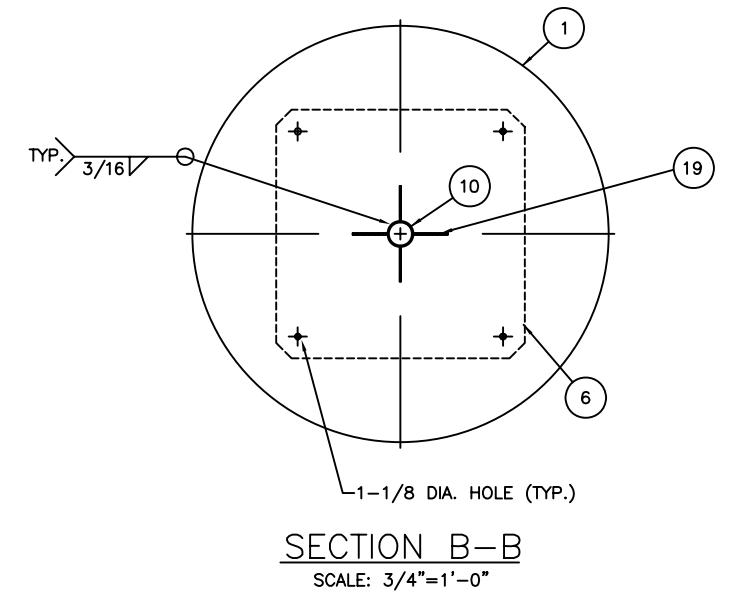
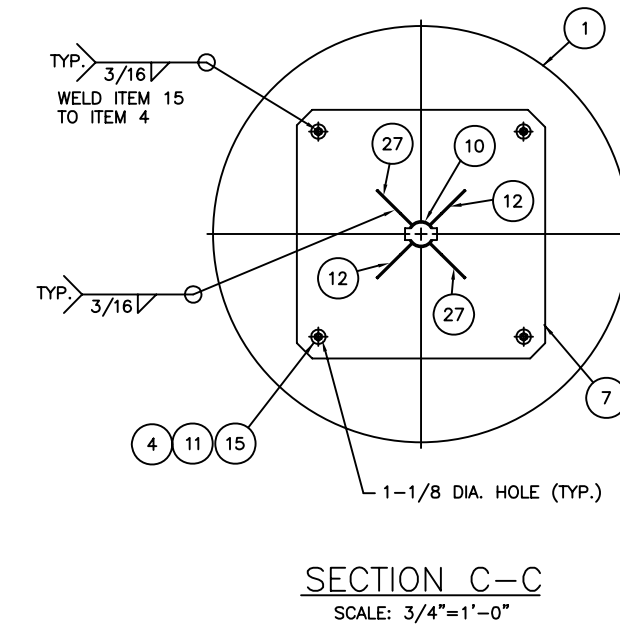
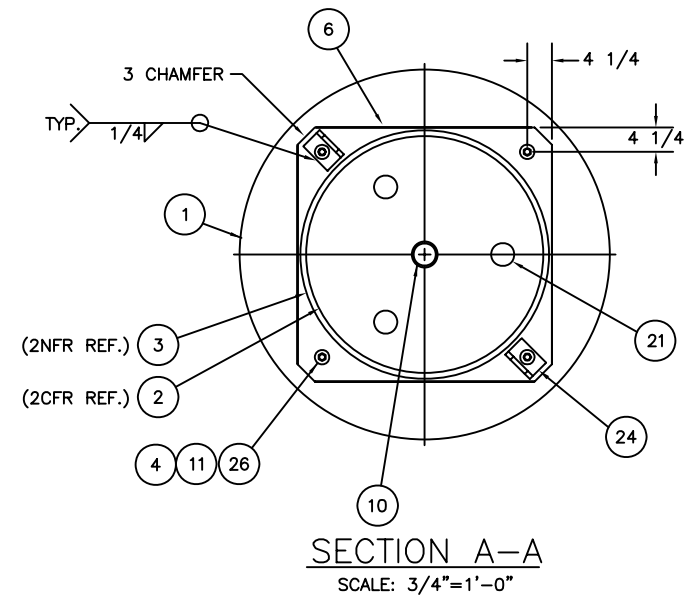
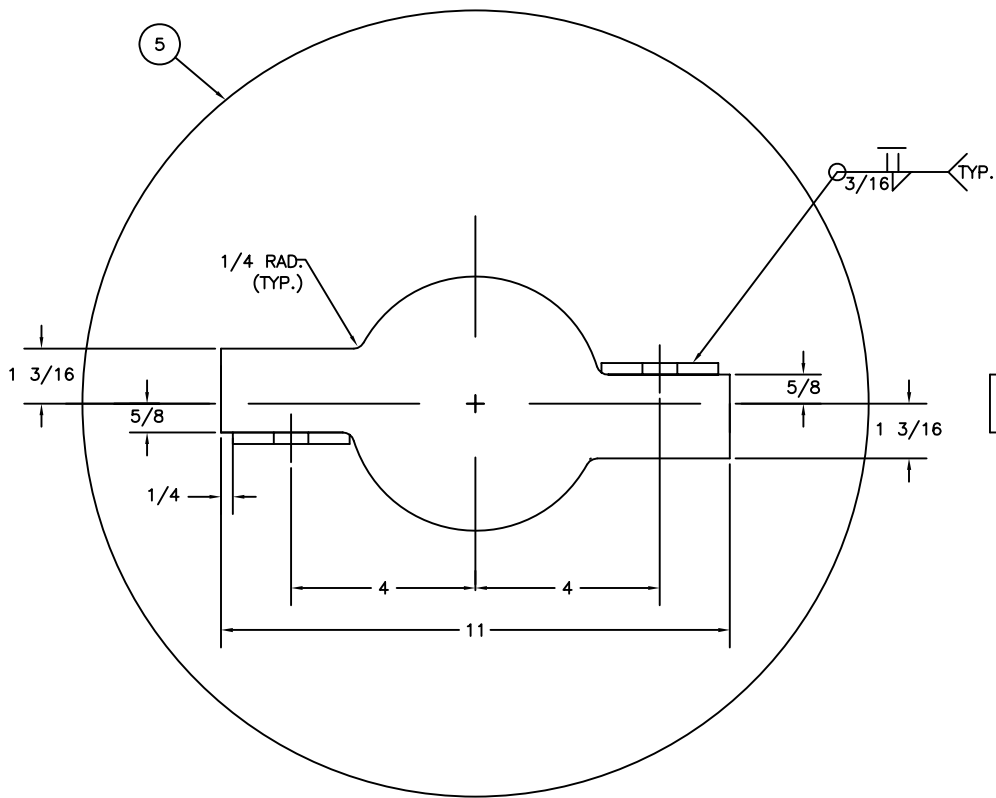
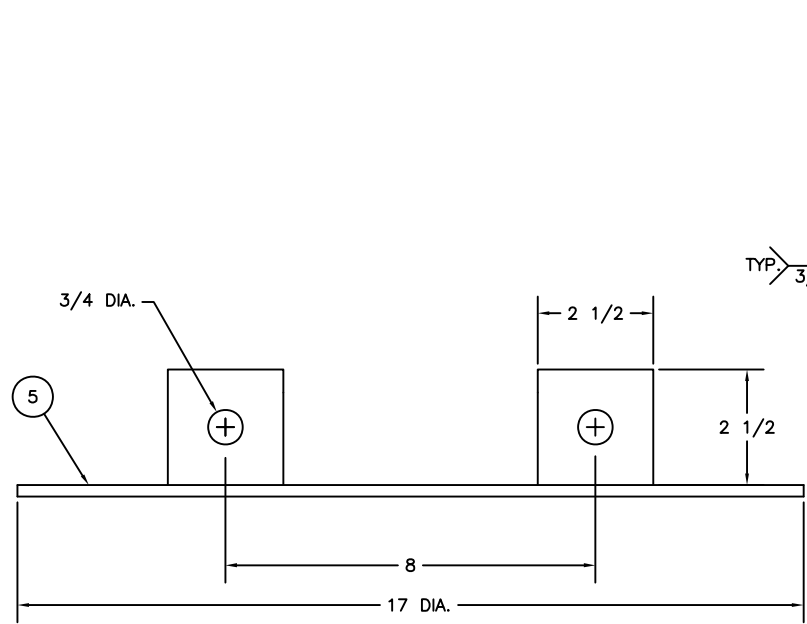


2CFR  
SCALE: 3/4"=1'-0"

2NFR  
SCALE: 3/4"=1'-0"



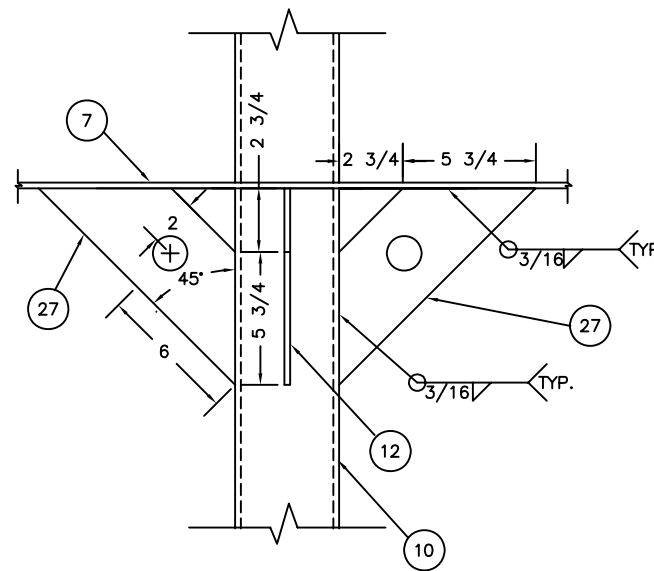
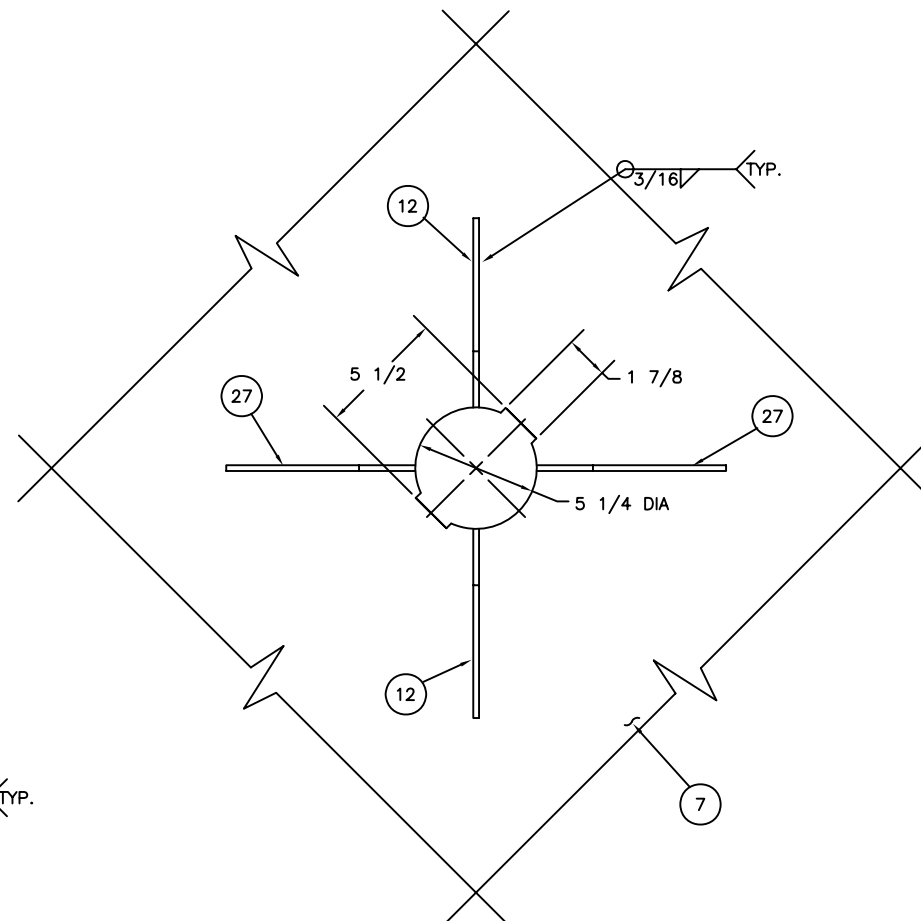
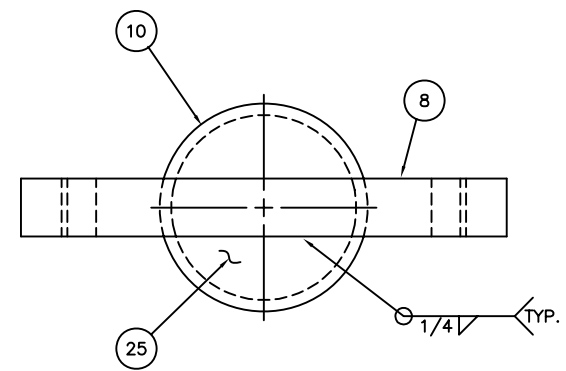
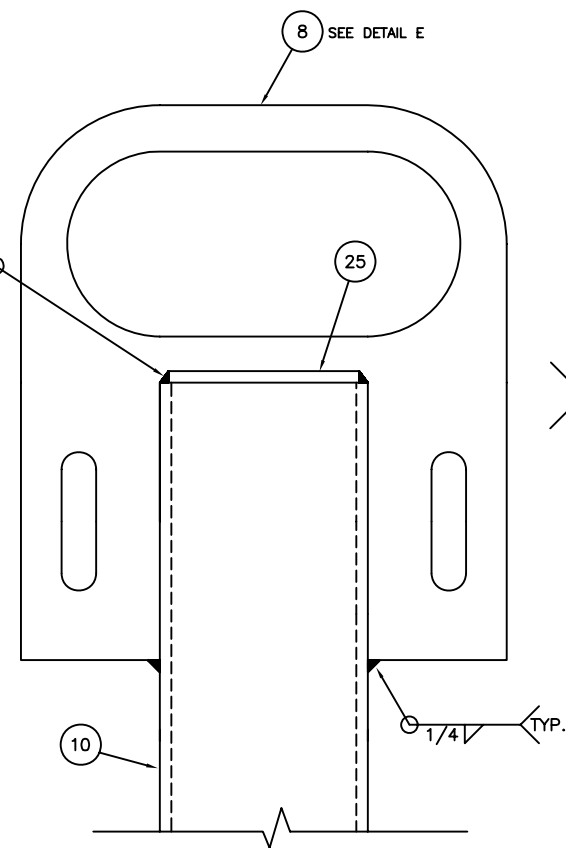
REV.	DATE	APPR.	DESCRIPTION	BY
E	5-15-07	S.W.	CHANGED ITEMS 1, 2 & 3 FROM 3 PCF TO 4 PCF.	S.M.
D	1-5-99	S.W.	MODIFIED QTY OF ITEMS 12 AND 21. ADDED ITEM 27. REORGANIZED NOTES.	S.M.
C	4-21-98	S.W.	MOD QTY OF ITEM 15. ADDED ITEM 26. DEL ITEM 9 AND NOTES 3, 5, 6, 8, & 9. REORGANIZED THE DWG.	S.M.
B	11-24-97	S.W.	MODIFIED SLOT DIMENSION FOR ITEM 5.	S.M.
A	1-22-97	S.W.	REORGANIZED DRAWING. MODIFIED ITEMS 5, 7, 8, 10, 13, 14, 15, 16, 19, 22, 23, 24. ADDED NOTE 9. ADDED ITEM 25.	C.B.
DESIGNED: D.B. DRAWN: D.B. TRACED: CHECKED: S.M. REVIEWED BY:			U.S. COAST GUARD HEADQUARTERS CIVIL ENGINEERING 2CFR AND 2NFR UNLIGHTED FOAM BUOYS	
D. A. Braganza PROJECT ENGINEER REVIEWED BY:			APPROVED: L. E. Jaeger CHIEF OF OCEAN ENGINEERING BRANCH	
S. D. Walker G-ECV-38 REVIEWED BY:				
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES: DIM. ±1/8 ANG. ±1°			DRAWING NUMBER 121166	REV. E
PLOTING SCALE: 3/4"=1'-0"			SCALE: AS NOTED	SHEET 1 OF 3



**DETAIL A**

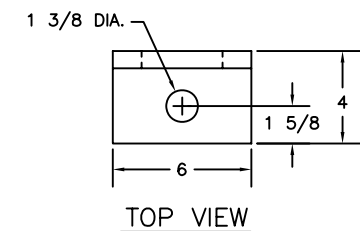
SCALE: HALF

NOTE: ITEM 5 BOLTS INTO ITEM 8 USING ITEMS 13, 16, AND 20

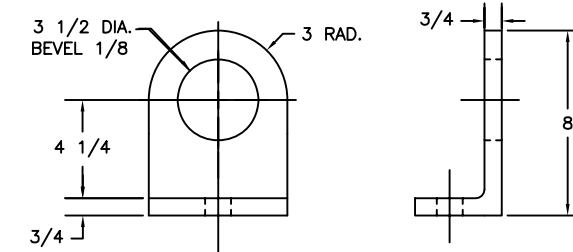


**DETAIL B**

SCALE: 3"=1'-0"  
(FOR CLARITY, THIS DETAIL HAS BEEN ROTATED 45° FROM THE VIEW ON PAGE 1)



**TOP VIEW**



**FRONT VIEW**

**SIDE VIEW**

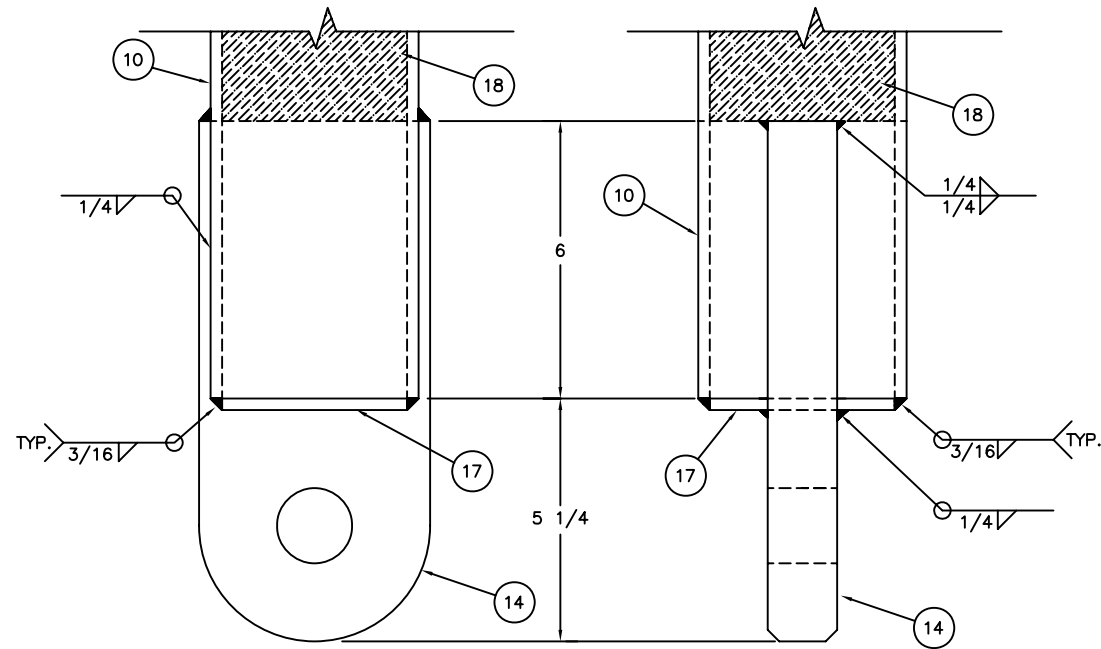
**DETAIL C**

SCALE: 3"=1'-0"

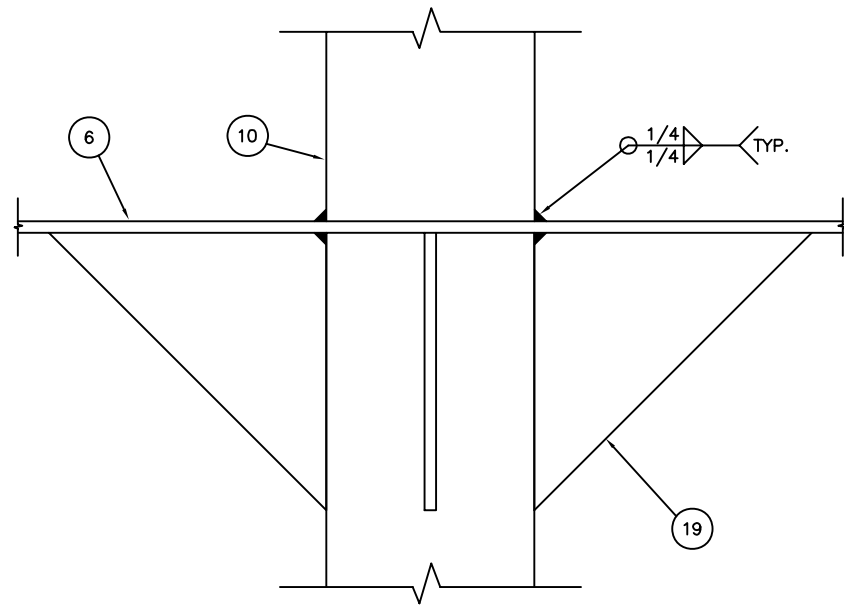
REV.	DATE	APPR.	DESCRIPTION	BY
E	5-15-07	S.W.	CHANGED ITEMS 1, 2 & 3 FROM 3 PCF TO 4 PCF.	S.M.
D	1-5-99	S.W.	MODIFIED QTY OF ITEMS 12 AND 21. ADDED ITEM 27. REORGANIZED NOTES.	S.M.
C	4-21-98	S.W.	MOD QTY OF ITEM 15. ADDED ITEM 26. DEL ITEM 9 AND NOTES 3, 5, 6, 8, & 9. REORGANIZED THE DWG.	S.M.
B	11-24-97	S.W.	MODIFIED SLOT DIMENSION FOR ITEM 5.	S.M.
A	1-22-97	S.W.	REORGANIZED DRAWING. MODIFIED ITEMS 5, 7, 8, 10, 13, 14, 15, 16, 19, 22, 23, 24. ADDED NOTE 9. ADDED ITEM 25.	C.B.

DESIGNED: D.B.	U.S. COAST GUARD	HEADQUARTERS
DRAWN: D.B.	CIVIL ENGINEERING	
TRACED:	2CFR AND 2NFR	
CHECKED: S.M.	UNLIGHTED FOAM BUOYS	
REVIEWED BY:		
D. A. Braganza PROJECT ENGINEER		
S. D. Walker G-EGV-38	APPROVED: L. E. Jaeger	DATE: 09-06-95
REVIEWED BY:	CHIEF OF OCEAN ENGINEERING BRANCH	

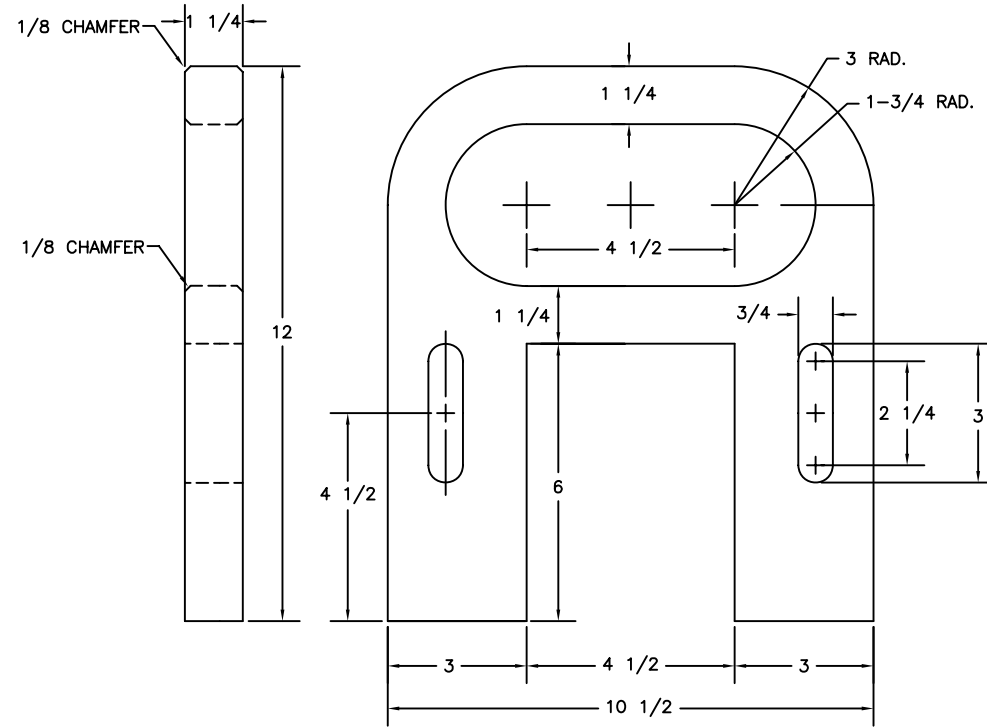
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES: DIM. ±1/8 ANG. ±1°	DRAWING NUMBER 121166	REV. E
SCALE: AS NOTED	SHEET 2	OF 3



DETAIL D  
SCALE: HALF



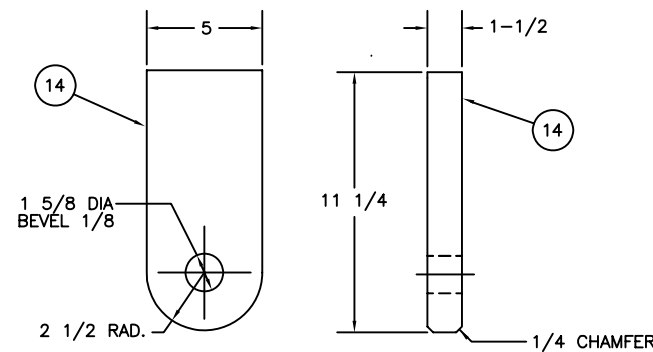
DETAIL F  
SCALE: HALF  
(CROSS SECTIONAL VIEW)



SIDE VIEW

FRONT VIEW

DETAIL E  
SCALE: 3"=1'-0"



FRONT VIEW

SIDE VIEW

DETAIL G  
SCALE: 3"=1'-0"

ITEM NO.	CFR NO. REQ.	NFR NO. REQ.	BILL OF MATERIALS		
			DESCRIPTION	MATL.	REMARKS
1	1	1	BUOY BODY	FOAM	4 PCF SEE NOTE 1
2	1	-	BUOY DAYMARK (CFR)	FOAM	4 PCF SEE NOTES 1 & 2
3	-	1	BUOY DAYMARK (NFR)	FOAM	4 PCF SEE NOTES 1 & 2
4	4	4	THROUGH ROD	STAIN. STEEL	1 X 36 LG.
5	1	1	TOP PLATE	STEEL	17 O.D. x 5-1/2 I.D. x 1/4 THK
6	1	1	MIDDLE PLATE	STEEL	44 SQ. x 1/4 THK.
7	1	1	BOTTOM PLATE	STEEL	44 SQ. x 1/4 THK.
8	1	1	TOP LIFT EYE	STEEL	1-1/4 THK.
9					
10	1	1	CENTER PIPE	STEEL	4 SCH. 80 PIPE x 144 LG.
11	8	8	WASHER	STAIN. STEEL	1 NOMINAL
12	2	2	BOTTOM SUPPORT GUSSETS	STEEL	1/4 THK.
13	2	2	NYLOCK NUT	STAIN. STEEL	5/8-11 UNC-2B
14	1	1	MOORING EYE	STEEL	1-1/2 THK.
15	4	4	HEX HEAD NUT	STAIN. STEEL	1-8 UNC-2B
16	2	2	ATTACHMENT BOLTS	STAIN. STEEL	5/8-11 UNC-2A x 3 LG.
17	2	2	BOTTOM TUBE SEAL PLATES	STEEL	1/4 THK
18	1	1	BALLAST	STEEL	4 O.D. x 24 LG. SOLID STEEL
19	4	4	CENTER PIPE GUSSET	STEEL	6 x 6 x 1/4 THK.
20	4	4	HEAVY WASHERS	STAINLESS STEEL	5/8 NOMINAL
21	3	3	RADAR REFLECTOR		MOBRI M4 SEE NOTE 3
22	3	-	RETROREFLECTIVE MATERIAL	---	6 x 27-1/2 SEE NOTE 4
23	-	3	RETROREFLECTIVE MATERIAL	---	6 x 22-1/2 SEE NOTE 4
24	2	2	MIDDLE LIFT EYE	STEEL	8 x 4 x 3/4 L
25	1	1	TOP TUBE SEAL PLATE	STEEL	1/4 THK
26	4	4	NYLOCK NUT	STAINLESS STEEL	1-8 UNC-2B
27	2	2	UPPER MOORING EYE	STEEL	3/4 THK

NOTES:

- SEE LATEST REVISION OF U.S.C.G. CIVIL ENGINEERING SPECIFICATION No. 450 FOR FABRICATION REQUIREMENTS.
- CUT HOLES IN ITEMS 2 & 3 TO PERMIT A TIGHT FIT WITH ITEM 21. FILL VOID WITH IONOMER FOAM PLUGS
- INSTALL ITEM 21, 120" APART.
- INSTALL ITEMS 22 AND 23, 120" APART AND SIX INCHES FROM THE TOP OF THE BUOY.
- COMPRESS FOAM WITH PART 6 UNTIL IT IS COMPRESSED INTO PART 1 APPROXIMATELY 1/4".

REV.	DATE	APPR.	DESCRIPTION	BY
E	5-15-07	S.W.	CHANGED ITEMS 1, 2 & 3 FROM 3 PCF TO 4 PCF.	S.M.
D	1-5-99	S.W.	MODIFIED QTY OF ITEMS 12 AND 21. ADDED ITEM 27. REORGANIZED NOTES.	S.M.
C	4-21-98	S.W.	MOD QTY OF ITEM 15. ADDED ITEM 26. DEL ITEM 9 AND NOTES 3, 5, 6, 8, & 9. REORGANIZED THE DWG.	S.M.
B	11-24-97	S.W.	MODIFIED SLOT DIMENSION FOR ITEM 5.	S.M.
A	1-22-97	S.W.	REORGANIZED DRAWING. MODIFIED ITEMS 5, 7, 8, 10, 13, 14, 15, 16, 19, 22, 23, 24. ADDED NOTE 9. ADDED ITEM 25.	C.B.

DESIGNED: D.B.  
DRAWN: D.B.  
TRACED:  
CHECKED: S.M.  
REVIEWED BY:

U.S. COAST GUARD HEADQUARTERS  
CIVIL ENGINEERING  
2CFR AND 2NFR  
UNLIGHTED FOAM BUOYS

D. A. Braganza  
PROJECT ENGINEER  
REVIEWED BY:

S. D. Walker  
G-ECV-3B  
REVIEWED BY:

APPROVED: L. E. Jaeger  
CHIEF OF OCEAN ENGINEERING BRANCH  
DATE: 09-06-95

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. TOLERANCES: DIM. ±1/8 ANG. ±1°	DRAWING NUMBER 121166	REV. E
SCALE: AS NOTED	SHEET 3 OF 3	