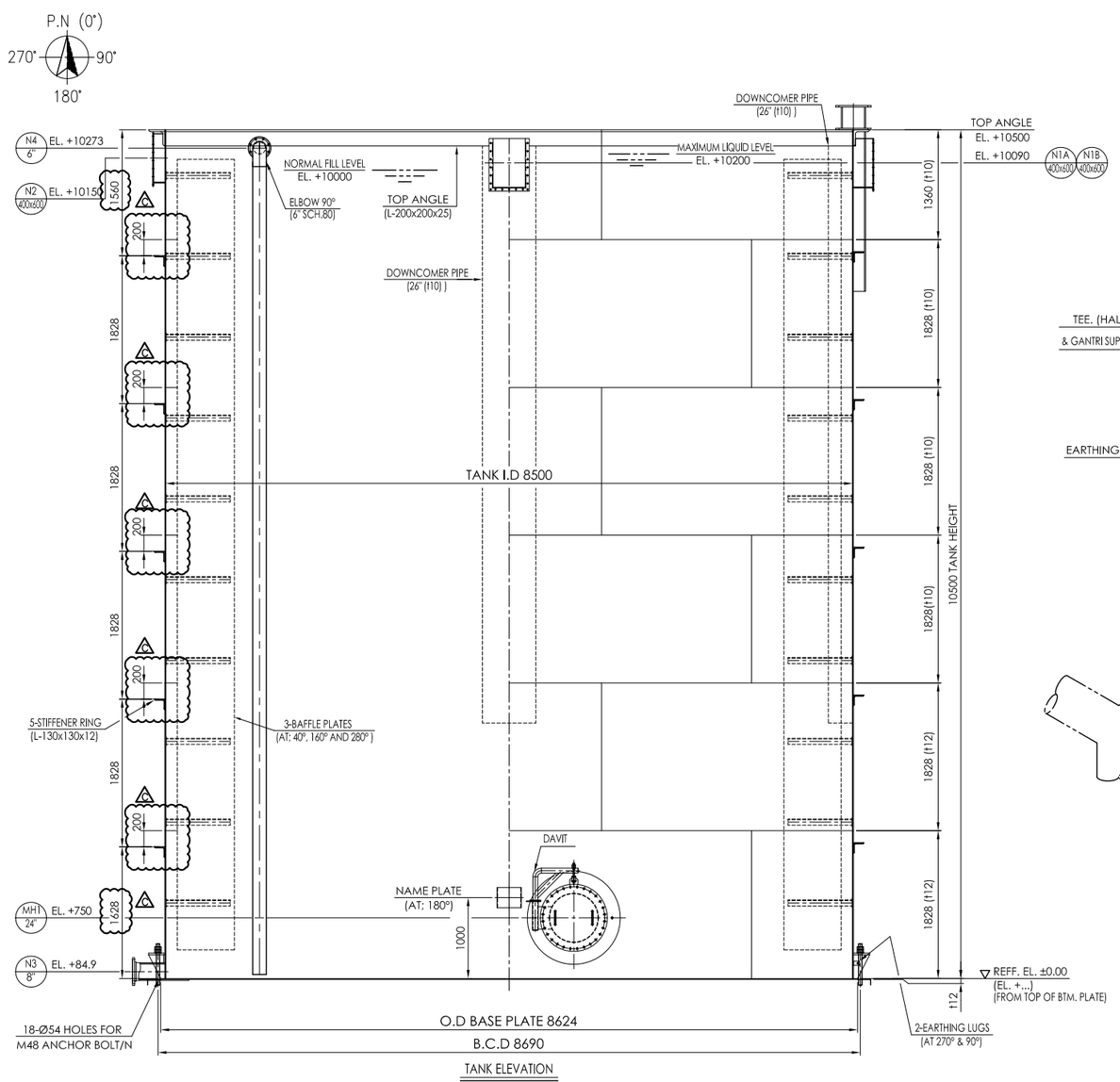

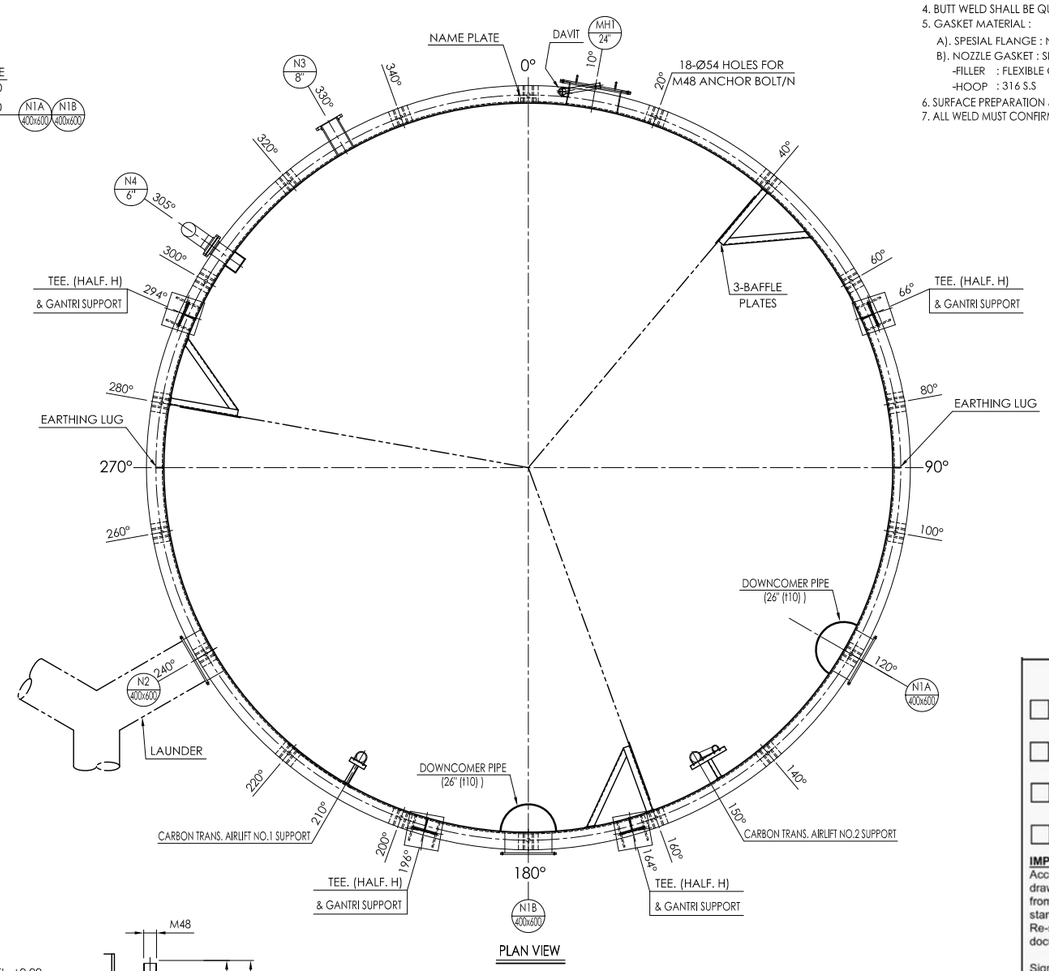

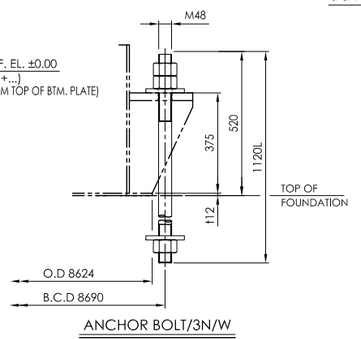

GENERAL NOTE :
1. ALL DIMENSIONS ARE IN MILIMETERS.
2. ALL DIMENSIONS TO BE INSIDE OF PLATEWORK UNO.
3. ALL FLANGE TO ANSI B16.5 CLASS 150#, HOLES OFF CENTRELINE U.N.O.
4. BUTT WELD SHALL BE QUALIFIED COMPLATE PENETRATION.
5. GASKET MATERIAL :
   A). SPESIAL FLANGE : NON ASBESTOS (t3)
   B). NOZZLE GASKET : SPIRAL WOUND (t4.5)
   -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.

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:

NOZZLE LIST

NOZZLE MARK	REQ'D NO.	NOM. SIZE	SCH. NO.	FLANGE RATING	SERVICE	TO C.L. PROJECTION	REMARKS
N1A	1	400x600	t6	-	INLET	SEE DWG.	W/DOWNCOMER PIPE
N1B	1	400x600	t6	-	INLET	SEE DWG.	W/DOWNCOMER PIPE
N2	1	400x600	t6	-	OUTLET	SEE DWG.	W/LAUNDER
N3	1	8"	SCH.80	ANSI 150# S.O.R.F	DRAIN	4662/SEE DWG.	W/CLEAN OUT DOOR
N4	1	6"	SCH.80	ANSI 150# S.O.R.F	OVERFLOW	4510	W/OVERFLOW SPOOL
MH1	1	24"	t8	API 650 STD	MANHOLE	4462	W/BLIND & DAVIT

MATERIAL SPECIFICATIONS

SHELL		ASTM A36
REINF. PAD		ASTM A36
BOTTOM PLATE		ASTM A36
STANDARD NOZZLE FLANGE		ASTM A105
NOZZLE NECK	PIPE	ASTM A106 Gr.B
	FORGING	-
BOLT/NUT	EXTERNAL	A193 Gr.B7 / A194 Gr.2H
	INTERNAL	-
GASKET		NOTE 5
INTERNAL PART	FIXED	ASTM A36
	REMOVABLE	ASTM A36
ANCHOR BOLT/NUT		A307 Gr.B (HDG)
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	ATM	WEIGHT KG	FABRICATION	37790
	OPERAT.	-		EMPTY	37790
TEMP.	DESIGN	48		OPERATING	633613
	OPERAT.	AMB		TEST (SHOP)	648508
TEST PRESSURE kPa.G	HYDRO. (SHOP)	FULL OF WATER			
	PNEUM. (mm)	-	SG. CONTENT		1.4
CORROSION ALLOWANCE (mm)		3	LIVE VOLUME (m^3)		567
RADIOGRAPHY		SPOT	WIND DESIGN CODE		ASCE 7-10
JOINT EFFICIENCY		0.8 / 0.75	SEISMIC DESIGN CODE		ASCE 7
POST WELD HEAT TREATMENT		NO	WIND SPEED (m/s)		40
FLUID NAME		-	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			

REFERENCES

E2502-000-DWG-312	DETAIL OF ANCHOR BOLT & CHAIR
E2502-000-DWG-311	DETAIL OF NAME PLATE
E2502-000-DWG-310	DETAIL OF EXTERNAL SUPPORT
E2502-000-DWG-309	DETAIL OF INTERNAL SUPPORT PIPE
E2502-000-DWG-308	DETAIL OF INTERNAL BAFFLE
E2502-000-DWG-307	DETAIL OF NOZZLE 3/3
E2502-000-DWG-306	DETAIL OF NOZZLE 2/3
E2502-000-DWG-305	DETAIL OF NOZZLE 1/3
E2502-000-DWG-304	DETAIL OF MANHOLE
E2502-000-DWG-303	DETAIL OF BOTTOM SUPPORT
E2502-000-DWG-302	DETAIL OF BODY & SUPPORT
E2502-000-DWG-301	GENARAL ARRANGEMENT
DRG NUMBER	TITLE

REVISIONS

REV	DATE	DESCRIPTION	DRN	CKD	DESIGN ENG	LEAD ENG	PROJ APP	CLIENT APP'D
C	28/01/26	ISSUED FOR APPROVAL	INK	HER	DS	HK	MS	-
B	03/11/25	ISSUED FOR APPROVAL	INK	HER	DS	HK	MS	-
A	15/10/25	ISSUED FOR APPROVAL	INK	HER	DS	HK	MS	-

	NAME	DATE
DRAWN	INKO	15/10/25
CHECKED	-	-
DESIGN ENG	-	-
LEAD ENG	-	-
PROJ APP'D	-	-
CLIENT	-	-

COMO ENGINEERS
L2, 38 RICHARDSON ST WEST PERTH, WESTERN AUSTRALIA 6005
+61 8 9432 0100
www.comoeng.com.au
P.T.HANAZONO ENGINEERING INDONESIA

PLOT SCALE AS-SHOWN

NEITHER THIS DOCUMENT NOR ITS CONTENTS MAY BE USED OR REPRODUCED IN ANY MANNER WITHOUT WRITTEN AUTHORIZATION. © COPYRIGHT

THIRD ANGLE PROJECTION
A1 SHEET

TITLE
POBOYO 2000 TPD EXPANSION PROJECT
PROCESS PLANT AREA
ADSORPTION TANK 02 (4430-TK-103)
GENERAL ARRANGEMENT

CLIENT NUM -
PROJ NUM -
SHT: 1 OF 1
MARK NUM -
DRG NUM E2502-000-DWG-301
REV C