



BILL OF MATERIALS				
ITEM NO.	NO. REQ.	DESCRIPTION	MATL.	REMARKS
1	1	BUOY WRAPPER	STEEL	3/16 THK.
2	1	FLANGED HEAD	STEEL	3/16 THK.
3	1	CONICAL WRAPPER	STEEL	3/16 THK.
4	1	BOTTOM PLATE	STEEL	3/16 THK.
5	1	MOORING BAR	STEEL	4 WD. x 3/8 THK.
6	6	RUDDER GUSSETS	STEEL	3/16 THK.
7	1	UPPER RUDDER	STEEL	3/16 THK.
8	1	LOWER RUDDER	STEEL	1/4 THK.
9	2	RUDDER ANGLE	STEEL	L 3 x 3 x 3/16 x 8 LG.
10	6	COUNTERWEIGHT PLATE	STEEL	10 WD. x 23 LG. x 3/8 THK.
11	2	HEX HEAD BOLT	STAIN. STEEL	3/4-10 UNC-2A x 4 LG.
12	2	HEX HEAD NUT	STAIN. STEEL	3/4-10 UNC-2B
13	2	LOCK WASHER	STAIN. STEEL	3/4 NOMINAL
14	1	WRAPPER STIFFNER	STEEL	2 WD. x 3/16 THK.
15	3	RADAR REFLECTOR SUPPORT	STEEL	3/4 SQ.
16	1	SPACER BAR	STEEL	3/4 SQ.
17	2	RADAR REFLECTOR	STEEL	12 GA.
18	1	TOP PLATE	STEEL	10 SQ. x 1/4 THK.
19	2	HALF COUPLING	STAIN. STEEL	3/4 I.P.S.
20	2	PIPE PLUG	STAIN. STEEL	3/4 I.P.S. HEX HEAD
21	4	RETROREFLECTIVE MATERIAL	-----	RED 6 WD x 12 LG.

**NOTES:**  
 1. SEE LATEST REVISION OF CIVIL ENGINEERING SPECIFICATION NO. 464 FOR FABRICATION REQUIREMENTS.  
 2. INSTALL ITEMS 19 ON THE LEFT HAND SIDE OF ITEMS 5 AS SHOWN.

REV.	DATE	APPR.	DESCRIPTION	BY
A	10-20-16	W.D.	ADDED WATER DRAINAGE CUT OUT TO ITEM 17. ADDED DETAIL E. DELETED 2 EA ITEM 10.	S.M.
DESIGNED BY:	S.M.		U.S. COAST GUARD HEADQUARTERS	
DRAWN BY:	S.M.		CIVIL ENGINEERING	
TRACED BY:			2010 4TH CLASS CAN	
CHECKED BY:			RADAR REFLECTOR SPECIAL	
REVIEWED BY:			4CRS	
PROJECT ENGINEER	S. McEvoy			
REVIEWED BY:	W. Danzik			
CG-432B	APPROVED:		DATE	
REVIEWED BY:	S. Walker		Stan Walker for 03/15/2011	
CG-432	CHIEF, CG-43			
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES: DIM. ±1/8 ANG. ±1°			DRAWING NUMBER	
			121196	
			REV. A	
SCALE: AS NOTED			SHEET 1 OF 1	