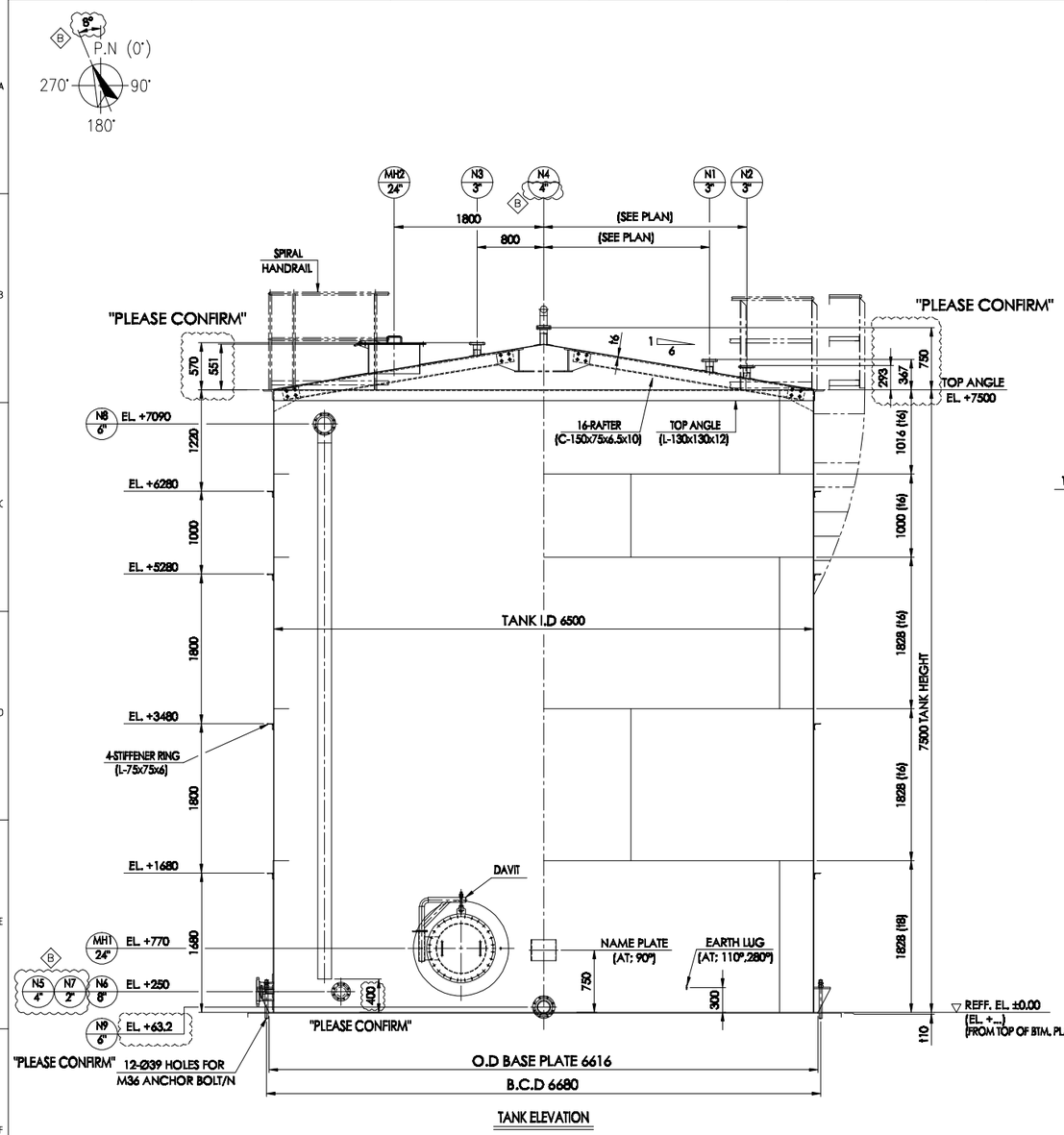
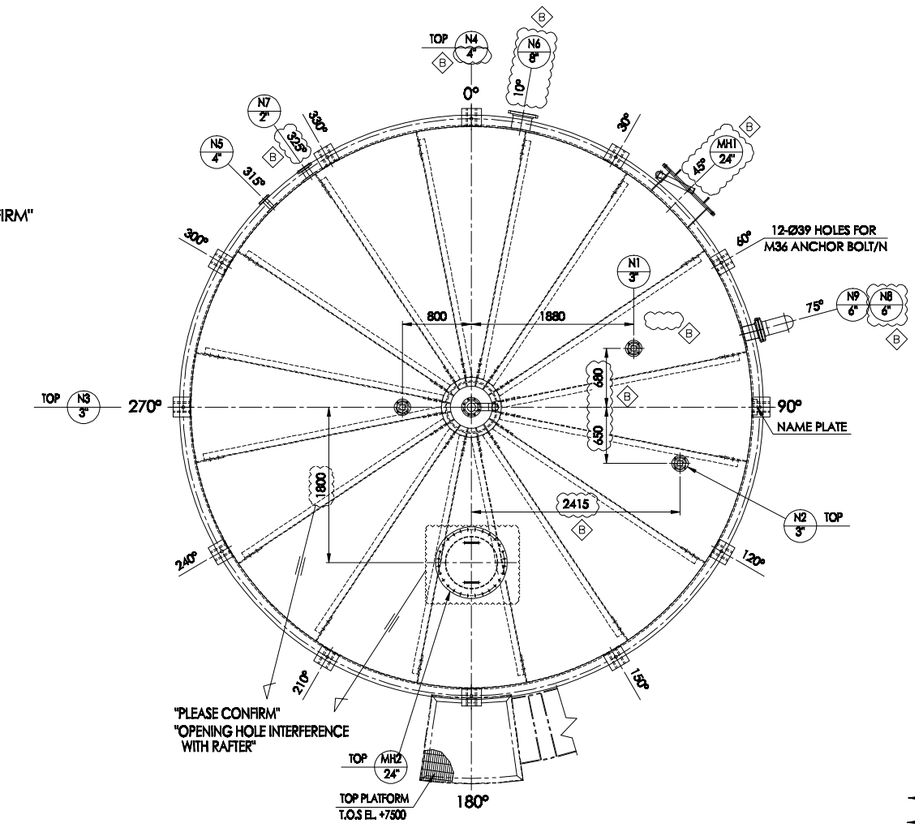
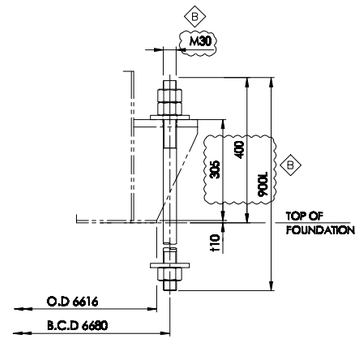


TANK ELEVATION



NOZZLE ORIENTATION
(PLAN VIEW)



ANCHOR BOLT/3N/W

"PLEASE CONFIRM"

HOLD POINT :

- PLEASE CONFIRM PROJECTION NOZZLE ON ROOF.
- PLEASE CONFIRM LOCATION MH2 DUE TO OPENING IS INTERFERE WITH THE RAFTER.
- PLEASE CONFIRM LOCATION NOZZLE N6 (8").

GENERAL NOTE :

1. ALL DIMENSIONS ARE IN MILIMETERS.
2. ALL DIMENSIONS TO BE INSIDE OF PLATEWORK UNO.
3. ALL FLANGE TO ANSI B16.5 CLASS 150#, HOLES OFF CENTRELINE U.N.O.
4. BUTT WELD SHALL BE QUALIFIED COMPLATE PENETRATION.
5. GASKET MATERIAL :
   A). SPESIAL FLANGE : NON ASBESTOS (13)
   B). NOZZLE GASKET : SPIRAL WOUND (14.5)
   -FILLER : FLEXIBLE GRAPHITE -INNER RING : C.S
   -HOOP : 316 S.S -OUTER RING : C.S
6. SURFACE PREPARATION & PAINTING TO SPEC'N ADIP-3655-2100-018-SFP-0003-2
7. ALL WELD MUST CONFIRM TO API 650 LATEST EDITION.

MATERIAL SPECIFICATIONS

SHELL		ASTM A36
REINF. PAD		ASTM A36
BOTTOM PLATE		ASTM A36
ROOF STRUCTURE		ASTM A36 (B)
STANDARD NOZZLE FLANGE		ASTM A105
STRUCTURE (PROFILE)		ASTM A36/SS 400 OR EQ.
NOZZLE NECK	PIPE	ASTM A106 Gr.B
	FORGING	-
BOLT/NUT	EXTERNAL	A193 Gr.B7 / A194 Gr.2H
	INTERNAL	A193 Gr.B7 / A194 Gr.2H (H.D.G) (B)
GASKET		NOTE 5
INTERNAL PART	FIXED	ASTM A36
	REMOVABLE	ASTM A36
ANCHOR BOLT/NUT		A307 Gr.B
NAME PLATE/BRACKET		316 S.S / A36
EARTHING LUG		304 S.S

DESIGN DATA

CODE		API 650 13th EDITION, 2020	NO. OF UNIT		1 UNIT
CODE STAMP		NO			
REGULATION		DISNAKER (APPROVAL DOC. ONLY)	CLASS OF TANK		-
PRESSURE kPa.G	DESIGN	FULL OF CONTENT	WEIGHT KG	FABRICATION	16500
	OPERAT.	ATM		EMPTY	16500
TEMP. °C	DESIGN	32		OPERATING	239490
	OPERAT.	AMB		TEST (SHOP)	245065
TEST PRESSURE kPa.G	HYDRO. (SHOP)	FULL OF WATER			(B)
	PNEUM. (mm)	-	SG. CONTENT		1
CORROSION ALLOWANCE (mm)		3	LIVE VOLUME (m^3)		232
RADIOGRAPHY (SHELL/ROOF)		SPOT/SPOT	WIND DESIGN CODE		ASCE 7-10
JOINT EFFICIENCY		0.85/0.85	SEISMIC DESIGN CODE		ASCE 7
POST WELD HEAT TREATMENT		NO	WIND SPEED (m/s)		40
FLUID NAME		CLEAN WATER (B)	SOUR SERVICE		NO
M.D.M.T. °C		0	PAINTING SPEC.		AS PER SPEC.
OUTER PAINT		YES (NOTE 6)			
INTERNAL PAINT		YES			
INSULATION (mm)		N/A			
FIRE PROOFING (mm)		N/A			

NOZZLE LIST

NOZZLE MARK	REQ'D NO.	NOM. SIZE	SCH. NO.	FLANGE RATING	SERVICE	TO C.L. PROJECTION	REMARKS
N1	1	3"	SCH.40	ANSI 150# S.O.R.F	FROM CLEAN WATER TANK 1	SEE DWG.	
N2	1	3"	SCH.40	ANSI 150# S.O.R.F	SPARE (BLID FLANGE CLOSE)	SEE DWG.	W/BLIND
N3	1	3"	SCH.40	ANSI 150# S.O.R.F	LEVEL TRANSMITTER	SEE DWG.	
N4	1	4" (A)	SCH.40	ANSI 150# S.O.R.F	VENT	SEE DWG.	W/MESH
N5	1	(B) 4"	SCH.80	ANSI 150# S.O.R.F	TO CLEAN WATER PUMP	3406	
N6	1	8"	SCH.80	ANSI 150# S.O.R.F	TO FIRE WATER PUMP	3458	
N7	1	2"	SCH.80	ANSI 150# S.O.R.F	TO GLAND WATER PUMP	3406	
N8	1	6"	SCH.80	ANSI 150# S.O.R.F	OVER FLOW	3456	W/OVERFLOW SPOOL
N9	1	6"	SCH.80	ANSI 150# S.O.R.F	DRAIN	3458	
MH1	1	24"	18	API 650 STD	MANHOLE	3558	W/BLIND & DAVIT
MH2	1	24"	18	API 650 STD	MANHOLE	SEE DWG.	W/BLIND & HINGE

Document / Drawing Review Status

- ☐ Proceed, no exception taken
- ☐ Proceed subject to incorporation of changes indicated. Revise & Re-Submit
- ☐ Do not proceed. Undertake changes noted and re-submit
- ☐ Review not required work may proceed

IMPORTANT
Acceptance with or without comments of vendor's drawing or documents shall not relieve the vendor from complying with all terms, conditions, codes, standard & requirements of order & specification. Re-submit when a revision is made to the drawing or document by the manufacture or by sub-sequent.

Sign: By: Date:

REFERENCES

DRG NUMBER	TITLE
E2602-4800-DWG-516	DETAIL OF ANCHOR BOLT & CHAIR
E2602-4800-DWG-515	DETAIL OF NAME PLATE
E2602-4800-DWG-514	DETAIL OF SPIRAL STAIRWAY & PLATFORM 4/4
E2602-4800-DWG-513	DETAIL OF SPIRAL STAIRWAY & PLATFORM 3/4
E2602-4800-DWG-512	DETAIL OF SPIRAL STAIRWAY & PLATFORM 2/4
E2602-4800-DWG-511	DETAIL OF SPIRAL STAIRWAY & PLATFORM 1/4
E2602-4800-DWG-510	DETAIL OF ROOF NOZZLE
E2602-4800-DWG-509	DETAIL OF SHELL NOZZLE 2/2
E2602-4800-DWG-508	DETAIL OF SHELL NOZZLE 1/2
E2602-4800-DWG-507	DETAIL OF ROOF MANHOLE
E2602-4800-DWG-506	DETAIL OF SHELL MANHOLE
E2602-4800-DWG-505	ROOF SUPPORT RAFTER
E2602-4800-DWG-504	ROOF PLATE ARRANGEMENT
E2602-4800-DWG-503	BOTTOM PLATE ARRANGEMENT
E2602-4800-DWG-502	SHELL PLATE ARRANGEMENT
E2602-4800-DWG-501	GENARAL ARRANGEMENT

REVISIONS

REV	DATE	DESCRIPTION	DRN	CKD	DESIGN ENG	LEAD ENG	PROJ APP	CLIENT APP'D
B	30/04/26	ISSUED FOR APPROVAL	INK	HER	DS	HK	MS	-
A	05/03/26	ISSUED FOR APPROVAL	INK	HER	DS	HK	MS	-

CPM PT Citra Patu Minerals

	NAME	DATE
DRAWN	INKO	14/10/25
CHECKED	-	-
DESIGN ENG	-	-
LEAD ENG	-	-
PROJ APP'D	-	-
CLIENT	-	-

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PLOT SCALE
AS-SHOWN

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THIRD ANGLE PROJECTION
A1 SHEET

TITLE
POBOYO 2000 TPD EXPANSION PROJECT
PROCESS PLANT AREA
CLEAN WATER TANK (4800-TK-122)
GENERAL ARRANGEMENT

CLIENT NUM: HNZ-V-PT0061.08-4800-STR-DWG-501
PROJ NUM: E2602 SHT: 1 OF 1
MARK NUM: - DRG NUM: E2602-4800-DWG-501 REV: B