

- C. Galvanized Steel Sheet: ASTM A 653/A 653M, G60 (Z180).
- D. Chromium Plating: ASTM B 465, Service Condition Number SC 2 (moderate service).
- E. Minor Glass: ASTM C 1036, Type I, Class 1, Quality #2, nominal 6.0 mm thick, with alvering, electro-plated copper coating, and protective organic coating complying with FS DD-M-411.
- F. Galvanized Steel Mounting Devices: ASTM A 153/A 153M, hot-dip galvanized after fabrication.
- G. Fasteners: Screws, bolts, and other devices of same material as accessory unit, tamper and theft resistant when exposed, and of galvanized steel when concealed.
- H. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.
- 2.2 TOILET AND BATH ACCESSORIES
- A. Toilet Tissue Dispenser: As follows:
1. Bobrick Model B-7685.
 2. Type: Single-roll dispenser.
 3. Mounting: Surface mounted with concealed anchorage.
 4. Material: Chrome-plated zinc alloy (zamac) or steel.
 5. Location: At each water closet, provide one of each.
- B. Paper Towel Dispenser: As follows:
1. Bobrick Model B-262.
 2. Type: C-fold or multifold towel dispenser.
 3. Mounting: Surface mounted with concealed anchorage.
 4. Material: Satin-finish stainless steel.
 5. Location: At each lavatory, provide one.
- C. Soap Dispenser: As follows:
1. Bobrick Model B-2112.
 2. Mounting: Surface mounted with concealed anchorage.
 3. Material: Satin-finish stainless steel.
 4. Location: At each lavatory, provide one.
- D. Channel Framed Mirror: As follows:
1. Bobrick Model B-165 2436.
 2. Mounting: Surface mounted with concealed anchorage.
 3. Location: At each lavatory, provide one.
- E. Grab Bar: As follows:
1. Bobrick Model B680x18, B680x36 & B680x42.
 2. Material: Stainless steel, 0.05 inch (1.3 mm) thick.
 3. Mounting: Concealed.
 4. Gripping Surfaces: Slip-resistant texture.
 5. Outside Diameter: 1-1/2 inches (38 mm) for heavy-duty applications.
 6. Location: At each h.c. water closet, provide one of each.
- F. Robe Hook: As follows:
1. Bobrick Model B-212.
 2. Type: Single.
 3. Mounting: Surface.
 4. Material: Solid aluminum casting with rubber bumper.
 5. Finish: Satin.
 6. Location: On room side of each restroom door.
- G. Mop and Broom Holder: As follows:
1. Bobrick Model B-223x24.
 2. Frame: Stainless Steel.
 3. Size: 24 inches (600 mm).
 4. Location: Mounted at mop sink as directed in Room No. 107.

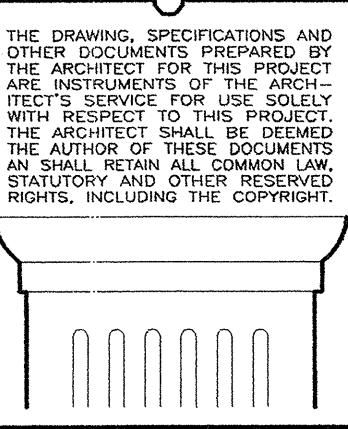
- interlocking clamping plates.
- D. Wall Panel Installation: Provide panels full height of building when possible.
1. Arrange and nest side-lap joints so prevailing winds blow over, not into, lapped joints.
 2. When two rows of panels are required, lap panels 4 inches (100 mm) minimum. Locate panel splices over structural supports.
 3. Apply elastomeric sealant continuously between metal base channel (sill angle) and concrete, and elsewhere as necessary for waterproofing.
 4. Apply a continuous ribbon of sealant tape to weather-side surface of fastenings on lap seams.
 5. Install screws with power tools having controlled torque to compress neoprene washer without damage to washer, screw threads, or panels. Install screws in predrilled holes.
 6. Use aluminum or stainless-steel fasteners for exterior and galvanized fasteners for interior.
- E. Accessory Installation: As follows:
1. Seal perimeter of doorframes with elastomeric sealant used for panels.
 2. Install personnel doors and frames straight, level, and plumb. Securely anchor frames to building structure. Set units with maximum 1/8-inch (3-mm) clearance between door and frame at jambs and head and maximum 3/4-inch (19-mm) clearance between door and floor.
 3. Pipe Flashing: Form flashing around pipe penetrations. Fasten and seal to panels.
 4. Adjust and check each operating item of hardware to ensure proper operation and function. Re-place units that cannot be adjusted to operate freely and smoothly.
- END OF SECTION 13125

- PART 3 - EXECUTION
- 3.1 INSTALLATION
- A. Installation will be provided by the general work and labor contractor.
- B. Install accessories using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
- C. Install grab bars to withstand a downward load of at least 250 lb. (1112 N), when tested according to method in ASTM F 448.
- D. Adjust accessories for unencumbered, smooth operation and verify that mechanisms function properly. Replace damaged or defective items. Remove temporary labels and protective coatings.
- END OF SECTION 10601

- SECTION 13125 - METAL BUILDING SYSTEMS
- PART 1 - GENERAL
- 1.1 SECTION REQUIREMENTS
- A. Metal Building System Description: Rigid modular, with interior columns (support second floor/mezzanine) with non-expandable, column and rafter endwalls.
1. Eave Height: As required to provide clear height indicated on Drawings.
 2. Dimensions and Bay Spacings: As indicated on Drawings.
- B. Structural Performance: Provide manufacturer's standard metal building system capable of withstanding structural and other loads, thermally induced movement, and exposure to weather without failure or infiltration of water into building interior.
- C. Engineer metal building systems according to procedures in MBMA's "Low Rise Building Systems Manual."
- D. Design Loads: Comply with load requirements of MBMA's "Low Rise Building Systems Manual."
- E. Wind-Uplift Resistance of Roof Panel Assemblies: UL 580, Class 90.
- F. Submittals: Product Data, Samples, Shop Drawings and structural analysis data signed and sealed by a qualified professional engineer registered in the state where Project is located.
- G. Comply with AISC S335, "Specification for Structural Steel Buildings—Allowable Stress Design, Plastic Design," or AISC S342, "Load and Resistance Factor Design Specification for Structural Steel Buildings," and AISI SG-671, "Specification for the Design of Cold-Formed Steel Structural Members," or AISI SG-911, "Load and Resistance Factor Design Specification for Steel Structural Members."

- PART 2 - PRODUCTS
- 2.1 METAL BUILDING COMPONENTS
- A. Manufacturer: Subject to compliance with specified requirements, provide metal building components by one of the following:
1. A & M Building Systems, Inc.
 2. American Buildings Co.
 3. Behlen Manufacturing Co.
 4. Butler Manufacturing Co.
 5. Star metal Buildings Division, H.H. Robertson Co.
 6. Varco-Pruden Buildings.
 7. Wedgcor, Inc.
- B. Structural-Framing Materials: As follows:
1. Structural-Steel Shapes: ASTM A 36/A 36M or ASTM A 529/A 529M.
 2. Steel Plate, Bar, or Strip: ASTM A 529/A 529M, ASTM A 570/A 570M, or ASTM A 572/A 572M; 50,000-psi (345-MPa) minimum yield strength.
 3. Structural-Steel Sheet: Hot rolled, ASTM A 570/A 570M, Grade 50 or Grade 55; hot rolled, ASTM 568/A 568M; or cold rolled, ASTM A 611, structural quality.
 4. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, structural quality, Grade 50, with G60 (Z180) coating.
- C. Roof and Wall Panels: As follows:
1. Metal Panels: Steel sheet, zinc coated by the hot-dip process, complying with ASTM A 653/A 653M, G90 (Z275), structural quality, and prepainted by the coil-coating process to comply with ASTM A 755/A 755M.
 2. Lap-Seam Roof Panels: Metal panels factory formed to provide 36-inch (914-mm) coverage, with raised trapezoidal major ribs at 12 inches (305 mm) o.c., and intermediate stiffening ribs symmetrically spaced between major ribs. Design panels for mechanical attachment to structure using ex-posed fasteners, lapping major ribs at panel edges.
 3. Roof Panel Metal Thickness: 0.0179 inch (0.45 mm).
 4. Lap-Seam Wall Panels: Metal panels factory formed to provide 36-inch (914-mm) coverage, with raised trapezoidal major ribs at 12 inches (305 mm) o.c., and intermediate stiffening ribs symmetrically spaced between major ribs. Design panels for mechanical attachment to structure using ex-posed fasteners, lapping major ribs at panel edges.
 5. Wall Panel Metal Thickness: 0.0179 inch (0.45 mm).
 6. Metal Panel Finish: Siliconized-polyester system consisting of epoxy primer and silicone-modified, polyester-enamel topcoat with a dry film thickness of not less than 0.2 mil (0.005 mm) for primer and 0.8 mil (0.02 mm) for topcoat.
 7. Panel Accessories: Provide clips, flashings, sealants, gaskets, and similar items.
- D. Flashing and Trim: Form from 0.0179-inch (0.45-mm) thick, zinc-coated (galvanized) steel sheet pre-painted with coil coating. Provide flashing and trim as required to seal against weather and to provide finished appearance. Finish flashing and trim same as adjacent roof or wall panels.
- E. Accessories: As follows:
1. Personnel Doors (Doors #4, #6 & #9): Steel Doors, 1-3/4 inches (44 mm) thick, with 0.0369-inch (0.9-mm) thick, zinc-coated (galvanized) steel face sheets, 0.0588-inch (1.5-mm) thick, inverted channels welded to face sheets at top and bottom of door, and polystyrene foam or polyurethane foam core; and steel frames, with 2-inch (50-mm) wide faces, fabricated from 0.0588-inch (1.5-mm) thick, zinc-coated (galvanized) steel sheet. Prepare and reinforce doors and frames to receive hardware according to DHI A115 Series.
 2. Hardware: Bull hinges, closer, weatherstripping and threshold.
 3. Locksets: Provided by hardware supplier.
- F. Miscellaneous Materials: As follows:
1. Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer, complying with performance requirements of FS TT-P-664.
 2. Primer for Galvanized Metal Surfaces: Zinc dust, zinc-oxide primer; FS TT-P-641.
 3. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing; 1/2 inch (13 mm) wide and 1/8 inch (3 mm) thick.
 4. Joint Sealant: ASTM C 920; one-part elastomeric polyurethane, polysulfide, or silicone-rubber sealant as recommended by metal building system manufacturer.

- PART 3 - EXECUTION
- 3.1 ERECTION
- A. Setting Baseplates and Bearing Plates: Clean concrete and masonry of bond-reducing materials and roughen surfaces before setting baseplates and bearing plates. Clean bottom surface of baseplates and bearing plates.
1. Set baseplates and bearing plates for structural members on wedges, shims, or setting nuts.
 2. Tighten anchor bolts after supported members have been positioned and plumbed.
 3. Pack grout solidly between bearing surfaces and plates to no voids remain.
- B. Set structural framing in locations and to elevations indicated and according to AISC specifications refer-enced in this Section.
1. Make field connections for primary framing using high-strength bolts. Tighten bolts by turn-of-the-nut method.
 2. Fasten secondary framing to primary framing using clips and non-high-strength bolts. Hold rig- idly to a straight line by sag rods.
 3. Install joists, girders, and accessories according to SJI's "Standard Specifications, Load Tables, and Weight Tables for Steel Joists and Joist Girders."
 4. Provide supplemental framing at entire perimeter of openings, including doors, windows, louvers, ventilators, and other penetrations of roof and walls.
- C. Roof Panel Installation: Provide roof panels of full length from eave to ridge when possible.
1. Rigidly fasten eave end of roof panels and allow ridge end free movement.
 2. Install screws with power tools having controlled torque to compress neoprene washer without damage to washer, screw threads, or panels. Install screws in predrilled holes.
 3. Use aluminum or stainless-steel fasteners for exterior and galvanized fasteners for interior.
 4. Locate panel splices over, but not attached to, structural supports; stagger panel splices.
 5. Lap-Seam Roof Panels: Fasten to purlins with exposed fasteners at each lapped joint. Arrange and nest side-lap joints so prevailing winds blow over, not into, lapped joints. Apply a continuous rib-on sealant tape to weather-side surface of fastenings on lap seams. At end splices, lap panels 6 inches (150 mm), seal with butyl sealant and fasten together with



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Feb 2007

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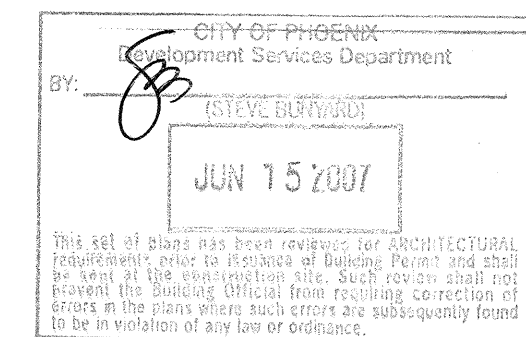
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NORTH PHOENIX BRANCH
Parcel #209-03-104 A
2140 W Williams Drive
Phoenix, Arizona

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Specifications



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