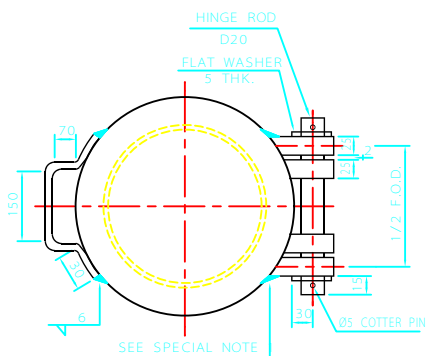


VERTICAL MANHOLE



MANHOLE COVER HINGE  
USE FOR BOTTOM ENTRY

**GENERAL NOTES:**

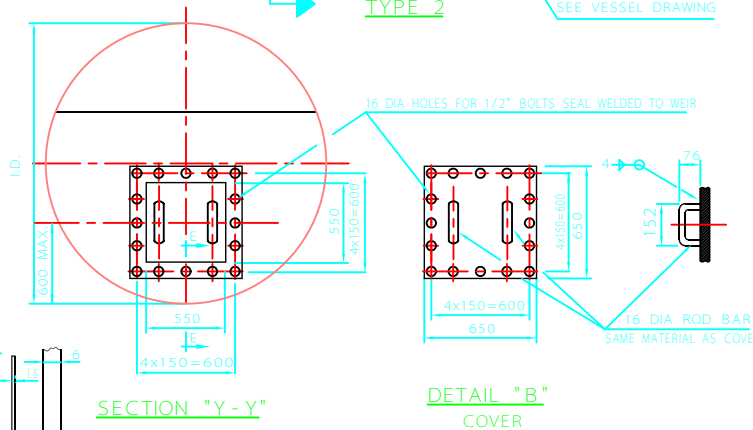
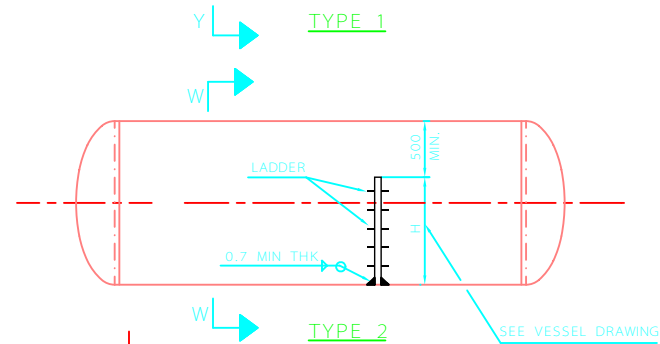
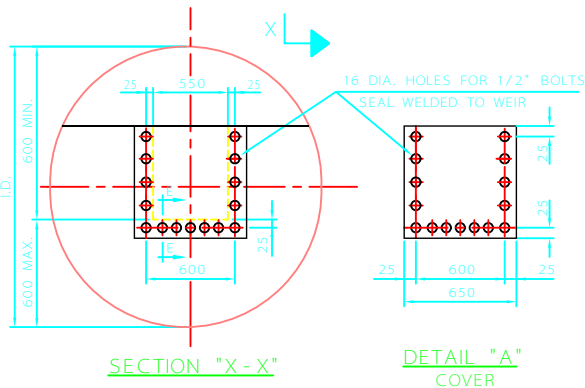
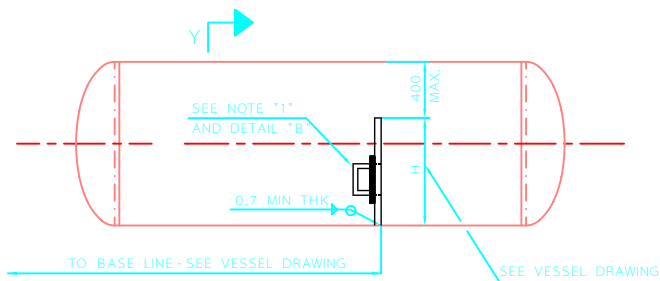
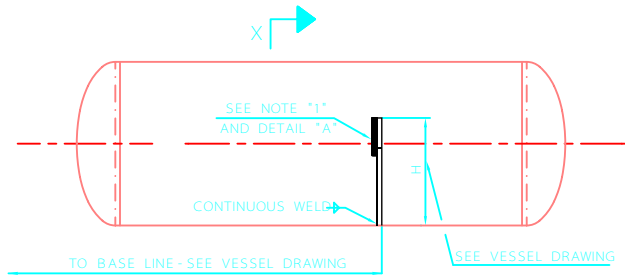
- 1- ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SHOWN.
- 2- DAVIT ASSEMBLY SHALL BE IN TRUE VERTICAL ALIGNMENT AFTER WELDING SUPPORT ON TO NOZZLE NECK, OR FLANGE, MANHOLE POSITION IS INDICATED ON VESSEL DRAWING.
- 3- MATERIAL :  
PIN, ROD & EYEBOLT=A36 OR EQUIVALENT  
PIPE=A53 Gr.B OR EQUIVALENT  
PLATE=A283 Gr. C OR EQUIVALENT (FOR ALLOY AND S.S FLANGES USE TRANSITION PLATE)
- 4- SEE VESSEL DRAWING FOR HINGE AND DAVIT ORIENTATION.
- 5- ALL WELDINGS SHALL BE MADE BEFORE VESSEL HEAT TREATMENT.(IF ANY)
- 6- WELDING SYMBOLS PROCEDURE AND TESTS ARE PER A.W.S.

**SPECIAL NOTES:**

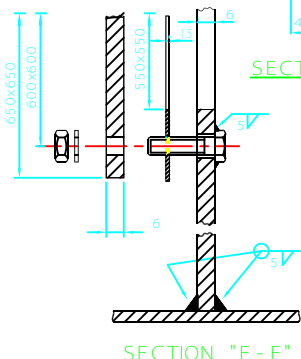
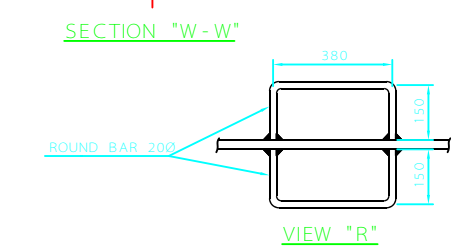
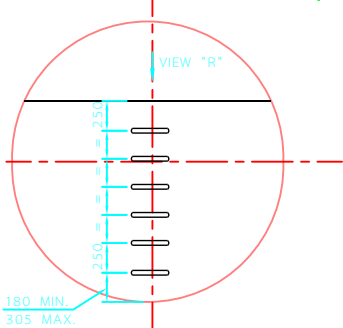
- 1- WELD TO FULL PENETRATION WITHOUT EXCESSIVE HEATING TO AVOID FLANGE DAMAGE OR DISTORTION.
- 2- FIT LUGS AND PIN SO THAT PIN IS LOOSE WHEN COVER IS BOLTED UP.

FLANGE RATING		150#(20 PN)					300#(50 PN)					600#(100 PN)					900#(150 PN)				
FLANGE SIZE		14"	16"	18"	20"	24"	14"	16"	18"	20"	24"	14"	16"	18"	20"	24"	14"	16"	18"	20"	24"
		350	400	450	500	600	350	400	450	500	600	350	400	450	500	600	350	400	450	500	600
DAVIT SIZE (PIPE)	IN	1 1/2	1 1/2	1 1/2	2	2	1 1/2	1 1/2	2	3	3	2 1/2	2 1/2	2 1/2	3	3	2 1/2	3	3	3	4
	PN	40	40	40	50	50	40	40	50	50	50	65	65	65	80	80	65	80	80	80	80
	SCH.	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
	THK.	5.08	5.08	5.08	5.54	5.54	5.08	5.08	5.54	7.62	7.62	7.01	7.01	7.01	7.62	7.62	7.01	7.62	7.62	7.62	8.55

C		
B		
A		
REV	DESCRIPTION	DATE
 NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION		
HINGE & DAVIT DETAILS FOR MANHOLES		
DATE	DRAWING No.	SHEET REV.
	IPS - D - ME - 042	1 / 2



WEIRS FOR HORIZONTAL VESSELS  $\le 1200$  DIA.



WEIRS FOR HORIZONTAL VESSELS  $> 1200$  DIA

**NOTES:**

- 1- THE COVER OF WEIR MANHOLE IS TO BE LOCATED ON THE SAME SIDE AS OF VESSEL MANHOLE.
- 2- INSERT A 1.5 mm. THICK ASBESTOS FREE GASKET BETWEEN MANHOLE COVER AND WEIR.
- 3- COVER AND WEIR MATERIAL SHALL BE SAME AS VESSEL MATERIAL IN THE PORTION THEY ARE TO BE INSTALLED. THICKNESS SHALL BE AT LEAST 10 mm. FOR CARBON STEEL, AND 6 mm. FOR OTHER MATERIALS.
- 4- BOLTS AND NUTS SHALL BE AT LEAST 5% Cr, 0.5% Mo. UNLESS OTHER MATERIAL IS SPECIFIED.
- 5- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE SHOWN.
- 6- IN CASE OF CONFLICT BETWEEN THIS STANDARD AND VESSEL DRAWING, THE LATTER SHALL GOVERN.
- 7- SUITABLE HANDLES SHOULD BE CONSIDERED FOR COVER OF WEIR MANHOL.
- 8- BASIC CORROSION FOR CARBON STEEL HAS BEEN ASSUMED EQUAL TO 4 mm. GREATER CORROSION INVOLVES CORRESPONDINGLY GREATER THICKNESS.
- 9- FOR VESSELS  $> 1600$  DIA.) CHECK THE NECESSITY OF REINFORCING THE WEIR CONSIDERING ON ONE SIDE THE ABSENCE OF LIQUID AND ON THE OTHER SIDE HEAD LIQUID WITH SPECIFIC GRAVITY  $> 1$ .

REV	DESCRIPTION	DATE
C		
B		
A		

IRANIAN PETROLEUM STANDARDS   
NO REVISION PERMITTED UNLESS APPROVED BY STANDARD ORGANIZATION

WEIRS FOR HORIZONTAL VESSELS

DATE	DRAWING No.	SHEET	REV.
	IPS - D - ME - 050	1	1