SECTION 10505

METAL LOCKERS

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section describes the requirements for furnishing and installing lockers and fixed benches.

1.02 REFERENCE STANDARDS

A. Leadership in Energy and Environmental Design (LEED), www.usgbc.org/LEED (United States Green Building Council (USGBC).

1. LEED – NC v2.2 Reference Guide, first edition, dated December 2006.

1.03 SUBMITTALS

A. Refer to Section 01352 – LEED Requirements for LEED related submittal requirements.

B. Product Data: Manufacturer's technical data and installation instructions for metal lockers.

C. Shop Drawings: Show details, method of installation, fillers, trim, and accessories. Include locker numbering sequence information.

D. Samples: Submit color samples on squares of same metal to be used for fabrication of lockers.

1.04 QUALITY ASSURANCE

A. Uniformity: Provide each type of metal locker as produced by a single manufacturer, including mounting accessories, fittings, and fastenings.

1.05 ENVIRONMENTAL QUALITY ASSURANCE

A. Metal lockers shall have a minimum recycled content of 25-percent.

B. Applicable LEED Credits: Refer to Section 01352.

1. Credit MRc4 – Recycled Content.

1.06 JOB CONDITIONS

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

1.07 WARRANTY

A. Warrant lockers to be free from defects in materials and workmanship for a period of 10-years from the date of Substantial Completion. This warranty shall be in addition to and not a limitation of other rights the Owner may have against the Contractor under the Contract Documents.

PART 2 - PRODUCTS

2.01 APPROVED MANUFACTURERS

A. Republic Storage Systems "Heavy-Duty Corridor" or equal by Interior Steel Equipment Co., List Industries, Inc., Lyon Metal Products, Medart, Inc., Penco Products, Inc. or approved equal.

2.02 MATERIALS

A. Sheet Steel: Mild cold-rolled and leveled steel, free from buckle, scale, and surface imperfections.

B. Fasteners: Cadmium, zinc, or nickel plated steel; slotless exposed bolt heads; self-locking nuts or lock washers for nuts on moving parts.

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

2.03 LOCKER FABRICATION

A. Construction: Lockers shall be built on the unit principle, each locker shall have an individual door and frame, an individual top, bottom, back and shelves with common intermediate uprights separating units.

B. Door Frames: 16-gauge, formed into 1-inch wide face channel shapes with a continuous vertical door strike integral with the frame on both sides of the door opening. Double, triple or four tier locker cross frame members shall be 16-gauge channel shaped securely welded to vertical framing members to ensure a square and rigid assembly. Intermediate cross frame members are not required on box lockers.

C. Doors: 16-gauge or 18-gauge steel for short or narrow doors as standard with locker manufacturer, formed with a full channel shape on the lock side to fully conceal the lock bar, channel formation on the hinge side and right angle formation across the top and bottom. Single tier doors 60- and 72-inches in height and 18-inch and wider doors shall have a diagonal reinforcing angle welded to inner surface. Doors for box lockers 3, 4, 5 and 6 openings high shall be 16- or 18-gauge steel and shall be formed with right angle flanges on all four sides. Locker doors shall be ventilated by louvers on the face of each door, top and bottom.

D. Pre-Locking Device: All tiered lockers shall be equipped with a positive automatic pre-locking device whereby the locker may be locked while door is open and then closed without unlocking and without damaging locking mechanism.

E. Latching: Latching shall be a one-piece, pre-lubricated spring steel latch, completely contained within the lock bar under tension to provide rattle-free operation. The lock bar shall be of pre-painted, double-channel steel construction held laterally in the door channel by means of non-removable self-formed retainers pierced from the door. There shall be three latching points for lockers over 42-inches high and two latching points for all tiered lockers 42-inches and under in height. Frame hooks to accept latching shall be of heavy gauge steel, set close in and welded to the door frame. Continuous vertical door strike shall protect frame hooks from door slam damage. The impact caused by the door closing shall be absorbed by a soft rubber silencers securely installed on each frame hook. Box locker doors shall be equipped with a padlock hasp and a stainless steel strike plate with an integral handle pull or built-in locks as directed by the Architect.

F. Handles: Handle parts shall be made from zinc die cast material. The fixed case shall be attached to the door with two hex head screws and a shock absorbing stud. The case shall fully shield the lifting trigger from below. The lifting trigger shall have two right angle lugs that insert into the lock bar without the use of a fastening device. The lifting trigger shall be equipped with rubber silencers at top and bottom to prevent metal-to-metal contact. The padlock attachment with 3/8-inch' diameter hole shall be positioned so that the fixed handle case provides a padlock strike. The handle design shall be free of openings or surfaces that permit leverage to be applied.

G. Hinges: 2-inches high, 5-knuckle, full loop, tight pin style, securely welded to frame and double riveted to the inside of the door flange. Locker doors 42-inches high and less shall have two hinges. Doors over 42-inches high shall have three hinges.

H. Body: 24-gauge upright sheets, backs, tops, bottoms and shelves. Tops, bottoms and shelves flanged on all four sides; backs flanged on two sides. Uprights shall be offset at the front and flanged at the rear to provide a double lapped rear corner. Bolts and nuts shall be zinc plated.

I. Interior Equipment: Single tier lockers over 42-incheshigh shall have one hat/book shelf. Other tiered lockers do not require shelves. Single, double and triple tier lockers shall have one double prong back hook (single prong in 9-inch width) and two single prong wall hooks in each compartment. Hooks shall be made of steel, formed with ball points, zinc-plated and attached with two bolts or rivets. Lockers under 20-inches high are not equipped with hooks.

J. Number Plates: Each locker shall have a polished aluminum number plate with black numerals not less than ½-inch high. Plates shall be attached with rivets to the door face.

K. Continuous Sloping Tops: Minimum 20-gauge sheet steel, approximately 25-deg. pitch, in lengths as long as practicable but not less than 4 lockers. Provide closures at ends. Finish to match lockers, unless otherwise indicated.

L. Filler Panels: Provide filler panels where indicated or required for a complete installation, of not less than 18-gauge steel sheet, factory-fabricated and finished to match locker units.

M. Color: Doors and exposed body parts shall be finished in colors selected by the Architect from manufacturer's complete color range. Non-exposed body parts shall be finished in manufacturer's standard Tan color.

N. Assembly: Locker assembly shall be accomplished by the use of zinc plated, low round head, slotless, fin neck machine screws with hex nuts, producing a strong mechanical connection.

O. Locker Sizes and Configuration: 12-inches wide x 12-inches deep x 60-inches high, single tier and double tier lockers as indicated.

2.06 LOCKER BENCHES

A. Provide bench units with overall assembly height of 17-1/2-inches.

B. Bench Tops: Manufacturer's standard one-piece units, with rounded corners and edges

1. Size: Minimum 9-1/2-inches wide by 1-1/4-inches thick except provide minimum 20-inch-wide tops where accessible benches are indicated.

2. Laminated clear hardwood with one coat of clear sealer on all surfaces and one coat of clear lacquer on top and sides.

C. Fixed Pedestals: Manufacturer's standard supports, with predrilled fastener holes for attaching bench top and anchoring to floor, complete with fasteners and anchors, and as follows:

1. Tubular Steel: 1-1/2-inch-diameter steel tubing threaded on both ends, with standard pipe flange at top and bell-shaped cast-iron base; with baked-enamel or powder-coat finish; anchored with exposed fasteners.

a. Color: As selected by Architect from manufacturer's full range.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install metal lockers in accordance with manufacturer's instructions for plumb, level, rigid, and flush installation.

B. Space fastenings 48-inches o.c., unless otherwise recommended by manufacturer, and apply through back-up reinforcing plates where necessary to avoid metal distortion; conceal fasteners.

C. Install trim, sloping top units, and metal filler panels where required, using concealed fasteners to provide flush, hairline joints against adjacent surfaces.

D. Fixed Locker Benches: Provide no fewer than two pedestals for each bench, uniformly spaced not more than 72-inches apart. Securely fasten tops of pedestals to undersides of bench tops, and anchor bases to floor.

3.02 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; replace units that cannot be restored to factory-finished appearance. Use only materials and procedures recommended or furnished by locker manufacturer.

END OF SECTION

SECTION 10520

FIRE PROTECTION SPECIALTIES

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section describes the requirements for furnishing and installing fire extinguishers and fire extinguisher cabinets.

B. Related Sections:

1. Field painting doors and trim is specified in Section 09900.

1.02 SUBMITTALS

A. Product Data: Furnish for each type of product specified. 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.

1.03 QUALITY ASSURANCE

A. Obtain fire extinguishers and cabinets from one source from a single manufacturer.

B. UL-Listed Products: Provide fire extinguishers which are UL-listed and bear UL "Listing Mark" for type, rating, and classification of extinguisher specified.

PART 2 - PRODUCTS

2.01 FIRE EXTINGUISHERS

A. General: Provide one fire extinguisher for each extinguisher cabinet.

B. Fire Extinguishers: Multi-purpose dry chemical type; UL-rated 2A:10BC, 5-lb. nominal capacity, in enameled steel container.

2.02 FIRE EXTINGUISHER CABINETS

A. Approved Manufacturers: Larsen's Manufacturing Co. “Ambassador Series” or approved equal.

B. Construction: Manufacturer's standard enameled steel box with white baked enamel finish.

C. Door and Trim: One piece, constructed of cold-rolled steel with white baked acrylic enamel finish to be field painted as specified in Section 09900. Doors shall have a tubular, hollow-metal design.

D. Cabinet Type: Fully recessed wherever possible. Where fully recessed is not possible, provide trim piece to match fully recessed cabinets.

E. Door Style: Vertical Duo panel with tempered safety glass.

F. Door Hardware: Provide satin finish pull handle with self-adjusting roller catch and continuous piano hinge.

G. When installed in fire-rated partitions, provide manufacturer's standard fire-rated box consisting of a double wall of 18-gauge cold-rolled steel with baked enamel finish with 5/8-inch thick fire barrier material in space between double walls.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install items in locations and at mounting heights indicated, or if not indicated, at heights to comply with applicable regulations of governing authorities.

B. Prepare recesses in walls for fire extinguisher cabinets as required by type and size of cabinet and style of trim in compliance with manufacturer's instructions.

C. Securely fasten fire extinguisher cabinets to structure, square and plumb, to comply with manufacturer's instructions.

END OF SECTION

SECTION 10532

TENSIONED FABRIC

PART 1 - GENERAL

1.01 DESCRIPTION

A. This Section describes the requirements for furnishing and installing tensioned fabric.

B. Related Sections:

1. Metal fabrications are specified in Section 05500.

2. Painting is specified in Section 09900.

1.02 SUBMITTALS

A. Shop Drawings: Furnish shop drawings showing fabric layouts. Include location, type, and spacing of supports and method of attaching fabric to framing.

B. Samples: Fabric color samples for verification of initial selections.

1.03 QUALITY ASSURANCE

A. Fabricator's Qualifications: Fabricator shall have completed at least ten installations of similar design and complexity within the last 3-years.

1.04 WARRANTY

A. Tensioned fabric shall be free from defects in materials and workmanship and fabric shall be warranted to be free from color fade for 10-years from date of Substantial Completion. This warranty shall be in addition to and not a limitation of other rights the Owner may have against the Contractor under the Contract Documents.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Fabric: Polyfab USAQ "Comtex" Extra Heavy Duty Knitted Shadecloth or approved equal, color to be selected by the Architect.

1. Fabric shall meet the following fire standards: NFPA 701, ASTM E84 Class A and California State Fire Marshal Section 13115.

B. Fasteners: Provide screws, nuts, bolts and other required fastening devices of galvanized steel or stainless steel.

2.02 FABRICATION

A. Fabric:

1. Fabricate materials to fit framing; hem and sew as standard with the manufacturer.

2. Make seams as inconspicuous as possible, flat, and located only where approved by Architect.

3. Use number of stitches per inch and type of stitches as recommended by manufacturer. Hand stitch where required.

4. Install stainless steel grommets at spacing recommended by the manufacturer and approved by the Architect.

5. Fabric shall be smooth and free from buckles or waves; edges shall be even, true, and weather-tight.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install tensioned fabric in locations indicated in accordance with manufacturer's instructions and reviewed shop drawings.

B. Attach fabric securely to frame to withstand required wind loads.

C. Adjust fabric to ensure straightness of seams and tightness around frame. Wrinkles and sag will not be acceptable.

D. Tension fabric as required to result in fabric shape approved by the Architect.

3.02 ADJUSTMENTS AND CLEANING

A. Repair or replace damaged fabric components, and clean soiled fabric as directed by the Architect.

END OF SECTION