



Standard Specification for Steel Emergency Gear Stowage Locker¹

This standard is issued under the fixed designation F 1018; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

^{ε1} NOTE—Keywords added editorially in October 2000.

1. Scope

1.1 This specification covers the design, material, and manufacture of steel emergency gear stowage lockers.

1.2 Emergency gear lockers shall be of four types (see Section 3).

1.3 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

2. Referenced Documents

2.1 ASTM Standards:

- A 36/A36M Specification for Carbon Structural Steel²
 - A 276 Specification for Stainless Steel Bars and Shapes³
 - A 366/A366M Specification for Commercial Steel (CS) Sheet, Carbon (0.15 Maximum Percent) Cold-Rolled⁴
 - A 513 Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing⁵
 - A 563 Specification for Carbon and Alloy Steel Nuts⁵
 - B 36 Specification for Brass Plate, Sheet, Strip, and Rolled Bar⁶
 - B 124 Specification for Copper and Copper Alloy Forging Rod, Bar, and Shapes⁶
 - B 176 Specification for Copper-Alloy Die Castings⁶
- ### 2.2 ANSI Standards:
- B18.1.1 Small Solid Rivets⁷
 - B18.6.3 Slotted and Recessed Head Machine Screws and Machine Screw Nuts⁷
 - B18.21.1 Lock Washers⁷
 - B27.2 Plain Washers⁷

2.3 Other Documents:

- ABS Rules for Building and Classing Steel Vessels⁸
- SSPC Specification 6⁹
- AWS D1.1 Welding Code¹⁰

3. Classification

3.1 Emergency gear lockers shall be classified in four types as follows:

3.1.1 *Type 1*—For stowage of one complete fireman's outfit, conforming to all requirements of all sections, figures, and details of this specification.

3.1.2 *Type 2*—For stowage of two complete firemen's outfits, conforming to all requirements of all sections, figures, and details of this specification.

3.1.3 *Type 3*—For stowage of one complete fireman's outfit, with locker dimensions in accordance with Figs. 2, 3, and 4 (dimensions only), and conforming to the requirements of 3.2, 3.3, 4.1, 5.2.4, and Sections 6 and 7 inclusive.

3.1.4 *Type 4*—For stowage of two complete firemen's outfits, with locker dimensions in accordance with Figs. 2, 3, and 4 (dimensions only), and conforming to the requirements of 3.2, 3.3, 4.1, 5.2.4, and Sections 6 and 7 inclusive.

3.2 One complete fireman's outfit shall consist of the following emergency gear (not included in this specification):

3.2.1 Self-contained breathing apparatus (24 by 14 by 11 in. (610 by 355 by 280 mm)).

3.2.2 Recharge air tank (7-in. (180-mm) diameter by 22 in. (560 mm) long).

3.2.3 Set protective clothing, including helmet, gloves, and boots.

3.2.4 Lifeline (150 ft (45 m), 18 by 18 by 10 in. (455 by 455 by 255 mm)).

3.2.5 Three-cell, explosion-proof flashlight with spare cells.

3.2.6 Flame safety lamp.

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² *Annual Book of ASTM Standards*, Vol 01.04.

³ *Annual Book of ASTM Standards*, Vol 01.05.

⁴ *Annual Book of ASTM Standards*, Vol 01.03.

⁵ *Annual Book of ASTM Standards*, Vol 15.08.

⁶ *Annual Book of ASTM Standards*, Vol 02.01.

⁷ Available from American National Standards Institute, 11 W. 42nd St., 13th Floor, New York, NY 10036.

⁸ Available from American Bureau of Shipping, 2 World Trade Center, 106th Floor, New York, NY 10048.

⁹ Available from Steel Structures Painting Council, 4400 5th Ave., Pittsburgh, PA 15213.

¹⁰ Available from American Welding Society, 550 N.W. Le Jeune Rd., Miami, FL 33135.

3.2.7 Fire axe.

3.3 In addition to the equipment listed in 3.2, each locker shall contain space for the following (not part of this specification):

3.3.1 First-aid kit, (1), (10 by 10 by 7 in. (255 by 255 by 180 mm)).

3.3.2 Spare air tanks, as space allows (see Figs. 2, 3, and 4).

4. Ordering Information

4.1 Order using this ASTM designation, year of issue, locker type, and finish.

5. Materials and Manufacture

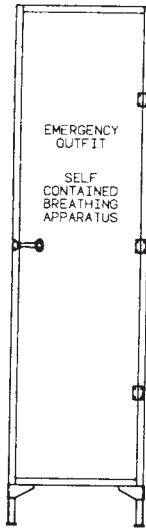
5.1 *Materials*—Materials shall be as specified in Table 1.

5.2 *Manufacture*:

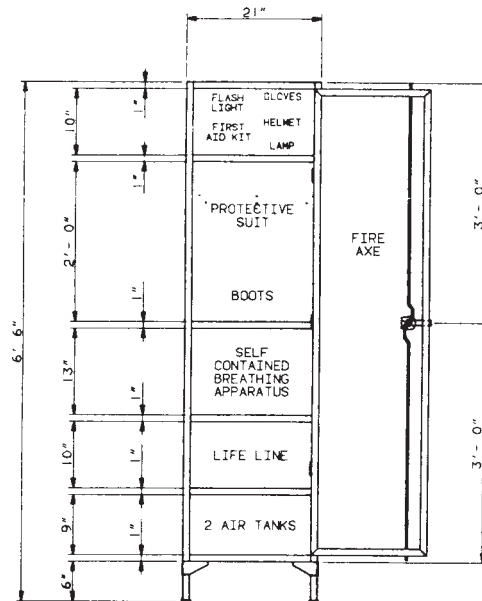
5.2.1 Mandatory dimensions and construction details for Types 1 and 2 are as depicted in Figs. 1-9.

5.2.2 Mandatory dimensions for Types 3 and 4 are as shown in Fig. 2, Fig. 3, and Fig. 5, respectively, and applicable details of Sections “A-A” and “B-B.” Alternative construction details are permissible.

5.2.3 Construction details depicted in Figs. 4-9, while specifically referring to locker Type 2, shall be adapted to suit locker Type 1.



ELEVATION - LOCKER TYPE

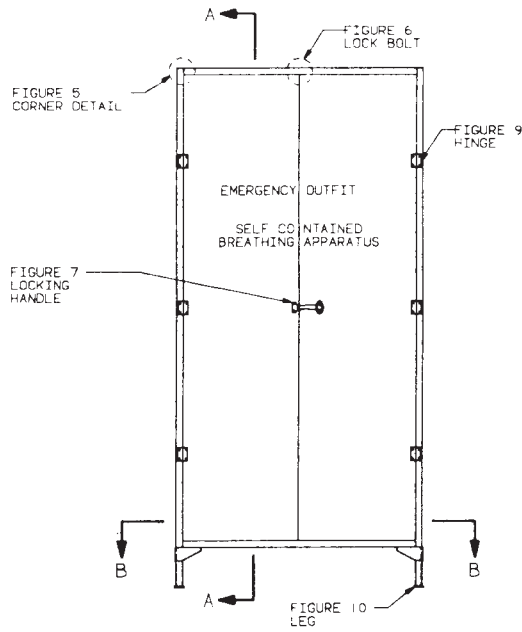


GENERAL ARRANGEMENT

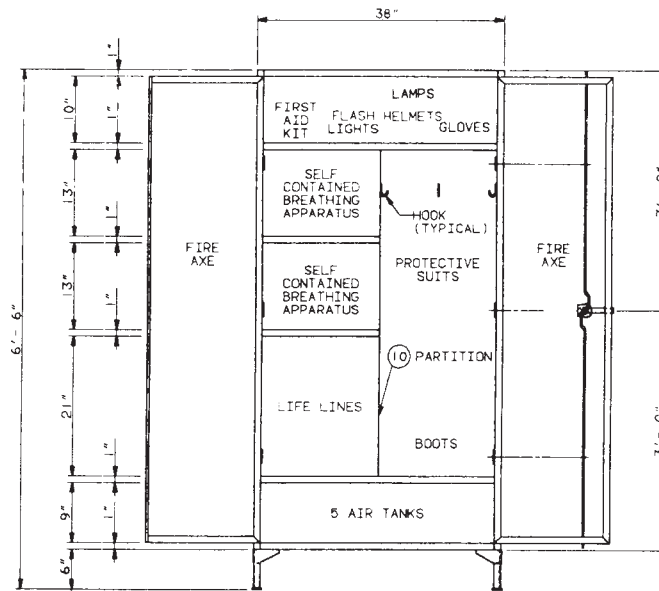
NOTE 1—1 in. = 25.4 mm.

NOTE 2—Approximately 2-in. high red lettering typical.

FIG. 1 Emergency Gear Stowage Locker—Type 1



ELEVATION - LOCKER TYPE 2, 3, 4



GENERAL ARRANGEMENT

NOTE 1—1 in. = 25.4 mm.

NOTE 2—Approximately 2-in. high red lettering typical.

FIG. 2 Emergency Gear Stowage Locker—Types 2, 3, and 4

5.2.4 Welded construction, in accordance with ABS Rules for Building and Classing Steel Vessels or AWS D 1.1 Structural Welding Code shall be used throughout, unless otherwise specified.

6. Dimensions and Tolerances

6.1 Dimensions are as indicated.

6.2 Tolerance— $\pm 1/16$ in. (1.5 mm).

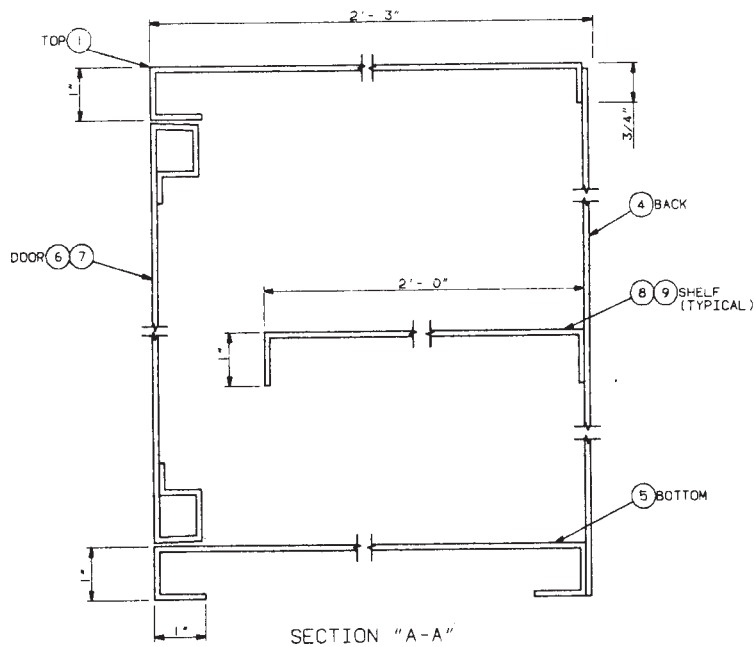
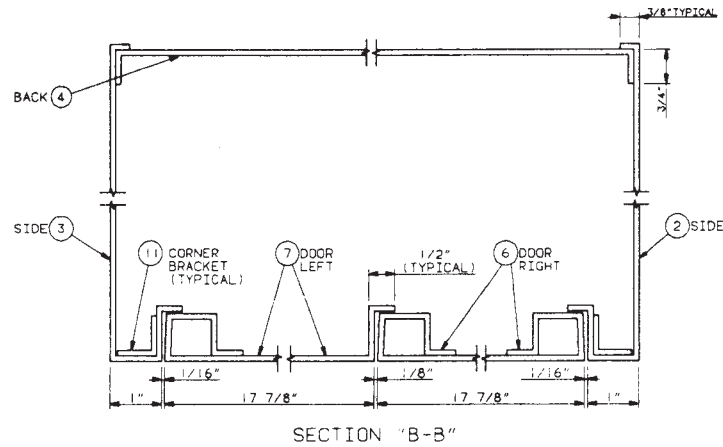


FIG. 3 Emergency Gear Stowage Locker—Types 2, 3, and 4 (Section "A-A")

7. Workmanship, Finish, and Appearance

7.1 Entire assembly shall be free of weld spatter, slag, splinters, sharp edges, burrs, projections, and other defects that may be hazardous to personnel.

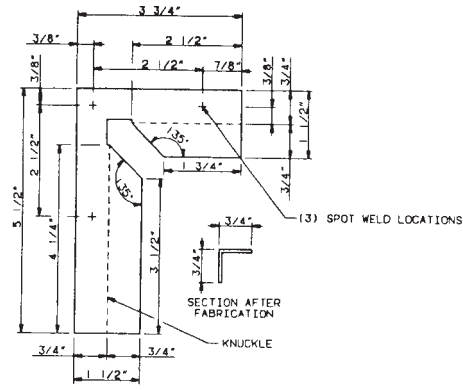
7.2 The locker shall be cleaned after assembly to a commercial finish in accordance with SSPC-SP6.

7.3 Unless otherwise required by the ordering documents, the unit shall have the manufacturer's standard baked-on enamel finish.

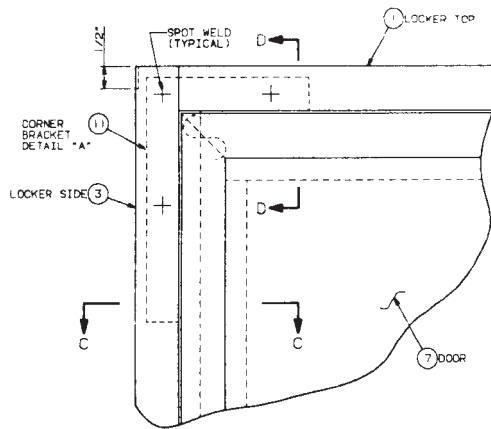
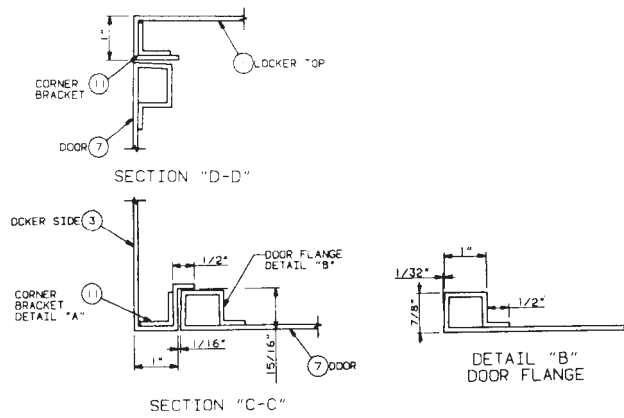
7.3.1 The color shall be specified in the ordering documents.

8. Keywords

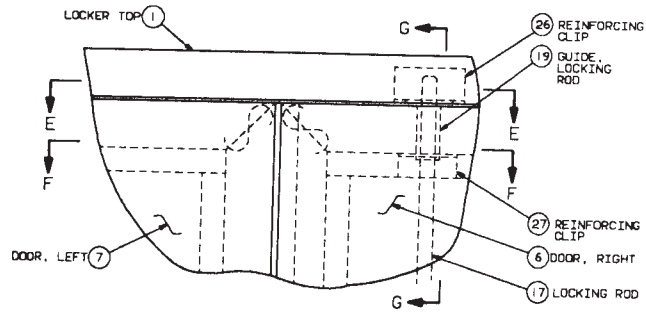
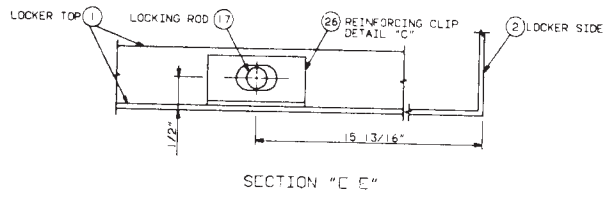
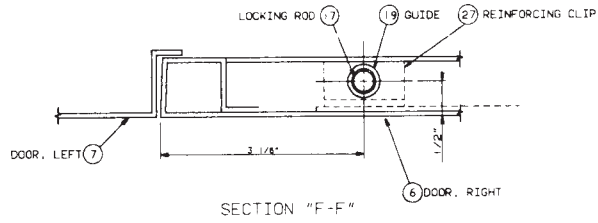
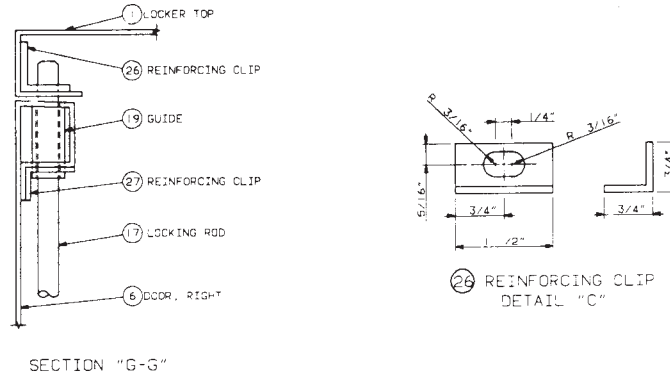
8.1 emergency gear; fireman's locker; fireman's outfit; locker; steel locker; stowage locker



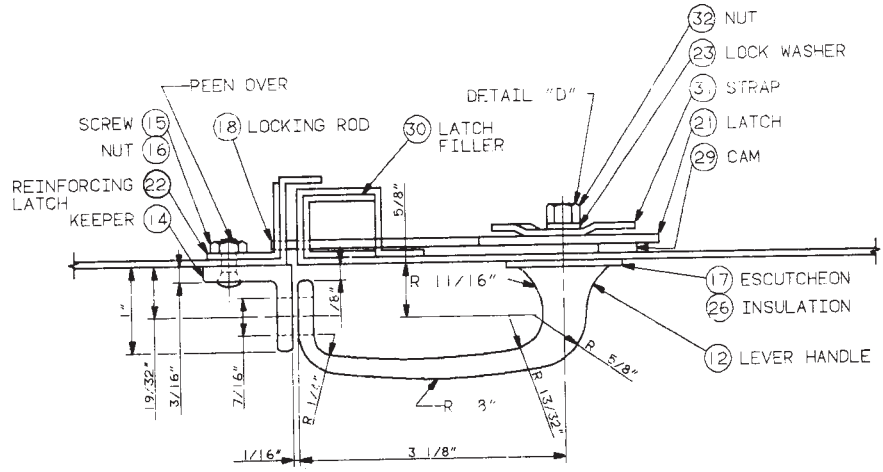
DETAIL "A"
CORNER BRACKET



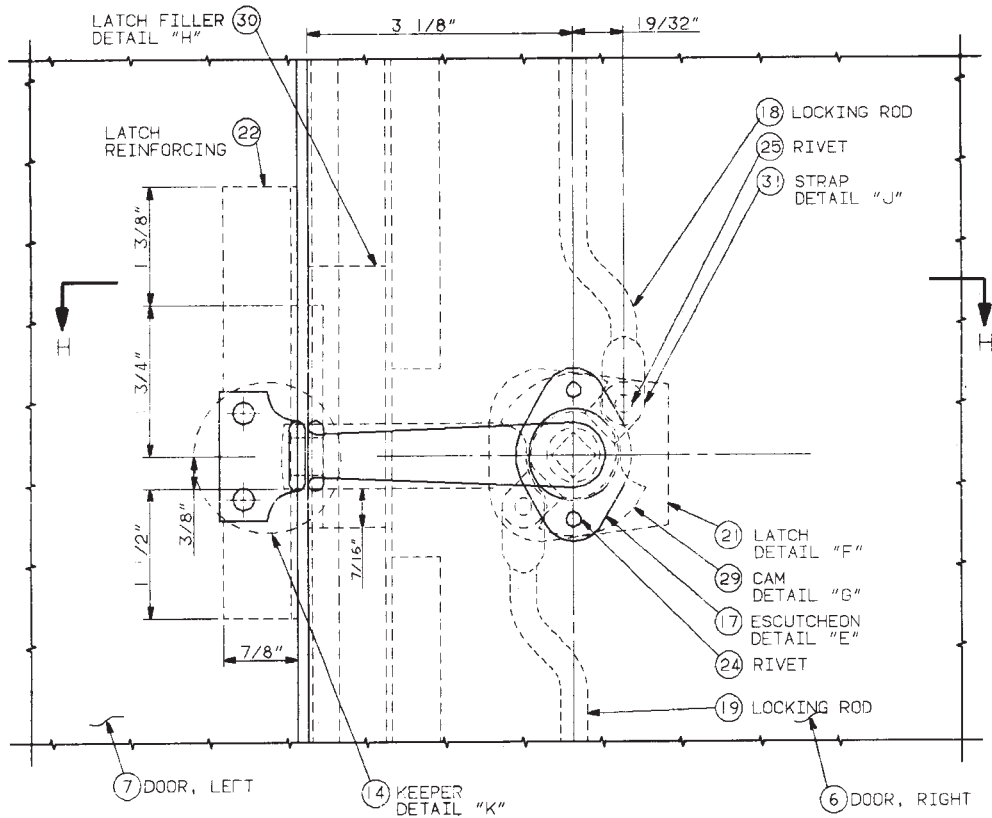
NOTE 1—1 in. = 25.4 mm.
FIG. 4 Corner



NOTE 1—1 in. = 25.4 mm.
FIG. 5 Lock Bolt

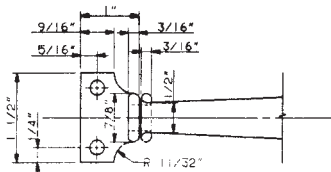
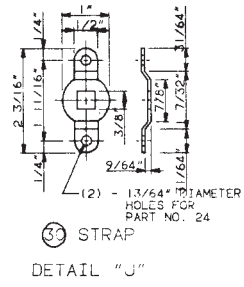
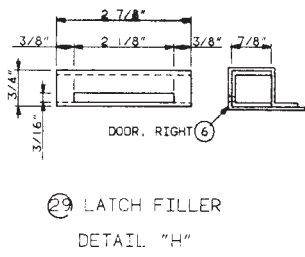
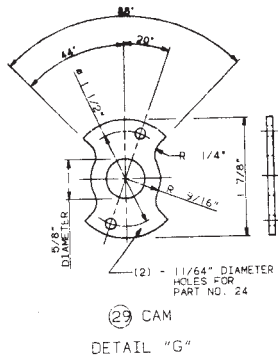
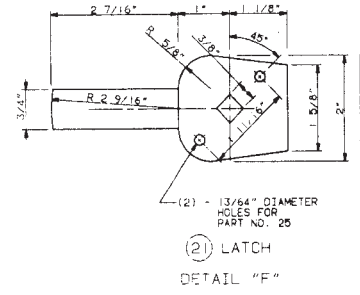
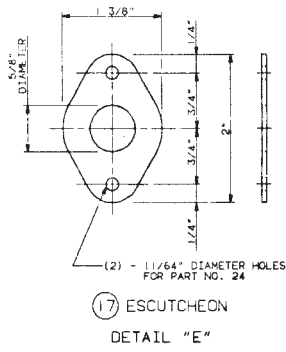
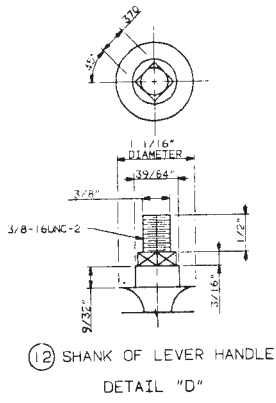


SECTION "H-H"



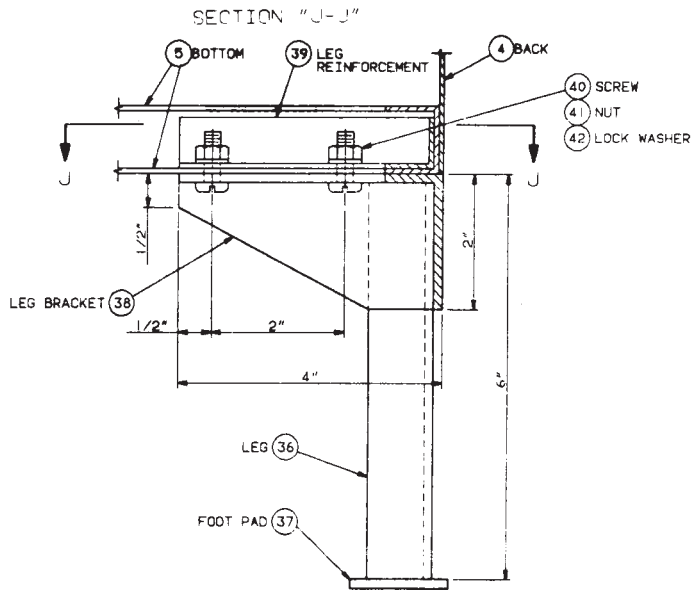
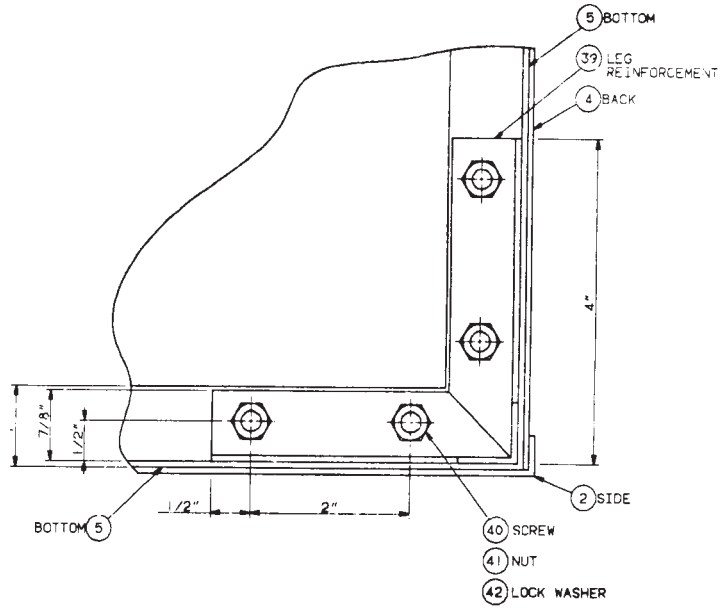
NOTE 1—1 in. = 25.4 mm.

FIG. 6 Locking Handle



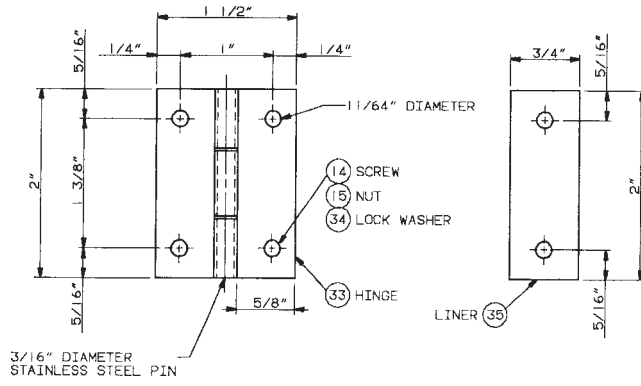
NOTE 1—1 in. = 25.4 mm.

FIG. 7 Latch—Miscellaneous Details



NOTE 1—1 in. = 25.4 mm.

FIG. 8 Leg



NOTE 1—1 in. = 25.4 mm.

FIG. 9 Hinge and Liner

TABLE 1 Parts List for Locker Type 2

NOTE 1—1 in. = 25.4 mm.

	Description	Item Number	Quantity	ASTM, ANSI Documents
Locker top	sheet, 16 gage × 39 in. long × 30 in. wide, carbon steel	1	1	A 366/A 366M
Locker side, right	sheet, 16 gage × 72 in. long × 29 $\frac{5}{8}$ in. wide, carbon steel	2	1	A 366/A 366M
Locker side, left	sheet, 16 gage × 72 in. long × 29 $\frac{5}{8}$ in. wide, carbon steel	3	1	A 366/A 366M
Locker back	sheet, 16 gage × 72 in. long × 39 $\frac{1}{4}$ in. wide, carbon steel	4	1	A 366/A 366M
Locker bottom	sheet, 16 gage × 42 in. long × 31 in. wide, carbon steel	5	1	A 366/A 366M
Door, right	sheet, 16 gage × 73 in. long × 25 in. wide, carbon steel	6	1	A 366/A 366M
Door, left	sheet, 16 gage × 73 in. long × 23 in. wide, carbon steel	7	1	A 366/A 366M
Shelf, full-width	sheet, 16 gage × 40 in. long × 26 in. wide, carbon steel	8	2	A 366/A 366M
Shelf, half-width	sheet, 16 gage × 26 in. long × 21 in. wide, carbon steel	9	2	A 366/A 366M
Partition, vertical	sheet, 16 gage × 52 in. long × 25 in. wide, carbon steel	10	1	A 366/A 366M
Corner bracket	sheet, 16 gage × 5 $\frac{1}{2}$ in. long × 3 $\frac{3}{4}$ in. wide, carbon steel	11	4	A 366/A 366M
Lever handle, right door	cast brass	12	1	B 176 (UNS C 86500)
Keeper	brass	13	1	B 124 (UNS C 67500)
Machine screw	oval-head, #10-24 UNC-2A × length to suit brass	14	14	ANSI B18.6.3 B 124 (UNS C 67500)
Nut	hexagon machine, #10-24 UNC-2B brass	15	14	ANSI B18.6.3 B 124 (UNS C 67500)
Escutcheon	sheet, 16 gage × 2 in. long × 1 $\frac{3}{8}$ in. wide, brass	16	1	B 36
Locking rod, upper	round bar, $\frac{5}{16}$ -in. diameter × 37 in. long, carbon steel	17	1	A 36/A 36M
Lock rod, lower	round bar, $\frac{5}{16}$ -in. diameter × 37 in. long, carbon steel	18	1	A 36/A 36M
Guide, locking rod	tube, $\frac{1}{2}$ -in. outside diameter × 0.065-in. wall thickness × 1 $\frac{1}{8}$ -in. long, carbon steel	19	2	A 513
Latch	sheet, 12 gage × 3 $\frac{11}{16}$ in. long × 2 in. wide, carbon steel	20	1	A 366/A 366M
Reinforcing, latch	sheet, 16 gage × 5 in. long × 1 $\frac{3}{4}$ in. wide, carbon steel	21	1	A 366/A 366M
Lock washer	$\frac{3}{8}$ -in. nominal size, carbon steel	22	1	ANSI B18.21.1
Rivet	brazier head, $\frac{5}{32}$ -in. diameter	23	2	ANSI B18.1.1
Rivet	flathead, $\frac{3}{16}$ -in. diameter	24	2	ANSI B 18.1.1
Insulation	wool felt, $\frac{3}{64}$ in. thick × 2 in. long × 1 $\frac{3}{8}$ in. wide	25	1	
Reinforcing clip	sheet, 12 gage × 1 $\frac{1}{2}$ in. square, carbon steel	26	1	A 366/A 366M
Reinforcing clip	sheet, 16 gage × 1 $\frac{1}{4}$ in. square, carbon steel	27	1	A 366/A 366M
Cam	sheet, 12 gage × 1 $\frac{7}{8}$ in. square, carbon steel	28	1	A 366/A 366M
Latch filler	sheet, 16 gage × 2 $\frac{7}{8}$ in. long × 2 $\frac{1}{2}$ in. wide, carbon steel	29	1	A 366/A 366M
Strap	sheet, 16 gage × 2 $\frac{1}{2}$ in. long × 1 in. wide, carbon steel	30	1	A 366/A 366M
Nut	hexagon, $\frac{3}{8}$ -16 UNC-2B, carbon steel	31	1	A 563
Liner	sheet, 16 gage × 1 $\frac{1}{2}$ in. long × 1 $\frac{1}{8}$ in. wide, carbon steel	32	1	A 366/A 366M
Hinge	sheet, 16 gage × 3 in. long × 1 $\frac{1}{2}$ in. wide, carbon steel included: $\frac{3}{16}$ -in. diameter × 1 $\frac{1}{2}$ -in. long stainless steel pin	33	6	A 366/A 366M A 276
Lock washer	$\frac{3}{16}$ -in. nominal size, $\frac{7}{16}$ -in. outside diameter, carbon steel	34	12	ANSI B18.21.1
Liner, hinge	sheet, 16 gage × 2 in. long × $\frac{3}{4}$ in. wide, carbon steel	35	6	A 366/A 366M
Leg	angle, 1 × 1 × $\frac{1}{8}$ × 6 in. long, carbon steel	36	4	A 36/A 36M
Foot pad	sheet, 10 gage × 1 $\frac{1}{2}$ in. square, carbon steel	37	4	A 366/A 366M
Leg bracket	sheet, 10 gage × 8 in. long × 3 in. wide, carbon steel	38	4	A 366/A 366M
Leg reinforcement	sheet, 10 gage × 8 in. long × 1 $\frac{1}{4}$ in. wide—bend to form $\frac{7}{8}$ - × $\frac{7}{8}$ -in. angle, carbon steel	39	4	A 366/A 366M
Machine screw	$\frac{1}{4}$ -20UNC-2A × $\frac{3}{4}$ in. long, carbon steel	40	16	ANSI B18.6.3
Nut	hexagon machine, $\frac{1}{4}$ -20UNC-2B, carbon steel	41	16	ANSI B18.6.3
Lock washer	$\frac{1}{4}$ -in. nominal size, carbon steel	42	16	ANSI B18.21.1

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