## SECTION 10 51 10 ATHLETIC LOCKERS

#### PART 1 GENERAL

#### 1.1 RELATED DOCUMENTS

A. The provisions of the General Conditions, Supplementary Conditions, and the Sections included under Division 1, General Requirements, are included as a part of this Section.

#### 1.2 SUMMARY

- A. The Work required under this Section consists of new lockers and related items necessary to complete the Work, including:
  - 1. Athletic lockers
- B. Related Work Specified Elsewhere
  - 1. Section 03 30 00 Cast-in-Place Concrete for concrete locker base
- C. Refer to Section 01 60 00 for Alternates that may affect the Work of this Section

### 1.3 REFERENCES

- A. ASTM A653/A653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy coated (Galvannealed) by the Hot-Dip Process.
- B. FBC Florida Building Code
- C. NAAMN National Association Architectural Metal Manufacturers

#### 1.4 SUBMITTALS

- A. Submit product data indicating construction details, material descriptions, dimensions of individual components and profiles and finishes for each type of locker.
- B. Submit shop drawings prior to fabrication: Shop drawings shall indicate type of material, gauges of metal, reinforcement, filler, finishing strips, and other details of construction.
  - 1. Show methods and details of attachment, layout of the lockers, and devices furnished by others.
  - 2. The shop drawings shall identify the locations of each numbering system series is installed.
- C. Submit samples of manufacturer's full color line, including standard and optional colors (minimum of 18 colors).

## 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Do not deliver lockers until spaces to receive them are clean, dry, and ready for locker installation.
- B. Protect lockers from damage during delivery, handling, storage, and installation.
- C. Deliver master keys, control keys, and combination control charts to owner.

#### 1.6 COORDINATION

A. Coordinate sizes, locations, and layout of concrete and metal bases.

## PART 2 PRODUCTS

## 2.1 MANUFACTURERS

- A. May use one of the following manufacturers, providing their product equals or exceeds the quality specified; and are products of the type, size, function, and arrangement required:
  - 1. Superior, List Industries, Inc., Deerfield Beach, Florida
  - 2. Lyon Metal Products, Aurora, Illinois
  - 3. Republic Storage Systems Co., Canton, Ohio
  - 4. Penco Products, Inc., Skippack, Pennsylvania
  - 5. ASI Storage Solutions Inc., Eastanollee, Georgia
  - 6. AMP, Storage Craft, Apopka, FL
  - 7. Patterson Pope, West Palm Beach, FL
  - 8. Or approved equal

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- B. Following is the procedure for obtaining approval of products from other manufacturers.
  - 1. The "Substitution Request Form" and complete technical data for evaluation must accompany requests for Architect's approval.
  - 2. All materials for evaluation must be received at least 10-days prior to bid due date.
  - 3. Architect shall issue addendum for additional approved manufacturers.

## 2.2 LOCKER TYPES

- Refer to the Drawings for the various types, sizes, and layout of lockers required.
- B. Provide at least 2% to complying with the Florida Accessibility Code.

#### 2.3 MATERIALS

A. Cold Rolled Steel Sheet: Use A60 Galvannealed meeting ASTM A653/A653M, suitable for exposed applications, and stretcher leveled or roller leveled to stretcher leveled flatness.

## 2.4 ATHLETIC LOCKERS

- A. Body: Form tops and bottoms from minimum 16-gauge steel sheet.
  - 1. Lockers that back to a wall: Form from minimum 18-gauge solid steel sheet, flanged for double thickness at back vertical corners.
  - 2. Lockers back to back: Form from minimum 13-gauge thick ½" flattened expanded metal welded to minimum 12-gauge steel angle or minimum 16-gauge steel channel frame.
  - 3. Locker exposed sides: Form from minimum 13-gauge thick ½" flattened expanded metal welded to minimum 12-gauge steel angle or minimum 16-gauge steel channel frame.
- B. Frames: Form welded frames from minimum 16-gauge steel sheet channels or minimum 12-gauge steel angles.
  - 1. Latch Hooks: Form from minimum 12-gauge steel welded or riveted to doorframes.
  - 2. Cross Frames: Form intermediate channel cross frames between tiers from minimum 16-gauge steel sheet, and weld to vertical frame members.
- C. Steel Doors: 14-gauge diamond perforated primed single sheet with single bends at the top and bottom, and double bends at the sides.
  - 1. Provide manufacturer's standard steel sheet lock panel welded to each side of door.
- D. Shelves: Provide hat shelf in single tier units, fabricated from minimum 16-gauge formed steel sheet, flanged on all edges.
- E. Hinges:
  - 1. All doors to be side hinged.
  - 2. Heavy duty, minimum 13 gauge steel, full loop, 3-1/3" 7-knuckle weld to inside of doorframe and door and completely concealed and tamper resistant when door is closed. a. Alternate hinge; (2") 18-gauge CRS 5-knuckle full loop hinge.
  - 3. Provide at least 3-hinges for each door more than 42" high and at least 2-hinges for each door 42" high or less.
- F. Recessed Handle and Latch: Manufacturer's standard housing, formed from 0.0359" thick nickel plated steel or stainless steel, with integral door pull, recessed for latch lifter and locking devices; non-protruding latch lifter; and automatic, pre-locking, pry resistant latch, as follows:
  - 1. Provide minimum 3-point latching for each door more than 48" high, minimum 2-point latching for each door 48" 20" high and 1 point for each door less than 20" high.
  - 2. Provide a through the door finger pull padlock hasp.

# 2.5 LOCKER ACCESSORIES

#### A. Hooks:

- 1. Manufacturer's standard zinc plated, ball pointed steel.
- Provide one double prong ceiling hook, and not fewer than 2-single prong wall hooks for units with minimum 36" tall door.
- 3. Attach hooks with at least 2-fasteners.
- 4. Provide galvanized steel rod in lieu of ceiling hook for lockers 18" deep or greater.
- B. Each locker opening shall have an aluminum number plate with 5/8" high embossed numerals, attached centered near top, or door with 2-aluminum rivets.
- C. Continuously Sloping Tops:

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- 1. Manufacturer's standard, fabricated from minimum 16-gauge steel sheet, for installation over lockers with separate flat tops.
- 2. Fabricate tops in lengths as long as practicable, without visible fasteners at splice locations, finished to match lockers.
- 3. Provide fasteners, filler plates, supports, and closures, as follows:
  - a. Provide vertical end type closures.
  - Sloped top corner fillers, mitered.

#### D. Recess Trim:

- 1. Provide manufacturer's standard; fabricated from minimum 18-gauge steel sheet, minimum 2-1/2" face width, and finished to match lockers.
- 2. Fabricate trim in lengths as long as practicable.

## E. Filler Panels:

- 1. Manufacturer's standard fabricated from minimum 18-gauge steel sheet in an unequal leg angle shape, and finished to match lockers.
- 2. Provide slip joint filler angle formed to receive filler panel.
- F. Boxed End Panels: Manufacturer's standard; fabricated from minimum 16-gauge steel sheet, with 1" wide edge dimension, finished to match lockers, and designed for concealing exposed ends of non-recessed lockers.

## 2.6 LOCKER BENCHES (PEDESTAL MOUNTED)

- A. Bench Tops: Provide manufacturer's standard one piece units, of the following material, minimum 9-1/2" wide by 1-1/4" thick, with rounded corners and edges:
  - 1. Provide laminated maple with one coat of clear sealer on all surfaces, and one coat of clear lacquer on top and sides.
- B. Pedestals: Provide manufacturers standard pedestal supports, with predrilled fastener holes, complete with fasteners and anchors, and as follows:
  - 1. Type: Tubular steel, minimum 1-1/4" diameter, with minimum 0.1345" thick steel flanges welded at top and base, floor anchored similar to:
    - a. 4820 Aluminum Pedestal by List Industries
    - b. 60827H Stainless Steel pedestal by Penco
  - 2. May provide and install a trapezoidal tuber pedestal similar to the 4850 Hi tec Stain Less steel pedestal by List Industries.
  - 3. Color: As selected by Architect from manufacturer's full range.
  - Furnish a minimum of 2-pedestals for each bench, with pedestal spacing not more than 72" oc.

## 2.7 FINISHES, GENERAL

- Finish all steel surfaces and accessories, except pre-finished stainless steel and chrome plated surfaces.
- B. Comply with NAAMM "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- D. Appearance of Finished Work:
  - 1. Variations in appearance of abutting or adjacent pieces are acceptable if they are within 1/2 of the range of approved samples.
  - 2. Noticeable variations in the same piece are not acceptable.
  - 3. Variations in appearance of other components are acceptable if they are within the range of approved samples and are assembled or installed to minimize contrast.

## 2.8 STEEL SHEET FINISHES

- A. Surface Preparation:
  - 1. Clean surfaces of dirt, oil, grease, mill scale, rust, and other contaminants that could impair paint bond.
  - 2. Use manufacturer's standard methods.

- B. Baked Enamel Finish: Immediately after cleaning and pre-treating, apply manufacturer's standard baked enamel finish consisting of a thermosetting topcoat.
  - Comply with paint manufacturers written instructions for applying and baking to achieve a minimum dry film thickness of 1.4 mils on doors, frames, and legs, and 1.1 mils elsewhere
  - 2. Color and Gloss: As selected by Architect from manufacturer's full range.
    - Interior shall be same color as exterior.

# 2.9 FABRICATION

- A. Fabricate each locker with an individual door and frame, individual top, bottom, back, and shelves, and common intermediate uprights separating compartments.
  - 1. May fabricate using a common top, back, and bottom in units not to exceed 4-lockers.
- B. All Welded Construction:
  - 1. Pre-assemble lockers by welding all joints, seams, and connections, with no bolts, screws, or rivets used in assembly.
  - 2. Grind exposed welds flush.
- C. Fabricate lockers square, rigid, and without warp with metal faces flat and free of dents or distortion.
  - 1. Make exposed metal edges free of sharp edges and burrs, and safe to touch.
  - 2. Weld frame members together to form a rigid, one-piece assembly.
  - Form locker body panels, doors, shelves, and accessories from one-piece steel sheet, unless otherwise indicated.

## PART 3 EXECUTION

#### 3.1 INSTALLATION

- A. Install Work level, plumb, true, and flush in strict accordance with the manufacturer's specifications, instructions, and recommendations.
  - 1. Installation shall include the proper assembly of lockers and their installation in accurate position and alignment.
  - 2. Properly install all screws and other assembly devices and draw tight.
  - 3. Install end panels and filler plates to complete each section of the assembly.
  - 4. Install finishing strips required to bring the completed assembly into proper finished condition.
- B. Connect groups of all welded lockers together with standard fasteners, with no exposed fasteners on face frames.
- C. Anchor lockers to concrete curbs and walls at intervals recommended by manufacturer, but not more than 36" on center.
  - 1. Install anchors through backup reinforcing plates where necessary to avoid metal distortion, using concealed fasteners.
  - 2. Lockers shall be leveled with concealed cedar shims, where necessary, to provide for irregularities in the base.
  - 3. Secure lockers with to substrate materials with minimum pullout force of 100 lb
  - 4. Bolt adjoining locker units together to provide rigid installation.
- D. Fit exposed connections of trim, fillers, and closures accurately together to form tight, hairline joints, with concealed fasteners and splice plates.
  - 1. Attach recess trim to recessed lockers with concealed clips.
  - 2. Attach sloping top units to lockers, with closures at exposed ends.
- E. Attach boxed end panels with concealed fasteners of non-recessed lockers.
- F. Installers shall layout and install benches, as shown on the drawings.
  - Comply with the requirements for "accessible route" as required by the Florida Accessibility Code within the locker room(s).

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### 3.2 FIELD OUALITY CONTROL

- A. Protect all new (and existing, if adjacent) lockers installed from scratches or other imperfections or defects up until the time of final acceptance of the building.
- B. Replace any defective work of material occurring prior to final acceptance of the building, when requested by the Architect, without additional cost to the Owner.

## 3.3 APPEARANCE

- A. Variations in appearance of abutting or adjacent pieces are acceptable if they are within ½ of the range of approved samples.
- B. Noticeable variations in the same piece are not acceptable.
- C. Variations in appearance of other components are acceptable if they are within the range of approved samples and are assembled or installed to minimize contrast.

#### 3.4 CLEANING

- A. Protect all new (and existing, if adjacent) lockers installed against scratches or other imperfections or defects up until the time of final acceptance of the building.
- B. Replace any defective work of material occurring prior to final acceptance of the building without additional cost to the Owner.

**END OF SECTION**