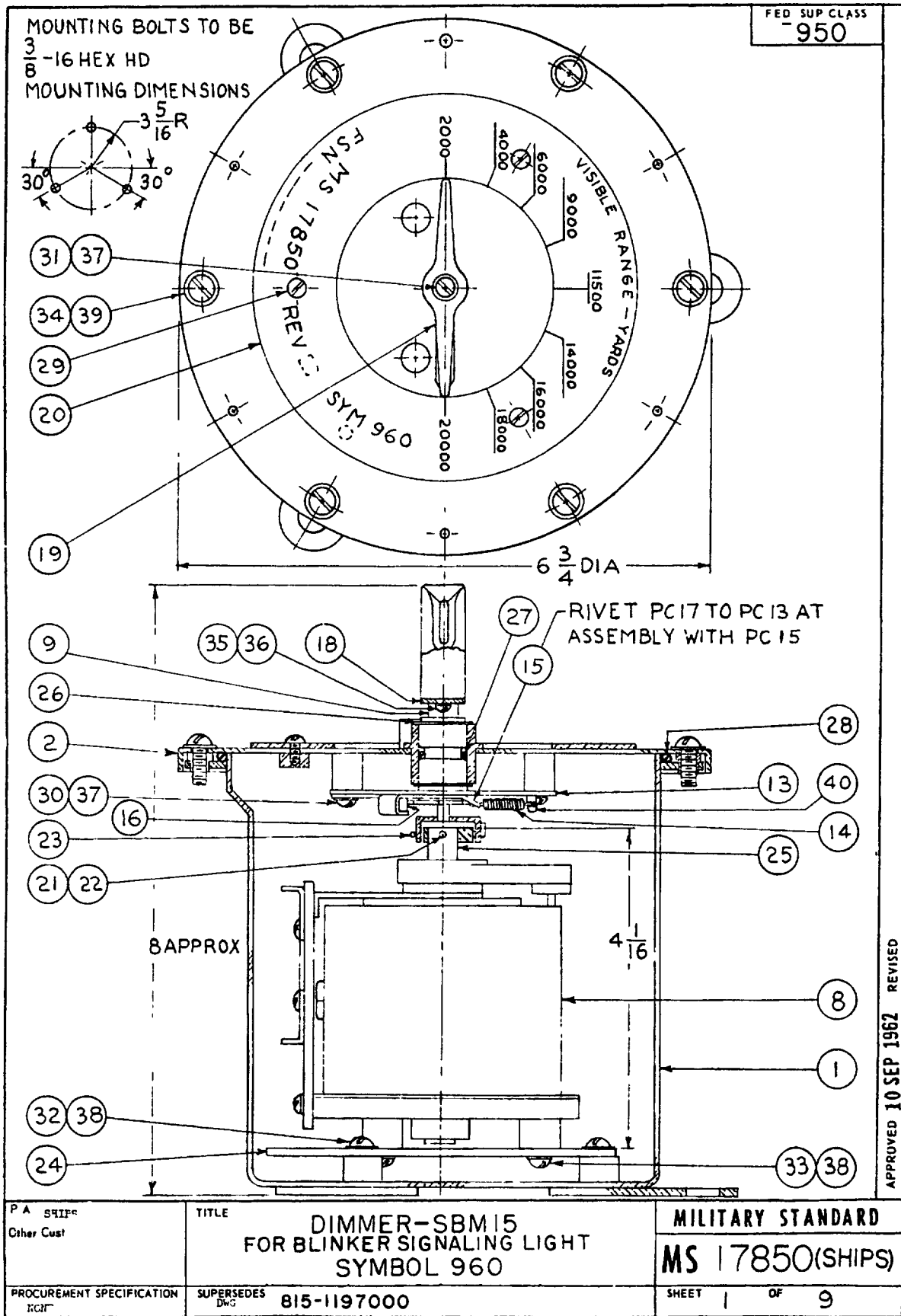


NOTICE—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government hereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have furnished information as in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation or conveying any right or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

This standard has been approved by the BUREAU OF SHIPS Department of the NAVY and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.



APPROVED 10 SEP 1962 REVISED

NOTICE—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation or conveying any rights or permission to manufacture use or sell any patented invention that may in any way be related thereto.

This standard has been approved by the BUREAU OF SHIPS Department of the NAVY and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

LIST OF MATERIAL - QUANTITIES FOR ONE UNIT						FED SUP CLASS 5950
PC NO	NAME	QTY	MATERIAL	SPECIFICATION	REQUIREMENTS	
1	ASSY, 80X	1			MS17848-2 MOD	
2	ASSY, COVER					
3	COVER					
4	BUSHING	1	MANGANESE BRONZE			
5	PAD	2	BRASS			
6	PAD	2	BRASS			
7	PAD, IDENTIFICATION PLATE	3	BRASS			
8	AUTOTRANSFORMER	1			REQ'T 3 & 6	
9	ASSY SHAFT					
10	DISC, INDEXING	1	BERYLLIUM COPPER			
11	SHAFT	1	CRES			
12	COUPLER	1	BRASS			
13	BASEPLATE	1	BRASS			
14	SPRING	2	MUSIC WIRE			
15	ARM, INDEXING	2	BERYLLIUM COPPER			
16	ROLLER, INDEXING	2	STEEL			
17	STUD, INDEXING ARM	2	STAINLESS STEEL			
18	POINTER	1	BRASS			
19	HANDLE	1	BRASS			
20	PLATE, IDENTIFICATION	1	BRASS			
21	PLATE, COUPLER	1	STEEL			
22	PIN, SPRING 1/2 LG X .062 THK	1	CRES PHOS BRONZE			
23	SPRING	1	BRASS			
24	PLATE, MOUNTING	1	BRASS			
25	SHAFT, TRANSFORMER				REQ'T 5 & 7	
26	RING, RETAINING	2	CRES		MS 16632-4062	
27	PACKING, "O" RING	1	NEOPRENE		AN6227-9	
28	GASKET "O" RING	1	NEOPRENE		AN6230-32	
29	SCREW, RH., #6-32 X 3/16 LG	3	BRASS			
30	SCREW, RH., #6-32 X 3/8 LG	2	BRASS			
31	SCREW, RH., #6-32 X 1/2 LG	1	BRASS			
32	SCREW, RH., #10-24 X 5/16 LG	3	BRASS			
33	SCREW, RH., #10-32 X 3/8 LG	3	BRASS			
34	SCREW, RH., #10-24 X 1/2 LG	6	BRASS			
35	SCREW, RH., #5-40 X 5/16 LG	2	BRASS			
36	WASHER, LOCK, FOR #5 SCREW	2	PHOS BRONZE			
37	WASHER, LOCK, FOR #6 SCREW	3	PHOS BRONZE			
38	WASHER, LOCK, FOR #10 SCREW	6	PHOS BRONZE			
39	WASHER, 9/16 O.D. X 13/64 I.D. X .032 THK	6	BRASS			
40	STUD, SPRING	2	STEEL			

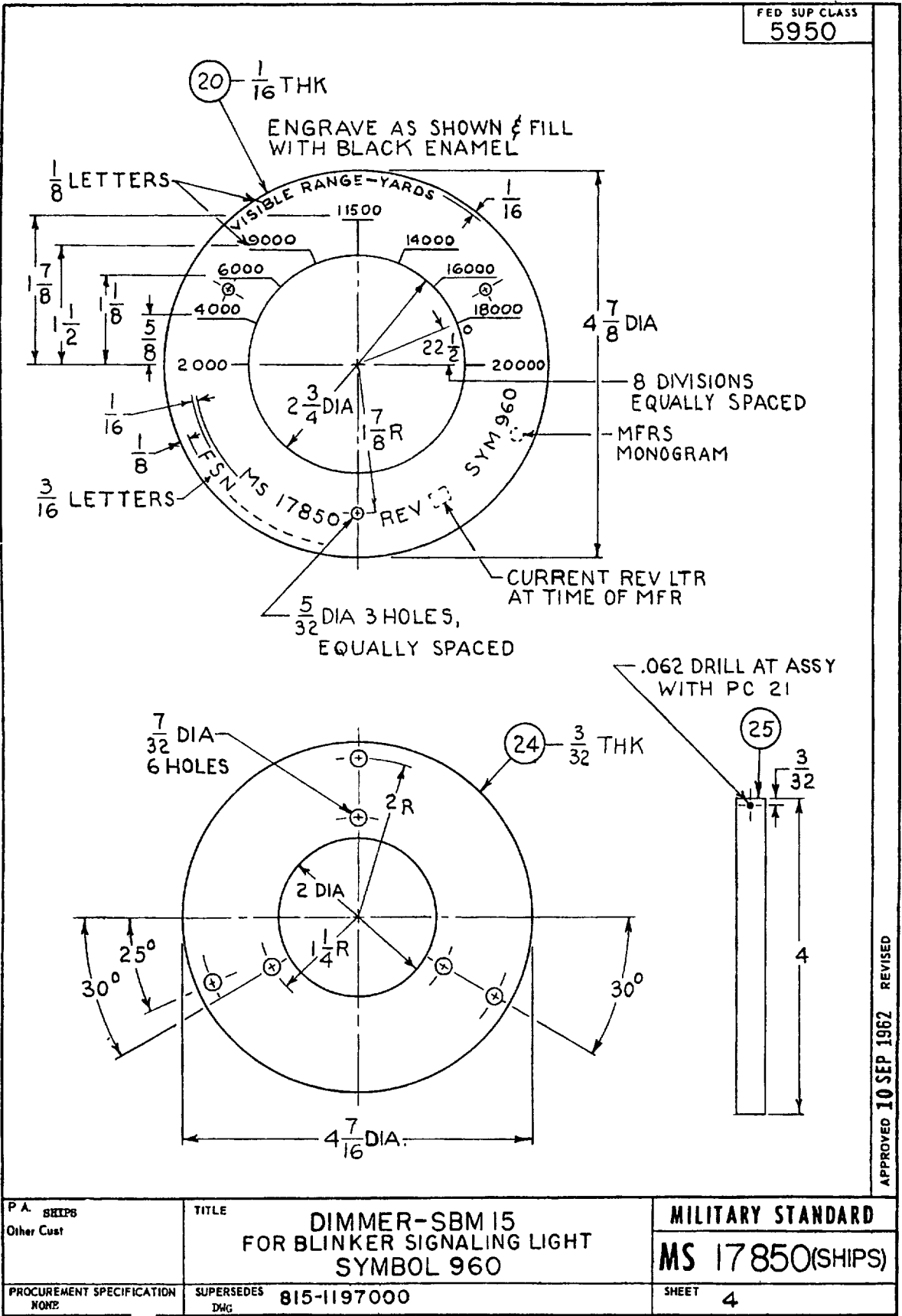
P A SHIPS Other Cust	TITLE DIMMER-SBM15 FOR BLINKER SIGNALING LIGHT SYMBOL 960	MILITARY STANDARD MS 17850(SHIPS)
PROCUREMENT SPECIFICATION NOTE	SUPERSEDES DWC. 815-1197000	SHEET 2

APPROVED 10 SEP 1962 REVISED

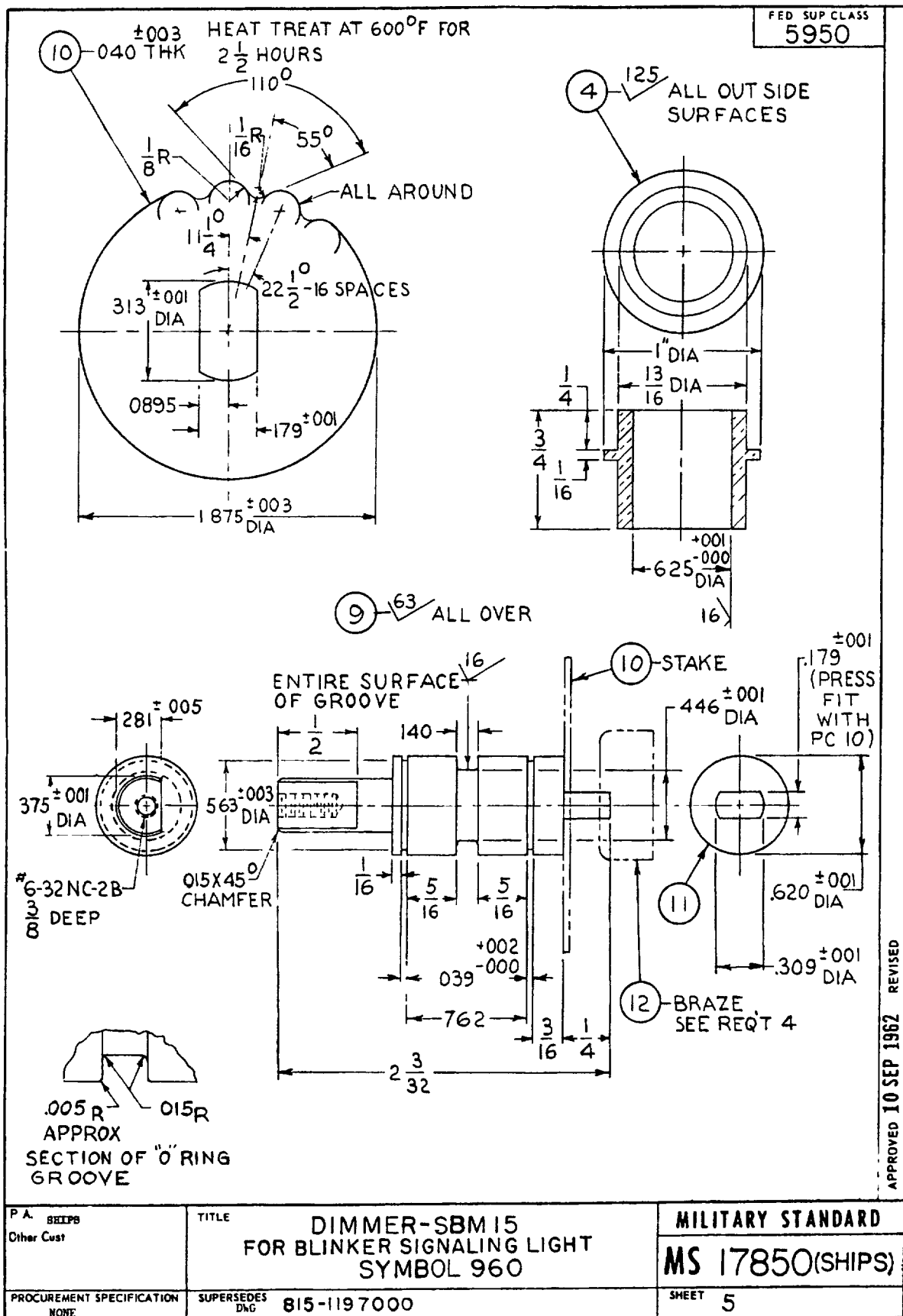


NOTICE—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation the United States Government thereby incurs no responsibility and the fact that the Government may have furnished the data in any way implied the use of the data in any way is not to be regarded as an endorsement or approval by the Government of the use of the data in any way other than in connection with the procurement operation for which it was furnished.

This standard has been approved by the BUREAU OF SHIPS Department of the NAVY and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.



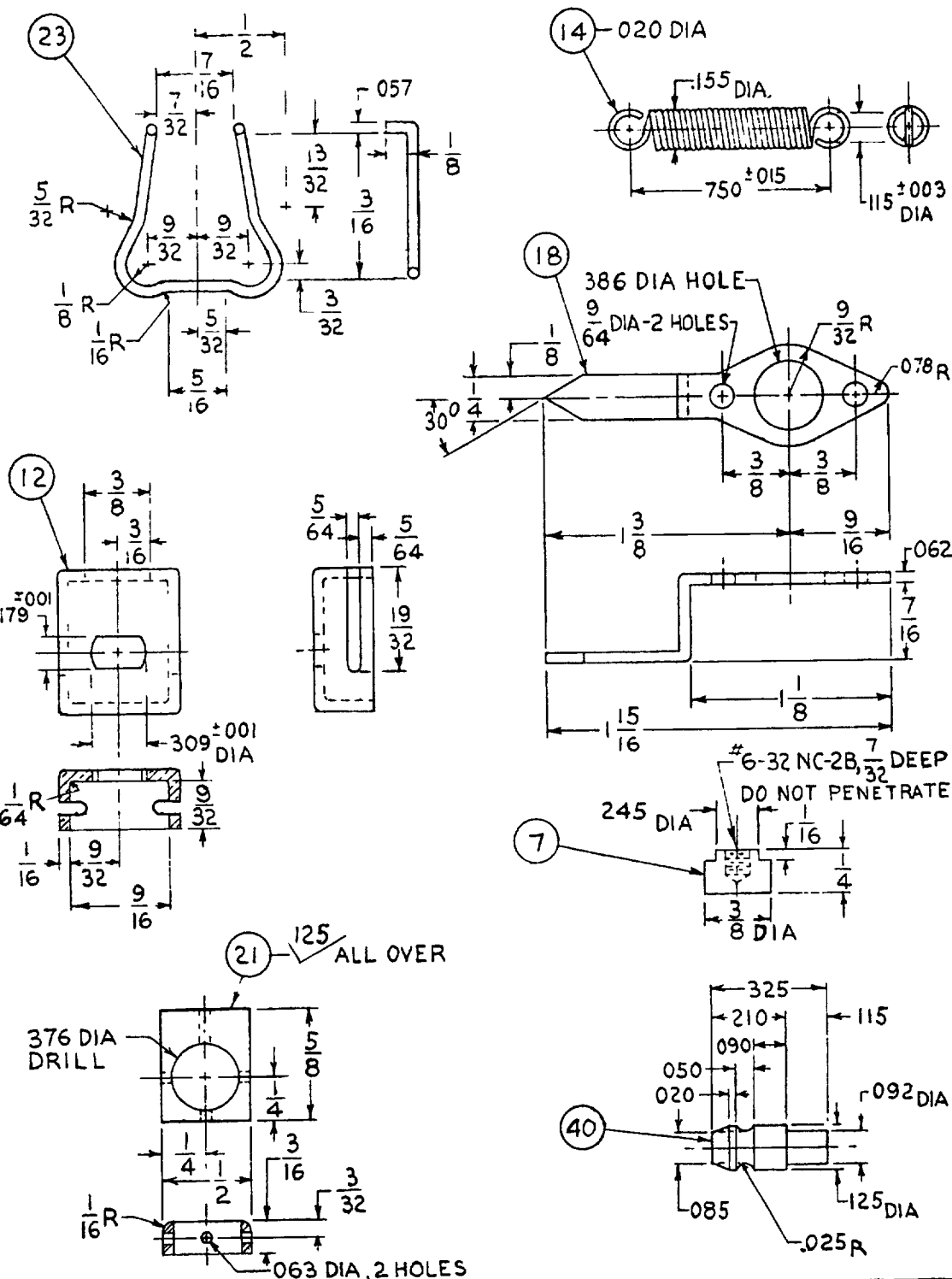
NOTICE: When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have furnished, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.



This standard has been approved by the BUREAU OF SHIPS, Department of the NAVY, and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

NOTICE—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement, the Government assumes no responsibility for any infringement by others. The fact that the Government may have furnished, in connection with the procurement, a drawing, specification, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation in conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

This standard has been approved by the BUREAU OF SHIPS Department of the NAVY and is mandatory for use by that activity. All other military activities are required to follow this standard where suitable.

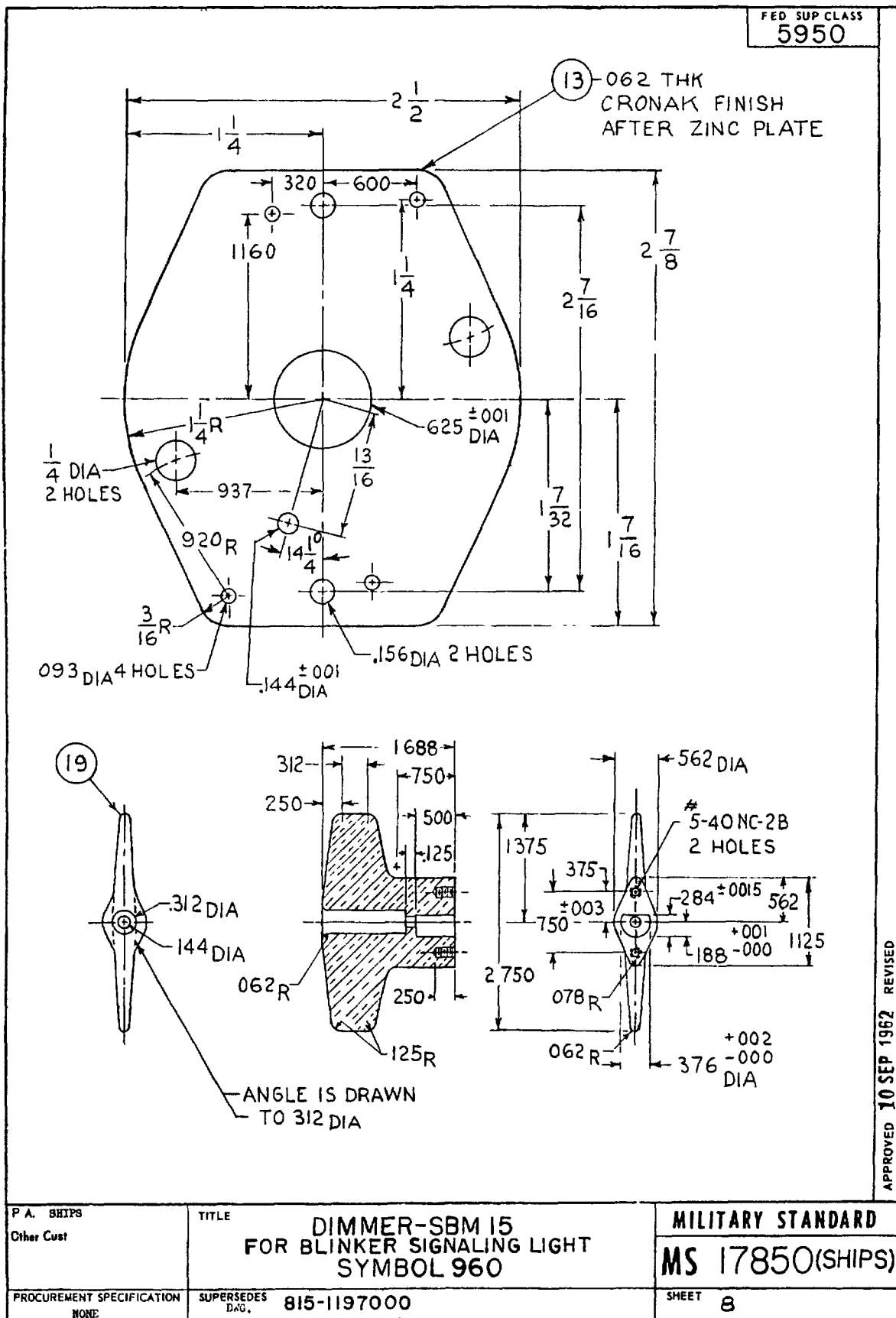


APPROVED 10 SEP 1962 REVISED

P. A. 881PS Other Cust	TITLE DIMMER-SBM 15 FOR BLINKER SIGNALING LIGHT SYMBOL 960	MILITARY STANDARD MS 17850(SHIPS)
PROCUREMENT SPECIFICATION NONE	SUPERSEDES DWG. 815-1197000	SHEET 7

NOTICE—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever and the fact that the Government may have furnished, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

This standard has been approved by the BUREAU OF SHIPS Department of the NAVY and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

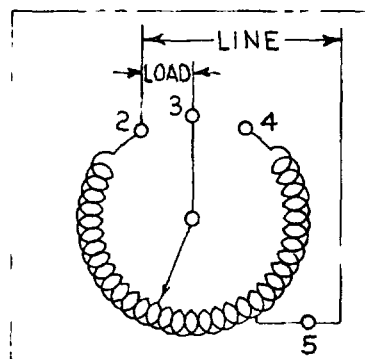


FED SUP CLASS
5950

TABLE (SEE REQ'T 6)

OUTPUT VOLTAGE	VISIBLE RANGE YARDS (APPROX)
120	20,000
109.8	18,000
99.6	16,000
89.4	14,000
79.2	11,500
69.0	9,000
58.8	6,000
48.6	4,000
38.4	2,000

WIRING DIAGRAM



REQUIREMENTS

1. DETAIL AND GENERAL REQUIREMENTS SHALL COMPLY WITH NOTES 16, 17, 20, 21, 22, 23, 24, 25, 27 & 44 OF MILITARY STANDARD MS16662.
2. SAMPLING, INSPECTION AND TEST PROCEDURE SHALL COMPLY WITH NOTES 37, 38, 40, 54, 55, 56B & 65 OF MILITARY STANDARD MS16662.
3. AUTOTRANSFORMER, PC 8, SHALL MEET THE FOLLOWING REQUIREMENTS INPUT, 115 VOLTS, 50 TO 60 CYCLES, SINGLE PHASE. OUTPUT, 0-115 & 0-135 VOLTS. RATED OUTPUT IN AMPS. 2, MAX. OUTPUT IN AMPS 3, KVA 0.345. OVERALL DIMENSIONS 3 1/2 DIA EXCLUDING TERMINALS, 3 7/8 HIGH EXCLUDING HANDLE. TERMINAL DATA 5 TERMINALS, SCREW LUG TYPE, LOCATED ON SIDE. MOUNTING DATA 3 MOUNTING HOLES TAPPED FOR #10-32 SCREWS ON 1 1/4 RADIUS, EQUALLY SPACED.
4. CARE SHALL BE TAKEN NOT TO DRAW TEMPER FROM PC 10 WHILE BRAZING PCS 11 & 12.
5. VARIABLE BRUSH ARM ON THE AUTOTRANSFORMER, PC 8, SHALL BE ADJUSTED TO AN OUTPUT OF 120 VOLTS WHEN HANDLE, PC 19, IS IN THE 20,000 YARD RANGE WITH LINE INPUT OF 115 VOLTS AC.
6. FOR EACH CHANGE IN HANDLE POSITION THE AUTOTRANSFORMER OUTPUT SHALL VARY APPROXIMATELY 10 ± 0.5 VOLTS. SEE TABLE.
7. IN ADJUSTING VARIABLE BRUSH ARM, CARE SHALL BE TAKEN TO SEE THAT GOOD CONTACT IS MAINTAINED BETWEEN BRUSH AND WINDINGS.

NOTES

1. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.
2. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

(Project 5950-110666h)

P A SHIPS Other Cust	TITLE DIMMER-SBM 15 FOR BLINKER SIGNALING LIGHT SYMBOL 960	MILITARY STANDARD
		MS 17850(SHIPS)
PROCUREMENT SPECIFICATION NCRB	SUPERSEDES 27 815-1197000	SHEET 9

NOTICE—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have furnished such data in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner increasing the liability of any other person or corporation or conveying any rights or permission to manufacture use or sell any patented invention that may in any way be related thereto.

This standard has been approved by the BUREAU OF SHIPS Department of the NAVY and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

APPROVED 10 SEP 1962 REVISED