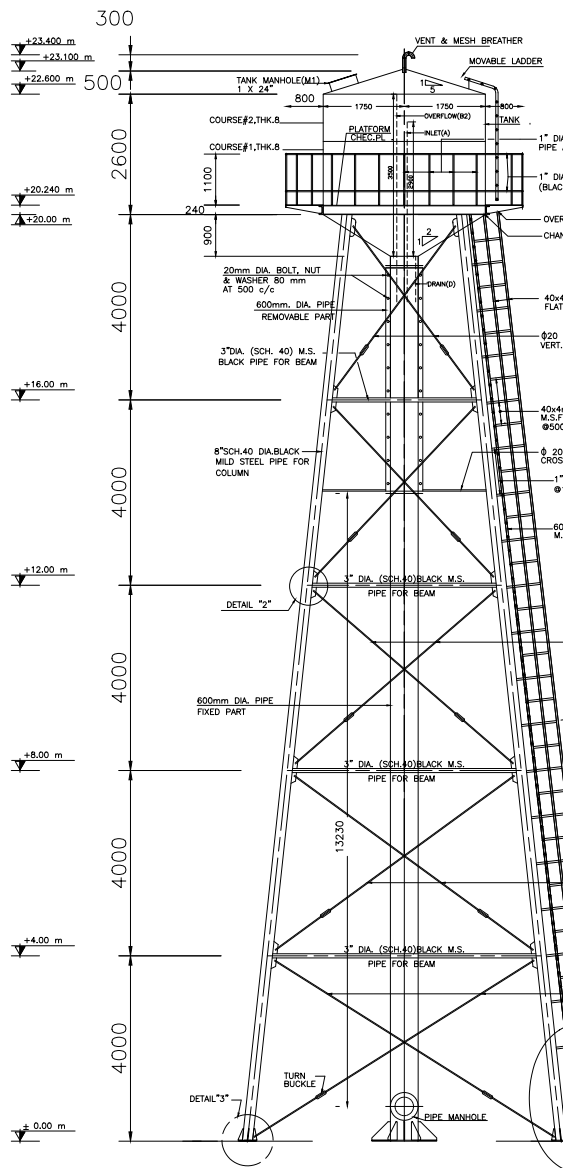
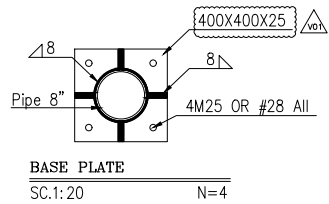
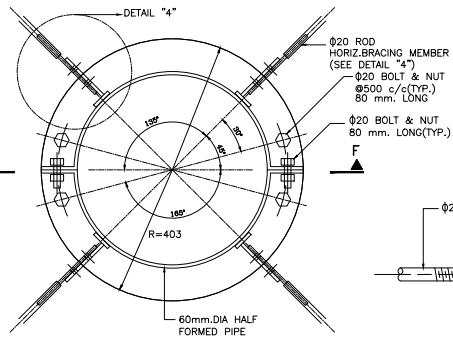




ELEVATED TANK OVERALL VIEW SC.1:100

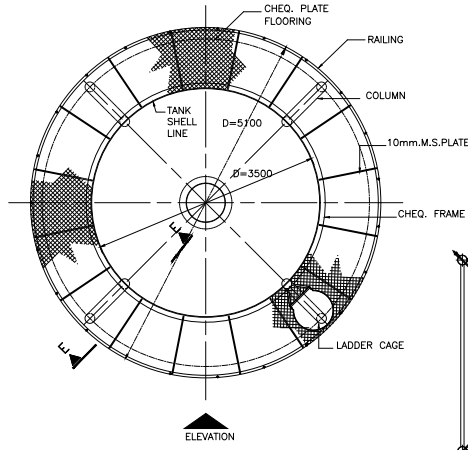


BASE PLATE
SC.1:20

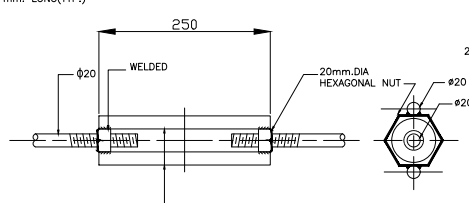


DETAIL "d"

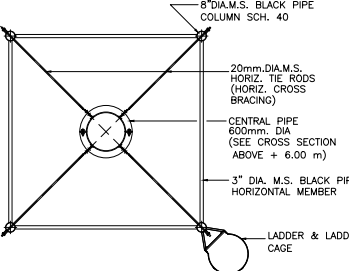
CROSS SECTION ABOVE +14.00 m



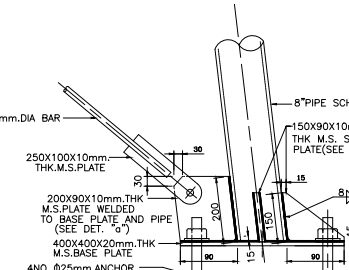
PLAN AT PLATFORM LEVEL



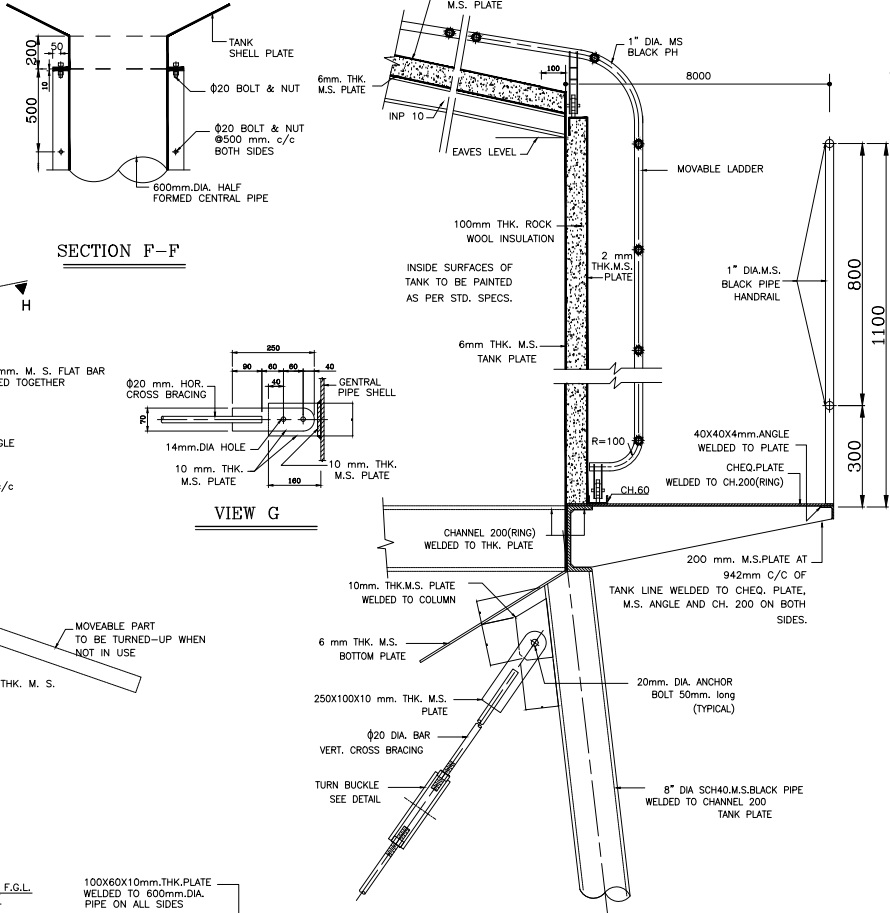
TURNBUCKLE DETAIL



CROSS SECTION PLAN ABOVE LEVEL +6.00



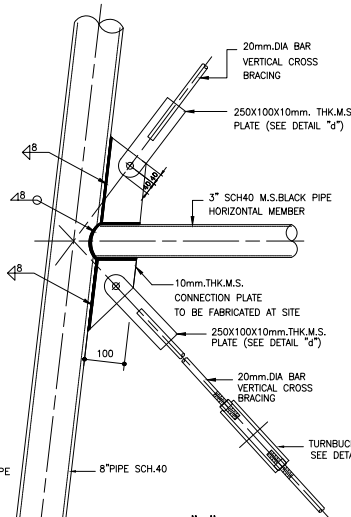
DETAIL "3"



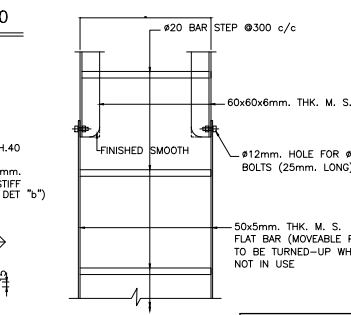
SECTION F-F

VIEW G

DETAIL "4"



DETAIL "2"

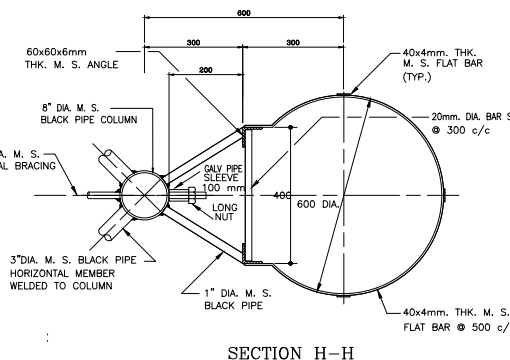


LADDER ELEVATION

GENERAL DATA	
ITEM No.	TK-2209
QUANTITY	1
TYPE OF TANK	CYLINDRICAL SELF SUPP. CONE ROOF
SERVICE	WATER
DESIGN CODE	MINA D100/AMI 650, ED.3, 2021
SOIL (TANK)	500x2500
SHELL Thickness (Course#1/Course#2)	8/8
ROOF/BOTTOM Thickness	8/8
ROOF SLOPE	1/5
MATERIALS	
PLATES	
SHELL	SA 283 C+ Lining food grade
CONE ROOF	SA 283 C+ Lining food grade
BOTTOM & ANNULAR PLATES	SA 283 C+ Lining food grade
SUPPORTS	SA 36 / RST-37 Gr.2
INTERIORS	SA 283 C+ Lining food grade (Note 13)
PIPES	
NOZZLES	SA 106 GR.B (NOTE 13)
FORGINGS & STAMPINGS	
FLANGES & BLIND	SA 106
ELBOWS & TEE	SA 234 GR.WPB (NOTE 13)
BOLTING	
BOLT	SA 193 Gr.87
NUT	SA 194 Gr.2H
GASKETS	
GASKETS	NON-ASBESTOS - FLAT & GRAPHITE FILLED
SHAPES	
STIFFENERS	SA 283 C
HANDRAIL & STAIRS	
PIPE	API 5L Gr. B / A53 Gr.B
PLATE	SA 283 Gr.C / RST-37 Gr.2
PROFILE	SA 283 Gr.C / RST-37 Gr.2
DESIGN CONDITIONS	
INTERNAL DESIGN PRESSURE	ATM + FULL OF WATER mm H ₂ O
EXTERNAL DESIGN PRESSURE	ATM mm H ₂ O
OPERATING PRESSURE	ATM mm H ₂ O
HYDROSTATIC TEST PRESSURE	ATM + FULL OF WATER mm H ₂ O
DESIGN TEMPERATURE MIN/MAX	85 deg. C
OPERATING TEMPERATURE MIN/MAX	5/50 deg. C
INSPECTION	RT / LIQUID PENETRANT
JOINT EFFICIENCY	85 %
RADIOGRAPHY	SPOT
POSTWELD HEAT TREATMENT	☐ YES ☒ NO
IMPACT TEST	☐ YES ☒ NO
CORROSION ALLOWANCE	☐ SHELL 1.6 ☐ ROOF 1.6 mm
NOMINAL CAPACITY	25 m ³
GEOMETRIC CAPACITY	20 m ³
WIND VELOCITY	232 Km/hr
EARTHQUAKE	ASCE 7-10
SITE CLASS	0
IMPORTANCE FACTOR	1.25
PUMP IN RATE	5 m ³ /hr
PUMP OUT RATE	Not Applicable
DENSITY OF LIQUID	1000 AT 15°C Kg/m ³
ACCESSORIES	
ROOF HANDRAIL	☐ YES ☒ NO
ROOF LADDER	☐ YES ☒ NO
CIRC. PLATFORM	☐ YES ☒ NO
TOP ANGLE	☐ YES ☒ NO
INSULATION	☐ YES ☒ NO
INSULATION AND PAINTING	
INSULATION TYPE/THK.	☐ YES ☒ NO
PAINTING (EXTERIOR)	☐ YES ☒ NO
PAINTING (INTERIOR)	☐ YES ☒ NO
FIRE PROOFING FOR SUPPORT	☐ YES ☒ NO
PAINTING PROCEDURE	
SHELL OUTSIDE / INSIDE	☐ YES ☒ NO
BOTTOM OUTSIDE / INSIDE	☐ YES ☒ NO
FIXED ROOF OUTSIDE / INSIDE	☐ YES ☒ NO
JACKET OUTSIDE / INSIDE	☐ YES ☒ NO
STRUCTURAL	☐ YES ☒ NO
WEIGHT OF MAJOR PART	
SHELL PLATE	kg 1,795
ROOF PLATE	kg 118
BOTTOM PLATE	kg 240
STRUCTURAL	kg 6,000
MIL TEST CERTIFICATE	☐ YES ☒ NO
REFERENCE DOCUMENTS/DRAWINGS	

NOTES	
1-ALL DIMENSIONS ARE IN MILLIM. UNLESS OTHERWISE STATED.	
2-ALL DIMENSION AND QUANTITIES TO BE CHECKED BY CONTRACTOR PRIOR TO FABRICATION.	
3-NOZZLES PROJECTIONS ARE WITH REF. TO SHELL C.L. OR ROOF BASE.	
4-ALL EXPOSED STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH SPECIFICATION FOR PAINTING.	
5-UNLESS INDICATED, ALL FLANGES SHALL BE STAGGERED TO MAIN AXES OF TANK.	
6-FOR ADD. DETAIL OF PLATFORM SEE IPS-C-ME-200.	
7-FOR INSULATION OF PIPES REFER TO IPS-C-TP-701.	
8-NOZZLES ELEV. ARE WITH REF. TO TOP OF CONCRETE.	
9-WELDING SPEC. TO BE IN ACC. WITH ASME SEC.IX.	
10-WELD SYMBOLS TO BE IN ACC. WITH AWS D1.1.	
11-NAME PLATE SHALL BE FROM S.S.304.	
12-GRATING AND EARTHING LUG SHALL BE HOT DIP GALV. CARBON STEEL.	
13-ONLY PIPE MATERIAL SHALL BE HOT DIP GALVANIZED PER 75-E-1P-107, SYSTEM "B" OF TABLE "B" WITH MIN. DIT 140 MIC.	
14-ORIENTATION OF NOZZLES, STAIRWAY AND PLAT. WILL BE FINALIZED LATER.	
15-ALL MACHINED SHARP CORNERS SHALL BE CHAMFERED WITH 0.5 X 45 DEG.	
16-FACES OF NOZZLE FLANGES SHALL HAVE SMOOTH FINISH WITH AFIN 125 TO 250.	
17-FOR GENERAL TOLERANCES SEE RELATED DIN OR ISO STANDARD.	
18-NOZZLE FLANGE MUST BE IN ACC. WITH (ANSI B16-5) NOZZLE NECK FROM PIPE MUST BE IN ACC. WITH (ANSI B 36-10), THREAD BOLTS MUST BE IN ACCORDANCE WITH (ANSI B 1-1 2A), THREAD NUTS MUST BE IN ACC. WITH (ANSI B 1-1 2B).	
19-ALL WELD SIZE IS 8.	
20-COULD BE MADE OF ROLLED PLATE & RING.	
Plant north	
LIST DRAWING	
NAME PLATE DETAIL DRAWING FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0003
BOTTOM PLATE ARRANGEMENT FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0010
SHELL PLATE ARRANGEMENT FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0011
ROOF PLATE ARRANGEMENT FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0012
CHANNEL CIRCLE FRAME DRAWING FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0013
MOVABLE LADDER DRAWING FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0014
SHELL NOZZLE DRAWING FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0015
ROOF NOZZLE & HANDRAIL DRAWING FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0016
PIPE CLIP DRAWING FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0017
BASE PLATE DETAIL DRAWING FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0018
STRUCTURE & ACCESSORY DETAIL DRAWING FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0019
INSULATION SUPPORT DETAIL DRAWING FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-DW-0020
MATERIAL TAKE OFF (MTO) FOR ELEVATED POTABLE WATER TANK (TK-2209)	BK-GCS-IDR-120-ME-LI-0001

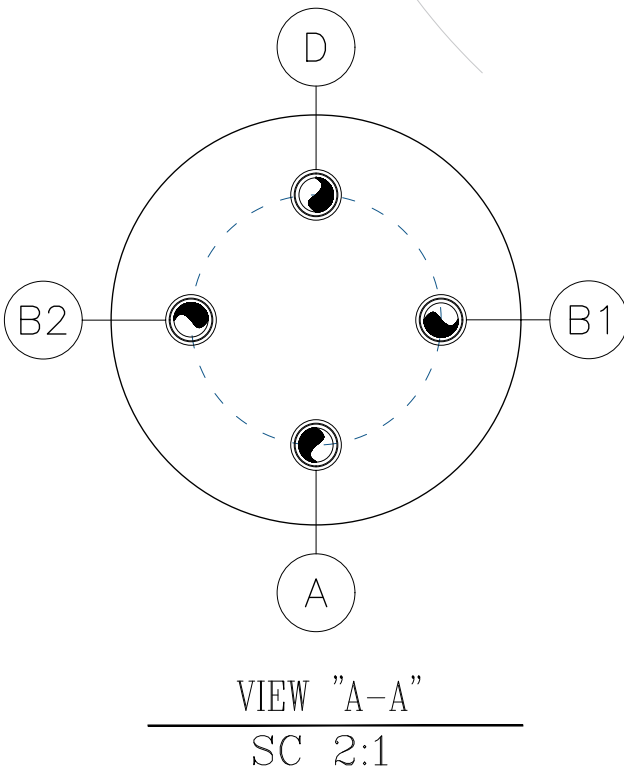
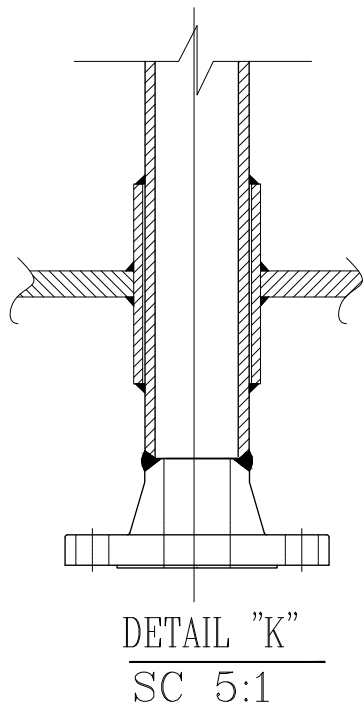
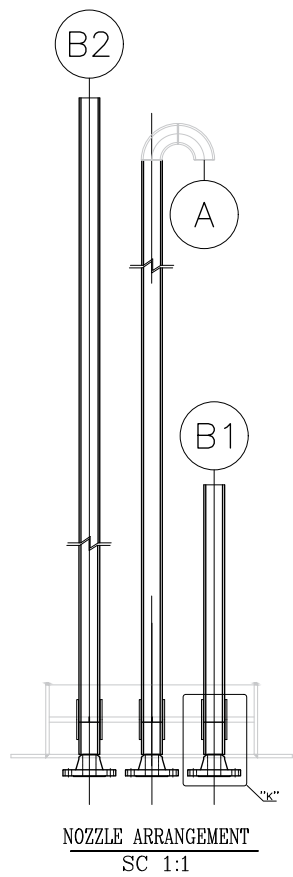
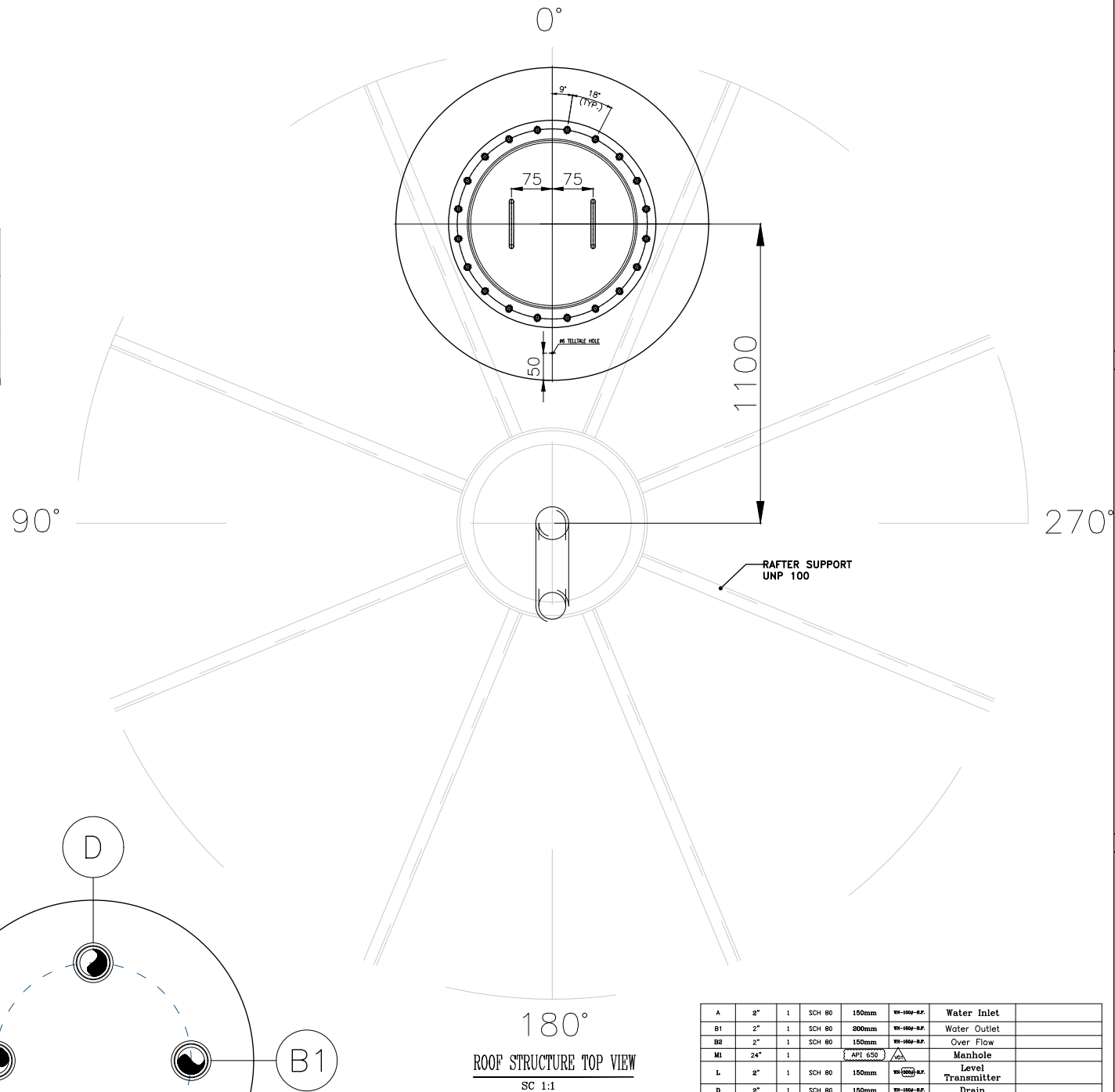
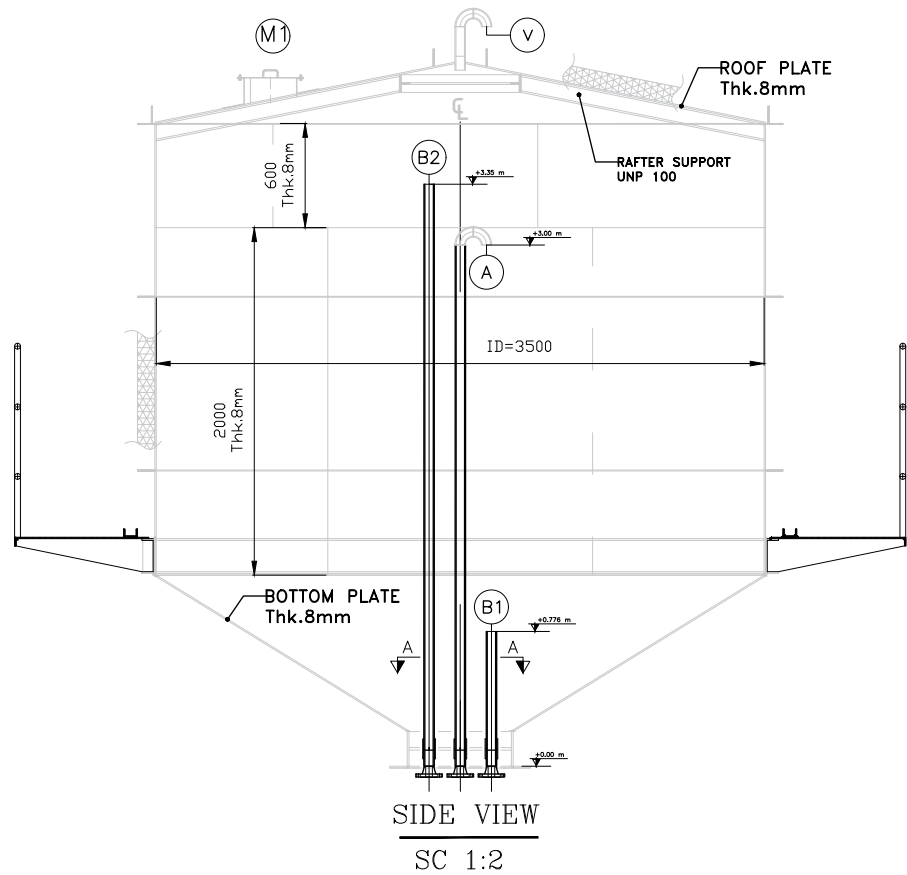
KEY PLAN



SECTION H-H

VO1	Jan.2025	APC	Idril M.E.	M.PAKHARAN	S.Parmarzpour
VO0	Nov.2024	IPA	Idril M.E.	M.PAKHARAN	M.Sadeghian
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.
PROJECT NAME: BINAQ OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS & GAS-CONDENSATE PIPELINES					
PROJECT NO.: 971020					
EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):		
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY		
DRAWING TITLE: GENERAL ARRANGEMENT FOR ELEVATED POTABLE WATER TANK (TK-2209)					
SCALE	SIZE	DRAWING NO.		SHEET NO.	REV.
1:15	A3	BK-GCS-IDR-120-ME-DW-0001		1 of 2	VO1

***	*****	00.00	000.0000	00.00	000.0000				
REV.	DESCRIPTION	BY	DATE	BY	DATE				
		CHECKED		REV. APPR.					
									
THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS									
BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION									
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.					
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
APPROVED FOR CONSTRUCTION			BY:		DATE:				
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION			



No.	Size	Qty	SCH	Projection	Flange	Description	Remark
A	2"	1	SCH 80	150mm	WN-150g-R.F.	Water Inlet	
B1	2"	1	SCH 80	200mm	WN-150g-R.F.	Water Outlet	
B2	2"	1	SCH 80	150mm	WN-150g-R.F.	Over Flow	
M1	24"	1		API 650		Manhole	
L	2"	1	SCH 80	150mm	WN-150g-R.F.	Level Transmitter	
D	2"	1	SCH 80	150mm	WN-150g-R.F.	Drain	
V	2"	1	SCH 80	150mm	WN-150g-R.F.	Vent	with wire mesh breather

NOZZLE DATA

REV.	DATE	DESCRIPTION	BY	DATE	BY	DATE
V01	Jan. 2025	AFC	idril M.E.	M.FAKHARIAN	S.Paramarspour	** **
V00	Nov. 2024	IPA	idril M.E.	M.FAKHARIAN	M.Sadeghian	** **

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES
GAS & GAS-CONDENSATE PIPELINES

PROJECT NO.: 971020

EPC CONTRACTOR:	EPD/EPC CONTRACTOR (GC):
 HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES	 PETROIRAN DEVELOPMENT COMPANY

DRAWING TITLE: GENERAL ARRANGEMENT FOR ELEVATED POTABLE WATER TANK (TK-2209)

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
1:20	A3	BK-GCS-IDR-120-ME-DW-0001	2 of 2	V01

NOTES

LEGEND

KEY PLAN

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APPROVED FOR CONSTRUCTION BY: DATE:

BUDGET REF. LOCATION SIZE CLASS SERIAL NO. SHEET REVISION