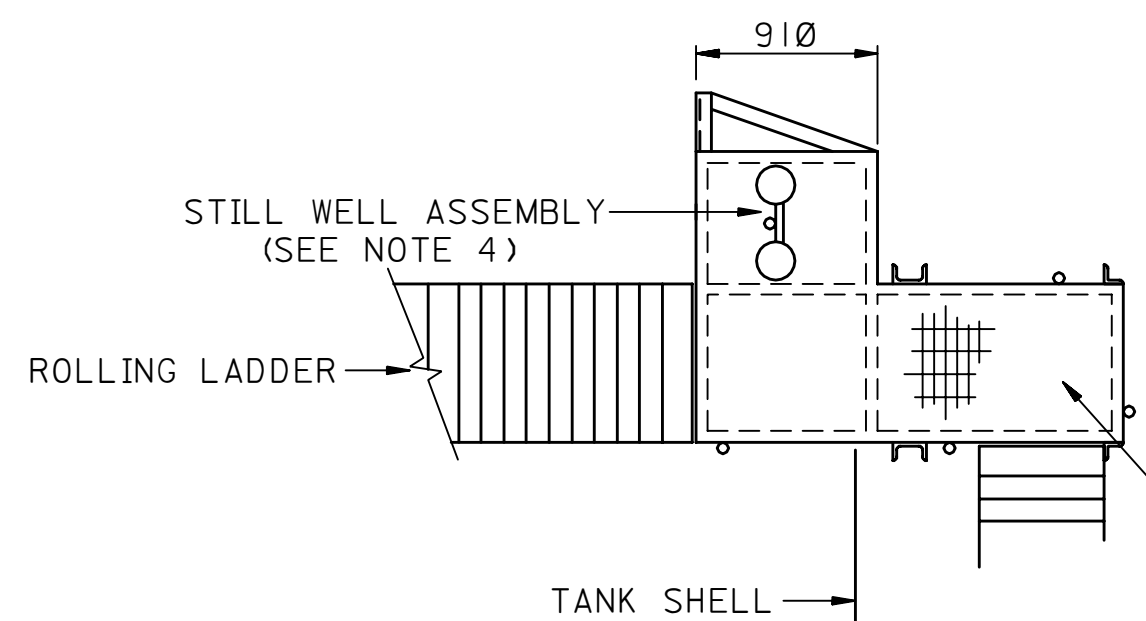
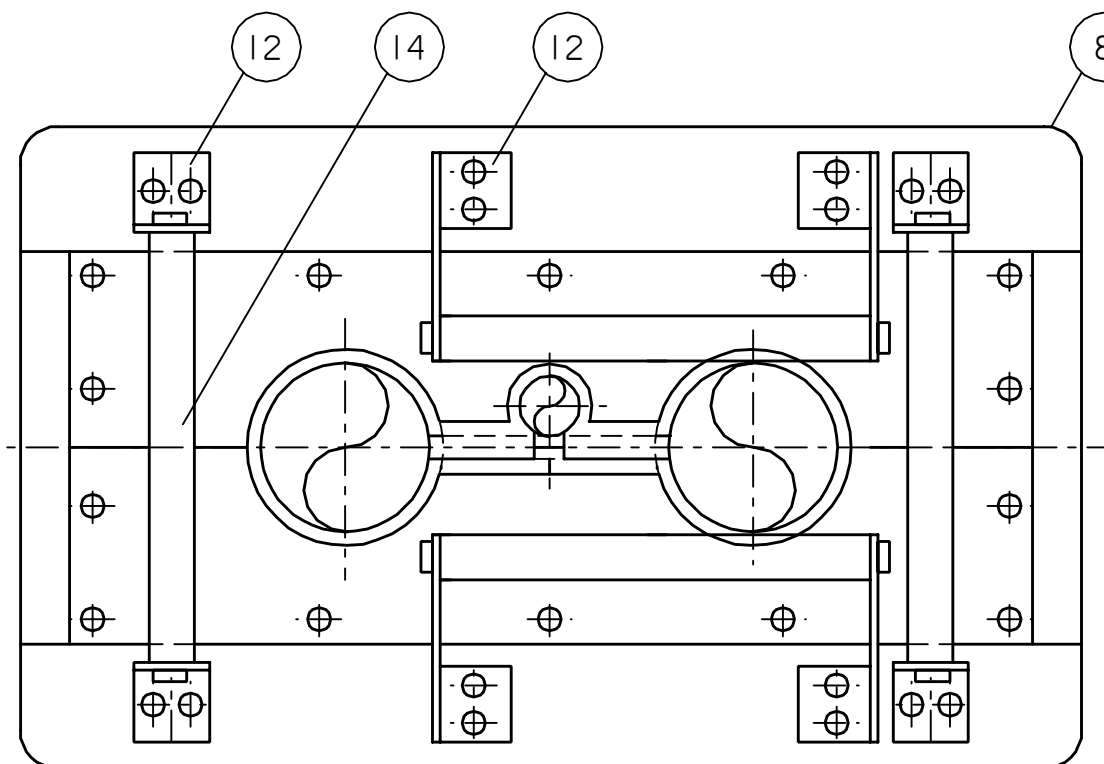
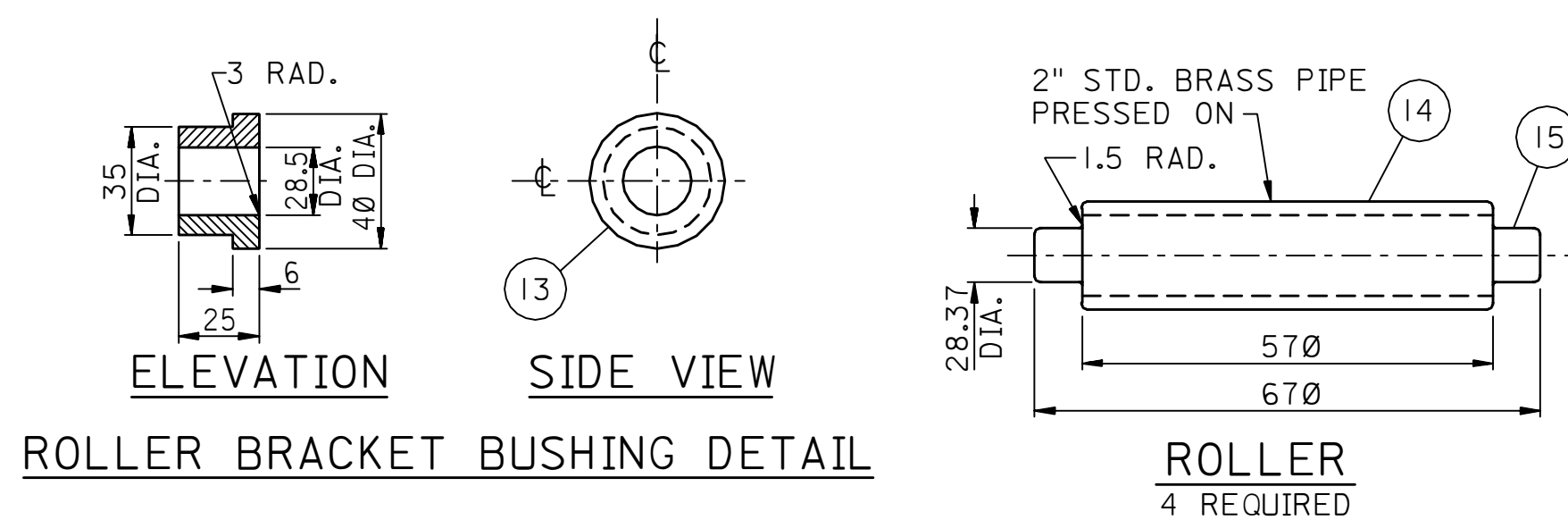
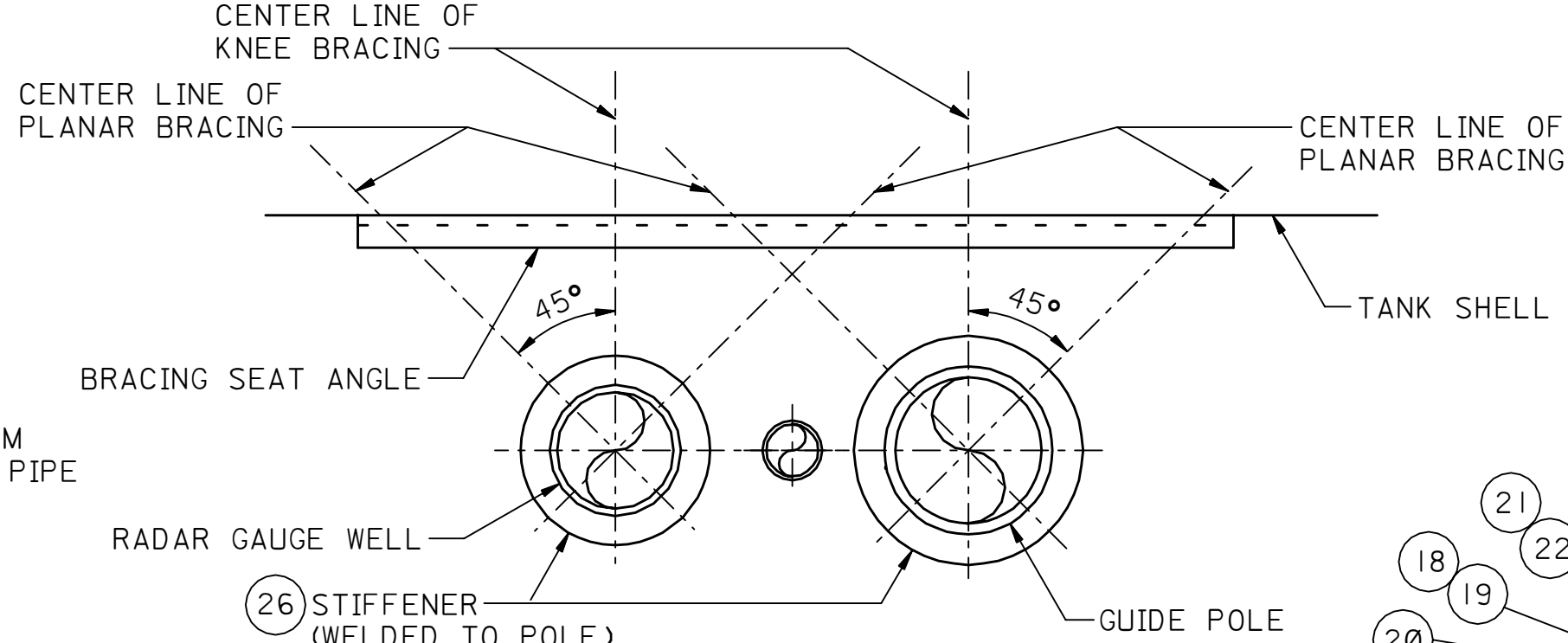




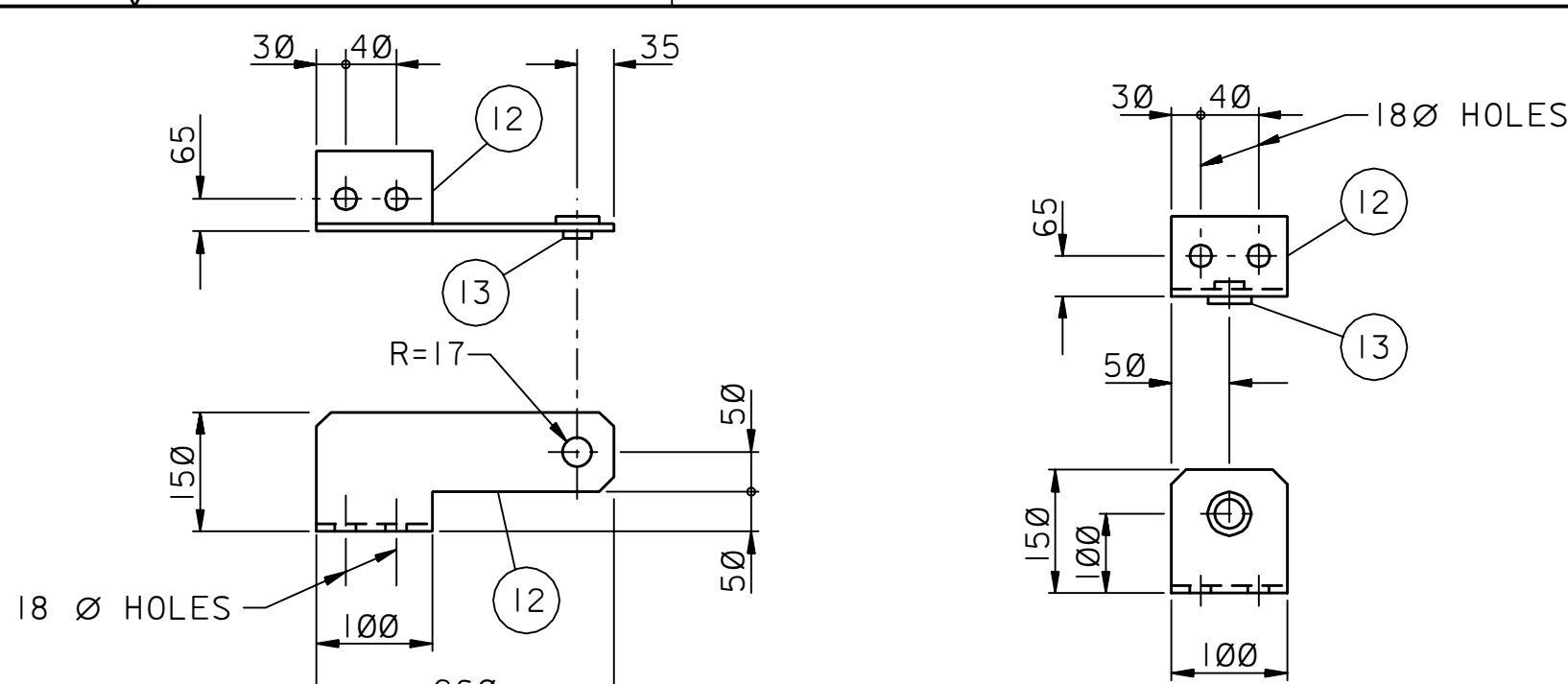
GAGERS PLATFORM PLAN



ROLLER ASSEMBLY, TOP VIEW

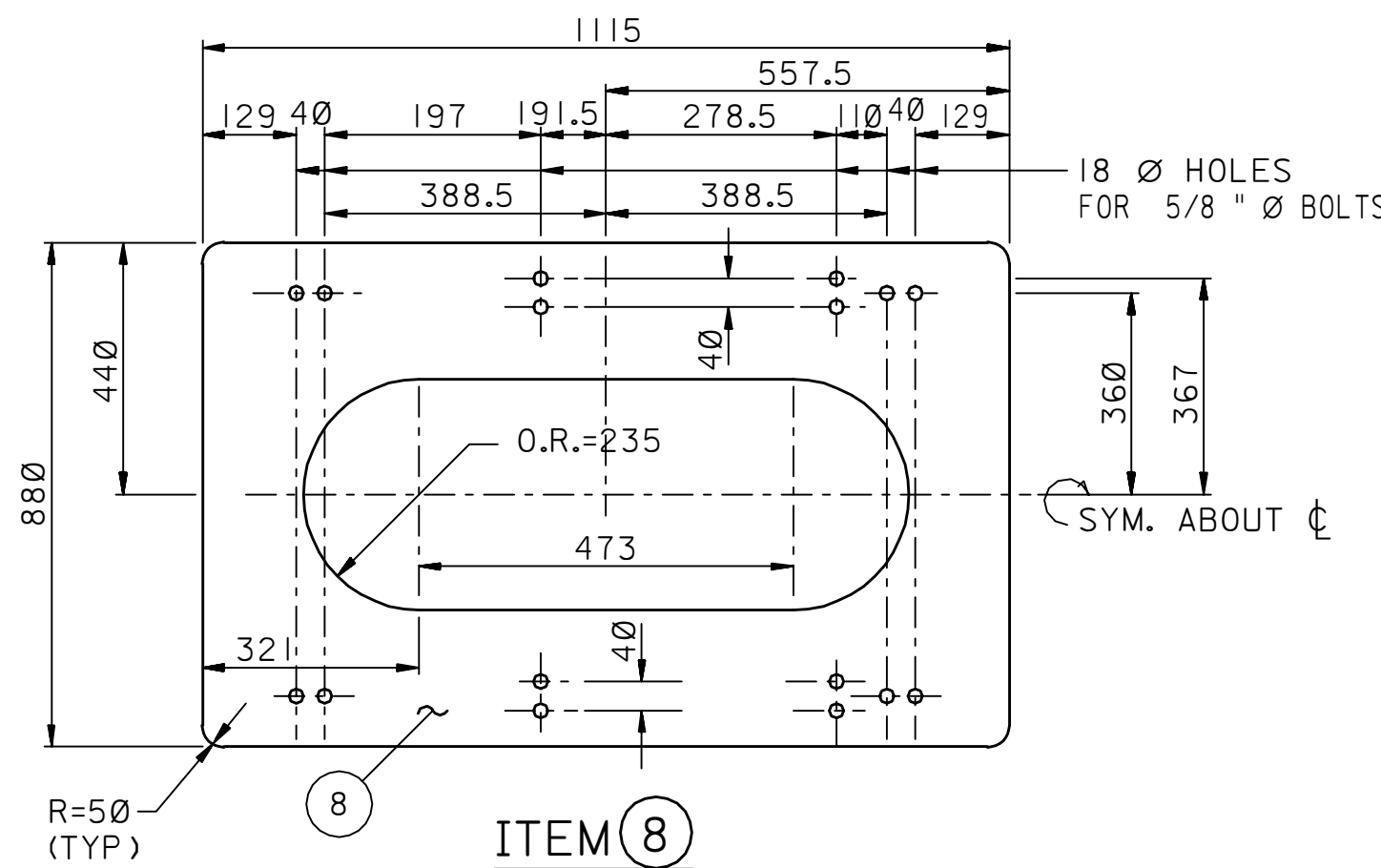


BRACING ARRANGEMENT
DETAIL 2
(SEE NOTE 12)

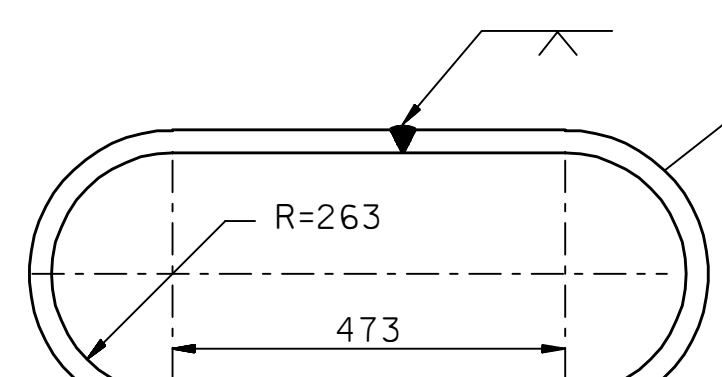
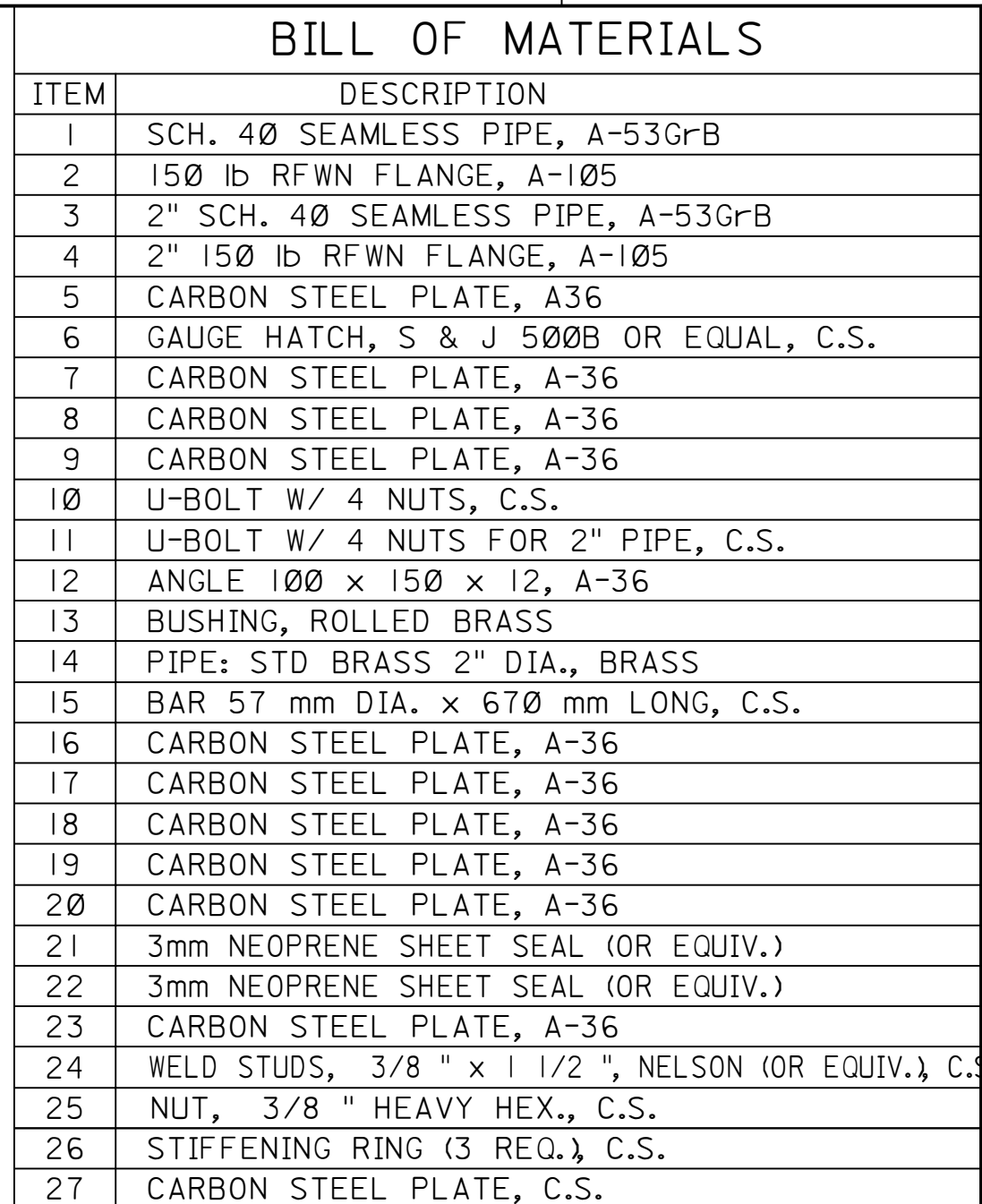


SIDE ROLLER SUPPORTS
4 REQ'D., 2 LEFTHAND, 2 RIGHTHAND

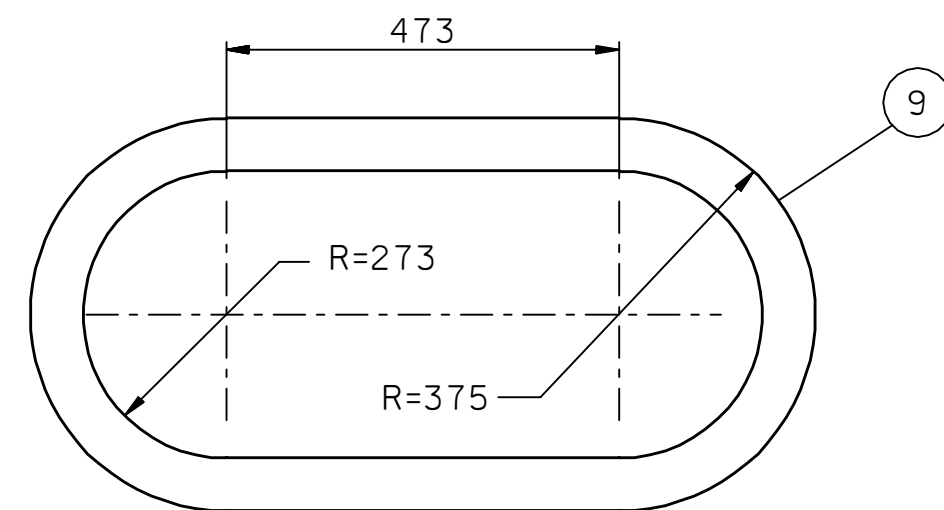
END ROLLER SUPPORTS
4 REQUIRED



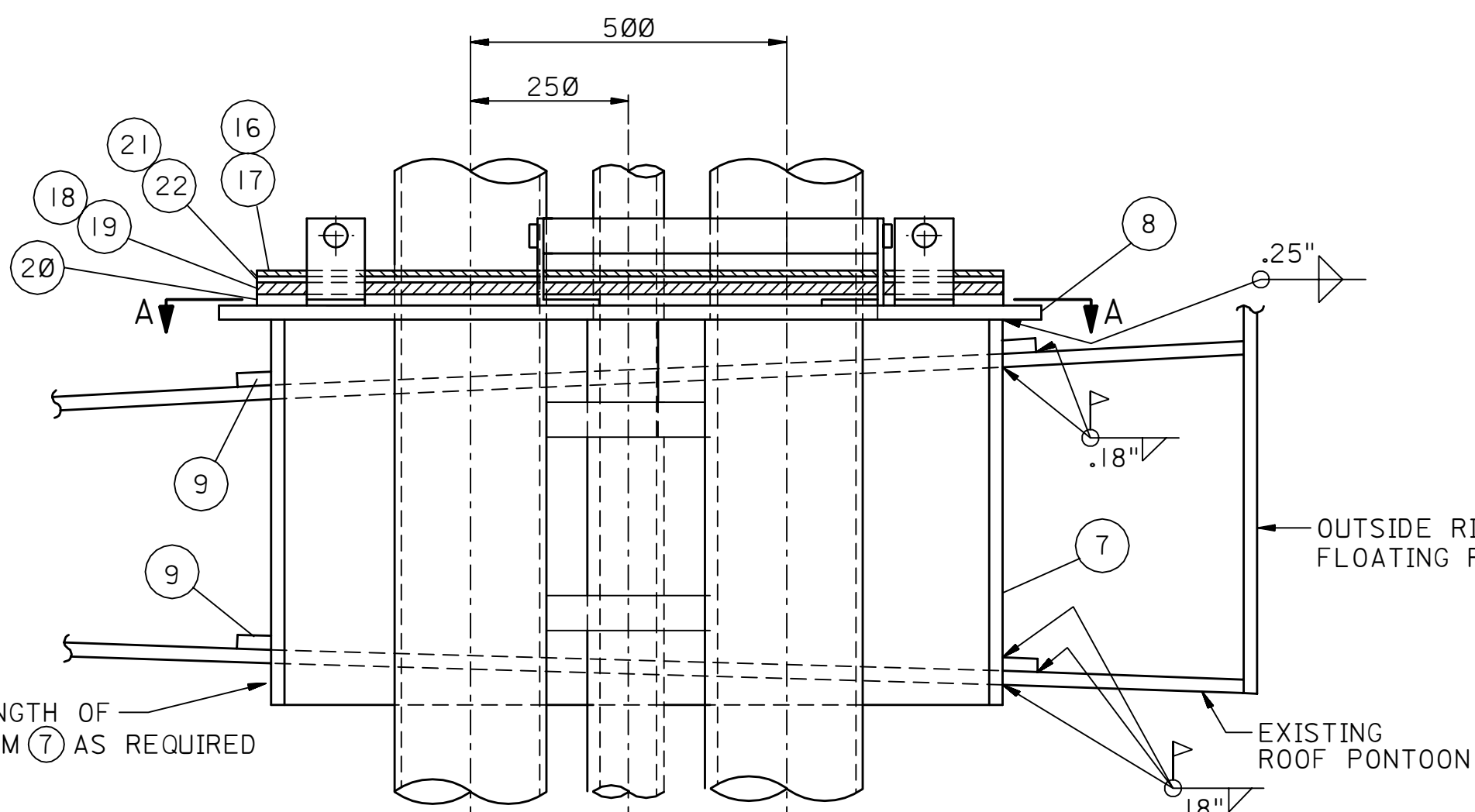
ITEM (8)



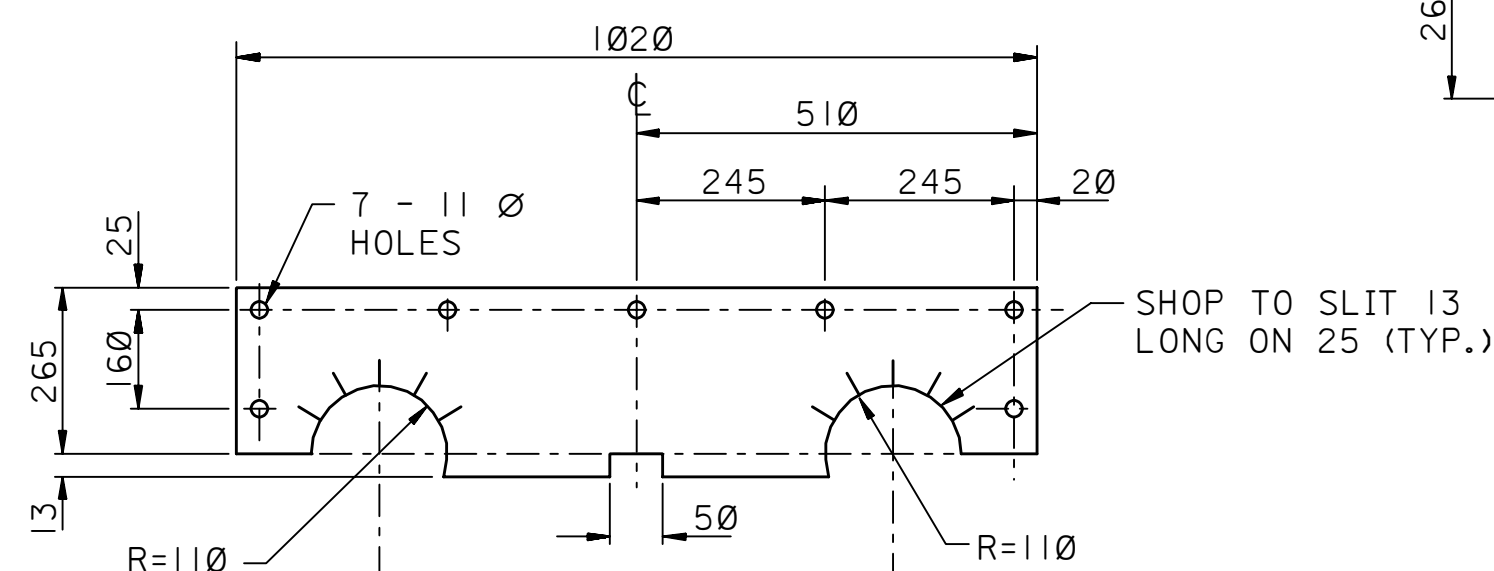
ROOF INSERT , 1 REQ'D.
LENGTH AS REQUIRED



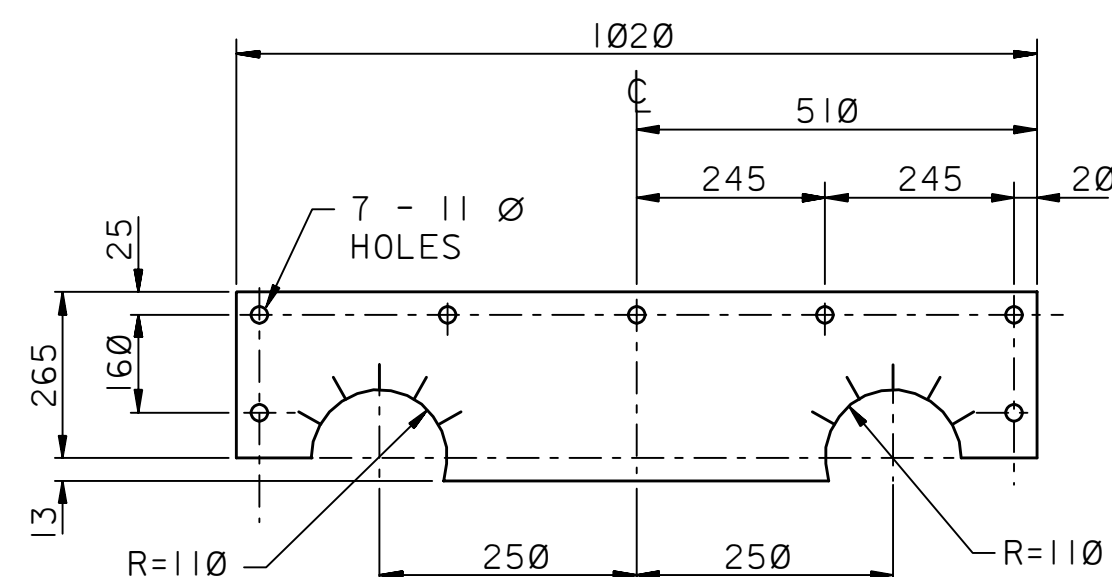
LAP PLATE , 2 REQ'D.



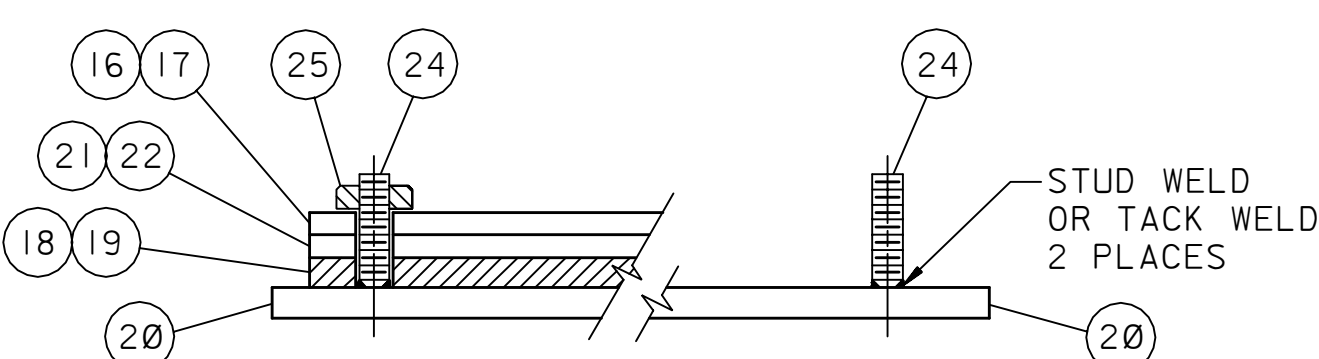
SECTION THRU ROOF PENETRATION



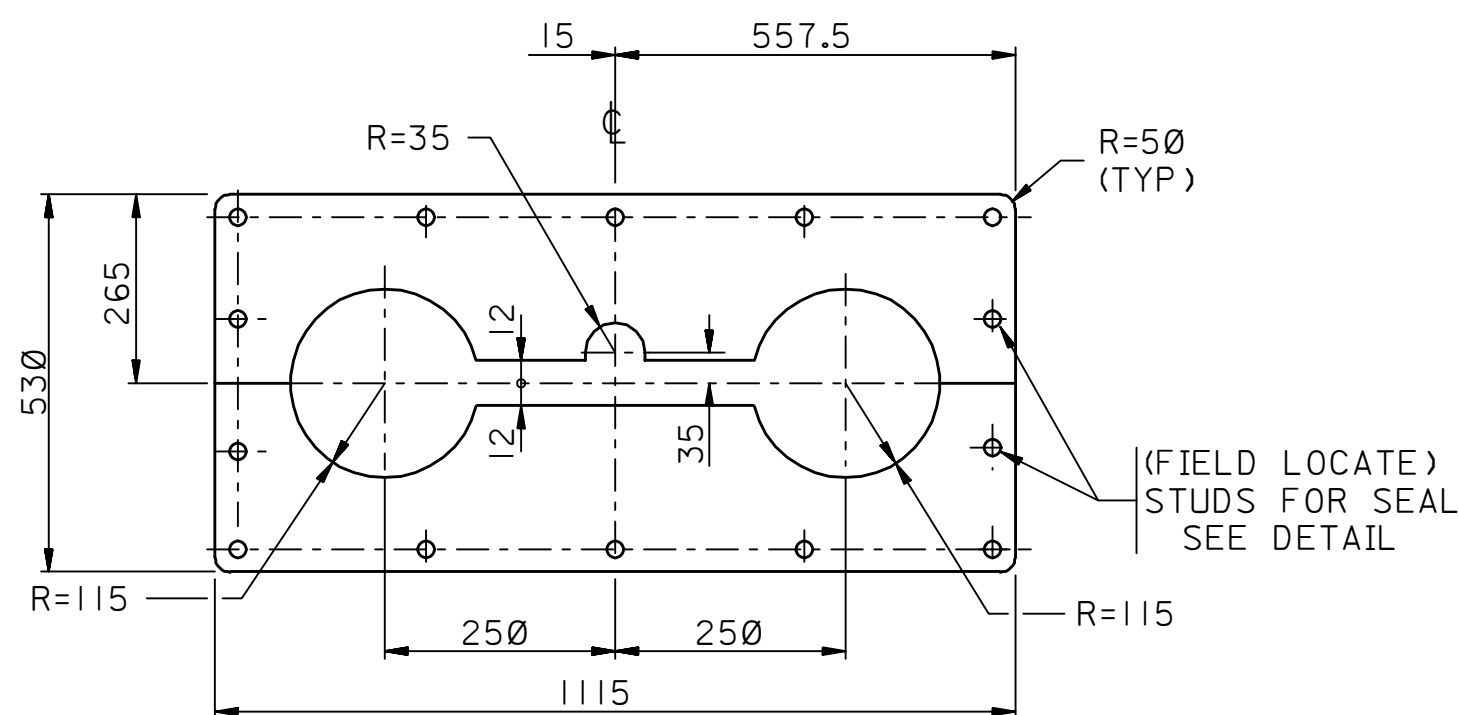
ITEM(21)



ITEM 22



BOLT STUD DETAIL



ITEM 20

NOTES:

1. THE DETAILS SHOWN ON THIS DRAWING ARE FOR:
NEW TANKS REQUIRING MANUAL GAGING STILLWELLS,
RADAR GAGING STILLWELLS AND TEMPERATURE
STILLWELLS.
2. ALL STILLWELLS MUST BE VERTICAL WITHIN 0.3°
(0.1m OVER 20m)
3. SLOTS SHALL BE CUT INTO THE SIDES OF BOTH
MANUAL, RADAR, AND TEMPERATURE STILLWELLS.
FOR THE RADAR STILLWELL A TOTAL OF 120 SLOTS
25mm WIDE X 38mm LONG IS REQUIRED, 60 SLOTS
ON EACH SIDE STAGGERED ON OPPOSING SIDES.
FOR MANUAL WELLS, SLOTS SHALL BE 50mm
WIDE X 250mm LONG AND SPACED EVERY 305mm
ON EACH SIDE STAGGERED ON OPPOSING SIDES.
THE TEMP. WELL SHALL HAVE 25mm x 150mm
SLOTS CUT EVERY 450mm ON EACH OF 2 SIDES
STAGGERED ON OPPOSING SIDES. ALL SLOTS TO
BE TERMINATED APPROXIMATELY 20" FROM TOP
OF TANK.
SLOTS FOR ALL WELLS TO OVERLAP AS SHOWN IN
DETAIL.
4. GAUGE WELL ASSEMBLY SHALL BE INSTALLED
BETWEEN 450-750mm (18-30 INCHES) FROM SHELL IN
ACCORDANCE WITH API-MANUAL OF PETROLEUM
MEASUREMENT STANDARD CHAPTER 3.1.
5. ALL EDGES OF SLOTS, CUT ENDS AND ALL INTERIOR
SURFACES OF ALL THREE WELLS SHALL BE DEBURRED
AND GROUND SMOOTH AS REQUIRED. THE INSIDE SURFACE
OF THE WELDS SHALL BE SMOOTH. USE TIG ROOT PASS
FOR FLANGE AND PIPE TO PIPE WELDS TO PROVIDE
A SMOOTH INNER FINISH. THIS REQUIREMENT IS MOST
IMPORTANT ON THE 8" RADAR WELL.

TANK HEIGHT (M)				
12.2	73 (8)	148 (10)	-	-
14.6	58 (8)	100 (10)	158 (12)	-
17	46 (8)	74 (10)	112 (12)	142 (14)
19.5	39 (8)	59 (10)	85 (12)	106 (14)

NOTE: NUMBERS IN PARENTHESIS INDICATE REQUIRED
MANUAL GAUGE SIZES IN INCHES.

8. THE DIMENSIONS SHOWN ARE FOR AN 8" RADAR STILLWELL AND AN 8" MANUAL GAGE WELL. FOR OTHER SIZES OF MANUAL GAGE WELLS ALL DIMENSIONS MUST BE VERIFIED.

9. WELL ASSEMBLIES SHALL BE COATED IN ACCORDANCE WITH SAES-H-001.

10. GAUGE WELL ASSEMBLIES MUST BE SUPPORTED FROM TANK SHELL IN ACCORDANCE WITH API-MANUAL OF PETROLEUM MEASUREMENT CHAPTERS 3.1 & 3.2. ALLOW FOR MAXIMUM 1/16 " GAP BETWEEN THE WELLS AND THE PLATFORM.

II. SHOWN DETAILS AND CONFIGURATION FOR WELLS' BOTTOM SUPPORT ARE GENERAL. THE TANK MANUFACTURER IS RESPONSIBLE FOR DETAIL DESIGN OF THIS CONFIGURATION OR ANY ALTERNATIVE DESIGN. BRACING IS TO BE DESIGNED SUCH THAT THE WELLS ARE ATTACHED TO THE SHELL.

DRAWING RESPONSIBILITY:									
VESSELS STANDARDS COMMITTEE									
REV. NO.	DATE	BY	JO/EWO	DESCRIPTION			CHKD.	CERT.	APPD.
SAUDI ARABIAN OIL COMPANY									
DRAWN BY: <u>ESSD/CAB/RLD</u> CHECKED BY _____ SCALE: <u>NONE</u> DATE STARTED <u>12-17-95</u> DATE COMPLETED <u>05-18-96</u> OPR'G. DEPT. _____ ENG. DEPT. _____ APP'D. FOR CONST. _____									
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OR FOR ORDERING MATERIAL, UNLESS CERTIFIED AND DATED				CERTIFIED BY _____ DATE _____					
GENERAL ASSEMBLY OF RADAR, TEMPERATURE AND MANUAL GAUGING FOR EXTERNAL FLOATING ROOF TANK									
STD. DRAWING.								METRIC	
PLANT NO.	INDEX		DRAWING NUMBER				SHT. NO.	REV. NO.	
990	D		AA-036256				001	00	

SLOT SIZES FOR
RADAR STILLWELL
SEE NOTE 4 & 6

SLOT SIZES FOR
MANUAL STILLWELL
SEE NOTE 4 & 6

SLOT SIZES FOR
TEMPERATURE STILLWELL