Splices, furring clips, and stabilizer bars as required to complete ceiling system and supplied by suspension system manufacturer. Provide manufacturer hold-down clips for all lay-in units, to hold panels tight to grid system where air up-lift might occur, within 15 feet of exterior doors and entrances and where scheduled or indicated for entire room ceiling system.

B. Rough Suspension:

1. Hanger Wire: Minimum 12 gauge galvanized, soft-annealed, mild steel wire.

2. Wire Ties: 18 gauge galvanized annealed steel wire.
3. Carrying Channels: 16 gauge, 1-1/2-inch cold-rolled steel.

C. Ceiling Expansion Joint Cover: Material: Flexible white vinyl filler.

D. Touch-Up Paint: Type and color required to match acoustical units and grid system.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, including structural framing and substrates to which acoustical tile ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of acoustical tile ceilings.

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

3.2 INSPECTION/COORDINATION

A. Coordinate the locations and installation of hangers with the work of other trades.

B. Ensure the layout of hangers and carrying channels are located to accommodate fixtures and equipment that will be placed after the installation of ceiling grid system(s).

C. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest adjacent hangers and related carrying channels as required to span the required distance.

D. Coordinate mechanical and electrical fixtures/equipment to be incorporated into the suspended ceiling and grid system as indicated or as required. However, support of such items shall be by separate independent supports installed by the respective trades.

3.3 INSTALLATION - ACOUSTICAL UNITS

A. Install in level plane in straight-line courses.

B. Fit acoustic lay-in panels to bear all four sides on suspension members, free from damaged edges or other defects detrimental to appearance and function.

C. Minimum width of border tiles: One-half unit dimension.

D. Lay directionally patterned tile, as directed by Architect, with longest dimension of tile parallel to longest dimension of room, unless indicated otherwise on "Reflected Ceiling Plan(s)".

E. Hold-down Clips:

1. Install hold-down clips on all lay-in units, to hold panels tight to grid in all buildings
2. Buildings shall receive hold down clips at areas including areas adjacent to exterior doors, and at all lay in units in a fire-rated ceiling system.
3. Non-Rated System: Install to retain all panels, weighing less than 1 lb. per sq. ft., tight to grid system within 15 feet of exterior doors and entrances.

3.4 INSTALLATION - SUSPENSION SYSTEM

A. Install fire rated ceiling system(s), when indicated, in accordance with applicable UL Design requirements.

B. Install in accordance with ASTM C636 and manufacturer's recommendations to produce finished ceiling true to lines and levels and free from warped, soiled or damaged grid.

C. Install ceiling system(s) in a manner capable of supporting all superimposed loads, with maximum permissible deflection of 1/360 of span and maximum surface deviation of 1/8-inch in 12 feet.

D. In the absence of "Reflected Ceiling Plan(s)", lay out ceiling system(s) on room axis to a balanced grid design leaving equal border pieces no less than 50 percent of acoustical unit size.

E. Rough Suspension:

1. Hanger Clips on Inserts: Install as recommended by manufacturer.
2. Hanger Wire: Space 4 feet on centers, each direction.
3. Do not splay wires more than 5 inches in a 4-foot vertical drop.
4. Wrap wire a minimum of three times horizontally, turning ends upward.
5. Saddle tie carrying channels to main structure for indirect hung suspension system, as appropriate.

F. Main and Cross Runners:

1. Space main runners at 4 feet on centers, in direction of lighting pattern.

    a. At right angle to carrying channel, wire clip to channels at intersections, if indirect suspension is required.
    b. Level and square to adjacent walls.

2. Space cross runners at 2 feet on center.
3. Suspend grid system(s) independently of walls, columns, ducts, lighting fixtures, pipes and conduit.

G. Mechanical and Electrical Components: Where mechanical and electrical components are an integral part of the ceiling system, support such components by supplementary hangers attached to the grid system and located within 6 inches of each corner of such component. Extremely heavy components shall be supported independently of grid system.

H. Do not eccentrically load system, or produce rotation of runners.

I. Wall Molding:

1. Install wall molding at intersection of suspended ceiling and vertical surfaces.
2. Install inside and outside corner caps where wall moldings intersect, and preformed closers where bullnose corners occur matching edge molding.
3. Attach to vertical surface with mechanical fasteners using maximum lengths; straight, true to line and level.

3.5 INSTALLATION - SUSPENDED CEILING SOUND INSULATION

A. Install sound attenuation insulation for a distance or 48 inches either side of acoustical partitions in accordance with manufacturer's instructions.

B. Trim insulation neatly to fit spaces without gaps or voids. Do not compress insulation.

3.6 CLEANING

A. Clean exposed surfaces of acoustical tile ceilings, including trim and edge moldings. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage. Remove and replace tiles and other ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 09 51 23

PART 1 RELATED DOCUMENTS

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Vinyl Composition Tile (VCT).

B. Related Sections include the following:

1. Division 9 Section "Resilient Wall Base and Accessories" for resilient wall base, reducer strips, and other accessories installed with resilient floor tiles.
2. Division 3 Section “Cast In Place Concrete”: Concrete Slabs.

1.3 SUBMITTALS

A. Product Data: For each type of product specified.

B. Samples for Initial Selection: Manufacturer's color charts consisting of units or sections of units showing the full range of colors and patterns available for each type of product indicated.

C. Samples for Verification: Full-size tiles of each different color and pattern of resilient floor tile specified, showing the full range of variations expected in these characteristics.

1. For resilient accessories, manufacturer's standard-size samples, but not less than 12 inches (300 mm) long, of each resilient accessory color and pattern specified.

D. Product Certificates: Signed by manufacturers of resilient products certifying that each product furnished complies with requirements.

E. Maintenance Data: For resilient floor tile to include in the maintenance manuals specified in Division 1.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced installer to perform work of this Section who has specialized in installing resilient products similar to those required for this Project and with a record of successful in-service performance.

B. Source Limitations: Obtain each type, color, and pattern of product specified from one source with resources to provide products of consistent quality in appearance and physical properties without delaying the Work.

C. Fire-Test-Response Characteristics: Provide products with the following fire-test-response characteristics as determined by testing identical products per test method indicated below by a testing and inspecting agency acceptable to authorities having jurisdiction.

1. Critical Radiant Flux: 0.45 W/sq. cm or greater when tested per ASTM E 648.
2. Smoke Density: Maximum specific optical density of 450 or less when tested per ASTM E 662.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to Project site in manufacturer's original, unopened cartons and containers, each bearing names of product and manufacturer, Project identification, and shipping and handling instructions.

B. Store products in dry spaces protected from the weather, with ambient temperatures maintained between 50 and 90 deg F (10 and 32 deg C).

C. Store tiles on flat surfaces.

D. Move products into spaces where they will be installed at least 48 hours before installation, unless longer conditioning period is recommended in writing by manufacturer.

1.6 PROJECT CONDITIONS

A. Maintain a temperature of not less than 70 deg F (21 deg C) or more than 95 deg F (35 deg C) in spaces to receive products for at least 48 hours before installation, during installation, and for at least 48 hours after installation, unless manufacturer's written recommendations specify longer time periods. After postinstallation period, maintain a temperature of not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).

B. Do not install products until they are at the same temperature as the space where they are to be installed.

C. Close spaces to traffic during flooring installation and for time period after installation recommended in writing by manufacturer.

D. Install tiles and accessories after other finishing operations, including painting, have been completed.

E. Where demountable partitions and other items are indicated for installation on top of resilient tile flooring, install tile before these items are installed.

F. Do not install flooring over concrete slabs until slabs have cured and are sufficiently dry to bond with adhesive, as determined by flooring manufacturer's recommended bond and moisture test.

1.7 EXTRA MATERIALS

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

1. Furnish not less than one box for each 20 boxes (5%) or fraction thereof, of each type, color, pattern, class, wearing surface, and size of resilient tile flooring installed.
2. Furnish not less than 10 linear for each 200 linear feet or fraction thereof, of each type, color, pattern, and size of resilient accessory installed.
3. Deliver extra materials to Owner.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Products: Subject to compliance with requirements, provide one of the products indicated for each designation in the Resilient Tile Flooring Schedule at the end of Part 3.

2.2 RESILIENT TILE

A. Vinyl Composite Tile: Products complying with ASTM F 1700 and ASTM F1066 and with requirements specified in the Resilient Tile Flooring Schedule.

2.3 RESILIENT ACCESSORIES

A. Rubber Wall Base: Products complying with ASTM F-1861, Type TP, Group 1, and with requirements specified in the Resilient Tile Flooring Schedule

B. Rubber Accessory Moldings: Products complying with requirements specified in the Resilient Tile Flooring Schedule.

2.4 INSTALLATION ACCESSORIES

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based formulation provided or approved by flooring manufacturer for applications indicated.

B. Adhesives: Water-resistant and stabilized type adhesive recommended by manufacturer to suit resilient products and substrate conditions indicated.
   1. TOLI - #900 Adhesive

C. Concrete slab primer: Provide non-staining type as required and as recommended by the manufacturer of the material being installed.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions where installation of resilient products will occur, with Installer present, for compliance with manufacturer's requirements. Verify that substrates and conditions are satisfactory for resilient product installation and comply with requirements specified.

B. Concrete Subfloors: Verify that concrete slabs comply with ASTM F 710 and the following:

   1. Slab substrates are dry and free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by flooring manufacturer.
   2. Subfloor finishes comply with requirements specified in Division 3 Section "Cast-in-Place Concrete" for slabs receiving resilient flooring.
   3. Subfloors are free of cracks, ridges, depressions, scale, and foreign deposits.

C. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. General: Comply with resilient product manufacturer's written installation instructions for preparing substrates indicated to receive resilient products.

B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, and depressions in substrates.

C. Remove coatings, including curing compounds, and other substances that are incompatible with flooring adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.

D. Broom and vacuum clean substrates to be covered immediately before product installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, or dust. Do not proceed with installation until unsatisfactory conditions have been corrected.

E. Verify that substrate is smooth, level at required finish elevation and without more than 1/8" in 10'-0" variation from level or slopes shown on the drawings.

F. Perform moisture test on concrete slabs to determine that concrete surfaces are sufficiently cured and are ready to receive tile installation.

3.3 TILE INSTALLATION

A. General: Comply with tile manufacturer's written installation instructions.

B. Lay out tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half of a tile at perimeter. Lay out tiles as indicated on drawings.

1. Lay tiles square with room axis, unless otherwise indicated.

C. Match tiles for color and pattern by selecting tiles from cartons in the same sequence as manufactured and packaged, if so numbered. Cut tiles neatly around all fixtures. Discard broken, cracked, chipped, or deformed tiles.

1. Lay tiles with grain running in two directions (i.e. basket weave pattern).
2. Lay tiles in pattern of colors and sizes indicated on Drawings.

D. Scribe, cut, and fit tiles to butt neatly and tightly to vertical surfaces and permanent fixtures, including built-in furniture, cabinets, pipes, outlets, edgings, door frames, thresholds, and nosings.

E. Extend tiles into toe spaces, door reveals, closets, and similar openings.

F. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on finish flooring as marked on subfloor. Use chalk or other nonpermanent, nonstaining marking device.

G. Install tiles on covers for telephone and electrical ducts, and similar items in finished floor areas. Maintain overall continuity of color and pattern with pieces of flooring installed on covers. Tightly adhere edges to perimeter of floor around covers and to covers.

H. Adhere tiles to flooring substrates using a full spread of adhesive applied to substrate to comply with tile manufacturer's written instructions, including those for trowel notching, adhesive mixing, and adhesive open and working times.

1. Provide completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.

I. Hand roll tiles according to tile manufacturer's written instructions.

J. Verify that moisture content of concrete slabs, building for temperature and relative humidity are within the limits recommended by the manufacturer of the materials used.

3.4 RESILIENT ACCESSORY INSTALLATION

A. General: Install resilient accessories according to manufacturer's written installation instructions.

B. Apply resilient wall base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

1. Install wall base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.
2. Tightly adhere wall base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.
3. Do not stretch base during installation.
4. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient wall base with manufacturer's recommended adhesive filler material.
5. Form outside corners on job from straight pieces of maximum lengths possible, without whitening at bends. Shave back of base at points where bends occur and remove strips perpendicular to length of base that are only deep enough to produce a snug fit without removing more than half the wall base thickness.
6. Form inside corners on job, from straight pieces of maximum lengths possible, by cutting an inverted V-shaped notch in toe of wall base at the point where corner is formed. Shave back of base where necessary to produce a snug fit to substrate.

C. Place resilient accessories so they are butted to adjacent materials and bond to substrates with adhesive. Install reducer strips at edges of flooring that would otherwise be exposed.

D. Apply resilient products to stairs as indicated and according to manufacturer's written installation instructions.

3.5 CLEANING AND PROTECTING

A. Perform the following operations immediately after installing resilient products:

1. Remove adhesive and other surface blemishes using cleaner recommended by resilient product manufacturers.
2. Sweep or vacuum floor thoroughly.
3. Do not wash floor until after time period recommended by flooring manufacturer.

4. Damp-mop floor to remove marks and soil.

B. Protect flooring against mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by flooring manufacturer.

1. Apply protective floor polish to floor surfaces that are free from soil, visible adhesive, and surface blemishes, if recommended in writing by manufacturer.

a. Use commercially available product acceptable to flooring manufacturer.
b. Coordinate selection of floor polish with Owner's maintenance service.

2. Cover products installed on floor surfaces with undyed, untreated building paper until inspection for Substantial Completion.
3. Do not move heavy and sharp objects directly over floor surfaces. Place plywood or hardboard panels over flooring and under objects while they are being moved. Slide or roll objects over panels without moving panels.

C. Clean floor surfaces not more than 4 days before dates scheduled for inspections intended to establish date of Substantial Completion in each area of Project. Clean products according to manufacturer's written recommendations.

1. Before cleaning, strip protective floor polish that was applied after completing installation only if required to restore polish finish and if recommended by flooring manufacturer.
2. After cleaning, reapply polish to floor surfaces to restore protective floor finish according to flooring manufacturer's written recommendations. Coordinate with Owner's maintenance program.

3.6 RESILIENT TILE FLOORING SCHEDULE

A. Vinyl Composition Tile (VCT): Where this designation is indicated, provide solid vinyl floor tile complying with the following:

1. Products: Basis of design:

a. Armstrong Imperial Texture Standard Excelon
b. Approved equal.

2. Color and Pattern:
a. As selected by architect from manufacturers full line of color options, and patterns as shown on the drawings.
3. Flame Spread: Class A
4. Thickness: 0.125 inch).
5. Size: 12" x 12"

END OF SECTION 09 65 10

1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Resilient wall base.
2. Resilient flooring accessories.

B. Related Sections include the following:

1. Division 9 Section "Resilient Tile Flooring."

1.3 SUBMITTALS

A. Product Data: For each type of product specified.

B. Samples for Initial Selection: Manufacturer's standard sample sets consisting of sections of units showing the full range of colors and patterns available for each type of product indicated.

C. Samples for Verification: In manufacturer's standard sizes, but not less than 12 inches (300 mm) long, of each product color and pattern specified.

D. Product Certificates: Signed by manufacturers of resilient wall base and accessories certifying that each product furnished complies with requirements.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Engage an experienced installer to perform work of this Section who has specialized in installing resilient products similar to those required for this Project and with a record of successful in-service performance.

B. Source Limitations: Obtain each type and color of product specified from one source with resources to provide products of consistent quality in appearance and physical properties without delaying the Work.

C. Fire-Test-Response Characteristics: Provide products with the following fire-test-response characteristics as determined by testing identical products per test method indicated below by a testing and inspecting agency acceptable to authorities having jurisdiction.

1. Critical Radiant Flux: 0.45 W/sq. cm or greater when tested per ASTM E 648.

2. Smoke Density: Maximum specific optical density of 450 or less when tested per ASTM E 662.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to Project site in manufacturer's original, unopened cartons and containers, each bearing names of product and manufacturer, Project identification, and shipping and handling instructions.

B. Store products in dry spaces protected from the weather, with ambient temperatures maintained between 50 and 90 deg F (10 and 32 deg C)

C. Move products into spaces where they will be installed at least 48 hours before installation, unless longer conditioning period is recommended in writing by manufacturer.

1.6 PROJECT CONDITIONS

A. Maintain a temperature of not less than 70 deg F (21 deg C) or more than 95 deg F (35 deg C) in spaces to receive resilient products for at least 48 hours before installation, during installation, and for at least 48 hours after installation, unless manufacturer's written recommendations specify longer time periods. After postinstallation period, maintain a temperature of not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C)

B. Do not install products until they are at the same temperature as the space where they are to be installed.

C. For resilient products installed on traffic surfaces, close spaces to traffic during installation and for time period after installation recommended in writing by manufacturer.

D. Coordinate resilient product installation with other construction to minimize possibility of damage and soiling during remainder of construction period. Install resilient products after other finishing operations, including painting, have been completed.

1.7 EXTRA MATERIALS

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

1. Furnish not less than 10 linear feet (5%) for each 200 linear feet or fraction thereof, of each different type, color, pattern, and size of resilient product installed.

2. Deliver extra materials to Owner.

2 PRODUCTS

2.1 MANUFACTURERS

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

1. Johnsonite.
2. Approved Equal.

2.2 RESILIENT WALL BASE

A. Vinyl Wall Base: Products complying with FS SS-W-40, Type II and with requirements specified in the Resilient Wall Base and Accessory Schedule.

2.1 RESILIENT ACCESSORIES

A. Vinyl Accessories: Products complying with requirements specified in the Resilient Wall Base and Accessory Schedule.

2.2 INSTALLATION ACCESSORIES

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based formulation provided or approved by resilient product manufacturer for applications indicated.

B. Stair-Tread-Nose Filler: Two-part epoxy compound recommended by resilient tread manufacturer to fill nosing substrates that do not conform to tread contours.

C. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.

3 EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions where installation of resilient products will occur, with Installer present, for compliance with manufacturer's requirements, including those for maximum moisture content. Verify that substrates and conditions are satisfactory for resilient product installation and comply with requirements specified. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. General: Comply with manufacturer's written installation instructions for preparing substrates indicated to receive resilient products.

B. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, and depressions in substrates.

C. Use stair-tread-nose filler, according to resilient tread manufacturer's written instructions, to fill nosing substrates that do not conform to tread contours.

D. Remove coatings, including curing compounds, and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.

E. Broom and vacuum clean substrates to be covered immediately before installing resilient products. After cleaning, examine substrates for moisture, alkaline salts, carbonation, or dust. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.3 INSTALLATION

A. General: Install resilient products according to manufacturer's written installation instructions.

B. Apply resilient wall base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

1. Install wall base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.

2. Tightly adhere wall base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

3. Do not stretch base during installation.

4. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient wall base with manufacturer's recommended adhesive filler material.

5. Form outside corners on job, from straight pieces of maximum lengths possible, without whitening at bends. Shave back of base at points where bends occur and remove strips perpendicular to length of base that are only deep enough to produce a snug fit without removing more than half the wall base thickness.

6. Form inside corners on job, from straight pieces of maximum lengths possible, by cutting an inverted V-shaped notch in toe of wall base at the point where corner is formed. Shave back of base where necessary to produce a snug fit to substrate.

C. Place resilient products so they are butted to adjacent materials and bond to substrates with adhesive. Install reducer strips at edges of flooring that would otherwise be exposed.

D. Apply resilient products to stairs as indicated and according to manufacturer's written installation instructions.

3.4 CLEANING AND PROTECTING

A. Perform the following operations immediately after installing resilient products:

1. Remove adhesive and other surface blemishes using cleaner recommended by resilient product manufacturers.

2. Sweep or vacuum horizontal surfaces thoroughly.

3. Do not wash resilient products until after time period recommended by resilient product manufacturer.

4. Damp-mop or sponge resilient products to remove marks and soil.

B. Protect resilient products against mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during the remainder of construction period. Use protection methods indicated or recommended in writing by resilient product manufacturer.

1. Apply protective floor polish to vinyl resilient products installed on floors and stairs that are free from soil, visible adhesive, and surface blemishes, if recommended by manufacturer.

a. Use commercially available product acceptable to resilient product manufacturer.
b. Coordinate selection of floor polish with Owner's maintenance service.

2. Cover resilient products installed on floors and stairs with undyed, untreated building paper until inspection for Substantial Completion.

C. Clean resilient products not more than 4 days before dates scheduled for inspections intended to establish date of Substantial Completion in each area of Project. Clean products according to manufacturer's written recommendations.

1. Before cleaning, strip protective floor polish that was applied to vinyl products on floors and stairs after completing installation only if required to restore polish finish and if recommended by resilient product manufacturer.

2. After cleaning, reapply polish on vinyl products on floors and stairs to restore protective floor finish according to resilient product manufacturer's written recommendations. Coordinate with Owner's maintenance program.

3.5 RESILIENT WALL BASE AND ACCESSORY SCHEDULE

A. Vinyl Wall Base: Where this designation is indicated, provide vinyl wall base complying with the following:

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

a. Johnsonite.
b. Approved equal.

2. Color and Pattern: As selected by Architect from manufacturer's full range of colors and patterns produced for vinyl wall base complying with requirements indicated.

3. Style: Cove with top-set toe.

4. Minimum Thickness: 1/8 inch (3.2 mm).

5. Height: 4 inches (101.6 mm).

6. Lengths: Cut lengths 48 inches (1219.2 mm) long.

7. Outside Corners: Premolded or formed on job.

8. Inside Corners: Premolded or formed on job.

9. Surface: Smooth.

A. Vinyl Accessory Molding: Where this designation is indicated, provide vinyl accessory molding complying with the following:

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

a. Johnsonite
b. Approved equal.

2. Pattern:
   a. Contractor to submit schedule of changes in flooring material and appropriate molding for review.

3. Color: As selected by Architect from manufacturer's full range of colors produced for vinyl accessory molding complying with requirements indicated.

END OF SECTION 09 65 30

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Toilet, bath, shower and washroom accessories.
2. Attachment hardware.
3. Toilet tissue holder specified is for bidding basis only; actual type holder to be furnished shall be verified with Owner as to type of toilet tissue presently being used.

B. Related Sections include the following:

1. Division 04 Section "Unit Masonry" for masonry openings, when required for recessed accessories.
2. Division 05 Section “Security Metal Fasteners”.
3. Division 07 Section “Joint Sealants”.
4. Division 10 Section "Toilet Compartments" for compartments and screens.

1.3 REFERENCE STANDARDS

A. American National Standards Institute (ANSI): ANSI A117.1 - Safety Standards for the Handicapped.

B. Americans With Disabilities Act (ADA): ADA - Accessibility Guidelines.

1.4 SUBMITTALS

A. Product Data: Include construction details, material descriptions and thicknesses, dimensions, profiles, fastening and mounting methods, specified options, and finishes for each type of accessory specified.

B. Samples: When requested by Architect, submit one sample of each type of fixture specified for review of construction, color and finishes. Acceptable samples will be returned and may be used in the work.

C. Maintenance Data: Submit to Architect for processing to Owner, two copies of manufacturer's maintenance data, operating instructions, and keys required for each type of equipment and lock.

1.5 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Delivery:

1. Do not deliver accessories to project until rooms in which they are to be installed are ready to receive them.
2. Pack accessories individually in a manner to protect accessory and its finish.
3. Deliver items in manufacturer's original unopened protective packaging.

B. Storage: Store materials in manufacturer's protective packaging to prevent soiling, physical damage, or wetting.

C. Handling: Handle items so as to prevent physical damage or scratching to finished surfaces.

1.6 PROTECTION

A. Protect adjacent or adjoining finished surfaces and work from damage during installation of work of this section.

B. Whenever possible maintain protective covers on units until installation is complete. Remove covers at final clean-up of installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis-of-Design Product: Subject to compliance with requirements, provide toilet accessories and catalog numbers listed on the Contract Drawings are taken from the catalog of Bradley Corporation, or a comparable product by one of the following:

1. Bradley Corporation
2. American Specialties, Inc.
3. Bobrick Washroom Equipment, Inc.

2.2 MATERIALS

A. Sheet Steel: ASTM A366, cold-rolled stretcher leveled; 1.25 oz./sq. ft. galvanized coating in accordance with ASTM A386.

B. Stainless Steel Sheet: ASTM A167, 302/304 grade, gauge as listed.

C. Stainless Steel Tubing: ASTM A269, commercial grade, seamless welded.

D. Brass: Cast or forged quality alloy, FS WW-P-541.

2.3 FINISHES

A. Chrome/Nickel Plating: Satin finish.

B. Stainless Steel: No. 4 satin luster finish.

C. Galvanized: Hot-dip after fabrication, ASTM A386.

2.4 FABRICATION

A. Weld and grind smooth joints of fabricated components.

B. Form exposed surfaces from one sheet of stock, free of joints.

C. Provide steel anchor plates and anchor components for installation on building finishes.

D. Form surfaces flat without distortion. Maintain flat surfaces without scratches or dents.

E. Hot dip galvanize ferrous metal anchors and fastening devices.

F. Shop assemble components and package complete with anchors and fittings.

PART 3 - EXECUTION

3.1 PREPARATION/INSPECTION

A. Deliver inserts and rough-in frames to jobsite at appropriate time for building-in. Provide templates and rough-in measurements as required.

B. Inspect surfaces to receive surface mounted units for conditions that would affect quality and execution of work, or operation of units.

C. Do not begin installation of washroom accessories until conditions are satisfactory. Beginning installation means “acceptance” of existing surfaces and conditions.

D. Verify exact location of accessories with drawings; if not shown with Architect.

3.2 INSTALLATION

A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

B. Secure mirrors to walls in concealed, tamper-resistant manner with special hangers, toggle bolts, or screws. Set units level, plumb, and square at locations indicated, according to manufacturer's written instructions for substrate indicated.

3.3 ADJUSTING AND CLEANING

A. Adjust accessories for unencumbered, smooth operation and verify that mechanisms function properly. Replace damaged or defective items.

B. Remove temporary labels and protective coatings.

C. Clean and polish exposed surfaces according to manufacturer's written recommendations.

3.4 TOILET AND BATH ACCESSORY SCHEDULE

A. Refer to listing in the FIXTURE/ACCESSORY LEGEND and mounting heights shown in the TYPICAL FIXTURE/ACCESSORY LEGEND on Contract Drawings.

END OF SECTION 10 28 10

PART 1 - GENERAL

l.l RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Fabricated stainless steel panels
2. Miscellaneous stainless steel trim
3. Pick proof caulk (only for stainless steel panels and trim)

1.3 SUBMITTALS

A. Product Data for the following:

1. Fabricated stainless steel panels.
2. Miscellaneous stainless steel trim

B. Shop Drawings: Detail fabrication and erection of each metal fabrication indicated. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items.

1. Provide templates for anchors and bolts specified for installation under other Sections.

C. Samples for Verification: For each type and finish.

D. Mill Certificates: Signed by manufacturers of stainless-steel sheet certifying that products furnished comply with requirements

E. Welding Certificates: Copies of certificates for welding procedures and personnel.

F. Qualification Data: For firms and persons specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

1.4 QUALITY ASSURANCE

A. Fabricator Qualifications: A firm experienced in producing metal fabrications similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units. The firm should also be experienced working in an occupied detention facility. If not, the firm shall be a sub subcontractor to a certified detention equipment contractor (DEC).

B. Welding: Qualify procedures and personnel according to the following:

1. AWS Dl.3, "Structural Welding Code--Sheet Steel."

1.5 PROJECT CONDITIONS

A. Field Measurements: Where metal fabrications are indicated to fit walls and other construction, verify dimensions by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1. Established Dimensions: Where field measurements cannot be made without delaying the **Work,** establish dimensions and proceed with fabricating metal fabrications without field measurements. Coordinate construction to ensure that actual dimensions correspond to established dimensions. Allow for trimming and fitting.

1.6 COORDINATION

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

PART 2 - PRODUCTS

2.1 METALS, GENERAL

A. Metal Surfaces, General: For metal fabrications exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.

22 FERROUS METALS

A. Stainless-Steel Sheet, Strip, Plate, and Flat Bars: ASTM A 666, Type 304.

B. Welding Rods and Bare Electrodes: Select according to AWS specifications for metal alloy welded.

23 FASTENERS

A. General: Provide Type 304 or 316 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633, Class Fe/Zn 5. Select fasteners for type, grade, and class required.

B. Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A, Property Class 4.6; with hex nuts, ASTM A 563; and, where indicated, flat washers.

C. Anchor Bolts: ASTM F 1554, Grade 36.

D. Flush Vandal-Resistant Screws: ASME Bl 8.6.3.

24 FABRICATION, GENERAL

A. Shop Assembly: Preassemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

B. Shear and punch metals cleanly and accurately. Remove burrs.

C. Ease exposed edges to a radius of approximately 1/32 inch, unless otherwise indicated. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

D. Weld corners and seams continuously to comply with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections; finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

E. Provide for anchorage of type indicated; coordinate with supporting structure. Fabricate and space-anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

F. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish plumbing, vents, push buttons, screws, and similar items.

G. Fabricate joints that will be exposed in a manner to exclude water.

H. Allow for thermal movement resulting from the following maximum change (range) in ambient and surface temperatures by preventing buckling, opening up of joints, overstressing of components, failure of connections, and other detrimental effects. Base engineering calculation on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.

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

I. Form exposed work true to line and level with accurate angles and surfaces and straight sharp edges.

J. Remove sharp or rough areas on all exposed surfaces.

K. Form exposed connections with hairline joints, flush and smooth. Use exposed flush vandal resistant fasteners.

L. Caulk all joints and seams with Pick Proof Caulk Sure Bond SB-190 Everseal or Pick Resistant Caulk as chosen by Architect and/or the end user.

25 MISCELLANEOUS STAINLESS STEEL TRIM

A. Unless otherwise indicated, fabricate units from stainless steel shapes, plates, and bars of profiles shown with continuously welded joints. Provide a continuous three degree break and smooth exposed edges. Miter comers and use concealed field splices where possible.

B. Provide cutouts, fittings, and anchorages as needed to coordinate assembly and installation with other work. Provide anchors, welded to trim, for embedding in concrete or masonry construction, spaced not more than 3 inches from each end, 3 inches from comers, and 24 inches o.c., unless otherwise indicated.

2.6 STAINLESS - STEEL WALL AND CEILING PANELS

A. Fabricate panels from sheets and bars of size and to dimensions indicated. Create end-of-panel bends and joints, or establish similar details.

B. Provide 18ga panels of #304 stainless, #4 'satin' polish finish.

C. Secure panels to existing substrate with stainless steel fasteners

2.7 FINISHES, GENERAL

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

2.8 STAINLESS-STEEL FINISHES

A. Remove tool and die marks and stretch lines or blend into finish.

B. Grind and polish surfaces to produce uniform, directionally textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.

C. Bright, Directional Polish: No. 4 Finish at all walls and ceiling panels.

D. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

2.9 INSTALLATION - GENERAL

A. Fastening to In-Place Construction: Secure panels to substrate with stainless steel fasteners.

B. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

C. Fit exposed connections accurately together to form hairline joints

END OF SECTION 11 19 00