

LOCKERS

INVITATION FOR BIDS

Lockers, Equipment, & Supplies BID #21-402

DEBOURGH LOCKERS

These specifications shall be regarded as MINIMUM and lockers constructed of lighter material or of other than ALL WELDED construction will not be acceptable.

Corridor (KD) Lockers:

2 – Tiers, Heavy Duty KD Lockers, 3 frames, 12"x15"x36" opening (6 openings), single point latching (recessed in cup), solid backs, sides and partitions, vented (20 – 25%) doors, finish coat shall be TGIC pure polyester powder coat (no enamel or liquid paints)

Optional Items: Sloped Tops and 4" Metal Bases (price each separately)

Corridor (Fully Formed) Lockers:

2 – Tiers, Fully Formed, Unibody, All-Welded Lockers, 3 frames, 12"x15"x36" (6 openings), single point latching (recessed in cup), solid backs, sides and partitions, vented (20 – 25%) doors, four sided continuous door strike, 5" wide back panel door stiffener, finish coat shall be TGIC pure polyester powder coat (no enamel or liquid paints)

Optional Items: Sloped Tops (fully boxed, attached at factory), 4" metal base (price each separately)

Athletic/Team (Fully Formed) Lockers:

2 – Tiers, Fully Formed, Unibody, All-Welded Lockers, 3 frames, 12"x15"x36" (6 openings), three point latching, solid backs, expanded metal sides and partitions, mess doors, four sided continuous door strike, finish coat shall be TGIC pure polyester powder coat (no enamel or liquid paints)

Optional Items: Sloped Tops (fully boxed, attached at factory), (price separately)

Athletic/Team (Full Framed) Lockers:

2 – Tiers, Lockers to be constructed using 1" x 1" x 1/8" pickled angle iron frame (all-welded), 3 frames, 12"x16"x36" (6 openings), three point latching, solid backs, expanded metal sides and partitions, mess doors, finish coat shall be TGIC pure polyester powder coat (no enamel or liquid paints)

Optional Items: Sloped Tops (fully boxed, attached at factory), (price separately)

Athletic/PE (Full Framed) Lockers:

6 – Tiers, Lockers to be constructed using 1" x 1" x 1/8" pickled angle iron frame (all-welded), 2 frames, 12"x16"x12" (12 openings), 1 frames, 12"x16"x36" (2 openings) three point latching, solid backs, expanded metal sides and partitions, mess doors, finish coat shall be TGIC pure polyester powder coat (no enamel or liquid paints)

Optional Items: Sloped Tops (fully boxed, attached at factory), (price separately)

INVITATION FOR BIDS

Lockers, Equipment, & Supplies

BID #21-402

LIST INDUSTRIES LOCKERS:

PART 1 – GENERAL-Fully Framed

#1 Junior Varsity and #2 PE Lockers

1.01 SCOPE OF WORK

A. DESCRIPTION: Furnish and install factory-assembled Heavy-Duty All-Welded Metal Lockers, complete, as shown and specified per contract documents.

1.02 QUALITY ASSURANCE

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

B. FABRICATOR QUALIFICATIONS: Firm experience (minimum 5 years) in successfully producing the type of metal lockers indicated for this project, with sufficient production capacity to produce required units without causing delay in the work.

C. INSTALLER QUALIFICATIONS: Engage an experienced (minimum 2 years) installer who has successfully completed installation of the type of metal lockers and extent to that indicated for this project.

1.03 SUBMITTALS

A. GENERAL: Refer to Section 01300 - SUBMITTALS

B. SHOP DRAWINGS: Submit drawings showing locker types, sizes, quantities, including all necessary details relating to anchoring, trim installation and relationship to adjacent surfaces.

C. COLOR CHARTS: Provide color charts showing manufacturer's available colors (minimum 24). Provide metal samples if requested.

D. NUMBERING: Locker numbering sequence will be provided by the approving authority and noted on approved shop drawings returned to the locker contractor.

1.04 PRODUCT HANDLING

A. GENERAL: All work shall be fabricated in ample time so as to not delay construction process.

B. DELIVERY: All materials shall be delivered to the site at such a time as required for proper coordination of the work. Materials are to be received in the manufacturer's original, unopened packages and shall bear the manufacturer's label.

C. STORAGE: Store all materials in a dry and well ventilated place adequately protected from the elements.

1.05 GUARANTEE

A. GUARANTEE - WARRANTY: Submit upon completion of the work, in the form prescribed under section 00670 - GUARANTEE FORM, a LIFETIME WARRANTY covering all defects in materials and workmanship excluding finish, damage resulting from deliberate destruction and vandalism.

PART 2 - PRODUCTS

2.01 MATERIALS

A. AVAILABLE MANUFACTURERS: Subject to compliance with the design, material, method of fabrication and installation as required in this specification section or modified as shown on drawings. Manufacturers offering products which may be incorporated in the work include, but are not limited to, the following:

1. List Industries Inc. (Basis of Design)

B. STEEL:

1. Steel Sheet: All sheet steel used in fabrication shall be prime grade free from scale and imperfections and capable of taking a heavy coat of high gloss baked enamel.

2. Expanded Metal: 3/4" mesh flattened carbon steel, 13 gauge minimum.

C. FASTENERS

1. General: Cadmium, zinc or nickel plated steel; bolt heads, slotless type; self locking nuts or lock washers.

D. EQUIPMENT:

1. Hardware: Hooks and hang rods of cadmium plated or zinc plated steel or cast aluminum.

2. Handle: Stainless Steel recessed handle.

3. Number Plates: To be polished aluminum with not less than 3/8" high etched numbers attached to door with

two aluminum rivets.

4. Hat Shelves, Horizontal Intermediate Shelves and Bottoms: Shall be 16 gauge Electro galvanized Steel.

2.02 FABRICATION

A. GENERAL: All lockers shall be factory-assembled, of all MIG welded construction, in multiple column units to meet job conditions. Assembly of locker bodies by means of bolts, screws, or rivets will not be permitted. Welding of knockdown locker construction is not acceptable. Grind exposed welds and metal edges flush and make safe to touch.

B. FINISHING: All locker parts to be cleaned and coated after fabrication with a seven stage zinc/iron phosphate solution to inhibit corrosion, followed by a coat of high grade enamel electrostatically sprayed and baked at 325 degrees Fahrenheit for a minimum of 30 minutes to provide a tough durable finish. Color to be selected from manufacturer's standard list of colors.

1. Two-Tone Color Combination: Shall be at no additional cost the locker body, frame and trim chosen

from one standard color and the doors chosen from a second standard color.

C. LOCKER TYPES - VENTILATION SCHEDULE:

1. General: Lockers shall be "SUPERIOR FULLY-FRAMED ALL-WELDED ATHLETIC LOCKERS" as manufactured by List Industries Inc. or approved equal.

2. Ventilation Schedule:

a. Type: _____ Tier

b. Size: _____" wide x _____" deep x _____" high

c. Ventilation:

1. Doors: Diamond perforated

2. Sides: 3/4" flattened 13 gauge expanded metal

3. Backs, Tops, bottoms and Shelves: Solid

D. FRAME / VERTICAL SIDE PANELS: Shall be of 13 gauge flattened expanded metal or 18 ga. solid sheet steel (see ventilation schedule above) framed by 16 gauge hollow "T" tubular sections and channel frame members designed to enclose all four edges of the side panel with the entire assembly MIG welded to form a rigid frame for each locker. The channel frame members are welded to the front and rear vertical frame members to create and anchor bearing surface of 1-1/4 inches wide x the depth of the locker at each side panel.

E. INTEGRAL FRAME LOCKER BASE: 14 gauge formed structural channels are MIG welded to the front and rear vertical side panel frame members to allow placement of locker bottom 2-3/4" above floor level.

F. WARDROBE DOORS: Doors 15" high and over to be fabricated from single sheet prime 14 gauge with 7/8" bends at top and bottom and 3/4" double bends at the sides. The channel formed by the double bend at the latch side is designed to fully conceal the lock bar. Doors over 15" wide x 20" high shall include a 4" wide 18 ga. full height door stiffener MIG welded to the hinge side along with the top and bottom door flanges. The latching mechanism shall be finger lift control type constructed of 12 gauge (minimum) steel with a nylon cover that has a generous finger pull. Spring activated nylon slide latches shall be completely enclosed in the lock channel allowing doors to close with the lock in the locked position. Locking device shall be designed for use with either built-in combination locks or padlocks. Latch hooks shall be 11 gauge (minimum) with riveted bumpers and shall be MIG welded to vertical frame member. Provide three latch hooks for doors 48" and over and two for doors under 48". See ventilation schedule above.

G. GYM DOORS: Doors 12" high and under to be top hinged. Doors to be fabricated from single sheet prime 14 gauge with 7/8" bend at top, 3/4" bend at sides and 3/4" double bend at latch point (bottom). A spring loaded electrogalvanized latch assembly shall be securely welded to the inside of the door. The latch shall be a minimum of 11 gauge, be equipped with a stainless steel spring and shall automatically engage when door is closed. Rubber bumpers shall be riveted to return bends on doors. Locking device shall be designed for use with both a padlock and built-in lock. See ventilation schedule above.

H. LOCKER HANDLE: All wardrobe doors 20" high and over shall have recessed stainless steel handle shaped to receive a padlock or built-in combination lock (padlock only for gym doors). The recessed pan shall be deep enough to have the lock be flush with the outer door face.

I. DOOR HINGES: Hinges for wardrobe doors (15" high and over) shall not be less than 3-1/2" long 13 gauge seven knuckle pin type, securely riveted to frame and welded to the door. Doors are to be secured to frame with a minimum of two tamper resistant countersunk rivets per hinge. Provide 3 hinges for doors 48" and higher and 2 for doors shorter than 48". Top hinged gym doors shall be hinged using a 3/16" diameter continuous hinge rod completely recessed into the door with a concealed fastener.

J. FLAT TOPS: Shall be formed of one piece of 16 gauge cold rolled sheet steel and shall be an integral part MIG welded to each vertical side panel frame member and be continuous to cover the full width of a multiple framed locker unit.

K. HAT SHELVES, INTERMEDIATE SHELVES AND BOTTOMS: Shall be 16 gauge Electrogalvanized steel, have double bends at front and shall engage slots in the Hollow "T" vertical frame members at all four corners and be securely welded to the frame and side.

L. BACKS: Shall be 18 gauge cold rolled sheet steel, be continuous to cover a multiple framed unit and be welded to each vertical side panel frame member.

M. LOCKER ACCESSORIES:

1. Built-In Locks (If required): All locks for entire job to be keyed to the same system.

a. Wardrobe Lockers: Master #1630 or #1670 built-in combination lock with 5 master keys.

b. Gym Lockers: Master #1670 built-in combination lock with 5 master keys.

2. Equipment: Furnish each locker with the following items, unless otherwise shown.

a. Single Tier Lockers: Hat shelf, one double prong ceiling hook and not fewer than two single prong wall hooks.

B Double and Triple Tier Lockers: One double prong ceiling hook and not fewer than two single prong wall hooks.

c. Four Tier and Gym Lockers: no hooks

3. Finished End Panels (If required): Shall be "Boxed" type formed from 16

gauge cold rolled steel with 1/2" O.D. double bends on sides and a single

bend at top and bottom with no exposed holes or bolts. End panels must

be formed with slope at top to cover the ends of the continuous slope

tops. Finish to match lockers. Provide at all exposed ends.

4. Continuous Slope Tops (If required): Not less than 20 gauge sheet steel, Approximately 18 degrees pitch, in lengths as long as practical but not less than four lockers. To be installed in addition to the integral locker flat tops with end closures for support. Finish to match lockers.

5. Fillers (If required): Provide where indicated, of not less than 20 gauge sheet steel, factory fabricated and finished to match lockers.

N. LOCKER ROOM BENCHES (If Required): Manufacturer's standard laminated maple hardwood tops 9-1/2" wide by 1-1/4" thick, in lengths as indicated. Furnish List Industries Inc. model No. 4810 heavy-duty cast iron pedestal supports not more than 6'-0" o.c., with provisions for fastening to the floor and securing to the bench. Furnish all

anchorage. Apply manufacturer's standard clear coating to bench tops and baked enamel finish painted manufacturers standard neutral color.

PART 3 - EXECUTION

3.01 INSTALLATION

A. GENERAL: Installation shall be in strict conformance with referenced standards, the manufacturer's written directions, as shown on the drawings and as herein specified.

B. PLACEMENT: Units shall be set in place, plumb, level, rigid, flush and securely attached to the wall (or bolted together if back-to-back) and anchored to the floor or base according to manufacturer's specifications.

C. ANCHORAGE: About 48" o.c., unless otherwise recommended by manufacturer, and apply where necessary to avoid metal distortion, using concealed fasteners. Friction cups are not acceptable.

D. TRIM: Sloping tops, metal fillers and end panels shall be installed using concealed fasteners. Provide flush, hairline joints against adjacent surfaces.

E. BENCHES: In compliance with manufacture's instructions.

3.02 ADJUSTMENT

A. GENERAL: Upon completion of installation, inspect lockers and adjust as necessary for proper door operation. Touch-up scratches and abrasions to match original finish.

3 MARQUIS STUDENT KNOCK-DOWN CORRIDOR LOCKERS

GENERAL

1.01 SCOPE OF WORK

A. DESCRIPTION: Furnish and install K.D. knock-down Metal Corridor and Employee Lockers, complete, as shown and specified per contract documents including metal bases, slope tops and filler panels.

1.02 QUALITY ASSURANCE

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

B. FABRICATOR QUALIFICATIONS: Firm experience (minimum 5 years) in successfully producing the type of metal lockers indicated for this project, with sufficient production capacity to produce required units without causing delay in the work.

C. **INSTALLER QUALIFICATIONS:** Engage an experienced (minimum 2 years) installer who has successfully completed installation of the type of metal lockers and extent to that indicated for this project.

1.03 SUBMITTALS

A. **GENERAL:** Refer to Section 01300 - SUBMITTALS

B. **SHOP DRAWINGS:** Submit drawings showing locker types, sizes, quantities, including all necessary details relating to anchoring, trim installation and relationship to adjacent surfaces.

C. **COLOR CHARTS:** Provide color charts showing manufacturer's available colors (minimum 24). Provide metal samples if requested.

D. **NUMBERING:** Locker numbering sequence will be provided by the approving authority and noted on approved shop drawings returned to locker contractor.

1.04 PRODUCT HANDLING

A. **GENERAL:** All work shall be fabricated in ample time so as to not delay construction process.

B. **DELIVERY:** All materials shall be delivered to the site at such a time as required for proper coordination of the work. Materials are to be received in the manufacturer's original, unopened packages and shall bear the manufacturer's label.

C. **STORAGE:** Store all materials in a dry and well ventilated place adequately protected from the elements.

1.05 GUARANTEE

A. **GUARANTEE - WARRANTY:** Submit upon completion of the work, in the form prescribed under section 00670 - GUARANTEE FORM, covering all defects in materials and workmanship excluding finish, damage resulting from deliberate destruction and vandalism under this section for a period of 2 years from the date of final acceptance by the owner.

PART 2 - PRODUCTS

2.01 MATERIAL

A. **AVAILABLE MANUFACTURERS:** Subject to compliance with the design, material, method of fabrication and installation as required in this specification section or modified as shown on drawings. Manufacturers offering products which may be incorporated in the work include, but are not limited to, the following:

1. List Industries Inc. (Basis of Design)

B. STEEL: All sheet steel used in fabrication shall be prime grade free from scale and imperfections and capable of taking a heavy coat of high gloss baked enamel.

C. FASTENERS:

1. Fasteners: Cadmium, zinc or nickel plated steel; bolt heads, slotles type; self locking nuts or lock washers.

D. EQUIPMENT:

1. Hardware: Hooks and hang rods of cadmium plated or zinc plated steel or cast aluminum.
2. Handle: Stainless Steel recessed handle.
3. Number Plates: To be polished aluminum with not less than 3/8" high etched numbers attached to door with two aluminum rivets.

2.02 FABRICATION

A. GENERAL: Fabricate lockers square, rigid and without warp, with metal faces flat and free from dents or distortion. Make all exposed metal edges safe to touch. Weld frame members together to form rigid, one-piece structure. Weld, bolt, or rivet other joints and connections as standard with manufacturer. Grind exposed welds flush. Do not expose bolts or rivet heads on fronts of locker doors or frames.

B. FINISHING: All locker parts to be cleaned and coated after fabrication with a seven stage zinc/iron phosphate solution to inhibit corrosion, followed by a coat of high grade enamel electrostatically sprayed and baked at 325 degrees Fahrenheit for a minimum of 30 minutes to provide a tough durable finish. Color to be selected from manufacturer's standard list of colors.

1. Two-Tone Color Combination: Shall be at no additional cost with the locker body, frame and trim chosen from one standard color and the doors chosen from a second standard color.

C. LOCKER TYPES - VENTILATION SCHEDULE:

1. General: Lockers shall be "SUPERIOR - MARQUIS STUDENT" as manufactured by List Industries Inc. or approved equal.
2. Student Corridor Lockers and Employee Lockers:

- a. Type: _____ tier
- b. Size: ____ " wide x ____ " deep x ____ " high.
- c. Ventilation: Doors to be solid (no ventilating louvers or perforations). All body parts solid.

D. FRAME: Fabricate of 16 gauge (minimum) channels, with integral continuous door stop/strike formed on vertical members

E. MARQUIS WARDROBE DOORS: Outer door to be fabricated from single sheet prime 14 gauge with 7/8" bends at top and bottom and 3/4" double bends at the sides with a minimum 3" wide 18 gauge full height channel door stiffener MIG welded to the inside of door face at the hinge side as well as to the top and bottom return bends.

F. MARQUIS DOOR RECESSED LOCKER HANDLE: All locker doors shall have recessed stainless steel cup and handle shaped to receive a padlock or built-in combination lock. The recess pan shall be deep enough to have the lock be flush with the outer door face. The pull handle shall be the full width of the recess pan, fabricated of stainless steel and be welded to the recess pan flush with the door face for easy opening of the locker door.

G. MARQUIS LATCH ASSEMBLY: Shall be single point rigid non-moving positive latch by means of a heavy gauge (minimum 12 gauge) latch securely welded to the 14 gauge Vertical frame member. The latch assembly must be made of a single piece of steel and have a padlock loop that inserts through the recess pan. The latch must be able to accept either a padlock or built-in combination lock. A pry resistant lug which inserts into the door shall be an integral part of the 12 gauge latch. Rubber bumpers shall be securely attached to the door strike. If built-in locks are to be used on openings 30" high or higher, a 14 gauge horizontal support channel (HSA) shall be bolted to the side panel and the back side of the latch as a reinforcement.

H. DOOR HINGES: Shall not be less than 3-1/2" long 13 gauge seven knuckle pin type, securely riveted to frame and welded to the door. Doors are to be secured to frame with a minimum of two tamper resistant countersunk rivets per hinge. Provide 3 hinges for doors 48" and higher and 2 for doors shorter than 48".

I. BODY: Fabricate back and sides of 24 gauge (minimum) sheet steel, with double flanged connections extending full height. Form top, bottom and intermediate tier dividers of 24 gauge (minimum) sheet steel with single return bends at all sides. Bolt to front horizontal frame members in addition to side panels. Form hat shelves at single tier lockers of 24 gauge (minimum) sheet steel with single bends at sides and back and a double bend at front.

J. LOCKER ACCESSORIES:

1. Locks (Please specify):

a. Built-In Combination Locks (if required): Master #165 Built-In Combination Locks (Spring Bolt)

Action) with (5) Master / Control keys.
b. Padlocks (if required): Master #1525 key-control Combination Padlock with (5) Master keys.

2. Equipment: Furnish each locker with the following items, unless otherwise shown.

- a. Single tier lockers: Hat shelf, one double prong ceiling hook and not less than three single prong wall hooks. (Two single prong wall hooks only at 9" wide)
- b. Double tier lockers: One double prong ceiling hook and not less than three single prong wall hooks. (Two single prong wall hooks only at 9" wide)
- c. Triple tier lockers: One double prong ceiling hook only.
(No hooks for 9" wide)

3. Finished End Panels (if applicable): Shall be "Boxed" type formed from 16 gauge cold rolled steel with 1/2" O.D. double bends on sides and a single bend at top and bottom with no exposed holes or bolts. End panels must be formed with slope at top to cover the ends of the continuous slope tops. Finish to match lockers. Provide at all exposed ends.

4. Continuous Slope Tops (If required): Not less than 20 gauge sheet steel, approximately 18 degrees pitch, in lengths as long as practical but not less than four lockers. To be installed in addition to the locker flat top with end closures for support. Finish to match lockers.

5. Fillers: Provide where indicated, of not less than 18 gauge sheet steel, factory fabricated and finished to match lockers.

PART 3 - EXECUTION

3.01 INSTALLATION

A. GENERAL: Installation shall be in strict conformance with referenced standards, the manufacturer's written directions, as shown on the drawings and as herein specified.

B. PLACEMENT: Lockers shall be set in place, plumb, level, rigid, flush and securely attached to the wall (or bolted together if back-to-back) and anchored to the floor or base according to manufacturer's specifications.

C. ANCHORAGE: About 48" o.c., unless otherwise recommended by manufacturer, and apply where necessary to avoid metal distortion, using concealed fasteners. Friction cups are not acceptable.

D. TRIM: Sloping tops and metal fillers shall be installed using concealed fasteners. Provide flush, hairline joints against adjacent surfaces.

3.02 ADJUSTMENT

A. GENERAL: Upon completion of installation, inspect lockers and adjust as necessary for proper door operation. Touch-up scratches and abrasions to match original finish.

4 SPECIFICATIONS FOR STANDARD QUIET KNOCK-DOWN CORRIDOR LOCKERS

PART 1 - GENERAL

1.01 SCOPE OF WORK

A. DESCRIPTION: Furnish and install K.D. knock-down Metal Lockers, complete, as shown and specified per contract documents.

1.02 QUALITY ASSURANCE

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

B. FABRICATOR QUALIFICATIONS: Firm experience (minimum 5 years) in successfully producing the type of metal lockers indicated for this project, with sufficient production capacity to produce required units without causing delay in the work.

C. INSTALLER QUALIFICATIONS: Engage an experienced (minimum 2 years) installer who has successfully completed installation of the type of metal lockers and extent to that indicated for this project.

1.03 SUBMITTALS

A. GENERAL: Refer to Section 01300 - SUBMITTALS

B. SHOP DRAWINGS: Submit drawings showing locker types, sizes, quantities, including all necessary details relating to anchoring, trim installation and relationship to adjacent surfaces.

C. COLOR CHARTS: Provide color charts showing manufacturer's available colors (minimum 24). Provide metal samples if requested.

D. NUMBERING: Locker numbering sequence will be provided by the approving authority and noted on approved shop drawings returned to locker contractor.

1.04 PRODUCT HANDLING

A. GENERAL: All work shall be fabricated in ample time so as to not delay construction process.

B. DELIVERY: All materials shall be delivered to the site at such a time as required for proper coordination of the work. Materials are to be received in the manufacturer's original, unopened packages and shall bear the manufacturer's label.

C. STORAGE: Store all materials in a dry and well ventilated place adequately protected from the elements.

1.05 GUARANTEE

A. GUARANTEE - WARRANTY: Submit upon completion of the work, in the form prescribed under section 00670 - GUARANTEE FORM, covering all defects in materials and workmanship excluding finish, damage resulting from deliberate destruction and vandalism under this section for a period of 2 years from the date of final acceptance by the owner.

PART 2 - PRODUCTS

2.01 MATERIAL

A. AVAILABLE MANUFACTURERS: Subject to compliance with the design, material, method of fabrication and installation as required in this specification section or modified as shown on drawings. Manufacturers offering products which may be incorporated in the work include, but are not limited to, the following:

1. List Industries Inc. (Basis of Design)

B. STEEL: All sheet steel used in fabrication shall be prime grade free from scale and imperfections and capable of taking a heavy coat of high gloss baked enamel.

C. FASTENERS:

1. General: Cadmium, zinc or nickel plated steel; bolt heads, slotless type; self locking nuts or lock washers.

D. HARDWARE:

1. Equipment: Hooks and hang rods of cadmium plated or zinc plated steel or cast aluminum.

2. Handle: Stainless Steel recessed handle.

3. Number Plates: To be polished aluminum with not less than 3/8" high etched numbers attached to door with two aluminum rivets.

2.02 FABRICATION

A. GENERAL: Fabricate lockers square, rigid and without warp, with metal faces flat and free from dents or distortion. Make all exposed metal edges safe to touch. Weld frame members together to form rigid, one-piece structure. Weld, bolt, or rivet other

joints and connections as standard with manufacturer. Grind exposed welds flush. Do not expose bolts or rivet heads on fronts of locker doors or frames.

B FINISHING: All locker parts to be cleaned and coated after fabrication with a seven stage zinc/iron phosphate solution to inhibit corrosion, followed by a coat of high grade enamel electrostatically sprayed and baked at 325 degrees Fahrenheit for a minimum of 30 minutes to provide a tough durable finish. Color to be selected from manufacturer's standard list of colors.

1. Two-Tone Color Combination: Shall be at no additional cost with the locker body, frame and trim chosen from one standard color and the doors chosen from a second standard color.

C. LOCKER TYPES - VENTILATION SCHEDULE:

1. General: Lockers shall be "SUPERIOR STANDARD QUIET KD" as manufactured by List Industries Inc. or approved equal.

2. Wardrobe Lockers:

- a. Type: _____ tier
- b. Size: _____ " wide x _____ " deep x _____ " high.
- c. Ventilation: Doors to be plain (non-louvered).

All body parts solid.

D. FRAME: Fabricate of 16 gauge (minimum) channels, with integral continuous door stop/strike formed on both latch and hinge side vertical members. Cross frame members of 16 gauge channel shapes, including intermediate cross frame members on double and triple tier (frames with doors over 18" high) lockers shall be securely welded to the vertical framing members to ensure rigidity. Rubber bumpers shall be provided to cushion door closing.

E. WARDROBE DOORS: Doors 20" high and over to be fabricated from single sheet prime 16 gauge (18 gauge for doors 9" wide) with 7/8" bends at top and bottom and 3/4" double bends at the sides. The channel formed by the double bend at the latch side is designed to fully conceal the lock bar.

F. STAINLESS STEEL RECESSED LOCKER HANDLE: All wardrobe doors shall have recessed stainless steel handle shaped to receive a padlock or built-in combination lock. The recess pan shall be deep enough to have the lock be flush with the outer door face. Box doors shall be equipped with a combination friction catch door pull and strike plate as stated above. G. LATCH ASSEMBLY: The latching mechanism for wardrobe doors shall be finger lift control type constructed of 12 ga. (minimum) steel with a nylon cover that has a generous finger pull. Spring activated nylon slide latches shall be completely enclosed in the lock channel allowing doors to close with the lock in the locked position. Locking device shall be designed for use with either built-in combination locks or padlocks. Latch hooks shall be securely riveted to the vertical frame channel on the strike side to engage the nylon slide latches. Three latch hooks for doors 48" and higher, two latch hooks for doors under 48" high.

H. DOOR HINGES: Shall not be less than 2" long 16 gauge five knuckle pin type, securely welded to frame and riveted to the door. Provide 3 hinges for doors 48" and higher and 2 for doors under 48" high. All doors to be right hand, side hinged.

I. BODY: Fabricate back and sides of 24 gauge (minimum) sheet steel, with double flanged connections extending full height. Form top, bottom and intermediate tier dividers of 24 gauge (minimum) sheet steel with single return bends at all sides. Bolt to front horizontal frame members in addition to side panels. Form hat shelves at single tier lockers of 24 gauge (minimum) sheet steel with single bends at sides and back and a double bend at front.

J. LOCKER ACCESSORIES:

1. Locks (if required): All built-in locks for entire job to be keyed to the same system.

a. Wardrobe Lockers: Master #1630 built-in combination lock with 5 master keys.

2. Equipment: Furnish each locker with the following items, unless otherwise shown.

a. Single tier lockers: Hat shelf, one double prong ceiling hook and not less than three single prong wall hooks. (Two single prong wall hooks only at 9" wide)

b. Double tier lockers: One double prong ceiling hook and not less than three single prong wall hooks. (Two single prong wall hooks only at 9" wide)

c. Triple tier lockers: One double prong ceiling hook only (No hooks for 9" wide)

3. Finished End Panels (If required): Shall be "Boxed" type formed from 16 gauge cold rolled steel with 1/2" O.D. double bends on sides and a single bend at top and bottom with no exposed holes or bolts. End panels must be formed with slope at top to cover the ends of the continuous slope tops. Finish to match lockers. Provide at all exposed ends.

4. Continuous Slope Tops (If required): Not less than 20 gauge sheet steel, approximately 18 degrees pitch, in lengths as long as practical but not less than four lockers. To be installed in addition to the locker flat top with end closures for support. Finish to match lockers.

5. Recessed Trim (If required): Not less than 18 gauge cold rolled sheet steel. Top recess trim shall be fabricated in 72" continuous lengths. The side trim shall be the full locker height and be fabricated to receive the top recess trim creating a clean corner joint. All trim shall be 3" wide and finished to match the locker frame/body color.

6. Fillers (If required): Provide where indicated, of not less than 20 gauge sheet steel, factory fabricated and finished to match lockers.

PART 3 - EXECUTION

3.01 INSTALLATION

A. GENERAL: Installation shall be in strict conformance with referenced standards, the manufacturer's written directions, as shown on the drawings and as herein specified.

B. PLACEMENT: Lockers shall be set in place, plumb, level, rigid, flush and securely attached to the wall (or bolted together if back-to-back) and anchored to the floor or base according to manufacturer's specifications.

C. ANCHORAGE: About 48" o.c., unless otherwise recommended by manufacturer, and apply where necessary to avoid metal distortion, using concealed fasteners. Friction cups are not acceptable.

D. TRIM: Sloping tops, metal fillers and end panels shall be installed using concealed fasteners. Provide flush, hairline joints against adjacent surfaces.

3.02 ADJUSTMENT

A. GENERAL: Upon completion of installation, inspect lockers and adjust as necessary for proper door operation. Touch-up scratches and abrasions to match original finish.

INVITATION FOR BIDS

Lockers, Equipment, & Supplies BID #21-402

***PENCO LOCKERS**

Vanguard Locker Overview

These lockers have been the industry standard for rugged, dependable design. They come in a wide variety of configurations and sizes. Large doors feature the exclusive patented Vanguard die cast handle. Special nylon glides fastened to the latch channel assembly help to minimize noise. Recessed handles are available as an option. Smaller doors feature friction-catch door pulls. Doors have louvers. All types accept built-in locks and padlocks.

VANGUARD STANDARD LOCKER SPECIFICATIONS

MATERIALS

SHEET STEEL: All parts made from prime grade mild cold rolled sheet steel free from surface imperfection, and capable of taking a high grade enamel finish.

HINGES: .074" thick, 2" high, double spun, full loop, tight pin, five-knuckle hinges, projection welded to door frame and securely fastened to the door with 2 steel rivets. Doors over 42" high shall have three hinges, all other doors shall have two hinges.

FINISHING: Chemically pretreat metal with a six stage cleaning phosphatizing and metal preparation process. Finish coat shall be hot airless electrostatically applied enamel baked on at 350 to 400 degrees. Select colors from manufacturer's minimum standard 20 colors. All lockers shall be painted inside and outside with the same color.

EQUIPMENT: Coat hooks and coat rods are zinc plated. Truss fin head bolts and hex nuts are zinc plated.

FABRICATION GENERAL CONSTRUCTION: Built on the unit principle - each locker shall have an individual door and frame, individual top, bottom, back and shelves with common intermediate uprights separating compartments. Lockers shall be fabricated square, rigid and without warp. Doors shall be flat and free of distortion.

DOOR FRAME: All door frame members to be not less than 16 gauge formed to a channel shape. Vertical members to have an additional flange to provide a continuous door strike. Intermembering parts to be mortised and tenoned and electrically welded together in a rigid assembly capable of resisting strains. Cross frame members of 16 gauge channel shapes including intermediate cross frame on double and triple tier lockers shall be securely welded to vertical framing members to ensure rigidity.

BODY: Bolt spacing in locker body construction not to exceed 9" o.c. All locker body components shall be made of cold rolled steel specially formed for added strength and rigidity

and to ensure tight joints at fastening points. Tops & bottoms shall be 24 gauge with three sides formed 90 degrees and the front offset formed to be flush with the horizontal frame member. Shelves shall be 24 gauge with four sides formed to 90 degrees, the front edge shall have a second bend. Backs & sides shall be 24 gauge.

DOORS: Doors 30" or higher shall be formed from one piece 16 gauge cold rolled sheet steel. Doors less than 12" wide shall be 18 gauge. Formations shall consist of a full channel shape on the lock side of adequate depth to fully conceal the lock bar, channel formation on the hinge side, and right angle formations across the top and bottom. Doors over 15" wide x 60" or 72" high shall have a 3" wide 20 gauge full height reinforcing pan welded to the inside face of the door on 6" centers. Doors for box lockers 3, 4, 5, and 6 tier high shall have channel formations on lock and hinge side and have right angle flanges on the top and bottom. Doors less than 15" wide shall be 18 gauge, 15" wide or wider shall be 16 gauge. Box locker door for 3, 4, 5, and 6 openings high shall be pre-punched for padlock latch and friction catch and built-in combination and key locks.

DOOR HANDLE 1 & 2 TIER, 2 PERSON & DUPLEX: Handle to consist of zinc alloy die-cast case and handle. 40,000 PSI maximum tensile strength, chrome plated. Handle to be pulled out to move up latch bar and open door in one motion. Padlock eye for use with 9/32" diameter padlock shackle to be an integral part of handle and to be so located that extension of handle forms a padlock strike. Attachment to latch bar shall be tamper-proof and concealed inside the door. The case shall be kick proof type, shielding the movable part and provide a padlock strike to prevent scratching and marring the door. A lock hole cover plate shall be provided for use with padlocks.

DOOR LATCHING 1 & 2 TIER, 2 PERSON & DUPLEX: Doors to have latch clip engaging the door frame at three points on doors over 42" high and two points on all other doors. Locking device to be positive, automatic type, whereby locker door may be locked when open, then closed without unlocking. One rubber silencer shall be firmly secured in the frame at each heavy gauge latch hook. Latch clips shall be glass filled nylon for long life and low friction and shall hold doors shut by engaging the latch hooks. The latch channel assembly shall be quieted by the use of unique nylon glides to reduce noise.

DOOR HANDLE & LATCHING 3 TO 6 TIER BOX LOCKERS: Doors shall be punched for use with padlocks or built-in locks. Doors for use with padlocks shall be equipped with an 18 gauge combination door pull, staple and lock hole cover plate with integral friction catch.

VENTILATION: Lockers with doors 72" to 36" high shall have two sets of louvers, one set near the top of the door and another set near the bottom of the door. Lockers with doors 30" or less in height, shall have a minimum of one set of louvers.

NUMBER PLATES: Each locker to be supplied with a polished aluminum number plate, 2-1/4" wide x 1" high, with black numerals not less than 3/8" high. Number plates shall be attached to the face of the door with two aluminum rivets.

INTERIOR EQUIPMENT: Single-tier lockers 60" or higher shall have a hat shelf located approximately 9" below the top of locker; if less than 18" deep, locker shall have three single-prong hooks and one double-prong ceiling hook. Single tier lockers 18" or more in depth shall have a coat rod instead of a ceiling hook. 30" & 36" high lockers shall have three single-prong wall hooks and one double-prong ceiling hook. Hooks to be attached with two bolts per hook. 20" & 24" high lockers to have three wall hooks for 12" wide, and four wall hooks for 15" wide and wider.

LOCKER ACCESSORIES - See locker Accessory Specifications.

OPTIONS

BODY: Locker shall be assembled using rivets.

RECESSED HANDLE; 1, 2 & 3 TIER: Delete the standard handle and provide handles recessed in the door with finger lift control. 20 gauge drawn pocket shall be brushed stainless steel securely fastened to the door with two tabs plus a positive tamper resistant decorative fastener. The pocket shall be of sufficient depth to prevent a combination padlock, built-in combination lock or key lock from protruding beyond the face of the door. A lock hole cover plate shall be provided for use with padlocks. The lifting piece shall be 14 gauge formed steel, attached to the latching channel with one concealed retaining lug and one rivet assuring a positive two point connection. Handle finger lift shall have a padlock eye for use with a 9/32" diameter padlock shackle. It shall have a sound deadening molded comfortable finger lift attached.

SIDE AND BACK VENTILATION: Sides and/or backs shall be perforated with 1/2" diameter holes in patterns of 42 holes per group.

DOOR VENTILATION: Visual perforations shall consist of 5/8" wide x 1-1/8" high rectangular perforations in the door in standard manufacturer's patterns. Doors with visual perforations shall not have louvers. Mini louvers shall be 5/8" wide x 1/4" high and be placed in doors in manufacturer's standard pattern. Doors with mini louvers shall not have standard louvers.

A. D. A. COMPLIANT LOCKERS: Handicap lockers shall have recessed handles and shall be single tier or the lower opening of a double tier locker. Locker bottom shall be a minimum of 9" off the floor, or an extra shelf placed 9" off the floor. Single tier lockers shall have a shelf 48" off the floor. Doors assigned for handicapped use shall have an appropriate symbol sign.

EXECUTION INSTALLATION: Install metal lockers at location shown in accordance with manufacturers instructions for plumb, level, and flush installation.

ANCHOR LOCKERS to the floor and wall 48" on center or less as recommended by the manufacturer.

INSTALL SLOPING HOODS AND METAL FILLERS using concealed fasteners. Provide flush hairline joints against adjacent surfaces.

INSTALL BENCHES by fastening bench tops to pedestals and securely anchoring to the floor using appropriate anchors for the floor material.

ADJUST & CLEAN: Adjust doors and latches to operate without binding. Verify that latches are operating satisfactorily.

TOUCH UP marred finishes with factory supplied paint.

ACCEPTABLE MANUFACTURERS

1. Penco Products, Inc., Oaks, PA - Vanguard Lockers

PENCO RESERVES THE RIGHT TO VARY SPECIFICATIONS CONSISTENT WITH ITS POLICY OF CONTINUOUS PRODUCT IMPROVEMENT.

Guardian Locker Overview

Guardian lockers feature stainless steel recessed handles and louverless doors. Special nylon glides fastened to the latch channel assembly help to minimize noise. Air flow slots are located in the top and bottom flanges of the door. Doors accept built-in locks or padlocks.

Standard Guardian lockers are available in two optional types:

1. Guardian Medallion locker doors have a sound-deadening pan welded to the inside of the door.
2. Guardian Plus locker doors are made from 14 gauge steel, for use in areas where heavier than usual abuse is expected.

GUARDIAN LOCKER SPECIFICATIONS

MATERIALS

SHEET STEEL: All parts made from prime grade mild cold rolled sheet steel free from surface imperfection, and capable of taking a high grade enamel finish.

HINGES: .074" thick, 2" high, double spun, full loop, tight pin, five-knuckle hinges, projection welded to door frame and securely fastened to the door with 2 steel rivets. Doors over 42" high shall have three hinges, all other doors shall have two hinges.

FINISHING: Chemically pretreat metal with a six stage cleaning phosphatizing and metal preparation process. Finish coat shall be hot airless electrostatically applied enamel baked on at 350 to 400 degrees. Select colors from manufacturer's minimum standard 20 colors. All lockers shall be painted inside and outside with the same color.

EQUIPMENT: Coat hooks and coat rods are zinc plated. Truss fin head bolts and hex nuts are zinc plated.

FABRICATION GENERAL CONSTRUCTION: Built on the unit principle - each locker shall have an individual door and frame, individual top, bottom, back and shelves with common intermediate uprights separating compartments. Lockers shall be fabricated square, rigid and without warp. Doors shall be flat and free of distortion.

DOOR FRAME: All door frame members to be not less than 16 gauge formed to a channel shape. Vertical members to have an additional flange to provide a continuous door strike. Intermembering parts to be mortised and tenoned and electrically welded together in a rigid assembly capable of resisting strains. Cross frame members of 16 gauge channel shapes including intermediate cross frame on double and triple tier lockers shall be securely welded to vertical framing members to ensure rigidity.

BODY: Bolt spacing in locker body construction not to exceed 9" o.c. All locker body components shall be made of cold rolled steel specially formed for added strength and rigidity and to ensure tight joints at fastening points. Tops & bottoms shall be 24 gauge with three sides formed 90 degrees and the front offset formed to be flush with the horizontal frame member. Shelves shall be 24 gauge with four sides formed to 90 degree, the front edge shall have a second bend. Backs & sides shall be 24 gauge.

DOORS: Doors 20" or higher shall be formed from one piece 16 gauge cold rolled sheet steel. Formations shall consist of a full channel shape on the lock side of adequate depth to fully conceal the lock bar, channel formation on the hinge side, and right angle formations across the top and bottom. Doors over 15" wide x 60" or 72" high shall have a 3" wide 20 gauge full height reinforcing pan welded to the inside face of the door on 6" centers. Doors less than 12" wide shall be 18 gauge.

DOOR HANDLE & LATCHING: Handles shall be recessed in the door and be finger lift control. The 20 gauge drawn pocket shall be brushed stainless steel securely fastened to the door with two tabs plus a positive tamper resistant decorative fastener. The pocket shall be of sufficient depth to prevent a combination padlock, built-in combination lock or key lock from protruding beyond the face of the door. A lock hole cover plate shall be provided for use with padlocks. The lifting piece shall be 14 gauge formed steel, attached to the latching channel with one concealed retaining lug and one rivet assuring a positive two point connection. Handle finger lift shall have a padlock eye for use with a 9/32" diameter padlock shackle. It shall have a sound deadening molded comfortable finger lift attached. Doors to have latch clip engaging the door frame at three points on 60" & 72" high and two points on 20" through 36" high doors. Locking device to be positive, automatic type, whereby locker door may be locked when open, then closed without unlocking. One rubber silencer shall be firmly secured in the frame at each heavy gauge latch hook. Latch clips shall be glass filled nylon for long life and low friction and shall hold doors shut by engaging the latch hooks. The latch channel assembly shall be quieted by the use of unique nylon glides to reduce noise.

VENTILATION: Shall be facilitated by air flow slots located in the top & bottom flange of the door. The door front shall be flush with no exposed louvers.

NUMBER PLATES: Each locker door to be supplied with a polished aluminum number plate, 2-1/4" wide x 1" high, with black numerals not less than 3/8" high. Number plates shall be attached to the face of the door with two aluminum rivets.

INTERIOR EQUIPMENT: Single tier lockers 60" or higher shall have a hat shelf located approximately 9" below the top of locker; if less than 18" deep, locker shall have three single-prong hooks and one double-prong ceiling hook. Single tier lockers 18" or more in depth shall have a coat rod instead of a ceiling hook. 30" & 36" high lockers shall have three single-prong wall hooks and one double-prong ceiling hook. Hooks to be steel, ball tip zinc plated, attached with two bolts per hook. 20" & 24" high lockers to have three wall hooks for 12" wide and four wall hooks for 15" and wider.

LOCKER ACCESSORIES: Lockers shall be furnished with the accessories selected from the Accessory Specifications.

OPTIONS: BODY: Lockers shall be assembled using rivets.

MEDALLION OPTION: Sound-dampening panels are spot welded flush to the inside of the door and contain sound absorbing material to reduce noise levels when doors are slammed. They are 22 gauge and have a full perimeter flange. Louvers are not used when sound-dampening panels are provided.

GUARDIAN PLUS OPTION: Doors shall be 14 gauge steel. Formations shall consist of a full channel shape on the lock side of adequate depth to fully conceal the lock bar, channel formation on the hinge side, and right angle formations across the top and bottom. Doors over 15" wide x 60" or 72" high shall have a 3" wide 20 gauge full height reinforcing pan welded to

the inside face of the door on 6" centers. Doors 24" wide x 60" or 72" high shall have one door per opening and four hinges per door.

A. D. A. COMPLIANT LOCKERS: Handicap lockers shall have recessed handles and shall be single tier or the lower opening of a double tier locker. Locker bottom shall be a minimum of 9" off the floor, or an extra shelf placed 9" off the floor. Single tier lockers shall have a shelf 48" off the floor. Doors assigned for handicapped use shall have an appropriate symbol sign.

DOOR VENTILATION: Mini louvers shall be 5/8" wide x 1/4" high and be placed in doors in manufacturer's standard pattern. Doors with mini louvers shall not have standard louvers.

EXECUTION INSTALLATION: Install metal lockers at location shown in accordance with manufacturer's instructions for plumb, level, and flush installation.

ANCHOR LOCKERS to the floor and wall 48" on center or less as recommended by the manufacturer.

INSTALL SLOPING HOODS AND METAL FILLERS using concealed fasteners. Provide flush hairline joints against adjacent surfaces.

INSTALL BENCHES by fastening bench tops to pedestals and securely anchoring to the floor using appropriate anchors for the floor material.

ADJUST & CLEAN: Adjust doors and latches to operate without binding. Verify that latches are operating satisfactorily.

TOUCH UP marred finishes with factory supplied paint.

ACCEPTABLE MANUFACTURERS

1. Penco Products, Inc., Oaks, PA - Guardian Lockers

PENCO RESERVES THE RIGHT TO VARY SPECIFICATIONS CONSISTENT WITH ITS POLICY OF CONTINUOUS PRODUCT IMPROVEMENT.

Invincible II Heavy Duty Team Room Locker Overview

Invincible II lockers are designed for heavy duty use in the storage of athletic gear, or wherever a high degree of ventilation is required. The doors and sides are perforated with a diamond-shaped pattern for the free flow of air. For extra durability, the doors are made from 14 gauge steel, and the sides, tops, bottoms and shelves are 16 gauge steel. Backs are 18 gauge. Stainless steel recessed handles are standard on 1, 2 and 3 tier models.

INVINCIBLE II HEAVY DUTY VENTILATED LOCKER SPECIFICATIONS

MATERIALS

SHEET STEEL: All parts made from prime grade mild cold rolled sheet steel free from surface imperfection, and capable of taking a high grade enamel finish.

HINGES: .074" thick, 2" high, double spun, full loop, tight pin, five-knuckle hinges, projection welded to door frame and securely fastened to the door with 2 steel rivets. Doors over 42" high shall have three hinges, all other doors shall have two hinges except the 24" wide x 60" or 72" doors which shall have four hinges.

FINISHING: Chemically pretreat metal with a six stage cleaning phosphatizing and metal preparation process. Finish coat shall be hot airless electrostatically applied enamel baked on at 350 to 400 degrees. Select colors from manufacturer's minimum standard 20 colors. All lockers shall be painted inside and outside with the same color.

EQUIPMENT: Coat hooks and coat rods are zinc plated. Truss fin head bolts and hex nuts are zinc plated.

FABRICATION GENERAL CONSTRUCTION: Built on the unit principle - each locker shall have an individual door and frame, individual top, bottom, back and shelves with common intermediate uprights separating compartments. Lockers shall be fabricated square, rigid and without warp. Doors shall be flat and free of distortion.

DOOR FRAME: All door frame members to be not less than 16 gauge formed to a channel shape. Vertical members to have an additional flange to provide a continuous door strike. Intermembering parts to be mortised and tenoned and electrically welded together in a rigid assembly capable of resisting strains. Cross frame members of 16 gauge channel shapes including intermediate cross frame on double and triple tier lockers shall be securely welded to vertical framing members to ensure rigidity.

BODY: Bolt spacing in locker body construction not to exceed 9" o.c. All locker body components shall be made of cold rolled steel specially formed for added strength and rigidity and to ensure tight joints at fastening points. Tops & bottoms shall have three sides formed 90 degrees and the front offset formed to be flush with the horizontal frame member. Shelves shall have sides formed to 90 degrees, the front edge shall have a second bend. Backs shall be 18 gauge; all other body parts shall be 16 gauge.

DOORS: Doors 20" or higher shall be formed from one piece 14 gauge cold rolled sheet steel. Formations shall consist of a full channel shape on the lock side of adequate depth to fully conceal the lock bar, channel formation on the hinge side, and right angle formations across the top and bottom. Doors over 15" wide and over 30" high shall have a 3" wide 20 gauge full height reinforcing pan welded to the inside face of the door on 6" centers. Doors for box lockers 4, 5, 6, 8 & 9 tiers high shall be 14 gauge steel and have channel formations on lock side and hinge side and have right angle flanges on the top and bottom.

DOOR HANDLE & LATCHING 1, 2 & 3 TIER: Handles shall be recessed in the door and be finger lift control. The 20 gauge drawn pocket shall be brushed stainless steel securely fastened to the door with two tabs plus a positive tamper resistant decorative fastener. The pocket shall be of sufficient depth to prevent a combination padlock, built-in combination lock or key lock from protruding beyond the face of the door. A lock hole cover plate shall be provided for use with padlocks. The lifting piece shall be 14 gauge formed steel, attached to the latching channel with one concealed retaining lug and one rivet assuring a positive two point connection. Handle finger lift shall have a padlock eye for use with a 9/32" diameter padlock shackle. It shall have a sound deadening molded comfortable finger lift attached. Doors to have latch clip engaging the door frame at three points on 60" & 72" high and two points on 20" through 36" high doors. Locking device to be positive, automatic type, whereby locker door may be locked when open, then closed without unlocking. One rubber silencer shall be firmly secured in the frame at each heavy gauge latch hook. Latch clips shall be glass filled nylon for long life and low friction and

shall hold doors shut by engaging the latch hooks. Latch hooks on diamond-perforated lockers shall have tamper guards. The latch channel assembly shall be quieted by the use of unique nylon glides.

DOOR HANDLE & LATCHING 4 TO 9 TIER BOX LOCKERS: Doors shall be punched for use with padlocks or built-in locks. Doors for use with padlocks shall be equipped with an 18 gauge combination door pull, staple and lock hole cover plate with integral friction catch.

VENTILATION: All locker sides and doors 20" or higher shall be perforated with diamond-shaped openings 3/4" wide x 1-1/2" high in a quantity and pattern to insure maximum ventilation and maintain structural strength. All other doors shall have small diamond-shaped perforations 7/16" wide x 15/16" high.

NUMBER PLATES: Each locker door to be supplied with a polished aluminum number plate, 2-1/4" wide x 1" high, with black numerals not less than 3/8" high. Number plates shall be attached to the face of the door with two aluminum rivets.

INTERIOR EQUIPMENT: Locker openings 60" or higher shall have a hat shelf located approximately 9" below the top of locker. Locker openings 30" or higher, 12" or 15" wide and less than 18" deep shall have three single-prong hooks and one double-prong ceiling hook. Lockers 18" or more in depth shall have a coat rod instead of a ceiling hook. 20" & 24" lockers shall have three wall hooks only. Hooks to be steel, ball tip zinc plated, attached with two bolts per hook.

LOCKER ACCESSORIES: Lockers shall be furnished with the accessories selected from the Accessory Specifications.

OPTIONS

BODY: Lockers shall be assembled using rivets.

DOORS: Box locker doors 4 to 9 tier, as an alternative option each door shall be furnished with a stainless steel padlock strike.

DOOR HANDLE & LATCHING 4 TO 9 TIER BOX LOCKERS: As an alternate option, each door shall be provided with a finger operated 11 gauge slam latch with an electrogalvanized trigger, and a spring contained in a 14 gauge case welded to the door. The spring latch engages a 13 gauge hasp welded to the frame. Rubber bumpers shall be securely installed in the frame.

DOOR VENTILATION: Delete diamond perforations in the doors and substitute with standard louvers, or mini louvers may be substituted and shall be 5/8" wide x 1/4" high. Louvers shall be placed in doors in manufacturer's standard pattern.

A. D. A. COMPLIANT LOCKERS: Handicap lockers shall have recessed handles and shall be single tier or the lower opening of a double tier locker. Locker bottom shall be a minimum of 9" off the floor, or an extra shelf placed 9" off the floor. Single tier lockers shall have a shelf 48" off the floor. Doors assigned for handicapped use shall have an appropriate symbol sign.

EXECUTION INSTALLATION: Install metal lockers at location shown in accordance with manufacturers instructions for plumb, level, and flush installation.

ANCHOR LOCKERS to the floor and wall 48" on center or less as recommended by the manufacturer.

INSTALL SLOPING HOODS AND METAL FILLERS using concealed fasteners. Provide flush hairline joints against adjacent surfaces.

INSTALL BENCHES by fastening bench tops to pedestals and securely anchoring to the floor using appropriate anchors for the floor material.

ADJUST & CLEAN: Adjust doors and latches to operate without binding. Verify that latches are operating satisfactorily.

TOUCH UP marred finishes with factory supplied paint.

ACCEPTABLE MANUFACTURERS 1. Penco Products, Inc., Oaks, PA - Invincible II Lockers

PENCO RESERVES THE RIGHT TO VARY SPECIFICATIONS CONSISTENT WITH ITS POLICY OF CONTINUOUS PRODUCT IMPROVEMENT.

INVITATION FOR BIDS

Lockers, Equipment, & Supplies BID #21-402

REPUBLIC "QUIET" LOCKER SPECIFICATIONS

SECTION 10500 - METAL LOCKERS

PART 1- GENERAL

1.1 RELATED DOCUMENTS:

We suggest use of your standard office reference to drawings, general and special conditions, etc.

1.2 SCOPE:

Furnish and install new steel lockers, accessories and finish metal trim as shown or indicated on drawings. Concrete or masonry bases, wood furring, blocking or trim as may be required by drawings are included in other sections of this specification.

1.2.1 SUBMITTALS:

Shop Drawings: Submit drawings showing locker types, sizes, quantities, including all necessary details relating to anchoring, trim installation and relationship to adjacent surfaces.

Numbering: The locker numbering sequence will be provided by the approving authority and noted on approved drawings returned to the locker contractor.

Color Charts: Provide color charts showing manufacturer's available colors. Request samples of paint on metal if required by normal office procedures or in the event of non-standard color selection.

Lock Combination Listings and Master Keys: Use only when combination locks are specified. Delivered directly to the owner's representative.

1.3 QUALITY ASSURANCE:

1.3.1 UNIFORMITY: Provide each type of metal locker as produced by a single manufacturer, including necessary installation accessories, fittings and fasteners.

1.3.2 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 MANUFACTURER:

Republic Storage Systems Company, Inc. Products by other manufacturers may be approved provided they meet the detailed specifications written below. Approval procedure shall be as specified in the General Conditions of these locker specifications.

2.2 LOCKERS: (fill in as specified)

Corridor Locker Style: Quiet

Configuration (Tier):

Size:

Color:

No. of Locker Frames:

No. of Locker Openings:

2.3 FABRICATION

2.3.1 MATERIAL: All major steel parts shall be made of mild cold rolled steel, free from imperfections and capable of taking a high grade enamel finish.

-Alternate: Specified locker components shall be manufactured from Galvannealed steel and finished by manufacturer's standard process.

2.3.2 FINISH: Surfaces of the steel shall be thoroughly cleaned and phosphatized in a seven-stage process. All parts shall then be finished with a heavy coat of enamel baked on at 300 degrees for 30 minutes.

2.3.3 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.

2.3.4 DOOR FRAMES: Shall be 16 gauge formed into deep, 1" 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.

2.3.5 DOORS: Doors shall be 16 gauge or 18 gauge steel for short or narrow doors as required by manufacturer's design, formed with a full channel shape on 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" in height and 18" and wider shall have a diagonal reinforcing angle welded to the inner surface.

Ventilation consists of full perimeter opening.

2.3.6 PRE-LOCKING DEVICE: All "tiered" lockers shall be equipped with a positive automatic pre-locking type, whereby the locker may be locked while door is open and then closed without unlocking and without damaging locking mechanism.

2.3.7 LATCHING: Latching shall be 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

securely contained in the door channel by self-lubricating polyethylene guides that isolate the lock bar from metal-to-metal contact with the door. There shall be three latching points for lockers over 42" in height and two latching points for all tiered lockers 42" and under in height. The lock bar travel is limited by contacting resilient elastomeric cushioning devices located inside the lock bar. Frame hooks to accept latching shall be of heavy gauge steel, set close in and welded to the 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 silencer which is to be securely installed on each frame hook.

2.3.8 HANDLES: A non-protruding 14 gauge lifting trigger and slide plate shall transfer the lifting force for actuating the lock bar when opening the door. The exposed portion of the lifting trigger shall be encased in a molded ABS thermoplastic cover that provides isolation from metal-to-metal contact and be contained in a formed 20 gauge stainless steel recessed pocket. This stainless steel pocket shall contain a recessed area for the various lock types available and a mounting area for the number plate.

2.3.9 HINGES: Hinges shall be 2" 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" high and less shall have two hinges. Doors over 42" high shall have three hinges.

2.3.10 BODY: The body of the locker shall consist of 24 gauge upright sheets, backs, tops, bottoms and shelves. Tops, bottoms and shelves shall be flanged on all four sides; backs are flanged on two sides. Uprights shall be offset at the front and flanged at the rear to provide a double lapped rear corner.

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

2.3.12 NUMBER PLATES: Each locker shall have a polished aluminum number plate with black numerals not less than 1/2" high. Plates shall be attached with rivets to the lower surface within the recessed handle pocket.

2.3.13 COLOR: Doors and exposed body parts shall be finished in colors selected from Republic's collection of twenty-five colors. Non-exposed body parts shall be finished in #83 Decorator Tan.

-Option: Specifier may modify above paragraph if non-standard custom colors are selected

2.3.14 ASSEMBLY: Assembly of all locker components 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.

-Option: Keps nut and bolts, or rivets may be used for assembly.

PART 3- EXECUTION

3.1 INSTALLATION:

Lockers must be installed in accordance with manufacturer's approved drawings. Installation to be level and plumb with flush surfaces and rigid attachment to anchoring surfaces. Space fasteners at 36" O.C. or less as recommended by manufacturer. Use fasteners appropriate to load and anchoring substratum. Use reinforcing plates to be used wherever fasteners could distort metal. Various trim accessories where shown, such as sloping tops, fillers, bases, recess trim, etc., shall be installed using concealed fasteners. Flush, hairline joints shall be provided at all abutting trim parts and at adjoining surfaces.

3.2 ADJUSTMENT:

Upon completion of installation, inspect lockers and adjust as necessary for proper door and locking mechanism operation. Touch up scratches and abrasions with factory supplied paint to match original finish.

3.3 QUALITY ASSURANCE:

Republic reserves the right to modify the design and/or change specifications or colors/finish consistent with our policy of product excellence.

NOTE: For use safety all Republic lockers must be secured to the wall and/or floor prior to use.

REPUBLIC SINGLE POINT II CORRIDOR LOCKER SPECIFICATIONS

SECTION 10500 - METAL LOCKERS

PART 1- GENERAL

1.1 RELATED DOCUMENTS:

We suggest use of your standard office reference to drawing, general and special conditions, etc.

1.2 SCOPE:

Furnish and install new steel lockers, accessories and finish metal trim as shown or indicated on approved drawings. Concrete or masonry bases, wood furring, blocking or trim as may be required by drawings are included in other sections of this specification.

1.2.1 SUBMITTALS:

Shop Drawings: Submit drawings showing locker types, sizes and quantities, including all necessary details relating to anchoring, trim installation and relationship to adjacent surfaces.

Numbering: The locker numbering sequence shall be provided by the approving authority and noted on the approved drawings returned to the locker contractor.

Color Charts: Provide color charts showing manufacturer's available colors. Request samples of paint on metal if required by normal office procedures or in the event of non-standard color selection.

Lock Combination Listings and Master Keys: Use only when combination locks are specified. Delivered directly to the owner's representative.

1.3 QUALITY ASSURANCE:

1.3.1 UNIFORMITY: Provide each type of metal locker as produced by a single manufacturer, including necessary accessories, fittings and fasteners.

1.3.2 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 MANUFACTURER:

Republic Storage Systems Company, Inc. Products by other manufacturers may be approved provided they meet the detailed specifications written below. Approval procedure shall be as specified in the General Conditions of these specifications.

2.2 LOCKERS:

Style: Single Point II

Configuration (Tier/Box):

Size:

Color:

No. of Locker Frames:

No. of Locker Openings:

2.3 FABRICATION:

2.3.1 MATERIAL: All major steel parts shall be made of mild cold rolled steel, free from imperfections and capable of taking a high grade enamel finish.

-ALTERNATE: Specified locker components shall be manufactured from Galvannealed steel and finished by manufacturer's standard process.

2.3.2 FINISH: Surfaces of the steel shall be thoroughly cleaned and phosphatized in a seven-stage process. All parts shall then be finished with a heavy coat of enamel baked on at 300 degrees for 30 minutes.

2.3.3 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.

2.3.4 DOOR FRAMES: Door frames shall be 16 gauge formed into 1" wide face channel shapes with a continuous vertical door strike integral with the frame on both sides of the door opening. Double, triple and 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.

2.3.5 DOORS: Construction shall be a single piece 14 gauge outer door with double return flanges on both vertical edges and a single return flange on the top and bottom edges. Doors on tiered lockers shall be reinforced with a full height 16 gauge channel reinforcement.

Ventilation consists of full perimeter opening plus, VertiVent slots in the top and bottom of doors.

Doors shall be punched for the number plate mounting on the top face of the door.

2.3.6 LATCHING: Latching shall be achieved by securing an 11 gauge frame hook to the locker side frame located midway up on the door. When lockers are to have padlocks, the frame hook shall have a padlock hasp protruding through the stainless steel recessed pocket. When lockers are equipped with built-in locks, the padlock hasp shall be eliminated and the recessed pocket shall contain only the necessary punching to mount the lock. The frame hook shall have an interlocking finger oriented 90 degrees to the door edge to serve as a catch when padlocks are used and to resist prying when built-in locks are used.

2.3.7 HANDLES: A one piece, deep drawn stainless steel cup shall be securely riveted to the door to form a receptacle for the padlock or built-in lock. The pocket shall also have a formation across the top that provides a door pull. This stainless steel pocket shall contain a recessed area for the various lock types.

2.3.8 HINGES: Hinges shall be 2" 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" high and less shall have two hinges. Doors over 42" shall have three hinges.

2.3.9 BODY: The body of the locker shall consist of 24 gauge upright sheets, backs, tops, bottoms and shelves. Tops, bottoms and shelves are flanged on all four sides; backs are flanged on two sides. Uprights shall be offset at the front and flanged at the rear to provide a double lapped rear corner.

2.3.10 INTERIOR EQUIPMENT: Single tier lockers over 42" high shall have one hat/book shelf. Other tiered lockers do not require shelves. All single, double and triple tier lockers shall have one double prong back hook and two single prong wall hooks in each compartment. All hooks shall be made of steel, formed with ball points, zinc-plated and attached with two bolts and or rivets. Lockers under 20" high are not equipped with hooks.

2.3.11 NUMBER PLATES: Each locker shall have a polished aluminum number plate with black numerals not less than 1/2" high. Plates shall be attached with rivets to the top face of the locker door for high visibility.

2.3.12 COLOR: Doors and exposed body parts to be finished in colors selected from Republic's collection of twenty-five colors. Non-exposed body parts are finished in #83 Decorator Tan.

-OPTION: Specifier may modify above paragraph if non-standard custom colors are selected.

2.3.13 ASSEMBLY: Assembly of all locker components shall be accomplished by the use of zinc plated, low round head, slotless, fin neck machine screws with Keps nut, producing a strong mechanical connection.

PART 3 - EXECUTION

3.1 INSTALLATION: Lockers must be installed in accordance with manufacturer's approved drawings and installation instructions. Installation to be level and plumb with flush surfaces and rigid attachment to anchoring surfaces.

Space fasteners at 36" O.C. or less as recommended by manufacturer. Use fasteners appropriate to load and anchoring substratum. Use reinforcing plates wherever fasteners could distort metal.

Various trim accessories where shown such as sloping tops, fillers, bases, recess trim, etc., shall be installed using concealed fasteners. Flush, hairline joints are provided at all abutting trim parts and at adjoining surfaces.

3.2 ADJUSTMENT: Upon completion of installation, inspect lockers and adjust as necessary for proper door and locking mechanism operation. Touch up scratches and abrasions with factory supplied paint to match original finish.

3.3 QUALITY ASSURANCE:

Republic reserves the right to modify the design and/or change specifications or colors/finish consistent with our policy of product excellence.

NOTE: For user safety all Republic lockers must be secured to the wall and/or floor prior to use.

REPUBLIC SINGLE POINT II CORRIDOR LOCKER SPECIFICATIONS

SECTION 10500 - METAL LOCKERS

PART 1- GENERAL

1.1 RELATED DOCUMENTS:

We suggest use of your standard office reference to drawing, general and special conditions, etc.

1.2 SCOPE:

Furnish and install new steel lockers, accessories and finish metal trim as shown or indicated on approved drawings. Concrete or masonry bases, wood furring, blocking or trim as may be required by drawings are included in other sections of this specification.

1.2.1 SUBMITTALS:

Shop Drawings: Submit drawings showing locker types, sizes and quantities, including all necessary details relating to anchoring, trim installation and relationship to adjacent surfaces.

Numbering: The locker numbering sequence shall be provided by the approving authority and noted on the approved drawings returned to the locker contractor.

Color Charts: Provide color charts showing manufacturer's available colors. Request samples of paint on metal if required by normal office procedures or in the event of non-standard color selection.

Lock Combination Listings and Master Keys: Use only when combination locks are specified. Delivered directly to the owner's representative.

1.3 QUALITY ASSURANCE:

1.3.1 UNIFORMITY: Provide each type of metal locker as produced by a single manufacturer, including necessary accessories, fittings and fasteners.

1.3.2 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 MANUFACTURER:

Republic Storage Systems Company, Inc. Products by other manufacturers may be approved provided they meet the detailed specifications written below. Approval procedure shall be as specified in the General Conditions of these specifications.

2.2 LOCKERS:

Style: Single Point II

Configuration (Tier/Box):

Size:

Color:

No. of Locker Frames:

No. of Locker Openings:

2.3 FABRICATION:

2.3.1 MATERIAL: All major steel parts shall be made of mild cold rolled steel, free from imperfections and capable of taking a high grade enamel finish.

-ALTERNATE: Specified locker components shall be manufactured from Galvannealed steel and finished by manufacturer's standard process.

2.3.2 FINISH: Surfaces of the steel shall be thoroughly cleaned and phosphatized in a seven-stage process. All parts shall then be finished with a heavy coat of enamel baked on at 300 degrees for 30 minutes.

2.3.3 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.

2.3.4 DOOR FRAMES: Door frames shall be 16 gauge formed into 1" wide face channel shapes with a continuous vertical door strike integral with the frame on both sides of the door opening.

Double, triple and 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.

2.3.5 DOORS: Construction shall be a single piece 14 gauge outer door with double return flanges on both vertical edges and a single return flange on the top and bottom edges. Doors on tiered lockers shall be reinforced with a full height 16 gauge channel reinforcement.

Ventilation consists of full perimeter opening plus, VertiOvent slots in the top and bottom of doors.

Doors shall be punched for the number plate mounting on the top face of the door.

2.3.6 LATCHING: Latching shall be achieved by securing an 11 gauge frame hook to the locker side frame located midway up on the door. When lockers are to have padlocks, the frame hook shall have a padlock hasp protruding through the stainless steel recessed pocket. When lockers are equipped with built-in locks, the padlock hasp shall be eliminated and the recessed pocket shall contain only the necessary punching to mount the lock. The frame hook shall have an interlocking finger oriented 90 degrees to the door edge to serve as a catch when padlocks are used and to resist prying when built-in locks are used.

2.3.7 HANDLES: A one piece, deep drawn stainless steel cup shall be securely riveted to the door to form a receptacle for the padlock or built-in lock. The pocket shall also have a formation across the top that provides a door pull. This stainless steel pocket shall contain a recessed area for the various lock types.

2.3.8 HINGES: Hinges shall be 2" 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" high and less shall have two hinges. Doors over 42" shall have three hinges.

2.3.9 BODY: The body of the locker shall consist of 24 gauge upright sheets, backs, tops, bottoms and shelves. Tops, bottoms and shelves are flanged on all four sides; backs are flanged on two sides. Uprights shall be offset at the front and flanged at the rear to provide a double lapped rear corner.

2.3.10 INTERIOR EQUIPMENT: Single tier lockers over 42" high shall have one hat/book shelf. Other tiered lockers do not require shelves. All single, double and triple tier lockers shall have one double prong back hook and two single prong wall hooks in each compartment. All hooks shall be made of steel, formed with ball points, zinc-plated and attached with two bolts and or rivets. Lockers under 20" high are not equipped with hooks.

2.3.11 NUMBER PLATES: Each locker shall have a polished aluminum number plate with black numerals not less than 1/2" high. Plates shall be attached with rivets to the top face of the locker door for high visibility.

2.3.12 COLOR: Doors and exposed body parts to be finished in colors selected from Republic's collection of twenty-five colors. Non-exposed body parts are finished in #83 Decorator Tan.

-OPTION: Specifier may modify above paragraph if non-standard custom colors are selected.

2.3.13 ASSEMBLY: Assembly of all locker components shall be accomplished by the use of zinc plated, low round head, slotless, fin neck machine screws with Keps nut, producing a strong mechanical connection.

PART 3 - EXECUTION

3.1 INSTALLATION: Lockers must be installed in accordance with manufacturer's approved drawings and installation instructions. Installation to be level and plumb with flush surfaces and rigid attachment to anchoring surfaces.

Space fasteners at 36" O.C. or less as recommended by manufacturer. Use fasteners appropriate to load and anchoring substratum. Use reinforcing plates wherever fasteners could distort metal. Various trim accessories where shown such as sloping tops, fillers, bases, recess trim, etc., shall be installed using concealed fasteners. Flush, hairline joints are provided at all abutting trim parts and at adjoining surfaces.

3.2 ADJUSTMENT: Upon completion of installation, inspect lockers and adjust as necessary for proper door and locking mechanism operation. Touch up scratches and abrasions with factory supplied paint to match original finish.

3.3 QUALITY ASSURANCE:

Republic reserves the right to modify the design and/or change specifications or colors/finish consistent with our policy of product excellence.

NOTE: For user safety all Republic lockers must be secured to the wall and/or floor prior to use.
REPUBLIC ATHLETIC LOCKER SPECIFICATION

HEAVY DUTY VENTILATED AND ALL WELDED VENTILATED ATHLETIC LOCKERS

PART 1- GENERAL

1.1 RELATED DOCUMENTS: We suggest use of your standard office reference to drawing, general and special conditions, etc.

1.2 SCOPE: Furnish and install new steel lockers, accessories and finish metal trim as shown or indicated on approved drawings. Concrete or masonry bases, wood furring, blocking or trim as may be required by drawings are included in other sections of this specification.

1.2.1 SUBMITTALS:

Shop Drawings: Submit drawings showing locker types, sizes and quantities, including all necessary details relating to anchoring, trim installation and relationship to adjacent surfaces.

Numbering: The locker numbering sequence shall be provided by the approving authority and noted on approved drawings returned to the locker contractor.

Color Charts: Provide color charts showing manufacturer's available colors. Request samples of paint on metal if required by normal office procedures or in the event of non-standard color selection.

Lock Combination Listings and Master Keys: Use only when combination locks are specified. Delivered directly to the owner's representative.

1.3 QUALITY ASSURANCE:

1.3.1 UNIFORMITY: Provide each type of metal locker as produced by a single manufacturer, including necessary accessories, fittings and fasteners.

1.3.2 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 MANUFACTURER:

Republic Storage Systems Company, Inc. Products by other manufacturers may be approved provided they meet the detailed specifications written below. Approval procedure shall be as specified in the General Conditions of these locker specifications.

2.2 LOCKERS:

Athletic Locker Style:

Configuration (Tier/Box):

Size:

Color:

No. of Locker Frames:

No. of Locker Openings:

2.3 FABRICATION:

2.3.1 MATERIAL: All major steel parts shall be made of mild cold rolled steel, free from imperfections and capable of taking a high grade enamel finish.

-ALTERNATE: Specified locker components shall be manufactured from Galvannealed steel and finished by manufacturers standard process.

2.3.2 FINISH: Surfaces of the steel shall be thoroughly cleaned and phosphatized in a seven-stage process. All parts shall then be finished with a heavy coat of enamel baked on at 300 degrees for 30 minutes.

2.3.3 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. Assembly of all locker components shall be by riveting with a backup washer to provide a shake-proof permanent fastening system while still permitting fastener removal by drilling to allow future rearrangement of lockers or replacement of damaged parts.

-OPTION: Keps nuts and bolts may be used for assembly.

-ALTERNATE: All Welded Ventilated Lockers: Lockers shall be pre-assembled of welded construction in multiple groups conforming with job requirements. All welds shall be smooth and without burrs. No nuts, bolts or rivets shall be allowed in assembly of main locker groups.

2.3.4 DOOR FRAMES: Door frames shall be 16 gauge formed into 1" wide face channel shapes with a continuous vertical door strike integral with the frame on both sides of the door opening. Cross frame members of 16 gauge channel shapes, including intermediate cross frame on double, triple or four tier lockers shall be securely welded to vertical framing members to ensure a square and rigid assembly. Intermediate cross frame members not required on box lockers.

2.3.5 DOORS: Single, double and triple tier doors shall be formed from one piece 14 gauge cold rolled sheet steel. Formations shall consist of a full channel shape on the lock side of adequate depth to fully conceal the lock bar, channel formation on the hinge side and right angle formations across the top and bottom. Doors shall have diamond shaped perforations 3/4" wide by 1-1/2" high to provide free air flow while leaving sufficient metal for rigidity and strength.

-OPTION: Reinforced Door: Tiered athletic doors shall be reinforced with a 16 gauge channel welded to the latch side of the door. Channel shall be 7/8" wide on 15" wide lockers and 1-1/2"

wide on 18" and 21" wide lockers. The number of diamond perforations shall be reduced with this option.

Doors for box lockers 4, 5, 6, 8 and 9 openings high to be 14 gauge formed steel with right angle flanges on all four sides. Box locker doors are perforated for free air flow using small diamond perforations 7/16" wide by 15/16" high. Box locker doors are punched to accept optional strike plate.

2.3.6 PRE-LOCKING DEVICE: All "tiered" lockers, except lockers with a turn handle, 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.

2.3.7 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-coated, double-channel steel construction. The lock bar shall be securely contained in the door channel by self lubricating polyethylene guides that isolate the lock bar from metal to metal contact with the door. There shall be three latching points for lockers over 42" in height and two latching points for all tiered lockers 42" and under in height. The lock bar travel is limited by contacting resilient high-quality elastomeric cushioning devices concealed inside the lock bar. 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 silencer which is to be securely installed on each frame hook. A Latch Guard steel plate shall be welded on each frame hook on tiered lockers.

ALTERNATE: Box Lockers: Each door shall be provided with a factory installed, welded on spring latching device. The latch shall consist of a heavy gauge E-coated and painted finger-operated trigger which is punched to accept a padlock loop. Latching shall be automatic when the door is shut by means of a torsion spring loaded trigger which engages a welded-on frame hook.

-OPTION: Turn Handle: Tiered athletic lockers can also be equipped with a three point latching turn handle that provides latching rod engagement at the top and bottom cross frames and a 1" wide center latch engaging the vertical locker jamb.

2.3.8 HANDLES - Tiered Lockers: A non-protruding 14 gauge lifting trigger and slide plate shall transfer the lifting force for actuating the lock bar when opening the door. The exposed portion of the lifting trigger shall be encased in a molded ABS thermoplastic cover that provides isolation from metal-to-metal contact and be contained in a formed 20 gauge stainless steel pocket. This stainless steel pocket shall contain a recessed area for the various lock types available and a mounting area for the number plate.

-OPTION: Turn Handle: Tiered athletic lockers can also be equipped with an externally mounted turn handle compatible with both padlocks and built-in dead bolts locks.

2.3.9 HINGES: Hinges to be 2" high, 5-knuckle, full loop, tight pin style, securely welded to frame and double riveted to the inside of the door flange. Hinges are attached with two rivets. Locker doors 42" high and less shall have two hinges. Doors over 42" high shall have three hinges. An extra hinge shall be provided on 24" wide Heavy Duty Ventilated single and double tier doors.

2.3.10 BODY: Locker body components shall be made of cold rolled steel specially formed for added strength and rigidity and to ensure tight joints at fastening points. 16 gauge side uprights are perforated with diamond-shaped openings 3/4" wide by 1-1/2" high for maximum ventilation. Solid sheet steel at all shelf or compartment divider locations provide secure shelf attachment and support.

Locker backs shall be 18 gauge steel with right angle flanges on each vertical side for stiffness, ease of assembly, and to provide corner rigidity. Tops, bottoms, shelves and compartment dividers shall be 16 gauge steel, fully flanged on all sides for added stiffness. Shelves shall have an additional return flange on the front edge creating a channel shape to rigidize the impact surface. All body parts are finished in the same color selected for doors and frames.

ALTERNATE: All Welded Ventilated Lockers: Locker back shall be fabricated from 16 gauge cold rolled sheet steel and formed in combination with the 16 gauge upright to provide a one piece uniform structure.

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

2.3.12 NUMBER PLATES: Each locker shall have a polished aluminum number plate with black numerals not less than 1/2" high. Plates shall be attached with rivets to the lower surface within the recessed handle pocket.

2.3.13 COLOR: Doors, frames and all body parts shall be finished in colors selected from Republic's collection of twenty-five colors.

-OPTION: Specifier may modify above paragraph if non-standard custom colors are selected.

PART 3 EXECUTION

3.1 INSTALLATION: Lockers must be installed in accordance with manufacturer's approved drawings and assembly instructions. Installation to be level and plumb with flush surfaces and rigid attachment to anchoring surfaces.

Space fasteners at 36" O.C. or less as recommended by manufacturer. Use fasteners appropriate to load and anchoring substratum. Use reinforcing plates wherever fasteners could distort metal.

Various trim accessories where shown such as sloping tops, fillers, bases, recess trim, etc., shall be installed using concealed fasteners. Flush, hairline joints shall be provided at all abutting trim parts and at adjoining surfaces.

3.2 ADJUSTMENT: Upon completion of installation, inspect lockers and adjust as necessary for proper door and locking mechanism operation. Touch up scratches and abrasions with factory supplied paint to match original finish.

3.3 QUALITY ASSURANCE: Republic reserves the right to modify the design and/or change specifications or colors/finish consistent with our policy of product excellence.

Note: For user safety all Republic lockers must be secured to the wall and/or floor prior to use.

REPUBLIC SINGLE POINT II ATHLETIC LOCKER SPECIFICATIONS

SECTION 10500 - METAL LOCKERS

PART 1- GENERAL

1.1 RELATED DOCUMENTS:

We suggest use of your standard office reference to drawing, general and special conditions, etc.

1.2 SCOPE:

Furnish and install new steel lockers, accessories and finish metal trim as shown or indicated on approved drawings. Concrete or masonry bases, wood furring, blocking or trim as may be required by drawings are included in other sections of this specification.

1.2.1 SUBMITTALS:

Shop Drawings: Submit drawings showing locker types, sizes and quantities, including all necessary details relating to anchoring, trim installation and relationship to adjacent surfaces.

Numbering: The locker numbering sequence shall be provided by the approving authority and noted on the approved drawings returned to the locker contractor.

Color Charts: Provide color charts showing manufacturer's available colors. Request samples of paint on metal if required by normal office procedures or in the event of non-standard color selection.

Lock Combination Listings and Master Keys: Use only when combination locks are specified. Delivered directly to the owner's representative.

1.3 QUALITY ASSURANCE:

1.3.1 UNIFORMITY: Provide each type of metal locker as produced by a single manufacturer, including necessary accessories, fittings and fasteners.

1.3.2 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 MANUFACTURER:

Republic Storage Systems Company, Inc. Products by other manufacturers may be approved provided they meet the detailed specifications written below. Approval procedure shall be as specified in the General Conditions of these specifications.

2.2 LOCKERS:

Athletic Locker Style: Single Point II

Configuration (Tier/Box):

Size:

Color:

No. of Locker Frames:

No. of Locker Openings:

2.3 FABRICATION:

2.3.1 MATERIAL: All major steel parts shall be made of mild cold rolled steel, free from imperfections and capable of taking a high grade enamel finish.

-ALTERNATE: Specified locker components shall be manufactured from Galvannealed steel and finished by manufacturer's standard process.

2.3.2 FINISH: Surfaces of the steel shall be thoroughly cleaned and phosphatized in a seven-stage process. All parts shall then be finished with a heavy coat of enamel baked on at 300 degrees for 30 minutes.

2.3.3 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. Assembly of all locker components shall be by riveting with a backup washer to provide a shake-proof permanent fastening system while still permitting fastener removal by drilling to allow future rearrangement of lockers or replacement of damaged parts.

-OPTION: Keps nuts and bolts may be used for assembly.

-ALTERNATE: All Welded Ventilated Lockers:

Lockers shall be pre-assembled of welded construction in multiple groups conforming with job requirements. All welds shall be smooth and without burrs. No nuts, bolts, or rivets shall be allowed in the assembly of main locker groups.

2.3.4 DOOR FRAMES: Door frames shall be 16 gauge formed into 1" wide face channel shapes with a continuous vertical door strike integral with the frame on both sides of the door opening. Cross frame members of 16 gauge channel shapes, including intermediate cross frame on double, triple and four tier lockers shall be securely welded to vertical framing members to ensure a square and rigid assembly. Intermediate cross frame members not required on box lockers.

2.3.5 DOORS: Construction shall be a single piece 14 gauge outer door with double return flanges on both vertical edges and a single return flange on the top and bottom edges. Doors on tiered lockers shall be reinforced with a full height 16 gauge channel reinforcement.

Doors for tiered lockers shall have diamond shaped perforations 3/4" wide by 1 1/2" high to provide free air flow while leaving sufficient metal for rigidity and strength. Doors for box lockers 3, 4, 5 and 6 openings high are perforated for free air flow using small diamond perforations 7/16" wide by 15/16" high.

Doors shall be punched for the number plate mounting on the top face of the door.

2.3.6 LATCHING: Latching shall be achieved by securing an 11 gauge frame hook to the locker side frame located midway up on the door. When lockers are to have padlocks, the frame hook shall have a padlock hasp protruding through the stainless steel recessed pocket. When lockers are equipped with built-in locks, the padlock hasp shall be eliminated and the recessed pocket shall contain only the necessary punching to mount the lock. The frame hook shall have an interlocking finger oriented 90 degrees to the door edge to serve as a catch when padlocks are used and to resist prying when built-in locks are used.

2.3.7 HANDLES: A one piece, deep drawn stainless steel cup shall be securely riveted to the door to form a receptacle for the padlock or built-in lock. The pocket shall also have a formation across the

top that provides a door pull. This stainless steel pocket shall contain a recessed area for the various lock types.

2.3.8 HINGES: Hinges shall be 2" 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" high and less shall have two hinges. Doors over 42" shall have three hinges.

2.3.9 BODY: Locker body components shall be made of cold rolled steel specially formed for added strength and rigidity and ensure tight joints at fastening points. 16 gauge side uprights are perforated with diamond-shaped openings 3/4" wide by 1 1/2" high for maximum ventilation. Solid sheet steel at all shelf or compartment divider locations provide secure shelf attachment and support. Locker backs shall be 18 gauge steel with right angle flanges on each vertical side for stiffness, ease of assembly, and to provide corner rigidity. Tops, bottoms, shelves and compartment dividers shall be 16 gauge steel, fully flanged on all sides for added stiffness. Shelves shall have an additional return flange on the front edge creating a channel shape to rigidize the impact surface. All body parts are finished in the same color selected for doors and frames.

-ALTERNATE: All Welded Ventilated Lockers:

Locker back shall be fabricated from 16 gauge cold rolled sheet steel and formed in combination with the 16 gauge upright to provide a one piece uniform structure.

2.3.10 INTERIOR EQUIPMENT: Single tier lockers over 42" high shall have one hat/book shelf. Other tiered lockers do not require shelves. All single, double and triple tier lockers shall have one double prong back hook and two single prong wall hooks in each compartment. All hooks shall be made of steel, formed with ball points, zinc-plated and attached with two bolts and or rivets. Lockers under 20" high are not equipped with hooks.

2.3.11 NUMBER PLATES: Each locker shall have a polished aluminum number plate with black numerals not less than 1/2" high. Plates shall be attached with rivets to the top face of the locker door for high visibility.

2.3.12 COLOR: Doors and exposed body parts to be finished in colors selected from Republic's collection of twenty-five colors. Non-exposed body parts are finished in #83 Decorator Tan.

-OPTION: Specifier may modify above paragraph if non-standard custom colors are selected.

2.3.13 ASSEMBLY: Assembly of all locker components shall be accomplished by the use of zinc plated, low round head, slotless, fin neck machine screws with Keps nut, producing a strong mechanical connection.

PART 3 - EXECUTION

3.1 INSTALLATION: Lockers must be installed in accordance with manufacturer's approved drawings and installation instructions. Installation to be level and plumb with flush surfaces and rigid attachment to anchoring surfaces.

Space fasteners at 36" O.C. or less as recommended by manufacturer. Use fasteners appropriate to load and anchoring substratum. Use reinforcing plates wherever fasteners could distort metal.

Various trim accessories where shown such as sloping tops, fillers, bases, recess trim, etc., shall be installed using concealed fasteners. Flush, hairline joints are provided at all abutting trim parts and at adjoining surfaces.

3.2 ADJUSTMENT: Upon completion of installation, inspect lockers and adjust as necessary for proper door and locking mechanism operation. Touch up scratches and abrasions with factory supplied paint to match original finish.

3.3 QUALITY ASSURANCE:

Republic reserves the right to modify the design and/or change specifications or colors/finish consistent with our policy of product excellence.

NOTE: For user safety all Republic lockers must be secured to the wall and/or floor prior to use.