

- 5. Rockwood Manufacturing Company (RM).
- 6. Auxiliary Hardware: BHMA Grade 1, unless Grade 2 is indicated, unless otherwise indicated.
- 7. FINISHES
- 2.13 Standards: Comply with BHMA A156.18.
- A. Protect mechanical finishes on exposed surfaces from damage by applying a shippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- D. BHMA Designations: Comply with base material and finish requirements indicated by the following:
 1. BHMA 626: Satin chromium plated over nickel, over brass or bronze base metal.
 2. BHMA 652: Satin chromium plated over nickel, over steel base metal.

- PART 3 - EXECUTION
- 3.1 EXAMINATION
- A. Examine doors and frames, with installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- PREPARATION
- A. Steel Doors and Frames: Comply with DHI A115 series.
- B. Wood Doors: Comply with DHI A115-W series.
- 3.3 INSTALLATION
- A. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:
 1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
 2. Wood Doors: DHI WDHS 3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each door hardware item to comply with manufacturer's written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

- 1. Set unit level, plumb, and true to line and location. Adjust and reinforce attachment mechanisms as necessary for proper installation and operation.
- 2. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- 3. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."
- 3.4 ADJUSTING
- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control device to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
- 1. Door Closers: Adjust sweep period so that, from an open position of 70 degrees, the door will take at least 3 seconds to move to a point 3 inches (75 mm) from the latch, measured to the leading edge of the door.
- 3.5 CLEANING AND PROTECTION
- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.
- 3.6 HARDWARE SCHEDULE
- A. Hardware Set #1:
 1. Doors #1, #2 & #3, keyed to have:
 - a. Mortise Cylinder, keyed outside with thumb piece inside.
 - b. Passage Lockset, keyed by door manufacturer.
- B. Hardware Set #2:
 1. Doors #4, #8 & #9, each to have:
 - a. Office Lockset, keyed outside with toggle inside.
 - b. Remainder of hardware by metal building supplier.
- C. Hardware Set #3:
 1. Doors #10, #11, each to have:
 - a. Storeroom Lockset, keyed outside retracts latchbolt.
 - b. Butt Hinges.
- D. Hardware Set #4:
 1. Doors #12, #14 & #15, each to have:
 - a. Privacy Lockset, pushbutton w/ emergency release outside.
 - b. Butt Hinges.
 - c. Surface Closer.
 - d. Wall Stop.
- E. Hardware Set #5:
 1. Doors #13, #16 & #20, each to have:
 - a. Passage Lockset, lever, each side.
 - b. Butt Hinges.
 - c. Surface Closer.
 - d. Wall Stop.
- F. Hardware Set #6:
 1. Doors #17, #18, #21 & #22, each to have:
 - a. Office Lockset, keyed outside, toggle inside.
 - b. Butt Hinges.
 - c. Surface Closer.
 - d. Wall Stop.

- END OF SECTION 0871
- SECTION 0880 - GLAZING
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Scope: This section covers the furnishing of all labor, equipment and material to complete the Glazing as shown on the drawings and specified herein.
- B. The general provisions of the contract, including General and Supplementary Conditions and Division1-General Requirements, apply to the Work specified in this section.
- C. Submittals: Product Data and 12-inch (300-mm) square Samples.
- D. Fire-Resistance-Rated Assemblies: Products identical to those tested per NFPA 252 for doors and NFPA 257 for window assemblies, both labeled and listed by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- E. Safety Glass: Category II materials complying with testing requirements in 16 CFR 1201 and ANSI Z97.1.
- F. Comply with written instructions of glass product manufacturers: GANA's "Glazing Manual;" and publications of GANA, ANNA, and SIGMA as applicable to products indicated, unless more stringent requirements are indicated.
- G. Insulating-Glass Units: Permanently mark with appropriate certification label of one of the inspecting and testing agencies indicated below:
 1. Insulating Glass Certification Council.
 2. Associated Laboratories, Inc.

- 2.1 PRODUCTS
- A. Float Glass: ASTM C 1036, Type I, Class 1 (clear), and Quality Q3.
- B. Heat-Treated Float Glass: ASTM C 1048, Condition A (uncoated), Type I, Class 1 (clear), Quality Q3, Kind FT (fully tempered).
- 2.2 FABRICATED GLASS PRODUCTS
- A. Sealed Insulating-Glass Units: Preassembled units complying with ASTM E 774 for Class CBA units, with two 5.0-mm-thick sheets of glass separated by a 1/2-inch (12.7-mm) dehydrated space filled with air.
- 1. Inboard Lite: Clear float glass, unless heat-treated required.
- 2. Outboard Lite: Solarbronze float glass, unless heat-treated required.
- 3. Low-Emissivity Coating: Third surface.

- PART 3 - EXECUTION
- 3.1 INSTALLATION
- A. Comply with combined recommendations of manufacturers of glass, sealants, gaskets, and other glazing materials, unless more stringent requirements are contained in GANA's "Glazing Manual."
- B. Set glass lites in each section with uniform pattern, draw, bow, and similar characteristics.
- C. Protect exterior glass from damage immediately after installation by attaching crossed streamers to framing-held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels, and clean surfaces.
- D. Protect glass from contact with contaminating substances resulting from construction operations, including weld splatter. If, despite such protection, contaminating substances do come into contact with glass, remove them immediately as recommended by glass manufacturer.
- E. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for build-up of oil, cum, alkaline deposits, or stains; remove as recommended by glass manufacturer.
- F. Remove and replace glass that is broken, chipped, cracked, abraded, or damaged in any way, including natural causes, accidents, and vandalism, during construction period.
- G. Wash glass on both exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended by glass manufacturer.

- END OF SECTION 0880
- SECTION 0920 - PORTLAND CEMENT PLASTER (STUCCO)
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Submittals: Product Data and finish Samples.
- 1.2 PROJECT CONDITIONS
- A. Comply with ASTM C 926 requirements.
- B. Exterior Plasterwork:
 1. Apply and cure plaster to prevent drying out during curing period. Use procedures required by climatic conditions, including moist curing, providing coverings, and providing barriers to deflect sunlight and wind.
 2. Apply plaster when ambient temperature is greater than 40 deg F (4.4 deg C).

- 2.1 PRODUCTS
- 2.1 PORTLAND CEMENT PLASTER (STUCCO)
- A. Stucco Finish Coat: A fiber-reinforced, modified portland cement exterior plaster.
 1. Western Stucco Products, Inc., Western F-Kote.
 2. Base-Coat Aggregate: Sand, ASTM C 897.
- 2.2 BOARD INSULATION
- A. Expanded Polystyrene Board Insulation: ASTM C 578.
- 1. Termitte Resistant Board: R-Control Insulation Guard EPS.
- 2. Thickness: 1 inch.

- PART 3 - EXECUTION
- 3.1 SURFACE PREPARATION
- A. Remove any requirements that extend above the surface.
- B. Be sure surface is clean, free of lantance, dirt, dust, grease, form oil, paint, etc.
- 3.2 INSTALLATION
- A. Install insulation in areas and thicknesses indicated. Cut and fit tightly around obstructions and fill voids with insulation.

- B. Proportion, mix, apply, and cure plaster materials and finishes to comply with manufacturer's written recommendations.
- 1. Minimum Thickness: 3/8".
- 3.3 CLEANING AND PROTECTION
- A. Remove temporary protection and enclosure of other work. Promptly remove plaster from doorframes, windows and other surfaces not indicated to be plastered. Repair floors, walls and other surfaces stained, marred or otherwise damaged during plastering.

- END OF SECTION 0920
- SECTION 0960 - GYPSUM BOARD ASSEMBLIES
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Scope: This section covers the furnishing of all labor, equipment and material to complete the Gypsum Board Assemblies as shown on the drawings and specified herein.
- B. The general provisions of the contract, including General and Supplementary Conditions and Division1-General Requirements, apply to the Work specified in this section.
- C. Submittals: Product Data.
- D. STC-Rated Assemblies: Provide materials and construction identical to assemblies whose STC ratings were determined according to ASTM E 90 and classified according to ASTM E 413 by a qualified independent testing agency.
- E. Fire-Resistance-Rated Assemblies: Provide materials and construction identical to assemblies tested ac-cording to ASTM E 119 by an independent testing and inspecting agency acceptable to authorities having jurisdiction.

- F. Work Included:
 1. Metal studs and gypsum board for all interior partitions as noted in the room fin. schedule.
 2. Insulating and caulking of sound walls.
 3. Provide furring, studs, etc. as may be required.

- PART 2 - PRODUCTS
- 2.1 METAL FRAMING AND SUPPORTS
- A. Steel Framing for interior partitions complying with ASTM C 846.
- 1. Studs and Runners: In depth indicated and 0.0179-inch (0.45-mm) thick, unless otherwise indicated.
- 2. Right-Handed Furring Channels: In depth indicated and 0.0179-inch (0.45-mm) thick, unless otherwise indicated.
- 3. Hot-dip galvanized coating with ASTM A 653, G40 (ASTM A 653M) for trim-members attached to and within 10 feet (3 m) of exterior walls.
- 2.2 GYPSUM BOARD
- A. Gypsum Board: Provide materials in maximum lengths available to minimize end-to-end butt joints.
- 1. Gypsum Wallboard: ASTM C 36, 5/8" in thickness, Type X with manufacturer's standard edges.
- 2.3 ACCESSORIES
- A. Trim Accessories: Cornerbead, edge trim, and control joints complying with ASTM C 1047, formed from steel sheet zinc-plated by hot-dip process or rolled zinc or plastic.
- B. Aluminum Accessories: Extruded-aluminum accessories indicated with manufacturer's standard corrosion-resistant primer.
- C. Gypsum Board Joint Treatment Materials: Comply with ASTM C 475. Paper reinforcing tape and drying-type, ready-mixed, all-purpose compounds.
- D. Acoustical Sealant for Exposed and Concealed Joints: Nonseal, paintable, nonstaining latex sealant com-plying with ASTM C 834.
- E. Sound-Attenuation Blankets: Unfaced mineral-fiber-blanket insulation complying with ASTM C 665 for Type I.
- 1. Location: Refer to Floor Plans and Wall Types on Drawings.
- F. Miscellaneous Materials: Auxiliary materials for gypsum board construction that comply with referenced standards.

- END OF SECTION 0960
- PART 3 - EXECUTION
- 3.1 INSTALLATION
- A. Install steel framing to comply with ASTM C 754 and with ASTM C 840 requirements that apply to framing installation.
- 1. Isolate steel framing from building structure, except at floor, to prevent structural movement from transferring loading to partitions.
- B. Install and finish gypsum panels to comply with ASTM C 840 and GA-218.
- 1. Isolate the partition from non-rated gypsum board partitions where they abut structural elements, except floors, by providing a 1/4- to 1/2-inch- (6.4 to 12.7-mm-) wide space between gyp-sum board and the structure. Trim edges with U-bead edge trim where edges of gypsum panels are exposed. Seal joints between boards and abutting structural surfaces with acoustical sealant.
- 2. STC-Rated Assemblies: Comply with ASTM C 919 for location of edge trim and closing off sound-flanking paths around or through gypsum board assemblies.
- 3. Fire-Resistance-Rated Assemblies: Comply with requirements of listed assemblies.
- 4. Single-Layer Fastening Methods: Fasten gypsum panels to supports with screws.
- C. Finishing Gypsum Board Assemblies: Level 4 finish, unless otherwise indicated. Level 2 finish where panels form substrates for tile.
- D. Higher level of finish is required for fire-resistance-rated assemblies. Level 2 finish where panels form substrates for tile.

- END OF SECTION 0960
- SECTION 0961 - ACOUSTICAL PANEL CEILING
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Submittals: Product Data and Material Samples.
- B. Acoustical Panel Ceilings: ASTM E 1264, Class A materials, tested per ASTM E 84.
- C. Fire-Rating Ceiling Assemblies: Tested per ASTM E 119, and listed in UL's "Fire Resistance Directory," in ITS "Certification Listings," or in the listing of another qualified testing and inspecting agency.

- 2.1 ACOUSTICAL PANELS
- A. AGC Armstrong World Industries, Georgian.
 1. Color: White.
 2. Edge Detail: Square Lay-in.
 3. Thickness: 3/4 inch (19 mm).
 4. Size: 24 by 48 inches (610 by 1220 mm).
- 2.2 CEILING SUSPENSION SYSTEM
- A. Direct-hung: ASTM C 635, intermediate-duty structural classification.
 1. Armstrong Prelude XL.
 2. Grid Faces: 15/16 inch (23 mm).
 3. Color: White.
 4. Attachment Devices: Sized for 5 times the design load indicated in ASTM C 635, Table 1, Direct Hung, unless otherwise indicated.
- B. Wire Hangers, Braces, and Ties: Zinc-coated carbon-steel; ASTM A 641 (ASTM A 641M), Class 1 zinc coating, soft temper.
- 1. Wire Diameter: Sized for yield stress of wire to exceed 3 times the hanger design load (ASTM C 635, Table 1, Direct Hung), but not less than 0.106-inch- (2.69-mm-) diameter wire.

- PART 3 - EXECUTION
- 3.1 INSTALLATION
- A. Ceiling Suspension System Installation: Comply with ASTM C 636 and manufacturer's instructions.
- B. Suspend main beams from overhead construction with hanger wires spaced 4'-0" on center along length of main runner.
- C. Install hanger wires plumb and straight.
- D. Install wall moldings at intersection of suspended ceiling and vertical surfaces. Miter corners where wall moldings intersect or install corner caps.
- E. Install acoustical panels in coordination with suspension system, with edges resting on flanges of main runner and cross tees. Cut and fit panels neatly against abutting surfaces. Support edges by wall mold-ings.
- 3.2 ADJUSTING AND CLEANING
- A. Replace damaged and broken panels.
- B. Clean exposed surfaces of acoustical ceilings, including trim, edge moldings, and suspension members. Comply with manufacturer's instructions for cleaning and touch-up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

- END OF SECTION 0961
- SECTION 0965 - RESILIENT TILE FLOORING
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Submittals: Product Data and Color Samples.
- B. Extra Materials: Deliver to Owner at least 1 box for each 50 boxes or fraction thereof, of each type and color of resilient tile installed.

- 2.1 PRODUCTS
- 2.1 VINYL COMPOSITION TILE (VCT)
- A. Armstrong World Industries, Inc., Standard Excelon.
 1. Color and Pattern: #5180 Pearl White with #51910 Classic Black (for accents).
 2. ASTM F 1066, Class 2 (through-pattern tile).
 3. Wearing Surface: Smooth.
 4. Thickness: 1/8 inch (3.2 mm).
 5. Size: 12 by 12 inches (304.8 by 304.8 mm).
 6. Critical Radiant Flux Classification: Class I, not less than 0.45 w/sq. cm per ASTM E 648.
- 2.2 INSTALLATION ACCESSORIES
- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement- or blended hydraulic cement-based formulation provided or approved by flooring manufacturer for applications indicated.
- B. Adhesive: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated. Metal Edge Strips: Extruded aluminum with mill finish of width shown, of height required to protect exposed edge of tile, and in maximum available lengths to minimize running joints.

- PART 3 - EXECUTION
- 3.1 INSTALLATION
- A. Properly prepare substrate to receive new materials.
- B. Lay out tiles from center marks established with principal walls, discounting minor offsets, so tile widths at opposite edges of room are equal to one another and are at least one-half of a tile.
- C. Match tiles for color and pattern by selecting tiles from cartons in same sequence as manufactured and packaged. Lay tiles in basket-weave pattern with grain direction alternating in adjacent tiles.

- END OF SECTION 0965
- SECTION 0968 - SHEET VINYL FLOOR COVERINGS
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Submit Product Data and Color Samples.
- B. Deliver to Owner at least 10 linear feet (3 linear m) in roll form for each 500 linear feet (150 linear m) or fraction thereof, of each type and color of sheet vinyl floor covering installed.

- 2.1 PRODUCTS
- 2.1 SHEET VINYL FLOOR COVERINGS
- A. Subject to compliance with requirements, provide products by the following:
 - a) Armstrong Commercial Flooring, Commission P4.
 - b) Sheet vinyl floor covering, with Class A backing, ASTM F 1303, Type 1, Grade 1 wear-layer thickness.
 - c) Color and Pattern: As selected from manufacturer's full range of available samples.
 - d) Overall Thickness: 0.080 inches (2.0 mm).
 - e) Sheet Width: 12 feet (3.6 m).
- 2.2 INSTALLATION ACCESSORIES

- 3.1 EXECUTION
- 3.1 INSTALLATION
- A. Provide products from the following manufacturers:
 1. General Painting and Finishes.
 2. Sherwin-Williams Co.
- B. Material Compatibility: Complete system of compatible components that is recommended by manufacturer for application indicated.
- C. Colors: As selected by Architect from manufacturer's full range, unless otherwise specified.

- 3.2 EXECUTION
- 3.1 EXAMINATION
- A. Examine substrates, areas and conditions with Applicator present, for compliance with requirements for paint application. Comply with procedures specified in FDCA P4.
- 1. Proceed with paint application only after unsatisfactory conditions have been corrected and sur-faces receiving paint are thoroughly dry.
- 2. Start of painting will be construed as Applicator's acceptance of surfaces and conditions within a particular area.
- B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
- 1. Notify Architect about anticipated problems when using the materials specified over substrates primed by others or previously finished.

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement- or blended hydraulic cement-based formulation provided or approved by floor covering manufacturer for applications indicated.
- B. Adhesives: Water-resistant type recommended by manufacturer to suit sheet vinyl floor covering and substrate conditions indicated.
- C. Metal Edge Strips: Extruded aluminum with mill finish of width shown, of height required to protect exposed edges of floor coverings, and in maximum available lengths to minimize running joints.

- END OF SECTION 0968
- SECTION 0963 - RESILIENT WALL BASE AND ACCESSORIES
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Scope: This section covers the furnishing of all labor, equipment and material to complete the Resilient Wall Base and Accessories as shown on the drawings and specified herein.
- B. The general provisions of the contract, including General and Supplementary Conditions and Division1-General Requirements, apply to the Work specified in this section.
- C. Submittals: Product Data and Color Samples.
- D. Extra Materials: Deliver to Owner at least 10 linear feet (3 linear m) for each 500 linear feet (150 linear m) or fraction thereof, of each type and color of resilient wall base installed.

- 2.1 PRODUCTS
- 2.1 WALL BASE (WB)
- A. Subject to compliance with requirements, provide products by one of the following:
 1. Johnsonite.
 2. Roppe.
 3. Color: Black.
 4. Type: ASTM F9180 SBR Vulcanized Rubber.
 5. Style: Cove with top-sole top.
 6. Minimum Thickness: 1/8 inch (3.2 mm).
 7. Height: 4 inches (101.6 mm).
 8. Lengths: Cut lengths 46 inches (1219.2 mm) long or coils in lengths standard with manufacturer, but not less than 96 feet (29 m).
 9. Outside Corners: Job formed.
 10. Inside Corners: Job formed.
 11. Surface: Smooth.
- 2.2 RESILIENT ACCESSORY
- A. Subject to compliance with requirements, provide products by one of the following:
 1. Johnsonite.
 2. Roppe.
 3. Color: Black.
 4. Material: Rubber.
 5. Description: Reducer strips for tile and carpet joining concrete floors.
 6. Profile and Dimensions: As required.

- END OF SECTION 0963
- SECTION 0969 - CARPET
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Scope: This section covers the furnishing of all labor, equipment and material to complete the Carpet as shown on the drawings and specified herein.
- B. The general provisions of the contract, including General and Supplementary Conditions and Division1-General Requirements, apply to the Work specified in this section.
- C. Comply with CR1 104, Section 6, "Site Conditions."
- D. Extra Materials: Deliver to Owner full-width carpet equal to 5 percent of each type and color carpet in-stalled, packaged with protective covering for storage.

- 2.1 PRODUCTS
- 2.1 WALL BASE (WB)
- A. Subject to compliance with requirements, provide products by one of the following:
 1. Johnsonite.
 2. Roppe.
 3. Color: Black.
 4. Type: ASTM F9180 SBR Vulcanized Rubber.
 5. Style: Cove with top-sole top.
 6. Minimum Thickness: 1/8 inch (3.2 mm).
 7. Height: 4 inches (101.6 mm).
 8. Lengths: Cut lengths 46 inches (1219.2 mm) long or coils in lengths standard with manufacturer, but not less than 96 feet (29 m).
 9. Outside Corners: Job formed.
 10. Inside Corners: Job formed.
 11. Surface: Smooth.
- 2.2 RESILIENT ACCESSORY
- A. Subject to compliance with requirements, provide products by one of the following:
 1. Johnsonite.
 2. Roppe.
 3. Color: Black.
 4. Material: Rubber.
 5. Description: Reducer strips for tile and carpet joining concrete floors.
 6. Profile and Dimensions: As required.

- END OF SECTION 0969
- SECTION 0975 - SANITARY WALL PANELS
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Submittals: Product Data and Color Samples.
- B. Surface-Burning Characteristics: Class C (III) per ASTM E 84.

- 2.1 PRODUCTS
- 2.1 SANITARY WALL PANELS
- A. Fiberglass Reinforced Plastic Panel (FRP):
 1. Kermitte, Glasbord-P.
 2. Panel Thickness: .09 inch (2.3 mm).
 3. Finish: Embossed.
 4. Color: As selected by Architect from manufacturer's full range of colors.
- 2.2 INSTALLATION ACCESSORIES
- A. Division Bars, Corner Trim: In longest length possible to reduce end joints.
 1. Color: To match panels.
 2. Fasteners: Non-corrosive drive rivets.
 3. Color: To match panels.
 4. Adhesive: as per panel manufacturer's recommendation.

- END OF SECTION 0975
- SECTION 0991 - PAINTING
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Scope: This section covers the furnishing of all labor, equipment and material to complete the Painting as shown on the drawings and specified herein.
- B. The general provisions of the contract, including General and Supplementary Conditions and Division1-General Requirements, apply to the Work specified in this section.
- C. Summary: Paint all exposed surfaces, new, unless otherwise indicated.
- 1. Paint the backside of access panels.
- 2. Do not paint prefinished items, finished metal surfaces, operating parts, labels, and materials obvi-ously intended to be left exposed such as brick and tile.
- 3. Unless otherwise indicated do not paint concealed surfaces.
- D. Submittals: Product Data and Color Samples.
- E. Obtain block fillers, primers, and undercoat materials for each coating system from the same manufac-turer as the finish coats.
- F. Extra Materials: Deliver to Owner a 1-gal. (3.8-L) contain-er, properly labeled and sealed, of each color and type of finish coat paint used on Project.

- 2.1 PAINT
- A. Provide products from the following manufacturers:
 1. General Painting and Finishes.
 2. Sherwin-Williams Co.
- B. Material Compatibility: Complete system of compatible components that is recommended by manufacturer for application indicated.
- C. Colors: As selected by Architect from manufacturer's full range, unless otherwise specified.

- 3.1 EXECUTION
- 3.1 EXAMINATION
- A. Examine substrates, areas and conditions with Applicator present, for compliance with requirements for paint application. Comply with procedures specified in FDCA P4.
- 1. Proceed with paint application only after unsatisfactory conditions have been corrected and sur-faces receiving paint are thoroughly dry.
- 2. Start of painting will be construed as Applicator's acceptance of surfaces and conditions within a particular area.
- B. Coordination of Work: Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure use of compatible primers.
- 1. Notify Architect about anticipated problems when using the materials specified over substrates primed by others or previously finished.

- 3.2 PREPARATION
- A. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures and similar items already installed that are not to be painted. If removal is impractical or impossible because of size or weight of the item, provide surface-applied protection before surface preparation and painting.
- 1. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
- B. Cleaning: Before applying paint or other surface treatments, clean substrates of substances that could im-pair bond of various coatings. Remove oil and grease before cleaning.
- 1. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.
- C. Surface Preparation: Clean and prepare surfaces to be painted according to manufacturer's written in-structions for each particular substrate condition and as specified herein.
- 1. Provide barrier coats over incompatible primers or remove and reprime.
- 3.3 APPLICATION
- A. General: Apply paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.
- 1. Paint colors, surface treatments, and finishes are indicated in the paint schedule.
- 2. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
- 3. Provide finish coats that are compatible with primers used.
- 4. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, grilles, convactor covers, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.
- 5. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces. Be-fore final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
- 6. Paint backside of access panels and removable or hinged covers to match exposed surfaces.
- 7. Finish exterior doors on tops, bottoms, and side edges the same as exterior faces.
- 8. Sand lightly between each succeeding enamel coat.
- B. Scheduling Painting: Apply first coat to surfaces that have been cleaned, pretreated, or otherwise pre-pared for painting as soon as practicable after preparation and before subsequent surface deterioration.
- 1. Oil primer over metal surfaces that have been shop primed and touchup painted.
- 2. If undercoats, stains, or other conditions show through final coat of paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure that edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
- 3. Allow sufficient time between successive coats to permit proper drying. Do not recast surfaces until paint has dried to where it feels firm, and does not deform or feel sticky under moderate thumb pressure, and until application of another coat of paint does not cause undercut to lift or dis-adhesion.

- C. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
- 1. Brushes: Use brushes best suited for type of material applied. Use brush of appropriate size for surface or item being painted.
- 2. Rollers: Use rollers of carpet, velvet-back, or high-pile sheeps wool as recommended by manu-facturer for material and texture required.
- 3. Spray Equipment: Use airless spray equipment with orifice size as recommended by manufacturer for material and texture required.
- 4. Minimum Coating Thickness: Apply paint materials no thinner than manufacturer's recommended spreading rate to achieve dry film thickness indicated. Provide total dry film thickness of the entire system as recommended by manufacturer.
- E. Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to items exposed in equipment rooms and occupied spaces.
- F. Prime Coats: Before applying finish coats, apply a prime coat, as recommended by manufacturer, to ma-terial that is required to be painted or finished and that has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in first coat appears, to en-sure a finish coat with no bur-n-through or other defects due to insufficient sealing.
- G. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque sur-face of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ripples, or other surface imperfections will not be acceptable.
- H. Stipple Enamel Finish: Roll and redistribute paint to an even and fine texture. Leave no evidence of rolling, such as laps, irregularity in texture, sags marks, or other surface imperfections.
- I. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

- 3.4 CLEANING
- A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint mate-rials from Project site.
- 1. After completing painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.
- 3.5 PROTECTION
- A. Protect work of other trades, whether being painted or not, against damage from painting. Correct dam-age by cleaning, repairing or replacing, and repainting, as approved by Architect.
- B. Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, re-move temporary protective wrappings provided by others to protect their work.
- 1. After work of other trades is complete, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in FDCA P4.

- 3.6 EXTERIOR PAINT APPLICATION SCHEDULE
- A. Ferrous Metal: Includes hollow metal doors and frames, overhead door frames, pipe bollards, etc., as follows:
 1. A-100 Gloss, Acrylic Enamel: Two coats over rust-inhibitive primer.
 2. Exterior Stucco, as follows:
 1. Loonx, Flat Acrylic Coating: Two finish coats over primer.
- 3.7 INTERIOR PAINT APPLICATION SCHEDULE
- A. Gypsum Drywall (GDW): As follows:
 1. ProMar 200 Semi-gloss, Acrylic Enamel (P-1): Two finish coats over primer.
 - a. Color: SW 7028 Incredible White.
 2. ProMar 200 Semi-gloss, Acrylic Enamel (P-2): Two finish coats over primer.
 - a. Color: SW 7028 Incredible White.
 3. ProMar 200 Semi-gloss, Acrylic Enamel (P-2): Two finish coats over primer.
 - a. Color: SW 7034 Snowbound.
 - b. Color: SW 7004 Snowbound.
 - C. Ferrous Metal: Includes hollow metal doors and frames, etc., as follows:
 1. ProMar 200 Semi-gloss, Acrylic Enamel: One coat over undercoat and primer.
 2. Zinc-Coated Metal: As follows:
 1. ProMar 200 Semi-gloss, Acrylic Enamel: Two coats over primer.
 - E. General Note: There shall be NO exposed raw metal (steel, iron, etc.) in/on the entire interior of the building left unpainted. Paint all raw metal as specified. If some welding is required on factory primed steel, that too shall be painted.

- END OF SECTION 0991
- SECTION 1041 - SIGNS
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. The general provisions of the contract, including General and Supplementary Conditions and Division1-General Requirements, apply to the Work specified in this section.
- B. Submittals: Product Data, Shop Drawings, and Material Samples.
- C. Work included:
 1. Delivery to job site.

- 2.1 MATERIALS
- A. Plastic Laminate: High-pressure engraving stock with face and core in contrasting colors.
- 2.2 SIGNS</