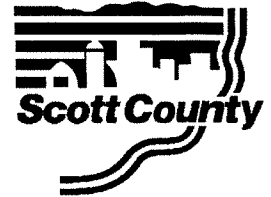


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#19510 Personal Storage Lockers

Addendum #1

Specifications for lockers from buildings original build.

SECTION 10 51 15

WELDED METAL LOCKERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Personal Storage Lockers, Personal Storage Lockers with built-in bench drawers, Personal Storage Lockers with built-in external access drawers and electrical functionality as specified.
- B. Related Sections:
 - 1. Sections in Division 9 – Finishes, relating to finish floor and base materials.
 - 2. Division 26 – additional Electrical requirements

1.3 REFERENCES

- A. American National Standards Institute (ANSI) Standards:
Applicable standards for fasteners used for assembly.
- B. American Society for Testing and Materials (ASTM) Standards:
Applicable standards for steel sheet materials used for fabrication
Applicable standards for the testing of electrostatically applied Powder Coat Paint
- C. American Institute Of Steel Construction (AISC) Standards:
Applicable standards for steel materials used for fabrication.

1.4 DESCRIPTION

- A. General: Welded Metal Lockers only with end-user reconfigurable interior. Specialized lances to provide the flexibility of on-site, end-user reconfiguration/addition of internal components.
- B. Finishes:
Fabricated Metal Components and Assemblies: All components to be painted with an electro-statically applied Powder Coat paint that can meet or exceed test requirements set out by ASTM standard D3451-06 Standard Guide for Testing Coating Powders and Powder Coatings.
- C. Sizes:
Personal Storage Lockers with built-in bench drawers: nominal heights of 72 inches. Built-in bench drawer nominal height is 18 inches and nominal depth is 36 inches.

1.5 PERFORMANCE REQUIREMENTS

- A. Design Requirements:
 - 1. Limit overall width not to exceed specified nominal width; locker width designed for zero growth.
- B. ADA Requirements: Personal Storage Lockers with nominal height of 72 inches meet ADA requirements.

1.6 SUBMITTALS

- A. Product Data: Submit manufacturer's product literature and installation instructions for each type of welded metal locker required.
- B. Shop Drawings: Show fabrication, assembly, and installation details, including descriptions of procedures and diagrams. Show complete locker installation layout, including quantities, locations and types of accessory units required. Include notations and descriptions of all installation items and components.
 - 1. Show installation details at non-standard conditions, if any.
 - 2. Provide layout, dimensions, and identification of each unit, corresponding to sequence of installation procedures.
 - 3. Provide installation schedule and procedures to ensure proper installation.
- C. Samples: Provide minimum 3 inches square example of each color and texture on actual substrate for each component to remain exposed after installation.
- D. Selection Samples: For initial selection of colors and textures, submit manufacturer's color charts, consisting of actual product pieces, showing full range of colors and textures available.
- E. Warranty: Submit draft copy of proposed warranty for review by the Architect.
- F. Maintenance Data: Provide written documentation of the manufacturer's statement, claiming the maintenance free nature of the product.
- G. Reference List: Provide a list of recently installed evidence lockers over the past 5 years

1.7 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Engage an experienced manufacturer who is ISO 9001:2008 certified for the design, production, installation and service of welded metal lockers. Furnish certification attesting ISO 9001:2008 quality system registration.
- B. Installer Qualifications:
 - 1. Minimum Qualifications: 2-year experience installing welded metal lockers of comparable size and complexity to specified project requirements.

1.8 DELIVERY, STORAGE AND HANDLING

- A. Follow manufacturer's instructions and recommendations for delivery, storage and handling requirements.

1.9 PROJECT CONDITIONS

- A. Field Measurements: Verify quantities of welded metal locker units before fabrication. Indicate verified measurements on shop drawings. Coordinate fabrication and delivery to ensure no delay in progress of the work.

1.10 SEQUENCING AND SCHEDULING

- A. Sequence welded metal lockers with other work to minimize possibility of damage and soiling, during remainder of construction period.
- B. Schedule installation of specified welded metal lockers after finishing operations, including painting, have been completed.
- C. Provide components, which must be built in at a time, which causes no delays in the general progress of the work.
- D. Pre-installation Conference: Schedule and conduct conference on project site to review methods and procedures for installing welded Metal Lockers including, but not limited to, the following:
Recommended attendees include:
 - 1. Owner's Representative.
 - 2. Prime Contractor or representative.
 - 3. The Architect.
 - 4. Manufacturer's representative.
 - 5. Subcontractors or installers whose work may affect, or be affected by, the work of this section.

1.11 WARRANTY

- A. Provide a written warranty, executed by Contractor, Installer, and Manufacturer, agreeing to repair or replace units, which fail in materials or workmanship within the established warranty period. This warranty shall be in addition to, and not a limitation of, other rights the Owner may have under General Condition's provisions of the Contract Documents.
- B. Limited Lifetime Warranty: Subject to the terms in the written warranty, warrant the original purchaser exclusively that the locker frames manufactured by it will be free from defects in materials and workmanship for the lifetime of the locker.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. General: FreeStyle™ Personal Storage Lockers manufactured by Spacesaver Corporation, 1450 Janesville Avenue, Fort Atkinson, Wisconsin 53538-2798. Contact Brent Neubauer 515-577-2344.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 25 00. Equal products must be submitted to Architect for approval prior to bidding.

2.2 BASIC MATERIALS

- A. General: Provide materials and quality of workmanship, which meets or exceeds established industry standards for products specified. Use furniture grade sheet metal, solid hardwood benches and fasteners for component fabrication unless indicated otherwise. Material thicknesses/gauges are manufacturer's option unless indicated otherwise.

2.3 LOCKER TYPES

- A. Personal Storage Lockers. Provide personal storage lockers with built-in external access drawers and integral bench.
- B. Note:
 - 1. All locker types to be equipped with environmental ventilation functionality.
 - 2. All locker types to be equipped with the functionality of attaching a modular electrical system.
 - 3. All locker types to be equipped with a continuous sloped top.

2.4 MANUFACTURED COMPONENTS

- A. Welded Frame:
 - 1. The welded frame must consist of top, bottom, back, and sides constructed of a minimum of 18-gauge steel. All frame components shall be joined using resistance welding. Riveting of structural members will not be permitted.
 - 2. Horizontal front flanges will be a minimum of 2 inches. Vertical front flanges will be a minimum of 1 inch. Horizontal and vertical flanges will overlap and be secured with a minimum two (2) resistance welds per corner.
 - 3. Corner gussets shall be MIG and spot welded in each of the four front corners of the locker for increased stiffness and rigidity.
 - 4. Provide side panel lances evenly spaced on 3 inch centers. Lances to provide the flexibility of on-site, end-user reconfiguration/addition of internal components.
 - 5. Bench Housing for built-in bench drawer
 - 6. Welded frame construction shall consist of top, bottom, and side components joined by using resistance welding. Riveting of bench housing structural members will not be permitted.
 - 7. Corner gussets shall be welded in the two (2) front bottom corners of the bench housing for increased stiffness and rigidity.
 - 8. Horizontal front flanges will be a minimum of 1 inch.
 - 9. Vertical front flanges will be a minimum of 1 inch.
 - 10. Horizontal and Vertical front flanges will overlap and shall be secured with minimum of one (1) resistance weld per corner.
 - 11. Side panels – Lances symmetric and evenly spaced to provide optimum component locations (standard based on 3 inch on center vertical placement to match mating locker lance design).
 - 12. Return flanges on housing to securely fasten housing to welded frame of locker.
 - 13. Base of bench housing shall include four (4) 3/8"-16 UNC threaded weld-nuts and corresponding leveling feet.
 - 14. Top of bench housing shall include hole pattern for mating bench seat.

15. Sides of bench housing shall include mounting holes in the event lockers are ganged together.
16. Lockers with built-in bench drawer and built-in external access drawer shall have intermediate base shelf with interlocking mechanism for securing drawer when locker door is closed.
17. Provide a minimum of two (2) duplex receptacle electrical knock-outs per locker; to be used with a UL listed manufactured electrical wiring system as required. Manufacturer supplied outlets must be wired to accommodate ground fault interruption (GFI) sensing at breaker supplied by Div 26.
18. Lockers shall be prepared with mounting holes for use with the continuous sloped top system.
19. Lockers shall be prepared with mounting holes for attaching necessary trim components
20. Locker shall be prepared with mounting holes for ganging lockers back-to-back or side-by-side
21. Base of lockers shall include four (4) 3/8"-16 UNC threaded weld-nuts and corresponding leveling feet.
22. Base shelf for lockers with built-in external access drawers and bench drawers shall have holes to accommodate double-door lock rod and door stop bracket. (only on 24 inch wide and larger)
23. End Panels: End Panels with no exposed fasteners shall be provided on the end of each locker run.
24. Locker Size
 - a. Width:
 - 1) Personal Storage Locker with built-in bench drawer/external access drawer: 24 inches.
 - b. Height:
 - 1) Personal Storage Locker with built in bench drawer: 72 inches.
 - c. Depth:
 - 1) Bench drawers: 36 inches.
 - c) Bench seat depth 13.0 inches.
 - c) Leading edge of bench seat to extend 1.125 inches from front of bench drawer.

B. Ventilation:

1. Provide ventilation holes in top of locker to allow air to be pulled up through the locker system as required. Ventilation shall be controlled by eight 8 evenly spaced 0.625 inch holes.
2. Provide louvered air vents in bottom of the main locker door/s to allow mechanically extracted air to be pulled up through the locker system.
3. Provide louvered air vents in drawer front at built-in external access drawer.
4. Minimum 0.5 inch gap between back of shelving components and back of locker to provide uninterrupted air flow up the rear of the locker system.
5. Minimum 2 inches gap between front of shelving and locker door to provide uninterrupted air flow up the front of the locker system.
6. Multi-Tier ventilation is provided thru door panels

C. Electrical

1. Shall provide two (2) electrical knock-outs per locker as described in section 2.4-A item 7. This feature provides the end-user the opportunity for hard wire electrical connection points for each locker. End-user or General Contractor is responsible for final electrical installation.

2. Shall provide UL Listed manufactured electrical wiring system as required. Manufacturer supplied outlets must be wired to accommodate ground fault interruption (GFI) sensing at breaker supplied by Div 26.

D. Drawers:

1. Drawer body wrapper shall have welded frame construction. Riveting of structural members will not be permitted.
2. Drawers for locker with built-in bench drawers and built-in external access drawers shall have box-formed drawer front.
3. Provide interlock system for securing drawer when main locker doors are closed and provide access only when main locker door/s is opened.
4. Built-in bench drawer shall have a nominal 36 inches depth.
5. Provide a flush mounted pull handle.
6. Drawer Slides: Provide 200 lbs maximum load capacity and pass 50,000 cycle performance testing.
7. Bench drawer minimum 26.5 inches drawer extension
8. Provide louvered air vents in drawer front at built-in external access drawer.
9. Provide capability of attaching glides for Body Armored Drying Rack.

E. Bench Seat:

1. Provide 13.0 inches deep laminated kiln dried maple bench seat; material thickness 1.25 inches.
2. Front (leading edge) of bench seat to have .625 inch radius bull nose.
3. Finish of bench seat shall be sanded smooth and have two (2) coats of catalyzed varnish applied.

F. Single-Piece Welded Doors:

1. Shall be formed from two (2) pieces of minimum 18-gauge cold rolled steel box formed and welded together using modern GMAW techniques. Single-piece door with inner and outer door panels shall have a combined steel thickness of no less than 0.096 inches thick. Welded door design with inner panel optimizes structural integrity of locker door system over and above any single frame door design.
2. Exterior door panel shall be constructed with formed flanges and return flanges to add stiffness.
3. Internal door panel shall be constructed with formed flanges for added stiffness.
4. All inner door panel heights shall be minimum 70% of external door height.
5. Multi-Tier inner door panels shall be full height.
6. Single-piece welded door frame shall consist of internal door panel nested inside exterior door panel and welded per the following requirements:
7. Top / bottom. Exterior and Interior panels to be welded in a minimum of three (3) places with weld spacing not to exceed 6 inches between adjacent welds and 1 inch from any corner.
8. Sides. Exterior and interior panels to be welded with spacing not to exceed 12 inches between adjacent welds and 1 inch from any corner.
9. Inner door panel to have peg board style hole pattern, allowing the attachment of one (1) clothes hook and future standard peg board accessories.
10. External door panel shall have louvers to provide adequate air circulation throughout locker system.

11. Louvered air vents shall be located at the bottom of the locker door.
12. Louvered air vents shall be approximately 3 inches in width and 0.75 inches in height and spaced on 1 inch centers.
13. Single door 24 inch locker width.
14. All doors shall have neoprene silencers on each door for noise reduction
15. Door torsional deflection shall not exceed 0.1875 inch with a 20 lb point load.
16. Hinge:
 - a. Provide 16-gauge full length hinge for increased strength and security of locker system.
 - b. Hinges to be welded to door frame with spot welds not to exceed 6 inch separation.
17. Door assembly to be riveted to door frame on factory pre-established hole pattern.
18. Locking Mechanism.
 - a. Padlock hasp only.

G. Interior/Accessory components:

1. All interior components must be constructed of minimum 18-gauge steel (unless otherwise clarified in specification).
2. For added security, internal component can be secured utilizing blind rivets, threaded fasteners, or bending specially designed tab.
3. Shelving:
 - a. Shelf with integral hanger bracket
 - 1) Size specified by locker width
 - 2) Hanger bracket designed with perforations on approximately 3 inch centers to insure clothing separation for optimum ventilation
 - 3) Performance: Uniform load rating 300 lbs
 - b. Plain
 - 1) Size specified by locker width
 - 2) Performance: Uniform load rating 100 lbs
 - c. Heavy Duty
 - 1) Size specified by locker width
 - 2) Performance: Uniform load rating 300 lbs.
 - d. Perforated (use as drying rack)
 - 1) Size specified by locker width
 - 2) Tested performance: Uniform load rating 100 lbs.
 - e. Shelf rear return flange stops minimum 0.50 inch short of locker back panel on order to allow air circulation throughout entire locker assembly
 - f. All performance test data shall be provided by manufacturer upon request.
4. Modular Shelf
 - a. Provides storage compartment for smaller items
 - 1) One compartment 12 inches wide x 12 inches high.

