

SECTION 10155

TOILET COMPARTMENTS

A. ACCEPTABLE MANUFACTURERS

1. Global Steel Products Corporation, (Preferred)
2. General Partitions Manufacturing Corp.,
3. Knickerbocker Partition Corporation,
4. Metpar Corporation,
5. Santana Products, Inc.,
6. Or as approved.

B. GENERAL

1. General: Provide materials that have been selected for surface flatness and smoothness. Exposed surfaces that exhibit pitting, seam marks, roller marks, stains, discolorations, telegraphing of core material, or other imperfections on finished units are unacceptable.

C. TYPE 1 METAL UNIT PARTITION (FOR OFFICE AREAS)

1. Materials
 - a. Steel Sheets for Color-Coated Finish: Provide mill-phosphatized steel sheet that is leveled to stretcher-leveled flatness complying with the requirements of standards indicated below:
 - 1) Hot-Dip Galvanized Steel Sheet: ASTM A 653, Class C, of the following minimum thicknesses:
 - a) Pilasters (Overhead Braced): 0.0359 inch.
 - b) Panels and Screens: 0.0299 inch.
 - c) Doors: 0.0299 inch.
 - d) Tapping Reinforcement: 0.0747 inch.
 - b. Core Material for Metal-Faced Units: Manufacturer's standard sound-deadening honeycomb of resin-impregnated kraft paper in thickness required to provide finished thickness of 1 inch minimum for doors, panels, and screens and 1-1/4 inches minimum for pilasters.
 - c. Pilaster Shoes and Sleeves (Caps): ASTM A 666, Type 302 or 304 stainless steel, not less than 0.0312 inch thick and 3 inches high, finished to match hardware.
 - d. Full-Height (Continuous) Brackets: Manufacturer's standard design for attaching panels and screens to walls and pilasters of the following material:
 - 1) Material: Stainless steel.
 - e. Hardware and Accessories: Manufacturer's standard design, heavy-duty operating hardware and accessories of the following material:
 - 1) Material: Stainless steel.
 - f. Overhead Bracing: Manufacturer's standard continuous, extruded-aluminum head rail with antigrip profile in manufacturer's standard finish.
 - g. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel or chrome-plated steel or brass, finished to match hardware, with theft-resistant-type heads. Provide sex-type bolts for through-bolt applications. For concealed anchors, use hot-dip galvanized or other rust-resistant, protective-coated steel.

2. Finish

- a. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying finishes.
- b. Color-Coated Finish: Provide manufacturer's standard baked finish complying with coating manufacturer's written instructions for pretreatment, application, baking, and minimum dry film thickness.
 - 1) Color: One color in each room as selected by Owner from manufacturer's full range of colors.

D. TYPE 2 SOLID POLYMER UNIT PARTITION (FOR MANUFACTURING, WAREHOUSE, ETC.)

1. Materials

- a. Door, Panel, and Pilaster Construction: Solid, high-density polyethylene (HDPE) or polypropylene (PP) panel material, not less than 1 inch thick, seamless, with eased edges, and with homogeneous color and pattern throughout thickness of material.
 - 1) Color and Pattern: One color and pattern in each room as selected by Owner from manufacturer's full range of colors and patterns.
- b. Pilaster: Manufacturer's standard design; polymer or stainless steel.
 - 1) Polymer Color and Pattern: Matching pilaster.
- c. Brackets (Fittings):
 - 1) Full-Height (Continuous) Type: Manufacturer's standard design; polymer or stainless steel.
 - 2) Polymer Color and Pattern: Matching pilaster.
- d. Hardware and Accessories: Manufacturer's standard design, heavy-duty operating hardware and accessories.
 - 1) Material: Stainless steel.
- e. Overhead Bracing: Manufacturer's standard continuous, extruded-aluminum head rail with antigrip profile and in manufacturer's standard finish.
- f. Support Posts for Urinal Screens: Manufacturer's standard aluminum post with floor shoe for anchoring to floor construction.
- g. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel or chrome-plated steel or brass, finished to match hardware, with theft-resistant-type heads. Provide sex-type bolts for through-bolt applications. For concealed anchors, use hot-dip galvanized or other rust-resistant, protective-coated steel.

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SECTION 10270

ACCESS FLOORING

A. ACCEPTABLE MANUFACTURERS (NO SUBSTITUTIONS)

1. Tate Access Floors, Inc.

B. PERFORMANCE REQUIREMENTS

1. Performance Requirements, General: Provide access flooring systems that comply with the following requirements:
 - a. Access flooring systems are proprietary portable systems composed of modular floor panels on elevated supports (understructures) forming accessible underfloor cavities (air spaces) to accommodate electrical and mechanical services.
2. Structural Performance per CISCA A/F: Provide access flooring systems capable of supporting the following loads, within limits and under conditions indicated, as demonstrated by testing according to the referenced procedures in Ceilings and Interior Systems Construction Association's (CISCA) "Recommended Test Procedures for Access Floors." This publication and its procedures are referenced elsewhere in this Section as CISCA A/F.
 - a. Concentrated-Load Performance: Capability of floor panels, including those with cutouts, to support concentrated design loads of the following magnitude, with a top-surface deflection under load and a permanent set not to exceed, respectively, 0.10 and 0.010 inch, according to CISCA A/F Section I.
 - 1) 1000 lbf (4448 N), minimum.
 - b. Ultimate-Load Performance: Capability of access flooring systems to support a minimum ultimate concentrated load equal to the value obtained by multiplying the specified concentrated floor panel design load by the factor indicated below, without failing, according to CISCA A/F Section II. Failure is defined as the point at which the access flooring system will not take any additional load.
 - 1) Factor: 2.
 - c. Rolling-Load Performance: Capability of access flooring system to withstand rolling loads of the following magnitude applied to panels, with a combination of local and overall deformation not to exceed 0.040 inch after exposure to rolling load over CISCA A/F path A or B, whichever path produces the greatest top-surface deformation, according to CISCA A/F Section III.
 - 1) CISCA A/F Wheel 1 rolling load indicated below:
 - (a) 800 lbf (3559 N).
 - 2) CISCA A/F Wheel 2 rolling load indicated below:
 - (a) 600 lbf (2669 N).
 - d. Stringer Concentrated-Load Performance: Capability of stringers, without panels in place, to support a concentrated load of 200 lbf (890 N) at center of span with a permanent set not to exceed 0.010 inch, as determined per CISCA A/F Section IV.
 - e. Pedestal Axial-Load Performance: Capability of pedestal assemblies, without panels or other supports in place, to withstand the following axial load per pedestal, according to CISCA A/F Section V.
 - 1) 5000 lbf (22.24 kN).
 - f. Pedestal Overturning-Moment Performance: Capability of pedestal assemblies, without panels or other supports in place, to withstand the following overturning moment per pedestal, according to CISCA A/F Section VI.
 - 1) 1000 lbf x inches.
3. Floor Panel Impact-Load Performance: Capability of access flooring system to withstand the following impact load when dropped from 36 inches onto a 1-sq. in. area located anywhere on panel, without failing. Failure is defined as the point at which the access flooring system will not take any additional load.
 - a. 100 lbf (445 N).

4. Seismic Performance: Capability of access flooring to withstand lateral forces (Fp) in the seismic zone applicable to this Project, according to requirements of the building code in effect for this Project's building type.
5. Static-Dissipative Floor Covering Resistance: Not less than 150,000 ohms, nor more than 20,000 megohms, as determined by testing identical products according to the method for conductive flooring specified in Chapter 12 of NFPA 99 but modified to place 1 electrode on floor surface and to attach the other electrode to understructure.

C. QUALITY ASSURANCE

1. NFPA Standard: Provide access flooring complying with NFPA 75 requirements for raised flooring.

D. FLOOR PANELS

1. General: Provide modular field panels complying with the following requirements that one person, using a portable lifting device, can interchange with other field panels without disturbing adjacent panels or understructure and that are free of exposed-metal edges with floor covering in place.
 - a. Nominal Panel Size: 24 by 24 inches.
 - b. Fabrication Tolerances: Fabricate panels to the following tolerances with squareness tolerances expressed as the difference between diagonal measurements from corner to corner.
 - 1) Size and Squareness: Plus or minus 0.015 inch of required size, with a squareness tolerance of plus or minus 0.015 inch, unless tolerances are otherwise indicated for a specific panel type.
 - 2) Flatness: Plus or minus 0.020 inch, measured on a diagonal on top of panel.
 - c. Panel Attachment to Understructure: By gravity.
2. Filled Formed-Steel Panels: Either panel construction described below:
 - a. Cementitious-filled panels fabricated with flat top sheet and die-formed and stiffened bottom pan formed from cold-rolled steel sheet joined together by resistance welding to form an enclosed assembly and protected against corrosion by manufacturer's standard factory-applied finish.
 - b. Lightweight-concrete-filled panels fabricated with flat cold-rolled steel top sheet and bottom pan formed from electrolytic-zinc-coated cold-rolled steel sheet joined together permanently and structurally by hemming and adhesively to concrete core to form an enclosed assembly.
 - c. Design Product: Concore SF1000 manufactured by Tate Access Floors, Inc. (no substitutions).

E. FLOOR PANEL COVERING

1. General: Provide factory-applied floor coverings of type indicated that are laminated by the access flooring manufacturer to tops of floor panels.
2. Colors and Patterns: Provide floor covering materials in colors and patterns as indicated below:
 - a. Provide Owner's selections made from manufacturer's full range of colors and patterns.
3. Conductive Plastic Laminate: NEMA LD 3, High-Wear Type, of grade indicated below, fabricated in one piece to cover each panel face within perimeter plastic edging or with integral trim serving as edging, and with static decay of 5000 to 0 V in less than 0.5 seconds per FED-STD-101C/4046 at 15 percent relative humidity.
 - a. Grade: HW 62.
4. Edging: Manufacturer's standard form of edge trim. For applied edge trim, use method standard with manufacturer to attach edge trim to perimeter of each panel. Provide size and profile of applied edge trim that fits floor covering selected.

F. UNDERSTRUCTURE

1. Pedestals: Assembly consisting of base, column with provisions for height adjustment, and head (cap); made of steel or aluminum or a combination of both.
 - a. Base: Square or circular base with not less than 16 sq. in. of bearing area. Provide base designed for seismic performance. Do not use column bracing as a means of seismic performance.
 - b. Ground pedestals to building steel. Every fifth pedestal in all directions shall be grounded.
 - c. Provide vibration-proof leveling mechanism for making and holding fine adjustments in height over a range of not less than 2 inches. Include means of locking leveling mechanism at a selected height that requires deliberate action to change height setting and prevents vibratory displacement.
 - d. Provide units of sufficient height to achieve underfloor clearance indicated.
 - 1) 24 inches to top of panel.
 - e. Head: Designed for direct, nonbolted support of panels.
 - 1) Provide sound-deadening pads or gaskets at contact points between heads and panels.
 - f. Postinstalled Expansion Anchors: Where required to comply with performance requirements, provide expansion anchors for bolting pedestal bases to subfloor that have the capability to sustain, without failure, a load equal to 5 times that specified.

G. ACCESSORIES

1. Colors and Finishes: For exposed accessories available in more than one standard color or finish, provide color or finish complying with the following requirements:
 - a. Provide Owner's selections made from manufacturer's full range of available colors and finishes.
2. Cutouts: Provide cutouts in floor panels for cable penetrations and service outlets. Comply with requirements indicated for size, shape, number, and location. Provide reinforcement or additional support, if needed, to make panels with cutouts comply with standard performance requirements.
 - a. Fit cutouts with manufacturer's standard grommets in sizes indicated or, where size of cutouts exceed maximum grommet size available, trim edge of cutouts with manufacturer's standard plastic molding having tapered top flange.
 - 1) Furnish removable covers for grommets.
 - b. Provide foam-rubber pads for sealing annular space formed in cutouts by cables and trim edge of cutout with molding having flange and ledge for capturing and supporting pads.
3. Perforated Panels: Standard load-bearing perforated metal panels interchangeable with standard field panels and complying with the following requirements:
 - a. Air-Distribution Characteristics of Units with Dampers: Provide units with air-volume control dampers, adjustable from top surface, capable of delivering 540 cfm at 0.10-inch wg (255 L/s at 25-Pa) static pressure with damper full open.
 - b. Structural Performance: Capable of supporting a 1000-lbf (4448-N) concentrated load.
 - c. Floor Covering: Same as standard field panel.
 - d. Number of Grilles: As required by ventilation requirements.
4. Panel Lifting Device: Manufacturer's standard portable lifting device of type and number required for lifting panels with floor covering provided.
 - a. Provide 2 lifting devices per room.
5. Perimeter Support: Where indicated, provide manufacturer's standard method for supporting panel edge and form transition between access flooring and adjoining floor covering at same level as access flooring.

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SECTION 10425

SIGNAGE

A. ACCEPTABLE MANUFACTURERS

1. ANDCO (Preferred)
2. ASI Sign Systems, Inc.,
3. Best Manufacturing,
4. Mohawk Sign Systems,
5. Or as approved.

B. QUALITY ASSURANCE

1. Regulatory Requirements: Americans with Disabilities Act (ADA), Accessibility Guidelines for Buildings and Facilities.
2. Signage as required by BOCA National Building Code and the Connecticut Code supplement.
3. Signage as required by OSHA or NFPA.

C. MATERIALS

1. Plastic Laminate: Provide high-pressure plastic laminate engraving stock with face and core plies in contrasting colors, in finishes and color combinations as selected from the manufacturer's standards.
2. Fasteners: Use fasteners fabricated from metals that are not corrosive to the sign material and mounting surface. Non-removable type.

D. PANEL SIGNS

1. Panel Signs: Comply with requirements indicated for materials, thicknesses, finishes, colors, designs, shapes, sizes, and details of construction.
 - a. 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.
2. Unframed Panel Signs: Fabricate signs with edges mechanically and smoothly finished to conform with the following requirements:
 - a. Edge Condition: Beveled.
 - b. Edge Color for Plastic Laminate: Edge color same as background.
 - c. Corner Condition: Square corners.
 - d. Thickness: 1/8 inch minimum.
 - e. Lettering: 1 inch high (unless noted otherwise).
 - f. Raised Graphics: 1/32 inch.
 - g. Comply with ADA Guidelines.
3. 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.
4. Engraved Copy: Machine-engrave letters, numbers, symbols, and other graphic devices into sign panel on the face indicated to produce precisely formed copy, incised to uniform depth. Use high-speed cutters mechanically linked to master templates in a pantographic system or equivalent process capable of producing characters of the style indicated with sharply formed edges.
 - a. Engraved Plastic Laminate: Engrave through the exposed face ply of the plastic laminate sheet to expose the contrasting core ply.
 - 1) Lettering Style: HELVETICA medium.

E. FINISHES

1. 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, or if not indicated, as selected by the Architect/Engineer from the manufacturer's standards.

F. SCHEDULE OF SIGNS

1. Provide one sign for each room located off each corridor, aisle, vestibule, and passage. Sign to contain room number and either room use or name. Coordinate with Owner for designation to be used in preparing the room signage. List of names to be provided.
 - a. Provide accessible symbol at Toilet Room Doors.
2. Area of Refuge: Each door providing access to an area of refuge from an adjacent floor area shall be identified by a sign complying with CABO/ANSI A117.1, listed in Appendix A stating, "Area of Refuge" and the International Symbol of Accessibility. The sign shall be illuminated as required for "Exit" signs where "Exit" sign illumination is required. Additionally, tactile signage complying with CABO/ANSI A117.1, listed in Appendix A, shall be located at each door to an area of refuge.
 - a. Signage at other Exits
 - 1) Signage indicating the location of accessible means of egress shall be installed at all exits and elevators that serve a required accessible space, but which are not an approved accessible means of egress.
3. Stairway Floor Number Signs: A sign shall be provided at each floor landing in all interior exit stairways connecting more than three stories designating the floor level above and below the level of exit discharge, the identification of the stairway, and the availability of roof access from that stairway. The sign shall be located approximately 5 feet above the floor landing in a position which is readily visible when the doors are in the open and closed positions. Provide 4-inch high letters.
4. Elevator Signage per code.
5. Live load capacity.
6. Other signs as required by the Owner.

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SECTION 10505

METAL WARDROBE LOCKERS

A. ACCEPTABLE MANUFACTURERS

1. Penco Products (Preferred)
2. Medart, Inc.,
3. Lyon Metal Products, Inc.,
4. Republic Storage Systems Co., Inc.,
5. or as approved.

B. MATERIALS

1. Steel Sheet: ASTM A 366 (A 366M), commercial-quality, stretcher-leveled, cold-rolled carbon steel sheet, stretcher leveled, free of buckling, scale, and surface imperfections.
2. Hot-Dip Zinc-Coated Steel Sheet: ASTM A 526/A 526M, commercial-quality, zinc-coated, carbon-steel sheet, hot-dip galvanized according to ASTM A 525 (A 525M) with A 60 (ZF 180) or G 60 (Z 180) coating designation.
3. Electrolytic Zinc-Coated Steel Sheet: ASTM A 591/A 591M, with Class C zinc coating, mill phosphatized.
4. Fasteners: Zinc- or nickel-plated steel; slotless-type exposed bolt heads; self-locking nuts or lock washers for nuts on moving parts.
5. Equipment: Manufacturer's standard plated steel hooks or coat rods.

C. WARDROBE LOCKERS

1. Body: Form backs, tops, bottoms, sides, and intermediate partitions of flanged 0.0239-inch minimum steel sheet.
 - a. Form exposed ends of nonrecessed lockers of 0.0598-inch minimum steel sheet.
2. Frames: Form channel frames of 0.0598-inch minimum steel sheet. Form continuous integral strike on vertical frame members or weld 0.0897-inch minimum latch hooks to latch strike frame.
3. Door: One-piece steel sheet, flanged at all edges, constructed to prevent springing when opening or closing. Fabricate to swing 180 degrees.
 - a. Thickness: 0.0598 inch minimum.
4. Reinforcing and Sound-Dampening Panels: Brace or reinforce inner face of doors with manufacturer's standard reinforcing angles, channels, or stiffener panels.
 - a. Reinforce inner face of door with a steel sheet panel filled with sound-deadening insulation.
5. Louvered Vents: Stamped, louvered vents in door face, as follows:
 - a. Double-Tier Lockers: No fewer than 3 louver openings top and bottom.
6. Continuous Hinges: Manufacturer's standard steel continuous hinge mounted to door and frame.
7. Recessed Handle and Latch: Manufacturers' standard 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:
 - a. Double-Tier Lockers: Not less than 2-point latching.

D. LOCKER ACCESSORIES

1. Equipment: Furnish each locker with the following items, unless otherwise shown:
 - a. Double-Tier Units: 1 double-prong ceiling hook, and not fewer than 2 single-prong wall hooks.
2. Number Plates: Manufacturer's standard etched, embossed, or stamped, nonferrous-metal number plates with numerals not less than 3/8 inch high. Number lockers in sequence indicated. Attach plates to each locker door, near top, centered, with at least 2 fasteners of same finish as

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number plate.

3. Legs: Provide nominal 6-inch legs by extending vertical frame members or by attaching gusset-type legs made of not less than 0.0598-inch steel sheet, with provision for fastening to floor.
 - a. Closed Base: 0.0359-inch minimum steel.
4. Continuous Metal Base: Steel sheet, channel or zee profiled for stiffness, fabricated in lengths as long as practicable to enclose base and base ends of lockers without additional fastening devices.
 - a. Minimum Thickness: 0.0598 inch.
5. Continuously Sloping Tops: Manufacturer's standard continuously sloped top, not less than 0.0359-inch steel sheet. Provide closures at ends and sloped corner fillers.

E. STEEL SHEET FINISHES

1. Surface Preparation: Solvent-clean surfaces complying with SSPC-SP 1 to remove dirt, oil, grease, and other contaminants that could impair paint bond. Remove mill scale and rust, if present, from uncoated steel complying with SSPC-SP 5 (White Metal Blast Cleaning) or SSPC-SP 8 (Pickling), and phosphatize surfaces.
2. Baked-Enamel Finish: Immediately after cleaning and pretreating, apply manufacturer's standard baked-enamel finish consisting of a thermosetting topcoat. Comply with paint manufacturer's instructions for application and baking to achieve a minimum dry film thickness of 1.1 mils on doors, frames, and legs, and 0.7 mil elsewhere.
 - a. Color and Gloss: As selected by Owner from manufacturer's full range of choices for color and gloss.

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SECTION 10522

FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

A. ACCEPTABLE MANUFACTURER

1. Larsen's Manufacturing Co. (Preferred)
2. J.L. Industries,
3. Modern Metal Products by Muckle,
4. or as approved.

B. MOUNTING BRACKETS

1. Brackets: Designed to prevent accidentally dislodging extinguisher, of sizes required for type and capacity of extinguisher indicated, in plated finish.
 - a. Provide brackets for extinguishers not located in cabinets.

C. FIRE EXTINGUISHERS (OWNER SUPPLIED)

1. Coordinate with Owner for type and size.

D. CABINETS

1. Construction: Manufacturer's standard 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 door frames.
2. Fire-Rated Cabinets: UL listed with UL listing mark with fire-resistance rating of wall where it is installed.
3. Cabinet Type: Suitable for containing the following:
 - a. Fire extinguisher as supplied by Owner. Coordinate with Owner for type and size.
4. Cabinet Mounting: Suitable for the following mounting conditions:
 - a. Semirecessed: Cabinet box (tub) partially recessed in walls of shallow depth.
5. Trim Style: Fabricate trim in one piece with corners mitered, welded, and ground smooth.
 - a. 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) Rolled-edge trim with 3-1/2-inch backbend depth.
 - 2) Trim Metal: Aluminum.
6. Door Material and Construction: Manufacturer's standard door construction, of material indicated, coordinated with cabinet types and trim styles selected.
7. Door Style: Manufacturer's standard design.
 - a. Full-Acrylic Panel: Frameless, 1/2-inch-thick red acrylic.
 - 1) Silk-screen white lettering.
8. 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 exposed or concealed door pull and friction latch. Provide concealed or continuous-type hinge permitting door to open 180 deg.
9. Design Product: Fire Extinguisher Cabinet FSG2409-R4 manufactured by Larsen's Manufacturing Co.

E. ALUMINUM CABINET FINISHES

1. Finish designations prefixed by AA conform to the system established by the Aluminum Association for designating aluminum finishes.
2. Class II Clear Anodized Finish: AA-M12C22A31 (Mechanical Finish: as fabricated, nonspecular; Chemical Finish: etched, medium matte; Anodic Coating: Class II Architectural,

clear film thicker than 0.4 mil).

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SECTION 10605

WIRE MESH PARTITIONS

A. ACCEPTABLE MANUFACTURERS

1. Mayberry Material Handling (Preferred),
2. Acorn Wire and Wire Works, Inc.,
3. Indiana Wire Products, Inc.,
4. Miller Wire Works, Inc.,
5. or as approved.

B. MATERIALS

1. Steel Wire: ASTM A 853.
2. Steel Channels, Angles, Plates, and Bars: ASTM A 36 (ASTM A 36M).
3. Steel Sheet: ASTM A 568 (ASTM A 568M).
4. Cold-Rolled Steel Channels: Formed from steel sheet.
5. Square Steel Tubing: Cold-formed structural steel tubing, ASTM A 500.
6. Galvanized Steel Wire: ASTM A 641 (ASTM A 641M).
7. Galvanized Steel Sheet: Commercial-quality, hot-dip-coated steel sheet, ASTM A 653, with G60 or A60 (ASTM A 653M, with Z180 or ZF180) coating.

C. STANDARD-DUTY MESH PARTITIONS

1. Mesh: 0.135-inch-diameter, intercrimped steel wire woven into 1-1/2-inch diamond mesh, securely clinched to frame members.
2. Frames: Provide cutouts for pipes, ducts, beams, and other items shown or necessary for partition installation. Finish edges of cutouts to provide a neat, protective edge.
 - a. Vertical Members: 1-1/4-by-5/8-by-0.1046-inch cold-rolled steel C-Section channels with 1/4-inch-diameter bolt holes approximately 18 inches o.c.
 - b. Horizontal Members: 1-by-1/2-by-1/8-inch cold-rolled steel channels, mortised and tenoned to vertical members.
 - c. Horizontal Reinforcing Members: 1-by-1/2-by-1/8-inch cold-rolled steel channels with wire woven through or two 1-by-1/2-inch steel channels bolted or riveted toe to toe through mesh, and secured to vertical members. Provide number of horizontal reinforcing members to suit panel height as recommended by partition manufacturer.
3. Vertical Stiffening Bars: For freestanding partitions 12 feet (3.66 m) in height or over, provide flat steel bar stiffener posts between abutting panel frames. Size as recommended by partition manufacturer for partition height required. Increase size of stiffening bars, if required, to maintain partition rigidity.
4. Top Capping Bars: 2-1/4-by-1-inch cold-rolled steel channels, secured to top framing channels with 1/4-inch-diameter "U" bolts spaced not more than 28 inches o.c.
5. Corner Posts: 1-1/4-by-1-1/4-by-1/8-inch steel angles with floor shoe and 1/4-inch-diameter bolt holes to align with bolt holes in vertical frame members.
6. Line Posts: Where partition runs exceed 20 feet without intersecting or connecting to overhead framing, furnish 3-inch by 4.1-lb (1.9-kg) steel channel line posts with 5-by-18-by-1/4-inch steel base plates located at recommended intervals to ensure partition rigidity and stability.
7. Floor Shoes: Cast metal, sized to suit vertical framing and to provide approximately 3 inches of clear space between finished floor and bottom horizontal frame members. Furnish units with set screws for leveling adjustment.
8. Sheet Metal Base: Panels of 0.0598-inch-thick steel sheets, welded or bolted to frames.

D. DOORS

1. Hinged Door: Door frame of 1-1/4-by-1/2-by-1/8-inch steel channels with 1-1/4-by-1/8-inch flat steel bar cover plates on 3 sides, and 1/8-inch-thick angle strike bar and cover on lock side. Provide 1-1/2 pairs of 3-by-3-inch spring hinges riveted or welded to door and frame, and mortise-type lockset, passage function storage or classroom (verify with Owner) with stainless steel lever handle.
 - a. Located as directed by Owner.
2. Sliding Door: Door frame of 1-1/2-by-3/4-by-1/8-inch steel channels with 1-1/2-by-1/8-inch flat steel bar cover plates on 4 sides. Provide door with two 4-wheel roller-bearing carriers, box track, bottom guide channel, and mortise-type cylinder lock operated by key outside with recessed knob inside. Align bottom of door with bottom of adjacent panels.
 - a. Located as directed by Owner.
3. Best Locks cylinder will be supplied and installed. Best Lock cores will be provided and installed by Owner.

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SECTION 10651

OPERABLE PANEL PARTITIONS

A. ACCEPTABLE MANUFACTURERS

1. MODERCO Inc. (Preferred),
2. Foldoor/Halcomb and Hoke Manufacturing,
3. Hufcor, Inc.,
4. Modernfold, Inc.,
5. Panelfold, Inc.,
6. or as approved.

B. SYSTEM PERFORMANCE REQUIREMENTS

1. Acoustical Performance: Provide operable panel partitions tested by a qualified independent testing agency for the following acoustic properties according to following test method:
 - a. Sound Transmission Requirements: Operable panel partition assembly tested in a full-scale opening (14 feet by 9 feet) for laboratory sound transmission loss performance according to ASTM E 90, determined by ASTM E 413 and rated for an STC plus or minus 1 as follows:
 - 1) Sound Transmission Class (STC): 53.

C. QUALITY ASSURANCE

1. Surface-Burning Characteristics: Provide panel 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.
 - a. Flame Spread: 25 or less.
 - b. Smoke Developed: 450 or less.

D. OPERABLE PANEL PARTITIONS

1. Panel Configuration: Operable panels as follows:
 - a. Manually operated, continuously hinged panels.
2. Panel Construction: Top reinforcing as required to support suspension components and as follows:
 - a. Steel Frame: Steel on gypsum board face sheets.
 - 1) Steel Channel Frame: Not less than 0.0478 inch (18 gage).
3. Panel Thickness: 4 inches.
4. Panel Weight: 12 psf maximum.
5. Hardware: Manufacturer's standard, finished to match exposed hardware on partition.
6. Manufacturer: Spectrum 6900M manufactured by Hufcor/Air Wall.

E. SUSPENSION SYSTEMS

1. Carriers: Steel trolley system as required for type, size, and weight of partition for ease of operation.
2. Suspension Tracks: Steel or aluminum with overhead supports of adjustable steel hanger rods designed for size and type of operable panel partition assembly indicated. Track deflection shall be no more than 0.10 inch between bracket supports.
3. Provide structural steel beam or support as required to carry the weight of the partition. Coordinate with partition manufacturer.

F. FINISH SURFACE

1. Materials: Manufacturer's standard mildew-resistant vinyl, complying with CFFA-W-101-A for Type II material.

G. SEALS

1. Vertical Seals: Deep nesting, interlocking astragals mounted on each edge of panel with continuous vinyl acoustical seal.
2. Horizontal Top Seals: Continuous-contact extruded vinyl or mechanical retractable vinyl-faced seal exerting consistent pressure on track when extended.
3. Horizontal Bottom Seals: Retractable seal exerting positive pressure downward ensuring horizontal and vertical sealing and resisting panel movement.
 - a. Extension/retraction of bottom seal automatically actuated by movement of partition.
Clearance between retracted seal and floor finish shall be not less than 1-1/2 inch.
4. Final Closure: Retractable floor seals set automatically when panels are flattened in the open.

H. ACCESSORIES

1. Storage Pocket Door: Full height at end of partition runs to conceal stacked partition, of same basic design, materials, thickness, and acoustical qualities as panels. Hinges in finish to match other exposed hardware, with acoustical seals at soffit, floor, and jambs.
 - a. Hardware: Manufacturer's standard method to secure pocket door in closed position.
 - b. Provide hook into wall of pocket area for storage of any special tools required.

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SECTION 10800

TOILET AND BATH ACCESSORIES

A. QUALITY ASSURANCE

1. Comply with ADA CABO/ANSI A117.1 for local requirements for handicapped accessibility.

B. WARRANTY

1. Warranty: Submit a written warranty executed by mirror manufacturer, agreeing to replace any mirrors that develop visible silver spoilage defects within warranty period.
2. Warranty Period: 15 years from date of Substantial Completion.

C. MATERIALS, GENERAL

1. Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 0.034-inch (22-gage) minimum thickness.
2. Brass: Leaded and unleaded, flat products, ASTM B 19; rods, shapes, forgings, and flat products with finished edges, ASTM B 16; Castings, ASTM B 30.
3. Sheet Steel: Cold-rolled, commercial quality ASTM A 366, 0.04-inch (20-gage) minimum. Surface preparation and metal pretreatment as required for applied finish.
4. Galvanized Steel Sheet: ASTM A 527, G60.
5. Chromium Plating: Nickel and chromium electro-deposited on base metal, ASTM B 456, Type SC 2.
6. Baked Enamel Finish: Factory-applied, gloss white, baked acrylic enamel coating.
7. Mirror Glass: Nominal 0.23-inch thick, conforming to ASTM C 1036, Type I, Class 1, Quality q2, and with silvering, electro-plated copper coating, and protective organic coating.
8. Galvanized Steel Mounting Devices: ASTM A 153, hot-dip galvanized after fabrication.
9. Fasteners: Screws, bolts, and other devices of same material as accessory unit, or of galvanized steel where concealed.

D. PAPER TOWEL DISPENSERS

1. Surface-Mounted Towel Dispensers: Scott Model #09755 (Grainger Catalog No. 24528).

E. TOILET TISSUE DISPENSERS

1. Roll-In-Reserve Dispenser: Fort Howard No. 578-93 (Grainger Catalog No. 1CF35).

F. WASTE RECEPTACLES

1. Half-round Waste Receptacle (21 gal.): Rubbermaid Model No. 3520.

G. GRAB BARS

1. Stainless Steel Type: Provide grab bars with wall thickness not less than 0.05 inch (18 gage) and as follows:
 - 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. Provide swing away grab bar as required by the State of Connecticut.

H. SANITARY NAPKIN VENDORS

1. General: Fabricate cabinet of stainless steel, not less than 0.034-inch (22-gage) thick, all-welded construction. Provide door of seamless stainless steel, minimum 0.05-inch (18-gage) thick, with returned edges and equipped with tumbler lockset. Provide identification reading "Napkins" and "Tampons" at coin slots; brand name advertising is not allowed. Capacity not less than 15 napkins and 20 tampons.
 - a. Mounting: Surface-mounted type.
 - b. Operation: No coin (free) operation.

I. SANITARY NAPKIN DISPOSAL UNITS

1. Surface-Mounted Type: Fabricate of stainless steel with seamless exposed walls, tightly self-closing top cover and locking bottom panel with continuous, stainless steel piano hinge.

J. SOAP DISPENSERS

1. Soap Dispenser: Go-Jo #PRO-2000 (Grainger Catalog No. 3U599).

K. MISCELLANEOUS ACCESSORIES

1. Wire Shelves: 3M locking wire shelves for 3M products (Grainger Catalog No. 2BV54).
2. Chemical Management System: 3M twist-on chemical management system (Grainger Catalog No. 24692).
3. Closet Organizer/Tool Rack: Rubbermaid Model No. 1993 (Grainger Catalog No. 4W307).

L. MIRROR UNITS

1. Stainless Steel Framed Mirror Units: Fabricate frame with angle shapes not less than 0.05 inch (18 gage), with square corners mitered, welded, and ground smooth. Provide in No. 4 satin polished finish.
2. Fixed-Tilt, Stainless Steel Framed Mirror Units: Fabricate frame of not less than 0.04-inch (20-gage) stainless steel, with all joints mitered, welded, and ground smooth. Construct frame so that taper is not less than 3 inches from top to bottom.

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SECTION 10900

TEMPORARY CONTAINMENT MATERIAL

A. ACCEPTABLE MANUFACTURERS (NO SUBSTITUTIONS)

1. Max Katz Bag.
2. Hippwrap Containment Co.

B. CONTAINMENT MATERIAL

1. Protection of interior spaces and equipment that has been properly secured; segregation of discrete work areas from non-work areas, deemed necessary by the Owner shall be accomplished utilizing Owner-approved containment plastic.
2. Containment plastic shall be "MaKa Flame Retardant Poly," as manufactured by Max Katz Bag, Co. or "Hippwrap Polyethylene Film," 9 mil thickness, as manufactured by Hippwrap Containment Co.
3. Submittal of appropriate MSDS, NFPA 701 test data, and a 12 inch x 12 inch sample of the product to be used shall be made to the Owner prior to each proposed use.

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