

SECTION 10155

TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes stock, manufactured toilet compartments.
- B. Types of toilet compartments include: Metal, baked enamel finish.
- C. Styles of toilet compartments include: Ceiling-hung.
- D. Styles of screens include: Wall-hung.
- E. Supports for attaching compartments to overhead structural system are specified in a Division 5 Section.
- F. Toilet accessories, such as toilet paper holders, grab bars, and purse shelves, are specified in another Division 10 Section.

1.3 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product data for materials, fabrication, and installation including catalog cuts of anchors, hardware, fastenings, and accessories.
- C. Shop drawings for fabrication and erection of toilet compartment assemblies not fully described by product drawings, templates, and instructions for installation of anchorage devices built into other work.
- D. Samples of full range of colors for each type of unit required. Submit 6-inch-square samples of each color and finish on same substrate to be used in work, for color verification after selections have been made.

1.4 QUALITY ASSURANCE

- A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication, where possible, to ensure proper fitting of work. However, allow for adjustments where taking of field measurements before fabrication might delay work.
- B. Coordination: Furnish inserts and anchorages which must be built into other work for installation of toilet compartments and related items. Coordinate delivery with other work to avoid delay.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products which may be incorporated in the Work include, but are not limited to, the following:
- B. Manufacturer: Subject to compliance with requirements, provide products by one of the following:
 - 1. Accurate Partition Corp.
 - 2. All American Metal Corp.
 - 3. American Sanitary Partition Corp.
 - 4. Ampco Products, Inc.
 - 5. Flush-Metal Partition Corp.
 - 6. General Partitions Manufacturing Corp.
 - 7. Global Steel Products Corp.
 - 8. Knickerbocker Partition Corp.
 - 9. Lambaton-Universal Metal Products.
 - 10. Metpar Steel Products Corp.
 - 11. The Mills Company. (Designed)
 - 12. Monarch Toilet Partitions, Inc.

13. Sanymetal Products Co.
14. Weis/Robart Partitions, Inc.

2.2 MATERIALS

- A. General: Provide materials which have been selected for surface flatness and smoothness. Exposed surfaces which exhibit pitting, seam marks, roller marks, stains, discolorations, telegraphing of core material, or other imperfections on finished units are not acceptable.
- B. Steel Sheets for Baked Enamel Finish: ASTM A 591, Class C, galvanized-bonderized, of following minimum thicknesses:
 1. Pilasters (ceiling-hung): 0.0516 inch (18 gage).
 2. Panels and Screens: 0.0396 inch (20 gage).
 3. Doors: 0.0336 inch (22 gage).
- C. Concealed Anchorage Reinforcement: Minimum 0.108 inch (12 gage), galvanized steel sheet.
- D. Concealed Tapping Reinforcement: Minimum 0.0785 inch (14 gage), galvanized steel sheet.
- E. Core Material for Metal Partitions: Manufacturer's standard sound-deadening honeycomb of impregnated Kraft paper in thickness to provide finished dimension of 1 inch minimum for doors, panels, and screens and 1-1/4 inches minimum for pilasters.
- F. Pilaster Shoes and Caps: ASTM A 167, Type 302/304 stainless steel, not less than 3 inches high, 0.0396 inch thick (20 gage), finished to match hardware.
- G. Stirrup Brackets: Manufacturer's standard design for attaching panels to walls and pilasters, either chromium-plated nonferrous cast alloy ("Zamac") or anodized aluminum.
- H. Hardware and Accessories: Manufacturer's standard design, heavy duty operating hardware and accessories of chromium-plated, nonferrous cast alloy ("Zamac").
- I. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel, chromium-plated steel, or brass, finished to match hardware, with theft-resistant-type heads and nuts. For concealed anchors, use hot-dip galvanized, cadmium-plated, or other rust-resistant protective-coated steel.

2.3 FABRICATION

- A. General: Furnish standard doors, panels, screens, and pilasters fabricated for compartment system. Furnish units with cutouts, drilled holes, and internal reinforcement to receive partition-mounted hardware, accessories, and grab bars, as indicated.
- B. Door Dimensions: Unless otherwise indicated, furnish 24-inch-wide in-swinging doors for ordinary toilet stalls and 32-inch-wide (clear opening) out-swinging doors for stalls equipped for use by handicapped.
- C. Metal Toilet Compartments and Screens: Pressure laminate seamless face sheets to core material and seal edges with continuous interlocking strip or with lapped and formed edges. Weld edges and corners with exposed welds ground smooth.
- D. Ceiling-Hung Compartments: Furnish galvanized steel anchorage devices complete with threaded rods, lock washers, and leveling adjustment nuts at pilasters for connection to structural support above finished ceiling. Furnish devices which are designed to support pilasters from structure without transmitting load to finished ceiling. Provide 3-inch-high stainless steel trim piece, finished to match hardware, at each pilaster.
- E. Wall-Hung Screens: Furnish panel units in sizes indicated, of same construction and finish as partition system panels.
- F. Hardware: Furnish hardware for each compartment to comply with ANSI A117.1 for handicapped accessibility and as follows:
 - 1. Hinges: Cutout inset type, adjustable to hold door open at any angle up to 90 degrees. Provide gravity type, spring-action cam type, or concealed torsion rod type to suit manufacturer's standards.
 - 2. Latch and Keeper: Recessed latch unit, designed for emergency access, with combination rubber-faced door strike and keeper.
 - 3. Latch and Keeper: Manufacturer's standard surface-mounted latch unit, designed for handicapped accessibility, with combination rubber-faced door strike and keeper.
 - 4. Coat Hook: Manufacturer's standard unit, combination hook and rubber-tipped bumper, sized to prevent door hitting mounted accessories.
 - 5. Door Pull: Manufacturer's standard unit for out-swinging doors. Provide pulls on both faces of handicapped compartment doors.

2.4 FINISH

Colors: One of manufacturer's standard color as selected by Contracting Officer.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. General: Comply with manufacturer's recommended procedures and installation sequence. Install compartment units rigid, straight, plumb, and level. Provide clearances of not more than 1/2 inch between pilasters and panels, and not more than 1 inch between panels and walls. Secure panels to walls with not less than two stirrup brackets attached near top and bottom of panel. Locate wall brackets so that holes for wall anchorages occur in masonry or tile joints. Secure panels to pilasters with not less than two stirrup brackets located to align with stirrup brackets at wall. Secure panels in position with manufacturer's recommended anchoring devices.
- B. Ceiling-Hung Compartments: Secure pilasters to supporting structure and level, plumb, and tighten installation with devices furnished. Hang doors and adjust so that bottoms of doors are level with bottom of pilasters when doors are in closed position.
- C. Screens: Attach with anchoring devices as recommended by manufacturer to suit supporting structure. Set units to provide support and to resist lateral impact.

3.2 ADJUST AND CLEAN

- A. Hardware Adjustment: Adjust and lubricate hardware for proper operation. Set hinges on in-swinging doors to hold open approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors (and entrance swing doors) to return to fully closed position.
- B. Clean exposed surfaces of partition systems using materials and methods recommended by manufacturer, and provide protection as necessary to prevent damage during remainder of construction period.

END OF SECTION 10155

SECTION 10425

SIGNS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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 types of signs:
 - 1. Panel signs.
 - 2. Dimensional letters and numbers.
 - 3. Cast metal plaques.
 - 4. Rewording for existing facility sign to be relocated.
- B. Related Sections: The following sections contain requirements that relate to this section:
 - 1. Division 15 Section "Mechanical Identification" for labels, tags, and nameplates for mechanical equipment.
 - 2. Division 16 Section "Electrical Identification" for labels, tags, and nameplates for electrical equipment.
 - 3. Division 16 Section "Interior Lighting" for illuminated exit signs.

1.3 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of the Contract and Division 1 Specification Sections.
- B. Product Data: Include manufacturer's construction details relative to materials, dimensions of individual components, profiles, and finishes for each type of sign required.

- C. Shop Drawings: Provide shop drawings for fabrication and erection of signs. Include plans, elevations, and large-scale sections of typical members and other components. Show anchors, grounds, reinforcement, accessories, layout, and installation details.
1. Provide message list for each sign required, including large-scale details of wording and layout of lettering.
 2. For signs supported by or anchored to permanent construction, provide setting drawings, templates, and directions for installation of anchor bolts and other anchors to be installed as a unit of Work in other Sections.
 3. Furnish full-size rubbings for metal plaques.
- D. Samples: Provide the following samples of each sign component for initial selection of color, pattern and surface texture as required and for verification of compliance with requirements indicated. Samples for verification of color, pattern, and texture selected, and compliance with requirements indicated:
1. Cast Acrylic Sheet and Plastic Laminate: Provide a sample panel not less than 8-1/2 inches by 11 inches for each material indicated. Include a panel for each color, texture, and pattern required. On each panel include a representative sample of the graphic image process required, showing graphic style, and colors and finishes of letters, numbers, and other graphic devices.
 2. Aluminum: Samples of each finish type and color, on 6-inch-long sections of extrusions. Where finishes involve normal color and texture variations include sample sets showing the full range of variations expected.

1.4 QUALITY ASSURANCE

- A. Single-Source Responsibility: For each separate type of sign required, obtain signs from one source from a single manufacturer.
- B. Sign Fabricator Qualifications: Firm experienced in producing signs similar to those indicated for this Project, with a record of successful in-service performance, and sufficient production capacity to produce sign units required without causing delay in the Work.
- C. Design Criteria: The drawings indicate sizes, profiles, and dimensional requirements of signs. Other signs with deviations from indicated dimensions and profiles may be considered, provided deviations do not change the design concept. The burden of proof of equality is on the proposer.

- D. Design Criteria: The details included with this section indicate size, profiles, and dimensional requirements of signs and are based on the specific type and model indicated. Signs by other manufacturers may be considered provided that deviations in dimensions and profiles are minor and do not change the design concept as judged by the Contracting Officer. The burden of proof of equality is on the proposer.

1.5 PROJECT CONDITIONS

- A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication to ensure proper fitting and locations. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay.
- B. Carefully remove, protect, store and relocate the existing exterior signs where indicated. Any sign/signs damaged, scratched, etc, during construction process shall be replaced with new, at no additional cost to the Government. Rewording of the existing facility sign shall be: Revised/reword to read as per contract documents.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include, but are not limited to, the following:
 - 1. Manufacturers of Panel Signs: (Manufacturer shall be familiar with the requirements of AFP 88-40, Sign Standards. Excerpts are included with this section. The data contained therein shall take precedence over other data indicated.)
 - a. ABC Architectural Signing System, Division of Nelson-Harkins Industries.
 - b. Allenite, A Division of Allen Marking Products, Inc.
 - c. Andco Industries Corp.
 - d. APCO Graphics, Inc.
 - e. Architectural Graphics, Inc.
 - f. ASI Sign Systems, Inc.
 - g. Best Manufacturing Co.
 - h. Modulex.
 - i. Mohawk Sign Systems.

- j. Spanjer Brothers, Inc.
- k. The Supersine Company.
- l. Vomar Products, Inc.

2. Manufacturers of Cast Plaques:

- a. Andco Industries Corp.
- b. A.R.K. Ramos Manufacturing Company, Inc.
- c. Best Manufacturing Co.
- d. Gemini, Inc.
- e. Lake Shore Markers.
- f. Metal Arts, Division of L & H Manufacturing Co.
- g. OMC Industries, Inc.
- h. The Southwell Company.
- i. Brown and Hartman Engraving Co., Tulsa, OK.

2.2 MATERIALS (Unless otherwise indicated in excerpts from AFP 88-40).

- A. Cast Acrylic Sheet: Provide cast (not extruded or continuous cast) methyl methacrylate monomer plastic sheet, in sizes and thicknesses indicated, with a minimum flexural strength of 16,000 psi when tested in accordance with ASTM D 790, a minimum allowable continuous service temperature of 176 deg F (80 deg C), and of the following general types: Opaque Sheet: Where sheet material is indicated as "opaque," provide colored opaque acrylic sheet in colors and finishes indicated.
- B. Plastic Laminate: Provide high-pressure plastic laminate engraving stock with face and core plies in contrasting colors, in finishes and color combinations indicated or, if not indicated, as selected from the manufacturer's standards.
- C. Aluminum Extrusions: Provide aluminum extrusions of alloy and temper recommended by the aluminum producer or finisher for the type of use and finish indicated, and with not less than the strength and durability properties specified in ASTM B 221 for 6063-T5.
- D. Bronze Castings: Provide bronze castings, copper alloy UNS C83600, complying with the requirements of ASTM B 584.
- E. Vinyl Film: Provide opaque nonreflective vinyl film, 0.0035-inch minimum thickness, with pressure-sensitive adhesive backing, suitable for exterior as well as interior applications.
- F. ABS Plastic: Provide high-impact thermoplastic composed of copolymers of acrylonitrile, butadiene, and styrene.

- G. Fasteners: Use concealed fasteners fabricated from metals that are not corrosive to the sign material and mounting surface.
- H. Anchors and Inserts: Use nonferrous metal or hot-dipped galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.
- I. Colored Coatings for Acrylic Plastic Sheet: Use colored coatings, including inks and paints for copy and background colors, that are recommended by acrylic manufacturers for optimum adherence to acrylic surface and are nonfading for the application intended.

2.3 PANEL SIGNS (Unless otherwise indicated in excerpts from AFP 88-40).

- A. Panel Signs: Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction. Produce smooth, even, level sign panel surfaces, constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch measured diagonally.
- B. Unframed Panel Signs: Fabricate signs with edges mechanically and smoothly finished to conform with the following requirements:
 - 1. Edge Condition: Rounded.
 - 2. Edge Color for Plastic Laminate: Edge color same as background.
 - 3. Corner Condition: Square corners.
- C. Framed Panel Signs: Fabricate frames to profile indicated; comply with the following requirements for materials and corner conditions:
 - 1. Material: Aluminum, extruded or cast.
 - 2. Material: Acrylic plastic.
 - 3. Material: Injection molded ABS plastic. The manufacturer has the option of using any material listed above.
 - 4. Corner Condition: Square corners.
- D. Brackets: Fabricate brackets and fittings for bracket-mounted signs from extruded aluminum to suit sign panel construction and mounting conditions indicated. Factory-paint brackets in a color matching the background color of the sign panel.

- E. Graphic Content and Style: Provide sign copy that complies with the requirements indicated for size, style, spacing, content, position, material, finishes, and colors of letters, numbers, and other graphic devices.
- F. Applied Copy: Die-cut characters from vinyl film with pressure-sensitive adhesive backing. Apply copy to the exposed face of the sign panel. Panel Material: Matte-finished opaque acrylic sheet.

2.4 CAST METAL PLAQUES

Plaques: Castings shall be free from pits, scale, sand holes, or other defects. Comply with requirements specified for metal, border style, background texture, and finish and with requirements shown for thickness, size, shape, and copy. Hand-tool and buff borders and raised copy to produce the manufacturer's standard satin polished finish. Refer to "Finish" article for other finish requirements.

- A. Metal: Bronze.
- B. Border Style: As selected from manufacturer's standards.
- C. Background Texture: Manufacturer's standard matte finish.
- D. Background Finish: As selected from the manufacturer's standards.
- E. Text: As indicated on attached design.

2.5 FINISHES (Unless otherwise indicated in excerpts from AFP 88-40).

- A. Colors and Surface Textures: For exposed sign material that requires selection of materials with integral or applied colors, surface textures or other characteristics related to appearance, provide color matches indicated: Per AFP 88-40, Sign Standards, "Standard Blue".
- B. Metal Finishes: Comply with NAAMM "Metal Finishes Manual" for finish designations and applications recommendations.
- C. Aluminum Finishes: Finish designations prefixed by "AA" conform to the system established by the Aluminum Association for designating aluminum finishes.
 - 1. Class II Clear Anodized Fine Satin Finish: AA-M31C21A31 (Mechanical Finish: Fine satin directional textured; Chemical Finish: Fine matte etched finish; Anodic Coating: Class II Architectural, clear film thicker than 0.4 mil).
 - 2. Baked Enamel Finish: AA-M4xC12C42R1x (Mechanical Finish:

Manufacturer's standard, other nondirectional textured; Chemical Finish: Chemical conversion coating, acid chromate-fluoride-phosphate pretreatment; Organic Coating: Thermosetting modified acrylic enamel primer/topcoat system complying with AAMA 603.8 except with a minimum dry film thickness of 1.5 mils, medium gloss.) Apply baked enamel in compliance with paint manufacturer's specifications for cleaning, conversion coating, and painting.

3. Color: As indicated.

D. Bronze Finishes: Finish designations prefixed by "CDA" conform to the system established by the Copper Development Association for designating finishes.

1. Statuary Finish: CDA-M31C55O6x (Mechanical Finish: Fine satin directional textured; Chemical Finish: Sulfide conversion coating; Clear Organic Coating: Manufacturer's standard air-dry clear organic coating as specified below.)
2. Color: Uniform, color as selected.

PART 3 - EXECUTION

3.1 INSTALLATION (Unless otherwise indicated in excerpts from AFP 88-40).

- A. General: Locate sign units and accessories where indicated, using mounting methods of the type described and in compliance with the manufacturer's instructions. Install signs level, plumb, and at the height indicated, with sign surfaces free from distortion or other defects in appearance.
- B. Wall Mounted Panel Signs: Attach panel signs to wall surfaces using the methods indicated below:
 1. Vinyl-Tape Mounting: Use double-sided foam tape, of thickness indicated, to mount signs to smooth, nonporous surfaces. Do not use this method for vinyl-covered or rough surfaces.
 2. Silicone-Adhesive Mounting: Use liquid silicone adhesive recommended by the sign manufacturer to attach sign units to irregular, porous, or vinyl-covered surfaces. Use double-sided vinyl tape where recommended by the sign manufacturer to hold the sign in place until the adhesive has fully cured.
 3. Shim Plate Mounting: Provide concealed aluminum shim plates 1/8 inch thick, with predrilled and countersunk holes, at locations required and where

other mounting methods are not practicable. Attach the plate with fasteners and anchors suitable for secure attachment to the substrate. Attach panel sign units to the plate using the method specified above.

- C. Bracket-Mounted Units: Provide the manufacturer's standard brackets, fittings, and hardware as appropriate for mounting signs that project at right angles from walls and ceilings. Attach brackets and fittings securely to walls or ceilings with concealed fasteners and anchoring devices to comply with manufacturer's directions.
- D. Cast Metal Plaques: Mount plaques using the standard method recommended by the manufacturer for the type of wall surface indicated. Concealed Mounting: Mount the plaques by inserting threaded studs into tapped lugs on the back of the plaque. Set in predrilled holes filled with quick-setting cement.

3.2 CLEANING AND PROTECTION

At completion of the installation, clean soiled sign surfaces in accordance with the manufacturer's instructions. Protect units from damage until acceptance by the Contracting Officer.

END OF SECTION 10425

SECTION 10500

METAL LOCKERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes metal lockers and related equipment as indicated on drawings.
- B. Types of products in this section include the following:
 - 1. Standard wardrobe lockers.
 - a. Double-tier.
 - b. Multi-tier, (multi-robe).
 - 2. Locker room benches.
 - 3. Hang Rods.
- C. Concrete base for lockers is specific in Division 3.
- D. Masonry base for lockers is specified in Division 4.
- E. Wood sleepers and furring are specified in Division 6.

1.3 SUBMITTALS

- A. Submit the following in accordance with Conditions of Contract and Division Specification sections.
- B. Product data and installation instructions for metal locker units.
- C. Color Samples on squares of same metal to be used for fabrication of lockers.
- D. Shop Drawings that show metal lockers in dimensioned relation to adjacent surfaces. Show lockers in detail, method of installation, fillers, trim, base, and accessories. Include locker numbering sequence information.

1.4 QUALITY ASSURANCE

Uniformity: Provide metal lockers that are standard products of single manufacturer, with interchangeable like parts. Include necessary mounting accessories, fittings, and fastenings.

1.5 JOB CONDITIONS

Do not deliver metal lockers until building is enclosed and ready for locker installation. Protect from damage during delivery, handling, storage, and installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include, but are not limited to, the following:
- B. Manufacturer: Subject to compliance with requirements, provide products of one of the following:
 - 1. De Bourgh Manufacturing Co.
 - 2. The Interior Steel Equipment Co.
 - 3. List Industries Inc.
 - 4. Lyon Metal Products
 - 5. Medart Inc.
 - 6. Penco Products Inc.
 - 7. Republic Storage Systems

2.2 MATERIALS

- A. Sheet Steel: Mild cold-rolled and leveled furniture steel, free from buckle, scale, and surface imperfections.
- B. Fasteners: Cadmium, zinc, or nickel-plated steel; exposed bolt heads, slotless type; self-locking nuts or lock washers for nuts on moving parts.

- C. Equipment: Hooks and hang rods of cadmium-plated or zinc-plated steel.

2.3 FABRICATION, GENERAL

- A. Construction: Fabricate lockers square, rigid, and without warp, with metal faces flat and free of dents or distortion. Make exposed metal edges safe to touch. Weld frame members together to form rigid, one-piece structure. Weld, bolt, or rivet other joints and connections. Grind exposed welds flush. Do not expose bolts or rivet heads on fronts of locker doors or frames.
- B. Frames: Fabricate of 16-gage channels or 12-gage angles, minimum, with continuous stop/strike formed on vertical members.
- C. Finishing: Chemically pretreat metal with degreasing and phosphatizing process. Apply baked-on enamel finish to all surfaces, exposed and concealed, except plates and nonferrous metal. Color: Provide locker units in color(s) selected by Contracting Officer from manufacturer's standards. Concealed parts may be manufacturer's standard neutral color.

2.4 WARDROBE LOCKERS

- A. Body: Fabricate back and sides of minimum 24-gage steel, with double-flanged connections extending full height. Form top and bottom of not less than 24-gage steel, with flanged edges. Form exposed ends of non-recessed lockers of minimum 16-gage steel.
- B. Door: One-piece, minimum 16-gage sheet steel, flanged at all edges, constructed to prevent springing when opening or closing. Fabricate to swing 180 degrees.
 - 1. Reinforcing: Provide extra bracing or reinforcing on inside of doors over 15 inches wide.
 - 2. Ventilation: Provide stamped, louvered vents in door face, as follows:
 - a. Double-tier lockers: Not fewer than 3 louver openings top and bottom.
 - b. Multi-tier lockers: Not fewer than 2 louver openings top and bottom, or 3 louver openings top or bottom.
 - 3. Hinges: Steel, full-loop, 5-knuckle, tight pin. Weld to inside of frame and secure to door with not fewer than 2 factory-installed fasteners that are completely concealed and tamperproof when door is closed. Provide at least

3 hinges for each door over 42 inches high; at least 2 hinges for each door 42 inches high or less.

- C. Recessed Handle and Latch: Housing to form recess for latch lifter and locking devices; nonprotruding latch lifter containing strike and eye for padlock; and automatic, prelocking, pry- resistant latch mechanism with latching action as follows:
 - 1. Double-tier lockers: Not less than 2-point latching.
 - 2. Multi-tier lockers: Not less than 1-point gravity or spring latch with padlock lugs.
- D. Acoustical Treatment: Provide construction treatment designed for significant reduction of noise of locker operation, including protected sound-absorbing material; nylon or plastic coatings on operating components to prevent metal-to-metal contact, and latching mechanism designed to operate without rattling.

2.5 LOCKER ACCESSORIES

- A. Locking: Fabricate lockers to have provisions for padlock attachment built into the handle.
- B. Equipment: Furnish each locker with the following items, unless otherwise shown:
 - 1. Double-Tier Units: One double-prong hook and not fewer than 2 single-prong wall hooks.
 - 2. Lockers 18 inches Deep: Provide hand rod in lieu of hook.
- C. Number Plates: Manufacturer's standard etched, embossed, or stamped, nonferrous metal number plates with numerals not less than 3/8 inches high. Number lockers in sequence as directed by Contracting Officer. Attach plates to each locker door, near top, centered, with at least 2 fasteners of same finish as number plate.
- D. Continuous Sloping Tops: Not fewer than 20-gage sheet steel, approximately 25 degrees pitch, in lengths as long as practicable but not less than 4 lockers. Provide closures at ends. Finish to match lockers.
- E. Filler Panels: Provide filler panels where indicated and required, of not less than 18-gage steel sheet, factory fabricated and finished to match locker units.

2.6 LOCKER ROOM BENCHES

Manufacturer's standard units with laminated hardwood seat approximately 9-1/2 inches wide by 1-1/4 inches thick, in lengths as indicated. Furnish steel pedestal supports not more than 6'-0" o.c., with provisions for fastening to floor and securing to bench. Furnish all anchorages. Apply manufacturer's standard transparent coating to bench seat and baked enamel finish to pedestals.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install metal lockers at locations shown in accordance with manufacturer's instructions for plumb, level, rigid, and flush installation.
- B. Space fastenings about 48 inches o.c., unless otherwise recommended by manufacturer, and apply through backup reinforcing plates where necessary to avoid metal distortion, using concealed fasteners.
- C. Install trim, metal base, sloping top units, and metal filler panels and end panels, using concealed fasteners. Provide flush, hairline joints against adjacent surfaces.
- D. Install benches in compliance with manufacturer's instructions.

3.2 ADJUST AND CLEAN

- A. Adjust doors and latches to operate easily without binding. Verify that integral locking devices are operating properly.
- B. Touch up marred finishes, but replace units that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by locker manufacturer.

END OF SECTION 10500

SECTION 10522

FIRE EXTINGUISHERS CABINETS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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. Fire extinguisher cabinets.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 4 Section for installing cabinets in CMU walls.
 - 2. Division 9 Section for installing cabinets in gypsum board assemblies.

1.3 SUBMITTALS

- A. General: Submit the following according to Conditions of the Contract and Division 1 Specification Sections.
- B. Product data for fire extinguisher cabinets include rough-in dimensions, details showing mounting methods, relationships of box and trim to surrounding construction, door hardware, cabinet type and materials, trim style, door construction, panel style, and materials.
- C. Samples for initial selection purposes in the form of manufacturer's color charts consisting of actual units or sections of units showing full range of colors, textures, and patterns available for each type of fire extinguisher cabinet finish indicated or exposed to view.
- D. Samples for verification purposes in full-size units of each type of fire extinguisher cabinet finish indicated.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:

- B. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Ansul Fire Protection.
 - 2. Badger-Powhatan.
 - 3. American Specialties Inc.
 - 4. Bobrick Washroom Equipment, Inc.
 - 5. Filtrine Manufacturing.
 - 6. Lyon Metal Products.
 - 7. J.L. Industries.
 - 8. Larsen's Manufacturing Co.
 - 9. Modern Metal Products by Muckle.
 - 10. Potter-Roemer, Inc.
 - 11. Samson Metal Products, Inc.
 - 12. Watrous Inc.

2.2 FIRE EXTINGUISHER CABINETS

- A. General: Provide fire extinguisher cabinets as indicated.

- B. Construction: Manufacturer's standard steel box, with trim, frame, door, and hardware to suit cabinet type, trim style, and door style indicated. Weld joints and grind smooth. Miter and weld perimeter doorframes.

- C. Cabinet Type: Suitable for mounting conditions indicated of the following types:
Semirecessed: Cabinet box (tub) partially recessed in walls of shallow depth.
- D. Trim Style: Fabricate trim in one piece with corners mitered, welded, and ground smooth. Exposed Trim: One-piece combination trim and perimeter door frame overlapping surrounding wall surface with exposed trim face and wall return at outer edge (backbend).
 - 1. Square-edge trim with 4 1/2-inch square edges.
 - 2. Trim Metal: Stainless Steel.
- E. Door Material and Construction: Manufacturer's standard door construction, of stainless steel, coordinated with cabinet types and trim styles selected.
- F. Door Style: Manufacturer's standard design.
- G. Door Hardware: Provide manufacturer's standard door-operating hardware of proper type for cabinet type, trim style, and door material and style indicated. Provide either lever handle with cam-action latch, or door pull, exposed or concealed, and friction latch. Provide concealed or continuous-type hinge permitting door to open 180 deg.

2.3 FINISHES FOR FIRE EXTINGUISHER CABINETS, GENERAL

- A. Comply with NAAMM "Metal Finishes Manual" for recommendations relative to applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying strippable, temporary protective covering prior to shipping.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Follow manufacturer's printed instructions for installation.
- B. Install in locations and at mounting heights indicated or, if not indicated, at heights to comply with applicable regulations of governing authorities.
 - 1. Prepare recesses in walls for fire extinguisher cabinets as required by type and size of cabinet and style of trim and to comply with manufacturer's instructions.
 - 2. Fasten mounting brackets and fire extinguisher cabinets to structure, square

and plumb.

END OF SECTION 10522

SECTION 10605

WIRE MESH PARTITIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following: Heavy duty wire mesh partitions.
- B. Lock cylinders are specified in Division 8 Section "Door Hardware."

1.3 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product data consisting of manufacturer's specification, technical data, and installation instructions.
- C. Samples consisting of a 12-inch by 12-inch wire mesh panel constructed of specified frame members and wire mesh and color charts.
- D. Shop drawings showing fabrication and installation of wire mesh partitions. Include plans, elevations, and large scale details showing anchorage and accessory items. Provide location template drawings for items supported or anchored to permanent construction.

1.4 QUALITY ASSURANCE

Manufacturer: Provide wire mesh partitions as complete units produced by a single manufacturer, including necessary mounting accessories, fittings, and fastenings.

1.5 PROJECT CONDITIONS

Field Measurements: Take field measurements prior to preparation of shop drawings and

fabrication, where possible, to ensure proper fitting of work. However, allow for adjustments and fitting wherever taking of field measurements before fabrication might delay work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products which may be incorporated in the work include, but are not limited to, the following:
- B. Manufacturer: Subject to compliance with requirements, provide products of one of the following:
 - 1. Acorn Wire and Iron Works, Inc.
 - 2. The G-S Company.
 - 3. Hoosier Fence Co., Inc.
 - 4. Indiana Wire Products, Inc.
 - 5. Kentucky Metal Products Co.
 - 6. King Wire Partitions Inc.
 - 7. Lakeside Wire and Iron Co.
 - 8. Miller Wire Works, Inc.
 - 9. Wire and Iron Products, Inc.

2.2 HEAVY DUTY MESH PARTITIONS

- A. Mesh: .162 inch crimped steel wire woven into 2-inch diamond mesh, securely clinched to frame members.
- B. Frames: Provide cutouts necessary for partition installation. Finish edges of cutouts to provide a neat, protective edge.
 - 1. Frame Members: 1-1/2-inch by 3/4-inch cold-rolled steel channels with 3/8-inch bolt holes approximately 18 inches o.c.

2. Horizontal Reinforcing Members: 1-1/2-inch by 3/4-inch by 1/8-inch cold-rolled steel channel with wire woven through, or two 1-inch by 1/2-inch channels bolted or riveted toe-to-toe through the mesh and secured to vertical members. Provide number of horizontal reinforcing members to suit panel height as recommended by partition manufacturer.
- C. Stiffening Bars: Provide flat bar stiffener posts between all abutting panel frames. Size as recommended by partition manufacturer for partition height required. Increase size of stiffening bars if required to maintain partition rigidity.
- D. Top Capping Bars: 3-inch by 4.1-pound channel secured to top framing member with 1/4-inch "U" bolts spaced not more than 28 inches o.c.
- E. Corner Posts: 2-inch by 2-inch by 1/8-inch angles with floor shoe and 3/8-inch bolt holes to align with bolt holes in vertical frame members.
- F. Line Posts: Where partition runs exceed 20 feet without intersection or connection to overhead framing, furnish 3-inch by 4.1-pound channel line posts with 5-inch by 18-inch by 1/4-inch base plates located at recommended intervals to ensure partition rigidity and stability.
- G. Intersection Posts: Wherever 3- or 4-way intersections occur, use 2-inch by 2-inch tubular steel post with floor shoe and 3/8-inch bolt holes aligned for bolting to adjacent panels. For other than 90 degree intersections, use manufacturer's recommended tubular corner posts and installation accessories.
- H. Floor Shoes: Cast metal, sized to suit vertical framing and to provide approximately 3 inches clear space between finished floor and bottom horizontal frame members. Furnish units with set screw for leveling adjustment.
- I. Sheet Metal Base: Panels of 16-gage steel sheet, welded or bolted to frames.

2.3 DOORS

Hinged Door: Door frame of 1-1/2-inch by 3/4-inch by 1/8-inch channel with 1-1/2-inch by 1/8-inch flat bar cover plate on all sides, and 1/8-inch-thick strike bar on lock side. Provide 1-1/2 pair butt hinges riveted or welded to door and frame, and mortise-type cylinder lock operated by key outside with recessed knob inside. Align bottom of door with bottom of adjacent panels.

2.4 FABRICATION

- A. Do not use components less than sizes indicated. Use larger size components as recommended by partition component manufacturer.

- B. Provide bolts, hardware, and accessories for complete installation.
- C. Finish: Manufacturer's standard shop-applied enamel finish. Provide manufacturer's standard finish color as selected by Contracting Officer.

PART 3 - EXECUTION

3.1 PREPARATION

Coordinate and furnish anchorages, setting drawings, diagrams, templates, instructions, and directions for installation of anchorages, including concrete inserts, sleeves, anchor bolts, and miscellaneous items having integral anchors that are to be embedded in concrete or masonry construction. Coordinate delivery of such items to project site.

3.2 INSTALLATION

- A. Erect partitions plumb, rigid, properly aligned, and securely fastened in place, complying with drawings and manufacturer's recommendations.
- B. Provide additional field bracing as shown or necessary for rigid, secure installation. Erector to provide additional clips and bracing as required.

3.3 ADJUST AND CLEAN

- A. Adjust moving components for smooth operation without binding.
- B. Touch-up damaged finish after completion of installation using field-applied paint to match color of shop-applied finish.

END OF SECTION 10605

SECTION 10655

ACCORDION PARTITIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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 manually operated accordion partitions.
- B. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Concrete floor tolerances are specified in Division 3 Section "Cast-in-Place Concrete."
 - 2. Metal framing and supports are specified in Division 5 Section "Metal Fabrications."
 - 3. Wood framing and supports are specified in Division 6 Section "Miscellaneous Carpentry."

1.3 SYSTEM PERFORMANCE REQUIREMENTS

- A. Acoustical Performance: Provide accordion partitions tested by a qualified independent testing agency for the following acoustic properties according to Sound Transmission Requirements: Accordion partition tested for laboratory sound transmission loss performance according to ASTM E 90, determined by ASTM E 413 and rated for a STC plus or minus 1 as follows:
 - 1. Sound Transmission Class (STC): 15 (Est.) - Doors 104 and 107
 - 2. Sound Transmission Class (STC): 41 - Door 139A

1.4 SUBMITTALS

- A. General: Submit the following according to the Conditions of the Contract and Division 1 Specification Sections.
- B. Product data for each type of accordion partition and accessory specified. Include installation methods for each type of substrate.
- C. Shop drawings showing location and extent of accordion partitions. Include plans, elevations, large-scale details of anchorages, and accessory items. Indicate unit conditions at openings, location and installation requirements for hardware, and direction of travel.
- D. Template drawings prepared by manufacturer showing location of items supported or anchored by permanent construction.
- E. Samples for initial selection purposes in the form of manufacturer's color charts showing the full range of colors, textures, and patterns available for each finish indicated.
- F. Samples for verification purposes of each type of finish indicated; in sets for each color, texture, and pattern specified, showing the full range of variations expected in these characteristics.
 - 1. Finish Face Fabric: Full-width sample, not less than 36 inches long, with specified treatments applied. Show complete pattern repeat.
 - 2. Partition Finish Face: Manufacturer's standard size unit, not less than 3 inches square.
- G. Product certificates signed by accordion partition manufacturers certifying that their products comply with specified requirements.
- H. Maintenance data for partition to include in the "Operating and Maintenance Manual" specified in Division 1. Precautions for cleaning materials and methods that could be detrimental to finishes and performance.
- I. Acoustical test reports from and based on tests performed by qualified independent testing agency certifying that products and materials furnished comply with specified requirements.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced Installer who is certified in writing by the accordion folding partition manufacturer as qualified to install the manufacturer's partition systems.

- B. Surface-Burning Characteristics: Provide a partition finish face with the following surface-burning characteristics as determined by testing identical products per ASTM E 84 by UL or other testing and inspecting agencies acceptable to authorities having jurisdiction.
 - 1. Flame Spread: 25 or less.
 - 2. Smoke Developed: 450 or less.
- C. Testing Agency Qualifications: To qualify for acceptance, an independent testing agency must demonstrate to the Contracting Officer's satisfaction, based on evaluation of agency-submitted criteria conforming to ASTM E 699, that it has the experience and capability to satisfactorily conduct the testing indicated without delaying progress of the Work.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the Work include, but are not limited to, the following:
 - 1. Curtition.
 - 2. Custom Fold Doors, Inc.
 - 3. Folddoor/Holcomb & Hoke Mfg. Co.
 - 4. Hufcor, Inc.
 - 5. Modernfold, Inc.
 - 6. Panelfold, Inc.
 - 7. Rolscreen Co., Pella
 - 8. Woodfold-Marco Mfg. Co.
- B. Available Products:
 - 1. Partition/doors No. 104 and 107 shall be equal to "Hufcor" series 1500.
 - 2. Partition/door No. 139A shall be equal to "Hufcor" series 4100.

2.2 SUSPENSION SYSTEMS

- A. Carriers: Four-wheel ball-bearing carriers at lead post and two-wheel ball-bearing carriers at intermediate spacing as required for type, size, and weight of partition.
- B. Tracks: Manufacturer's standard extruded aluminum or steel track with factory-applied corrosion-resistant finish. Track deflection, independent of structural supporting system, shall be no more than 80 percent of bottom clearance.
 - 1. Track: Surface-mounted (Doors No. 104 and 107).
 - 2. Track: Recessed with prefinished ceiling guard (Door No. 139A).
- C. Seals: (Door No. 139A) Perimeter sweep strips for each side, top, and bottom, providing continuous contact with head and sill surfaces for positive light and sound seal. Include manufacturer's standard male and female sound and light seal at lead post and jamb.

2.3 FINISH SURFACE

Material: Manufacturer's standard wall carpet.

2.4 HARDWARE

Hardware: Manufacturer's standard heavy-duty manually operated pulls and latches.

Latches: Operable from both sides of closed partitions.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine flooring for compliance with requirements for installation tolerances and other conditions affecting the performance of accordion partitions.
- B. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install accordion partitions and accessories complying with ASTM E 557 after other

finishing, including painting, has been completed.

- B. Repair or replace accordion folding partitions within areas where test results indicate partitions do not comply with requirements, and retest partitions.

3.3 ADJUSTING

Lubricate bearings and sliding parts. Adjust to ensure smooth, easy operation.

3.4 CLEANING

Clean all accordion partition surfaces and adjacent surfaces. Avoid abrasive cleaners or solutions containing corrosive solvents. Use cleaning materials recommended by the manufacturer.

END OF SECTION 10655

SECTION 10800

TOILET AND BATH ACCESSORIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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 toilet and bath accessory items as indicated.
- B. Toilet compartments and related accessories are specified in Division 10.

1.3 SUBMITTALS

- A. General: Submit the following according to Conditions of Contract and Division 1 Specifications Sections.
- B. Product data for each toilet accessory item specified, including construction details relative to materials, dimensions, gages, profiles, mounting method, specified options, and finishes.
- C. Samples of each toilet accessory item to verify design, operation, and finish requirements. Acceptable full-size samples will be returned and may be used in the Work.
- D. Schedule indicating types, quantities, sizes, and installation locations (by room) for each toilet accessory item to be provided for project.
- E. Setting drawings where cutouts are required in other work, including templates, substrate preparation instructions, and directions for preparing cutouts and installing anchorage devices.
- F. Maintenance instructions including replaceable parts and service recommendations.

1.4 QUALITY ASSURANCE

- A. Inserts and Anchorages: Furnish accessory manufacturers' standard inserts and

anchoring devices that must be built into masonry. Coordinate delivery with other work to avoid delay.

- B. Single-Source Responsibility: Provide products of same manufacturer for each type of accessory unit and for units exposed to view in same areas, unless otherwise acceptable to Contracting Officer.

1.5 PROJECT CONDITIONS

Coordination: Coordinate accessory locations, installation, and sequencing with other work to avoid interference with and ensure proper installation, operation, adjustment, cleaning, and servicing of toilet accessory items.

1.6 WARRANTY

- A. Warranty: Submit a written warranty executed by mirror manufacturer, agreeing to replace any mirrors that develop visible silver spoilage defects within warranty period.
- B. Warranty Period: 15 years from date of Substantial Completion.
- C. The warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, (including Shower Doors), manufacturers offering toilet accessories that may be incorporated in the Work include, but are not limited to, the following:
- B. Manufacturers: Subject to compliance with requirements, provide toilet accessories by one of the following:
 - 1. A & J Washroom Accessories.
 - 2. American Specialties, Inc.
 - 3. Bobrick Washroom Equipment, Inc. (Detailed)

4. Bradley Corporation.
5. General Accessory Manufacturing Co.
6. McKinney/Parker.

2.2 MATERIALS, GENERAL

- A. Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 0.034-inch (22-gage) minimum thickness.
- B. Mirror Glass: Nominal 1/4 inch thick, conforming to ASTM C 1036, Type I, Class 1, Quality q2, and with silvering, electro-plated copper coating, and protective organic coating.
- C. Galvanized Steel Mounting Devices: ASTM A 153, hot-dip galvanized after fabrication.
- D. Fasteners: Screws, bolts, and other devices of same material as accessory unit, or of galvanized steel where concealed.

2.3 PAPER TOWEL DISPENSERS

Surface-Mounted Roll Paper Towel Dispensers: Fabricate of stainless steel with hinged front equipped with tumbler lockset. (Equal to Bobrick B-2860). Capacity: Standard-core rolls, 9" wide, 800 ft. long.

2.4 TOILET TISSUE DISPENSERS

Multi-Roll Dispenser: Fabricate of stainless steel for mounting indicated below, size to store and dispense either 4-1/2-inch-diameter or 5-inch-diameter core tissue rolls, with reserve roll placed in service by automatic release or by action of manual release bar. Hinge front of unit with pivot hinge and secure with tumbler lockset. (Equal to Bobrick B-386). Mounting: Partition mounted, designed to serve two adjacent toilet compartments, two rolls for each.

2.5 WASTE RECEPTACLES

Open-Top, Recessed Waste Receptacle: Fabricate of stainless steel with seamless exposed flange, removable receptacle with seamless exposed walls, hemmed edges, secured by tumbler lockset. Furnish removable, heavy-duty vinyl liner, secured to receptacle at not less than 4 points by grommets, stainless steel hooks; minimum 10.5-gallon capacity.

(Equal to Bobrick B-3644).

2.6 GRAB BARS

Stainless Steel Type: Provide grab bars with wall thickness not less than 0.05 inch (18 gage) and as follows: (Equal to Bobrick B-6806 x width indicated)

- A. Mounting: Concealed, manufacturer's standard flanges and anchorages.
- B. Clearance: 1-1/2-inch clearance between wall surface and inside face of bar.
- C. Gripping Surfaces: Manufacturer's standard nonslip texture.
- D. Heavy-Duty Size: Outside diameter of 1-1/2 inches.

2.7 SANITARY NAPKIN DISPOSAL UNITS

Partition-Mounted, Dual-Access and Surface Mounted Type: Fabricate of stainless steel equipped with adjustable flanges to permit partition mounting to service one or two toilet compartments. Provide self-closing door and all-welded, stainless steel receptacle removable from one side. (Equal to Bobrick B-354 and B-254).

2.8 SOAP DISPENSERS

Liquid Soap Dispenser, Deck-Mounted: Deck-mounted piston and spout-type unit with a minimum 20-fluid-ounce capacity, polyethylene reservoir concealed below deck. Piston and 6-inch-long spout of stainless steel with brightly polished finish with chrome-plated deck escutcheon. (Equal to Bobrick B-82216)

- A. Provide unit designed for mounting on vanity deck.
- B. Equip unit with valve for dispensing soap in liquid form.

2.9 FOLDING UTILITY SHELF

Fabricate stainless steel. (Equal to Bobrick B-287). Provide in Women's Toilet compartments only.

2.10 SOAP DISH

Fabricate of polished stainless steel. (Equal to Bobrick B-680). Provide one (1) for each

shower.

2.11 MISCELLANEOUS ACCESSORIES

- A. Mop and Broom Holder/Utility Shelf: Combination unit with 0.05-inch (18-gage), Type 304, stainless steel shelf with 1/2-inch returns, 0.062-inch (16-gage) support brackets for wall mounting. Provide 0.062-inch (16-gage) stainless steel hooks for wiping rags on front of shelf, together with spring-loaded, rubber hat, cam-type mop/broom holders; 1/4-inch-diameter stainless steel drying rod suspended beneath shelf. Provide unit 48 inches long and complete with six mop/broom holders and five hooks. (Equal to Bobrick B-224 x 48). Provide one (1) for each Housekeeping.
- B. Hook Strip: Type 304, satin finished stainless steel double-prong robe hooks. (Equal to Bobrick B-232 x 36). Provide one (1) for Exercise and Locker Room, 120.
- C. Towel Pin: Polished Stainless Steel. (Equal to Bobrick B-677). Provide one (1) for each shower/drying area
- D. Stainless Steel Shelf: (Equal to Bobrick B-298 x 48). Provide one (1) for each Housekeeping.
- E. Shower Doors: Fabricate frame of extra heavy extrusions with full length piano hinges. Provide a drip rail at showers to channel water from the door into the shower. Provide manufacturers standard handles, latches, etc. Finish to be manufacturer's standard silver or polished chrome. Door glazing shall be obscure tempered.
- F. Warm-Air Hand Dryer: Recessed-mounted, no touch-operation die-cast zinc or aluminum base, with manufacturers' standard colored cover. Provide 30-second timed power cut-off switch. (Equal to Bobrick B-7007)

2.12 FABRICATION

- A. General: Only a maximum 1-1/2-inch-diameter, unobtrusive stamped manufacturer logo, as approved by Contracting Officer, is permitted on exposed face of toilet or bath accessory units. On either interior surface not exposed to view or back surface, provide additional identification by either a printed, waterproof label or a stamped nameplate, indicating manufacturer's name and product model number.
- B. Surface-Mounted Toilet Accessories, General: Except where otherwise indicated, fabricate units with tight seams and joints, exposed edges rolled. Hang doors or access panels with continuous stainless steel piano hinge. Provide concealed anchorage wherever possible.

- C. Recessed Toilet Accessories, General: Except where otherwise indicated, fabricate units of all-welded construction, without mitered corners. Hang doors or access panels with full-length, stainless steel piano hinge. Provide anchorage that is fully concealed when unit is closed.
- D. Keys: Provide universal keys for access to toilet accessory units requiring internal access for servicing, resupply, etc. Provide minimum of six keys to Contracting Officer's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install toilet accessory units according to manufacturers' instructions, using fasteners appropriate to substrate as recommended by unit manufacturer. Install units plumb and level, firmly anchored in locations and at heights indicated.
- B. Install grab bars to withstand a downward load of at least 250 lbf, complying with ASTM F 446.

3.2 ADJUSTING AND CLEANING

- A. Adjust toilet accessories for proper operation and verify that mechanisms function smoothly. Replace damaged or defective items.
- B. Clean and polish all exposed surfaces strictly according to manufacturer's recommendations after removing temporary labels and protective coatings.

END OF SECTION 10800

SECTION 10900

MISCELLANEOUS SPECIALTIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of 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. Horizontal Sliding Tack board.
2. Bulletin Boards (Enclosed).
3. Tack boards.
4. Lighted Display Case.
5. Aluminum Patio Cover.
6. Closet Racks.
7. White Marker Board.

B. Related Sections: The following sections contain requirements that relate to this section:

1. Division 6 Section "Rough Carpentry" for wood blocking and grounds.
2. Electrical service and connections for lighted display case are specified in Division 16.

1.3 SUBMITTALS

A. General: Submit the following in accordance with Conditions of the Contract and Division 1 Specification Sections.

- B. Product Data: Include manufacturer's construction details relative to materials, dimensions of individual components, profiles, and finishes. Include manufacturer's data substantiating that materials comply with requirements indicated.
- C. Shop Drawings: Provide dimensioned elevations for each item required; include large-scale sections of typical members and other components. Show anchors, grounds, reinforcement and layout, and indicate finishes. Include setting drawings, templates, and directions for installation of anchor bolts and other anchorages to be installed as a unit of Work in other Sections.
- D. Wiring diagrams from the manufacturer for the lighted display case.
- E. Samples: Provide the following samples of each exposed material, for initial selection of colors, patterns, and textures, as required, and for verification of compliance with requirements indicated.
 - 1. Samples for initial selection of color, pattern, and texture:
 - a. Colored Cork Tack boards, Bulletin Boards, LCS Marker Boards and Display Case Backgrounds: Manufacturer's color charts showing the full range of colors, textures, and patterns available for each type of material indicated.
 - b. Aluminum Trim and Accessories: Samples of each finish type and color, on 6-inch-long sections of extrusions and not less than 4-inch squares of sheet or plate, showing the full range of colors available.
 - 2. Samples for verification of color, pattern, and texture selected and compliance with requirements indicated.
 - a. Tack boards, Marker boards and Backgrounds: Sample panels not less than 8-1/2 inches by 11 inches for each type of material indicated. Include a sample panel for each color, texture, and pattern required.
 - b. Aluminum Trim and Accessories: Samples of each finish type and color, on 6-inch-long sections of extrusions and not less than 4-inch squares of sheet or plate. Where finishes involve normal color and texture variations, include sets showing the full range of variations expected.
- F. Certificates: In lieu of laboratory test reports, when permitted by the Contracting Officer, submit the manufacturer's certification that the materials furnished comply with requirements specified for flame spread ratings.

1.4 QUALITY ASSURANCE

- A. **Installer Qualifications:** Engage an experienced Installer who is an authorized representative of the manufacturer for installation and maintenance of the manufacturer's products.
- B. **UL and NEMA Compliance:** Provide lighting fixtures and electrical components for lighted display case that are labeled and listed by UL and comply with applicable NEMA standards.
- C. **Design Criteria:** The drawings indicate size, and locations of the items and are based on the specific type and model indicated. Other items by other manufacturers may be considered provided that deviations in dimensions and profiles are minor and do not change the design concept as judged by the Contracting Officer. The burden of proof of equality is on the proposer.

1.5 PROJECT CONDITIONS

Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication to ensure proper fitting. Show recorded measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include, but are not limited to, the following:

- A. **Manufacturers of Lighted Display Cases:**
 - 1. ABC Bulletin & Directory Division of Nelson Harkins Industries.
 - 2. Andco Industries Corporation.
 - 3. Apco Graphics.
 - 4. Architectural Graphics, Inc.
 - 5. ASI Sign System, Inc.
 - 6. Poblocki & Sons.

7. Spanjer Bros., Inc.
 8. The Supersine Company.
 9. Vomar Products, Inc.
- B. Manufacturers of Bulletin Boards, Tack boards and Marker Boards:
1. ABC Bulletin and Directory Division of Nelson Harkins Industries.
 2. Andco Industries Corporation.
 3. Claridge Products and Equipment, Inc.
 4. Greensteel, Inc.
 5. Poblocki & Sons.

2.2 LIGHTED DISPLAY CASE

Lighted Display Case: Provide the manufacturer's standard recessed, 48"W x 72"H x 12"D, lighted display case. The complete case assembly shall be equal to a unit manufactured by Poblocki & Sons, Inc., with the following features: Model K2, for interior use; heavy duty sliding doors with type "D" glazing; finish as selected; type "A" lighting type and location; type "A" shelving, sets of shelving typical for 48" width with 4-levels of "C" depth with "A" edgework; type "A" standards typical for 48" width and type "A" brackets; type "F" background with materials to be: back, type "Q", sides and floor, type "K".

2.3 HORIZONTAL SLIDING TACKBOARD

Horizontal Sliding Tack board: Provide manufacturer's standard 96"W x 60"H horizontal sliding units with fixed back panel with four sliding panels on four tracks, equal to a unit manufactured by Claridge Products and Equipment, Inc. Unit to be complete with the following features: Map Rail with colored cork insert; chalk trough; colored cork on the four sliding panels; LCS marker board on the back panel; manually operated; and standard housing and trim.

2.4 BULLETIN BOARDS (ENCLOSED)

Bulletin Boards: Provide manufacturer's standard 36" x 48" bulleting board, surface mounted equal to units manufactured by Claridge Products and Equipment, Inc., Model 3920, with colored cork back panel.

2.5 TACKBOARDS

Tack boards: Provide manufacturer's standard units in the sizes indicated on the drawings, surface mounted equal to units manufactured by Claridge Products and Equipment, Inc., Series 1200, type CO.

2.6 WHITE MARKER BOARD

White Marker Board: Provide manufacturer's standard unit of LCS marker board equal to a unit manufactured by Claridge Products and Equipment, Inc.. Size shall be as required to replace the existing chalkboard in the chalk/tack board to be removed from the existing Briefing Room, refurbished and relocated in new "Main Briefing", 177.

2.7 CLOSET RACK

Closet Rack: Provide manufacturer's standard units equal to Steel Line, Model No. SLKE100U, as manufactured by Vogel Peterson Co., colors and finishes as selected, with lengths to be closed width less two (2") inches.

2.8 ALUMINUM PATIO COVER

Aluminum Patio Cover: Provide manufacturer's standard unit equal to a unit as manufactured by the E.L. Burns Company, Inc., Column Supported Sky Roof Canopy, bronze color aluminum, 78" projection, 151"-length, and free-blown style translucent tinted acrylic canopy.

PART 3 - EXECUTION

3.1 INSTALLATION

Install units plumb and level, in locations and with mountings required. Securely attach to the supporting structure with concealed fasteners, in accordance with the manufacturer's installation instructions.

3.2 CLEANING

At completion of the installation, clean surfaces in accordance with the manufacturer's instructions.

3.3 PROTECTION

Protect installed units and materials from damage until acceptance by the Contracting Officer.

END OF SECTION 10416