

2:1 ELLIP. HEAD USED TH'K : 12 (MIN. TH'K : 10 AFTER FORMING)

INSULATION THK. 60

CIRCULAR IMPINGEMENT PLATE

1-EARTH LUG

1323 (OPE. CONDITION) 1265 (FAB. CONDITION)

6-#10 TIE RODS W/3/4" SPACERS

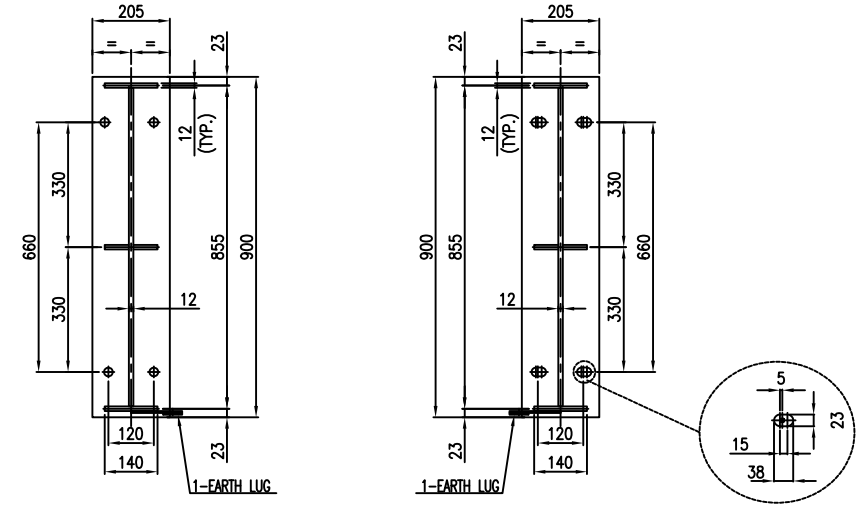
1-EARTH LUG

INSULATION THK. 60

2:1 ELLIP. HEAD USED TH'K : 14 (MIN. TH'K : 12 AFTER FORMING)

TUBE SIZE : O.D. 19.05 x t1.651(AVE.) x S.T.L. 2300

REQ'D NO. : U-188 EA PITCH : 23.813 30°



- NOTES
- UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.
  - UNLESS OTHERWISE NOTED OUTSIDE PROJECTION OF NOZZLES ARE MEASURED FROM C.L. OF EXCHANGER TO THE EXTREME FACE OF NOZZLE.
  - ALL WELDS CONTINUOUS EXCEPT NOTED.
  - BOLT HOLES FOR FLANGES SHALL BE STRADDLED TO EQUIPMENT MAIN AXIS.
  - ALL R.F. FLANGES SHALL HAVE SMOOTH FINISH FACING WITH RA= 3.2mm TO RA= 6.3mm
  - BASE LINE (B.L.) INDICATES THE GASKET CONTACT SURFACE OF TUBE SHEET
  - REINFORCING PADS FOR NOZZLES SHALL BE TAPPED WITH AT LEAST ONE (1) TELL TALE HOLE NPT 1/4" WITH VENT PIPE.
- 
- DIMENSIONS REFER TO BAFFLES ARE MEASURED FROM C.L.OF EACH PLATE.
  - GASKET MATERIAL FOR ASME B16.20. SPIRAL WOUND (t4.5)
    - FILLER: GRAPHITE
    - INNER RING: 304 S.S.
    - HOOP: 304 S.S.
    - OUTER RING: 304 S.S.
  - GASKET MATERIAL: SPIRAL WOUND (t4.5)
    - FILLER: GRAPHITE
    - INNER RING: 304 S.S.
    - HOOP: 304 S.S.
  - SPARE PART (OPTIONAL)
- |                   | CONSTRUCTION & COMMISSIONING |
|-------------------|------------------------------|
| GASKETS           | 100%                         |
| STUD BOLTS & NUTS | 5% (MIN. 2SETS)              |
- ALL EXPOSED SURFACE SHALL BE PAINTED AS FOLLOWS: EXPOSED SURFACE FOR EXTERNAL PARTS: E1027-HSE-VD-QC-PRO-002
  - EXPOSED SURFACE OF INTERNAL: NOT PARTS REQUIRED
  - 1/1.4 FACTOR FOR LOAD COMBINATION HAS BEEN APPLIED
  - TUBES SHALL BE SEAMLESS
  - GASKET CONTACT SURFACE OF TUBE SHEET & GIRTH FLANGE: RA= 1.6µm (MAX)
  - FURTHER DETAILS TO BE ADDED FOR DISCLAIMER PURPOSES SUCH AS AFTER HYDROTEST TO BE CLEANED AND DRIED.

REFERENCE DRAWING	DWG NO.	REV.
-	-	-

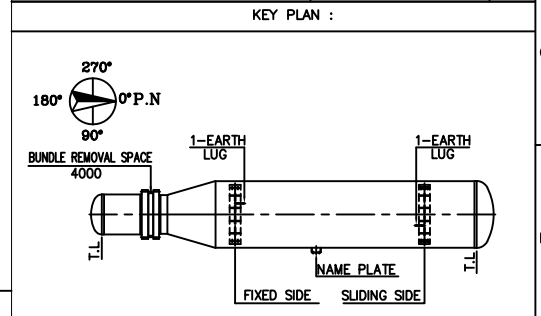


TABLE FOR FOUNDATION LOAD DATA

WIND		SEISMIC (NOTE 13)	
SHEAR (kgf)	MOMENT (kgf-m)	SHEAR (kgf)	MOMENT (kgf-m)
478	430	970	873

MATERIALS

	SHELL	GENERAL
BARREL	SA516-70N	SLIDING BAR/ROD SA516 70/SA36
FLANGES	SA350-LF2 CL.1N	SEALING STRIP SA516 70
NOZZLE FROM PIPE	SA333-6	DUMMY TUBE/SEAL ROD -
NOZZLE FROM PLATE	SA516-70N	BLUNDED NOZZLE BOLT/NUT SA320 L7/SA194-4
NOZZLE FLANGES	SA350-LF2 CL.1N	BLUNDED NOZZLE GASKET SEE NOTE "9"
COUPLINGS & PLUGS	-	TEST RING SA-266 2
NOZZLE REINF. PAD	SA516-70N	GASKETS
EXCHANGERS SUPPORTS	SA283-C	SHELL/COVER -
SUPPORT WEAR PLATE	SA516-70N	SHELL/TUBESHEET SEE NOTE "10"
STIFFENING RINGS	SA516-70N	CHANNEL/TUBESHEET SEE NOTE "10"
EXPANSION JOINT	-	CHANNEL/COVER -
LINING	-	FLOATING HEAD -
SHELL COVER		FLOATING HEAD
BARREL	-	COVER -
COVER	-	FLANGES -
FLANGES	-	SPLIT RING -
CHANNEL		BOLTS & NUTS
BARREL	SA516-70N	SHELL/COVER -
FLANGES	SA266-2N	SHELL/CHANNEL SA320-L7/SA194-4
COVER	SA516-70N	CHANNEL/COVER -
FLAT COVER	-	FLOATING HEAD -
NOZZLE FROM PIPE	SA106-B	SETTING BOLTS/NUTS SA193 B7 / SA194 2H
NOZZLE REINF.	SA516-70N	TUBE BUNDLE
NOZZLE FLANGES	SA105N	TUBES SA334-6
COUPLINGS & PLUGS	-	TUBESHEETS SA350-LF2 CL1N
NOZZLE REINF. PAD	SA516-70N	BAFFLES/SUPPORTS/MP. PLATE SA516-70
PARTITION PLATES	SA516-70N	TIE RODS & SPACERS SA36/SA179

DESIGN DATA

CODE	ASME SEC. VIII DV.1 (2021 ED.)	TYPE	H-BKU
TEMA CLASS	TEMA 10TH ED. (CLASS "R")	CODE STAMP	NO
LOCAL REGULATION	NO	WIND / SEISMIC CODE	UBC 97
FLUID	PROPANE STYRENE	WIND EXPOSURE / VELOCITY (km/h)	D / 125
DESIGN (INT.EXT.)	PRESS. barg 22/F.V. 6.8	Ca/Cv/Nv	0.4/0.56/1
	TEMP. (°C) 120/85	SEISMIC IMPORTANCE FACTOR/RESPONSE FACTOR	1.25 / 3
	STEAM OUT CONDITION -	INSULATION (TYPE/THK.)	COLD/60 COLD/60
OPER. (IN/OUT)	PRESS. barg 3.813 4.5	FIRE PROOFING (mm)	-
	TEMP. (°C) 1.24/1 15.2/5	PAINTING	SEE NOTE "12"
CORROSION ALLOWANCE (mm)	3	TUBE TO TUBESHEET JOINT	NEW EXPOSED WITH 2 GRINDS WITH SEAL WELD
JOINT EFFICIENCY (S/H)	1.0/1.0 1.0/1.0	NO. OF PASS	1(ONE) 4(FOUR)
RADIOGRAPHY (S/H)	FULL/FULL FULL/FULL	BUNDLE (KG)	840
HYDRO. TEST PRESS. (SHOP/FIELD)	barg 28.6/28.6 8.84/8.84	ERECTION (KG)	2,850
HYDRO. TEST TYPE	(U-200) NOTE (B) (U-200) NOTE (B)	EMPTY (KG)	2,850
PNEUM. TEST PRESS. barg	-	OPER. (KG)	4,250
M.D.M.T (°C)	-45 -29	FULL WATER (KG)	4,900
M.A.W.P (HOT & CORRODED) barg	22 6.8	SURFACE AREA/SHELL (M²)	61.76
M.A.P (NEW & COLD) barg	22 6.8	VOLUME (M³)	1.65 0.38
P.W.H.T	NO NO	FLUID DENSITY (kg/m³)	532.9 918.4
IMPACT TEST	NO NO	MEAN METAL TEMP. (°C)	- -
S.R OF HEAD AFTER COLD FORMING	YES YES		
		SHELL SIDE	TUBE SIDE

NOZZLE LIST

NOZZLE MARK	QTY / 1 SET	SIZE (INCH)	FLANGE RATING	SCH.	SERVICE	H/EX. C.L. PROJECTION	REINF. PAD TH'K	O.D.
S1	1	4"	ASME B16.5 300# WN,RF	120	SHELL SIDE INLET	SEE DWG.	12	220
S2	1	6"	ASME B16.5 300# WN,RF	80	SHELL SIDE OUTLET	675	12	300
T1	1	3"	ASME B16.5 150# WN,RF	80	CHANNEL SIDE INLET	SEE DWG.	10	190
T2	1	3"	ASME B16.5 150# WN,RF	80	CHANNEL SIDE OUTLET	SEE DWG.	10	190
D1	1	2"	ASME B16.5 300# LWN,RF	160	SHELL SIDE DRAIN	SEE DWG.	-	-
D2	1	2"	ASME B16.5 300# LWN,RF	160	OIL RECOVERY	SEE DWG.	-	-
LG1	1	2"	ASME B16.5 300# WN,RF	160	LEVEL GAUGE	SEE DWG.	-	-
LG2	1	2"	ASME B16.5 300# WN,RF	160	LEVEL GAUGE	SEE DWG.	-	-
PSV	1	3"	ASME B16.5 300# WN,RF	160	PRESSURE SAFETY VALVE	675	12	190
V	1	2"	ASME B16.5 300# LWN,RF	t16.6	VENT	675	-	-
S3	1	2"	ASME B16.5 300# WN,RF	160	SHELL SPARE/PURGE	SEE DWG.	-	-

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
R2	09.14.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.
R1	06.27.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.
R0	04.21.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.

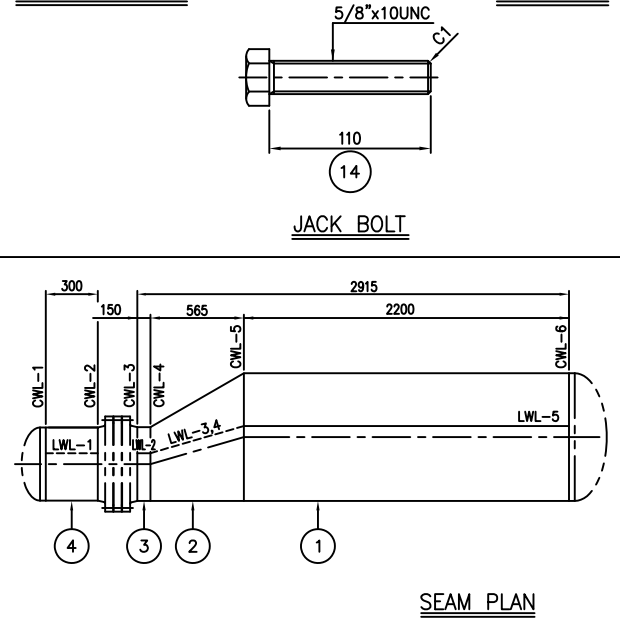
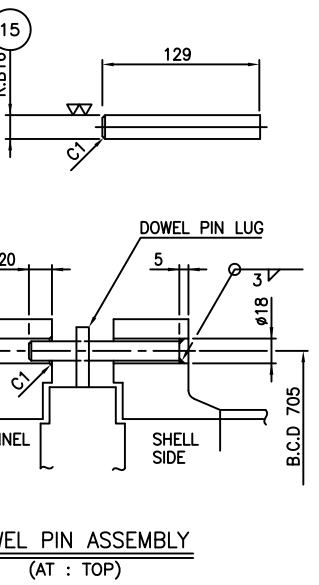
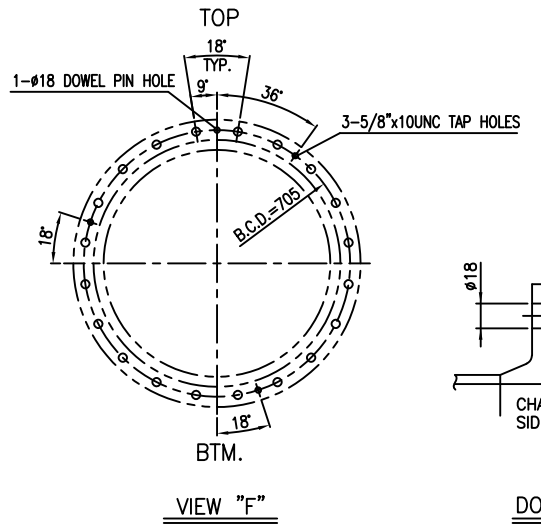
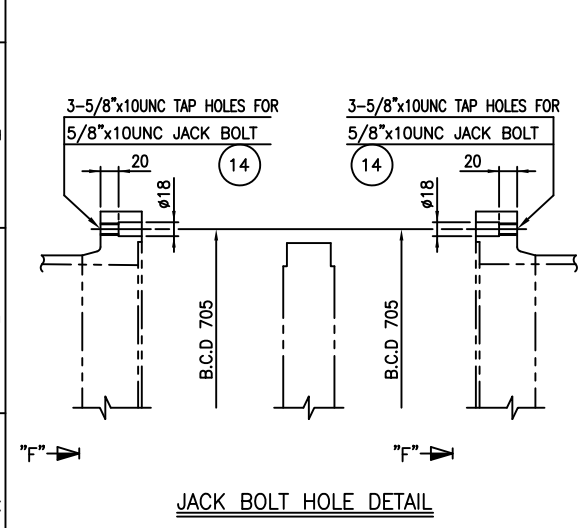
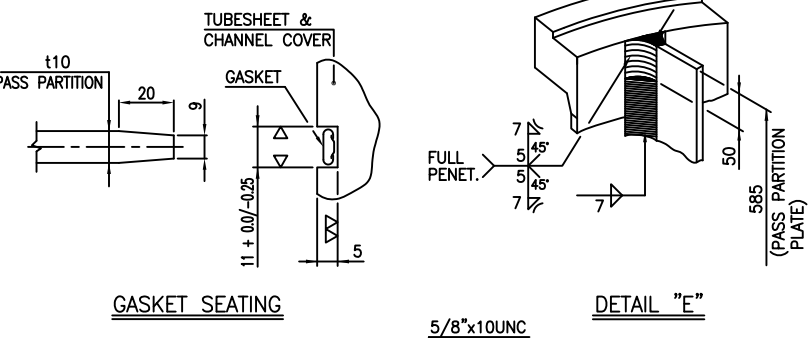
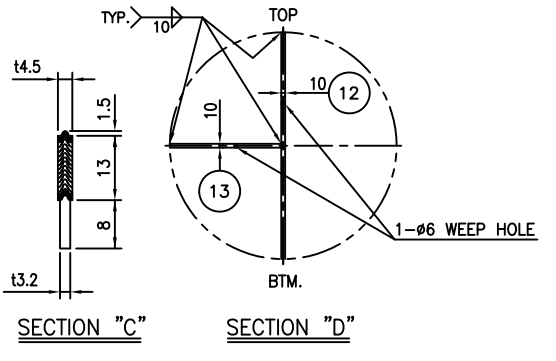
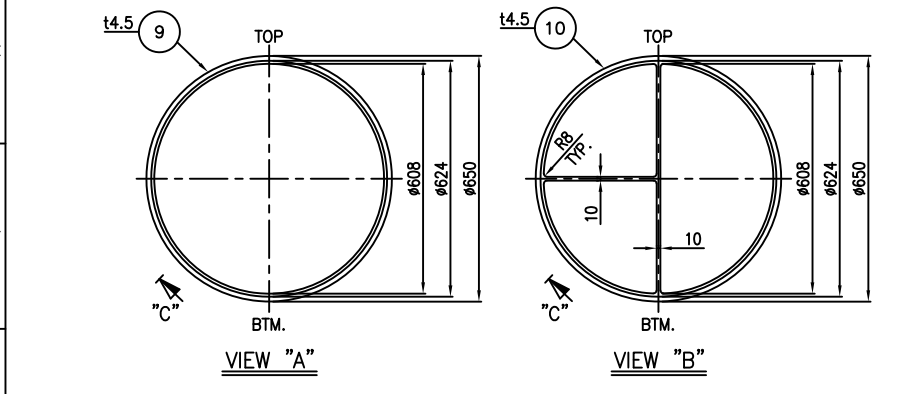
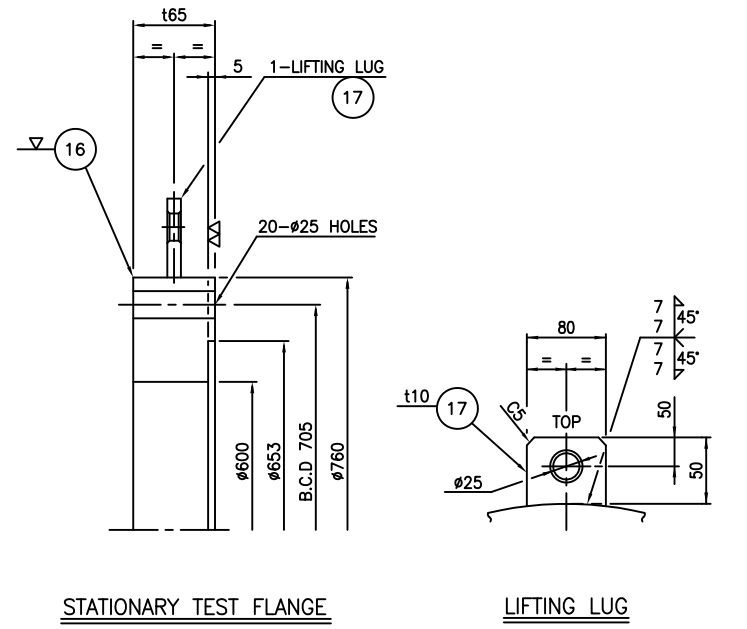
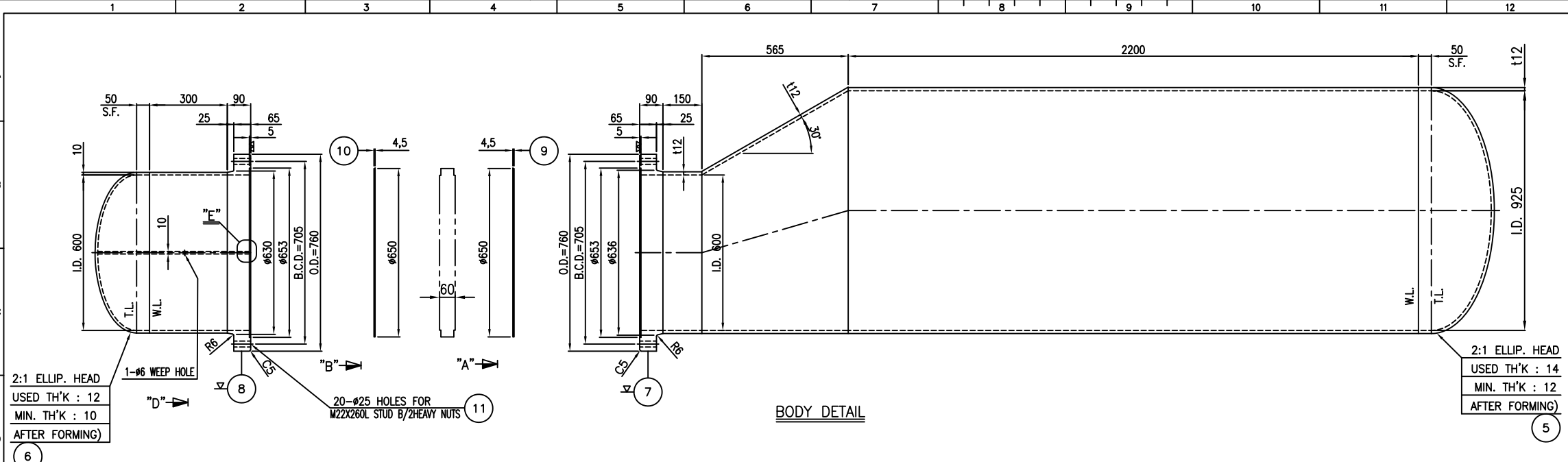
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CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **GENERAL ARRANGEMENT DRAWING FOR CHILLER (EVAPORATOR)**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
E1027-HSE-VD-ME-DWG-008	R2	A3	NTC	1 of 8



**NOTES**

- UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.
- GASKET MATERIAL: SPIRAL WOUND (t4.5)  
 - FILLER: GRAPHITE  
 - INNER RING: 304 S.S.  
 - HOOP: 304 S.S.

* FOR ONE SET					
NO.	PART NAME	MATERIAL	REGULAR QUANTITY	SPARE QUANTITY	REMARK
17	LIFTING LUG	SA283-C	1		t10 x 80 x 50
16	TEST FLANGE	SA266-2	1		110 x 1000 x 0.700
15	DOWEL PIN	304 S.S.	1		R.B16 x L129
14	JACK BOLT	304 S.S.	6		5/8"x10UNC x L110
13	PASS PARTITION PLATE	SA516-70N	1		t10 x 295 x 585 H.D.G.
12	PASS PARTITION PLATE	SA516-70N	1		t10 x 600 x 585
11	STUD B/2HEAVY NUTS	SA307-17/SA194-4	20SETS	3SETS	M22 x 10UNC x L260 H.D.G.
10	GASKET	SEE NOTE "2"	1	2	t4.5 (SEE DWG.)
9	GASKET	SEE NOTE "2"	1	2	t4.5 (SEE DWG.)
8	CHANNEL FLANGE	SA266-2N	1		110 x 1000 x 0.700
7	SHELL FLANGE	SA307-LF2 CLIN	1		110 x 1000 x 0.700
6	CHANNEL HEAD	SA516-70N	1		USED THK.12 (21 BLUP)
5	SHELL HEAD	SA516-70N	1		USED THK.14 (21 ELLIP)
4	CHANNEL SHELL	SA516-70N	1		t10 x 300 x 1916
3	SHELL	SA516-70N	1		t12 x 150 x 1923
2	CONE	SA516-70N	1		t12 (SEE DWG.)
1	SHELL	SA516-70N	1		t12 x 2200 x 2944

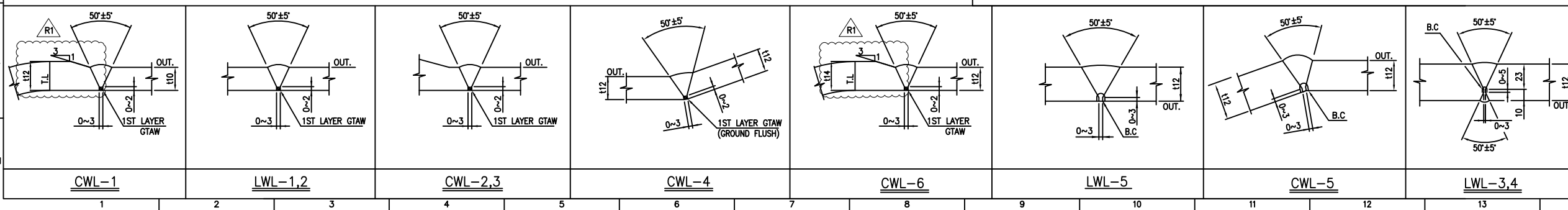
**BILL OF MATERIAL**

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
R1	07.13.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.
R0	06.27.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.

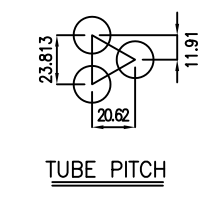
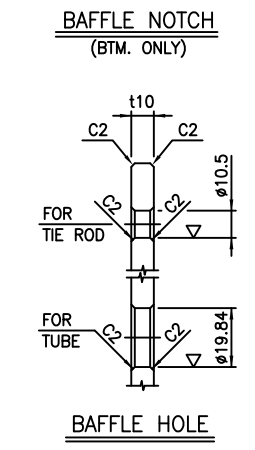
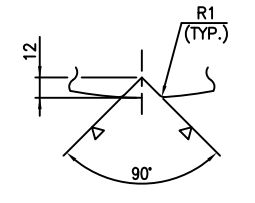
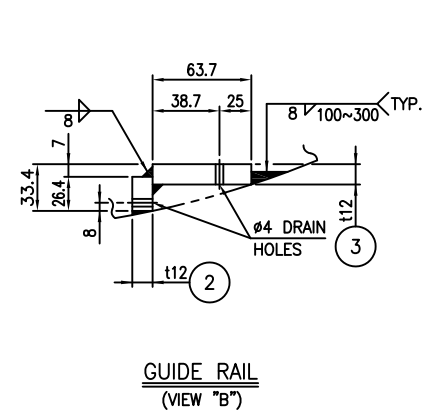
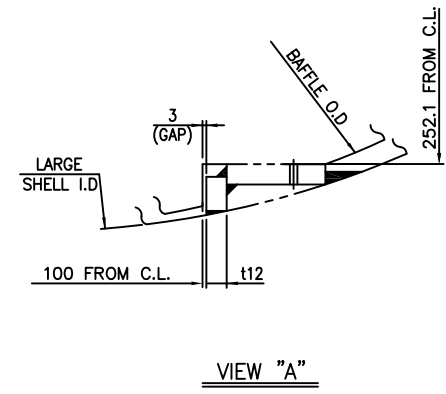
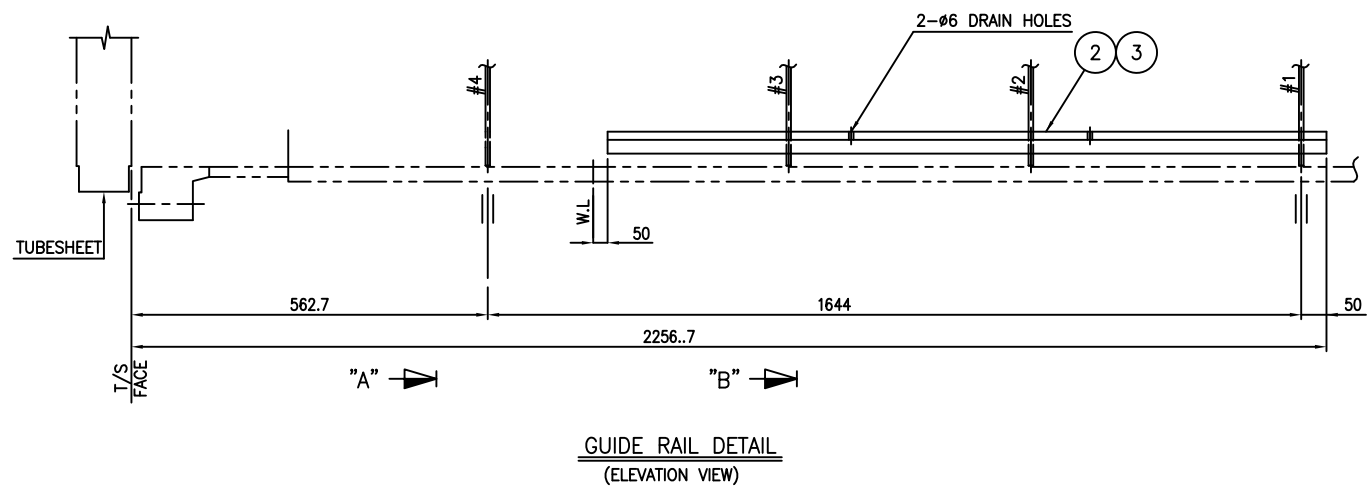
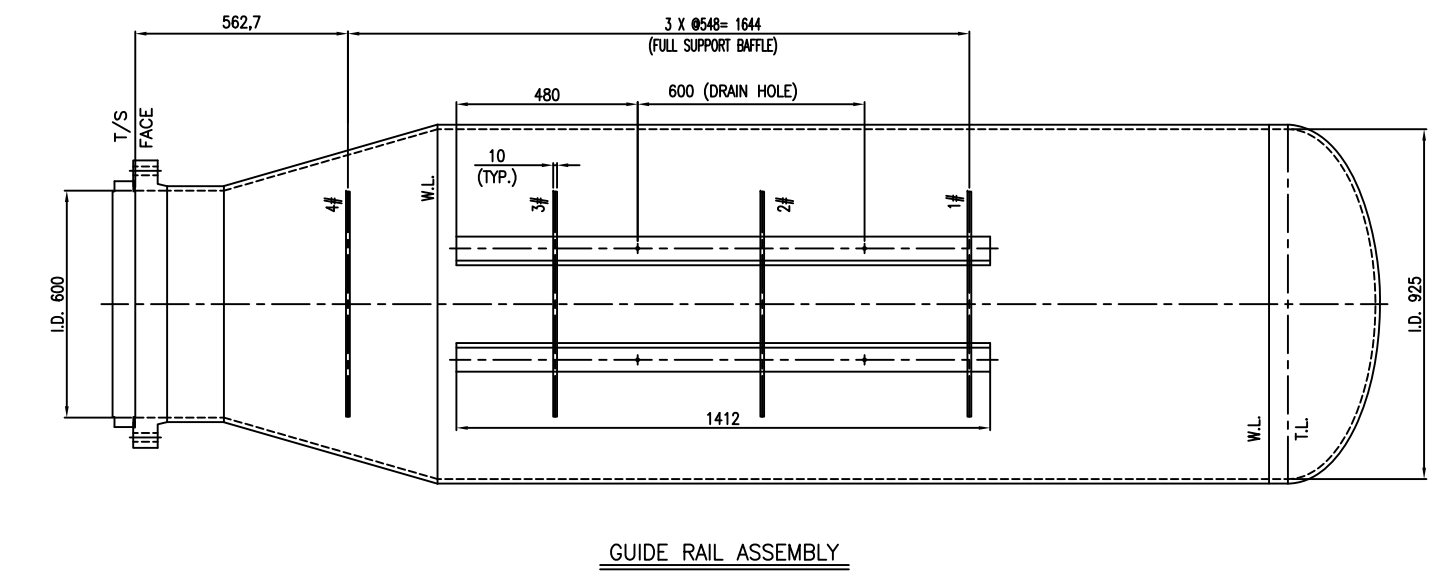
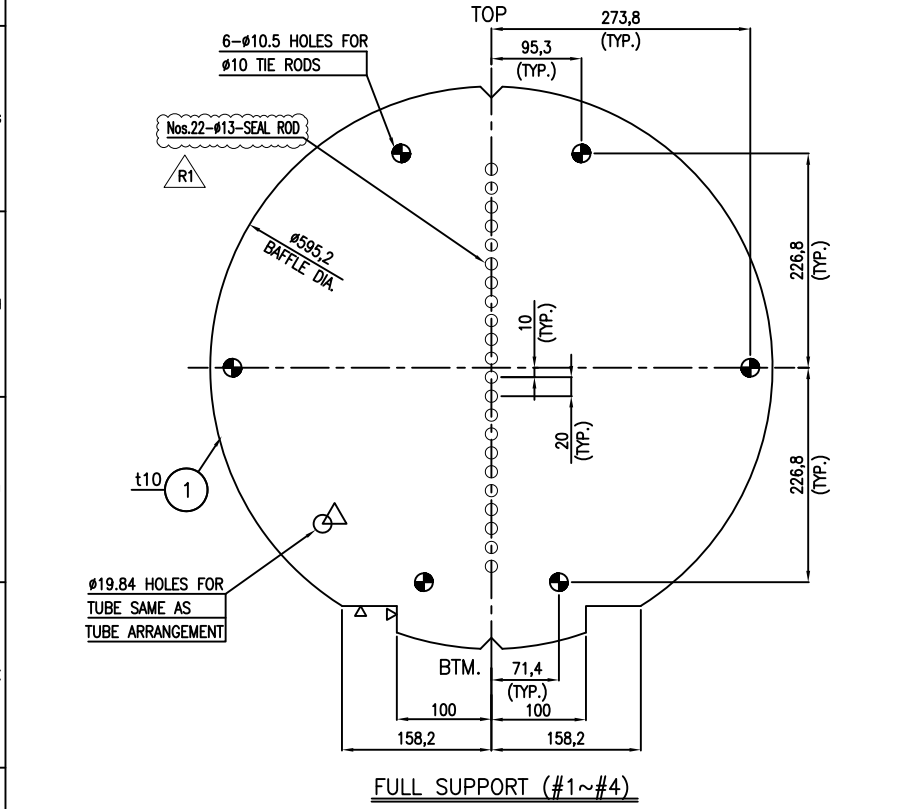
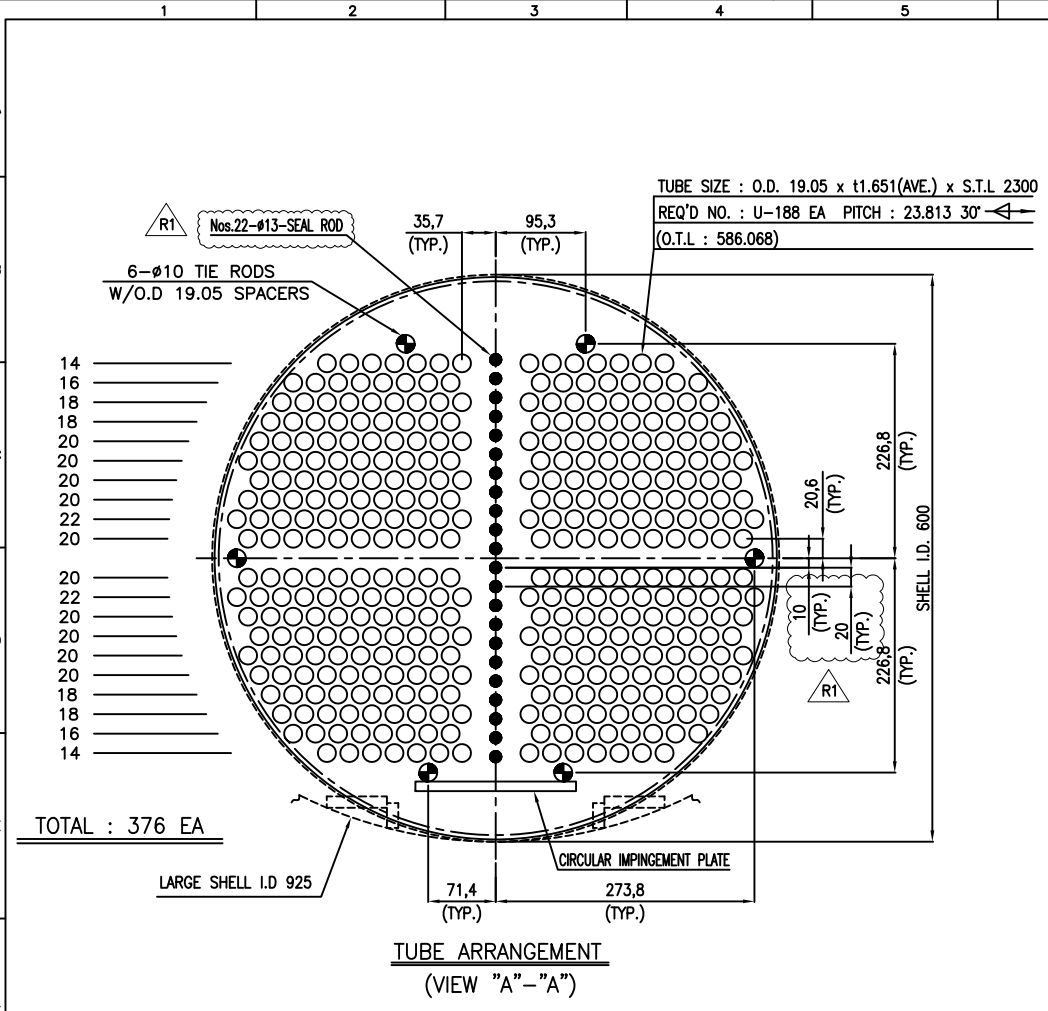
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CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**  
 DRAWING TITLE: **BODY DETAIL DRAWING FOR CHILLER (EVAPORATOR)**



DRAWING NO.	REV.	SIZE	SCALE	SHEET
EIO27-HSE-VD-ME-DWG-008	R1	A3	NTC	2 of 8



NOTES

1. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.

\* FOR ONE SET


3	GUIDE RAIL	SAS16-70M	2	t12 x 63.7 x 1412
2	GUIDE RAIL	SAS16-70M	2	t12 x 28.4 x 1412
1	FULL SUPPORT	SAS16-70	4	t10 x #595.2

PART NO.	PART NAME	MATERIAL	REGULAR SPARE QUANTITY	SPECIFICATION	REMARK
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BILL OF MATERIAL

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
R1	07.13.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.
R0	06.27.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.

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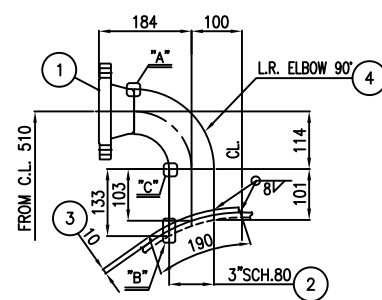
CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

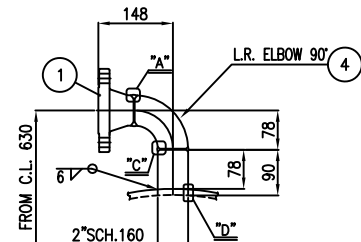
DRAWING TITLE: **BUNDLE DETAIL DRAWING FOR CHILLER (EVAPORATOR) (1/2)**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EIO27-HSE-VD-ME-DWG-008	R1	A3	NTC	3 of 8

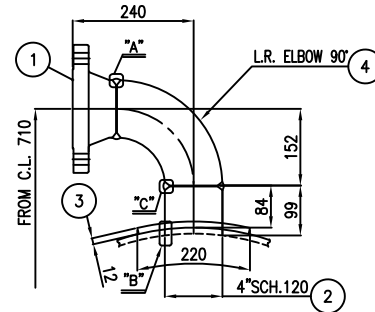




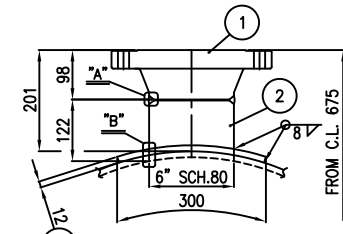
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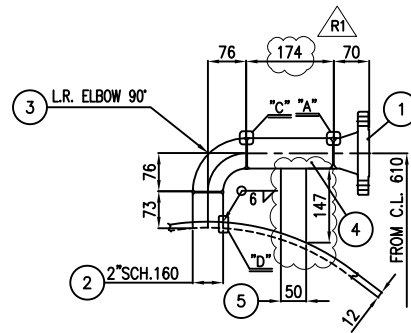
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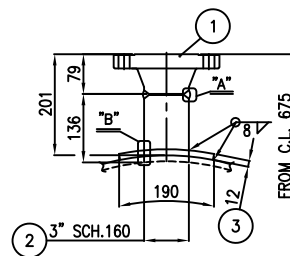
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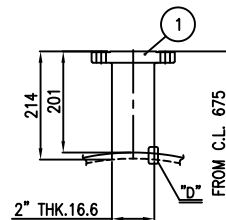
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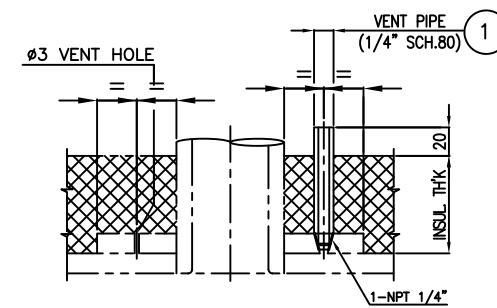
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DETAIL OF  $\begin{matrix} PSV \\ 3" \\ 3" \end{matrix}$



DETAIL OF  $\begin{matrix} V \\ 2" \\ 2" \end{matrix}$



HOLES ON REINF. PAD  
(SEE NOTE "2,3")

- NOTES
- UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.
  - FOR THE TEST VENT HOLES #3 WILL BE OBTURED BY WELDING.
  - AFTER TEST 1/4" HOLE SHALL BE FILLED WITH THREADED TUBE EXTENDING BEYOND INSULATION.

BILL OF MATERIAL FOR ONE SET

NOZZLE PART NO.	PART NAME	MATERIAL	REGULAR QUANTITY	SPARE QUANTITY	SPECIFICATION	REMARK
2	HALF COUPLING	SA105	5		1/4" ASME 3000#	
1	VENT PIPE	SA106-B	5		1/4" SCH.80, L80	
5	GUSSET	SA516-70	2		15 x 50 x 147	
4	NOZZLE NECK	SA333-6	2		2" SCH.160 x L174	
3	ELBOW	SA420-WPL6	2		2" SCH. 160 , LR 90	
2	NOZZLE NECK	SA333-6	2		2" SCH.160 x L73	
1	FLANGE (SCH.160)	SA350-LF2 CL.1N	2		2" ASME 300# WNLRF	
3	ELBOW	SA420-WPL6	3		2" SCH. 160 , LR 90	
2	NOZZLE NECK	SA333-6	3		2" SCH.160 x L80	
1	FLANGE (SCH.160)	SA350-LF2 CL.1N	3		2" ASME 300# WNLRF	
1	FLANGE (THK.16.6)	SA350-LF2 CL.1N	1		4" ASME 300# WNLRF	
3	REINF. PAD	SA516-70M	1		112 x #220	
2	NOZZLE NECK	SA333-6	1		4" SCH.120 x L131	
1	FLANGE (SCH.120)	SA350-LF2 CL.1N	1		4" ASME 300# WNLRF	
3	REINF. PAD	SA516-70M	1		112 x #190	
2	NOZZLE NECK	SA333-6	1		3" SCH.120 x L136	
1	FLANGE (SCH.160)	SA350-LF2 CL.1N	1		3" ASME 300# WNLRF	
3	REINF. PAD	SA516-70M	1		112 x #300	
2	NOZZLE NECK	SA333-6	1		6" SCH.80 x L122	
1	FLANGE (SCH.80)	SA350-LF2 CL.1N	1		6" ASME 300# WNLRF	
4	ELBOW	SA234 WPB	2		3" SCH.80 , LR 90	
3	REINF. PAD	SA516-70M	2		110 x #190	
2	NOZZLE NECK	SA106-B	2		3" SCH.80 x L133	
1	FLANGE (SCH.80)	SA105H	2		3" ASME 150# WNLRF	
4	ELBOW	SA420-WPL6	1		4" SCH. 120 , LR 90	
3	REINF. PAD	SA516-70M	1		112 x #225	
2	NOZZLE NECK	SA333-6	1		4" SCH.120 x L99	
1	FLANGE (SCH.120)	SA350-LF2 CL.1N	1		4" ASME 300# WNLRF	

BILL OF MATERIAL

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
R1	09.14.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.
R0	06.27.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.

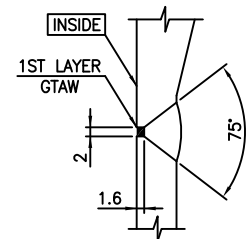
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CONSULTING ENGINEER

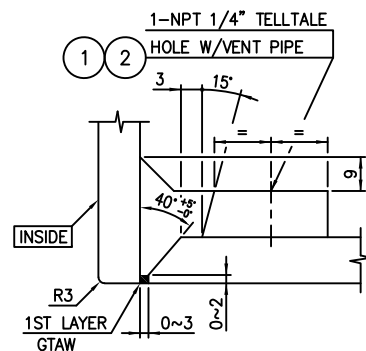
PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **NOZZLE DETAIL DRAWING FOR CHILLER (EVAPORATOR)**

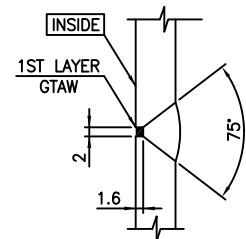
DRAWING NO.	REV.	SCALE	SHEET
EIO27-HSE-VD-ME-DWG-008	R1	A3	6 of 8



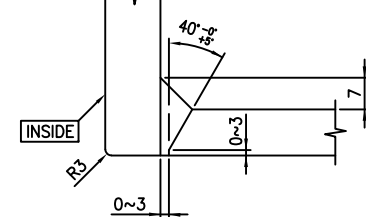
DETAIL "A"



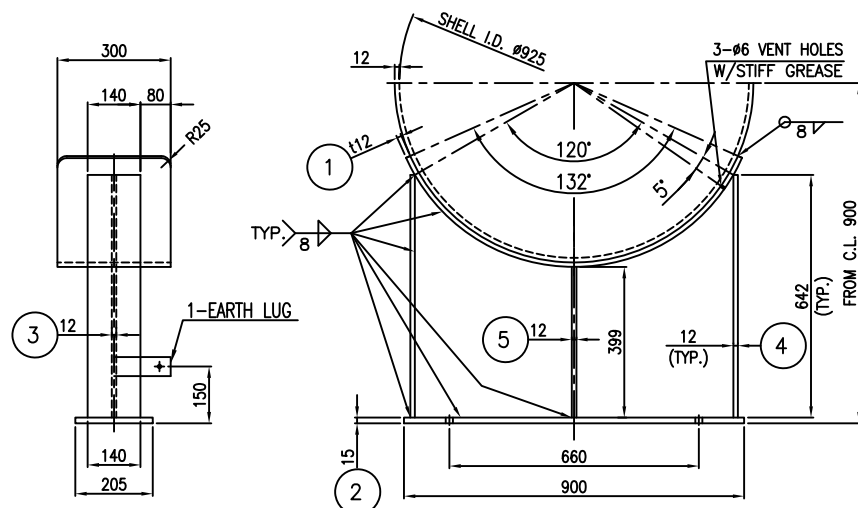
DETAIL "B"



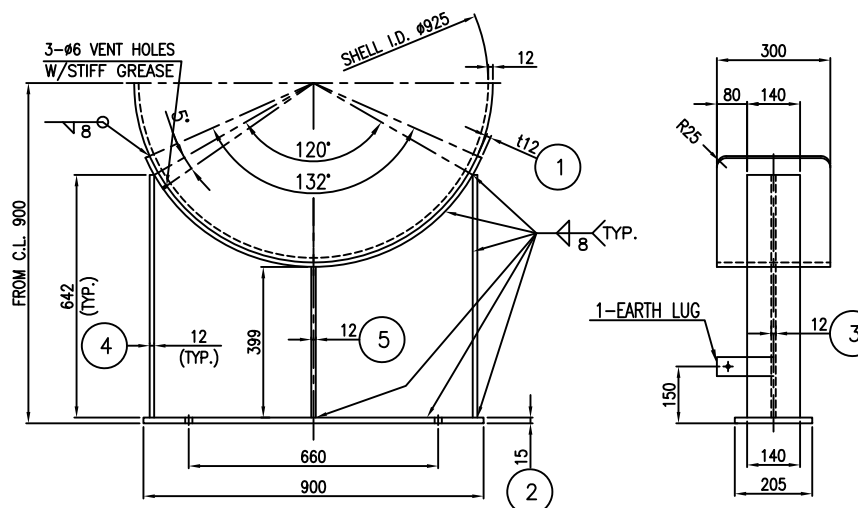
DETAIL "C"



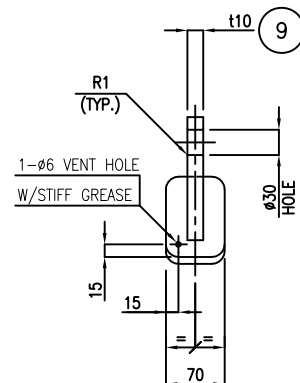
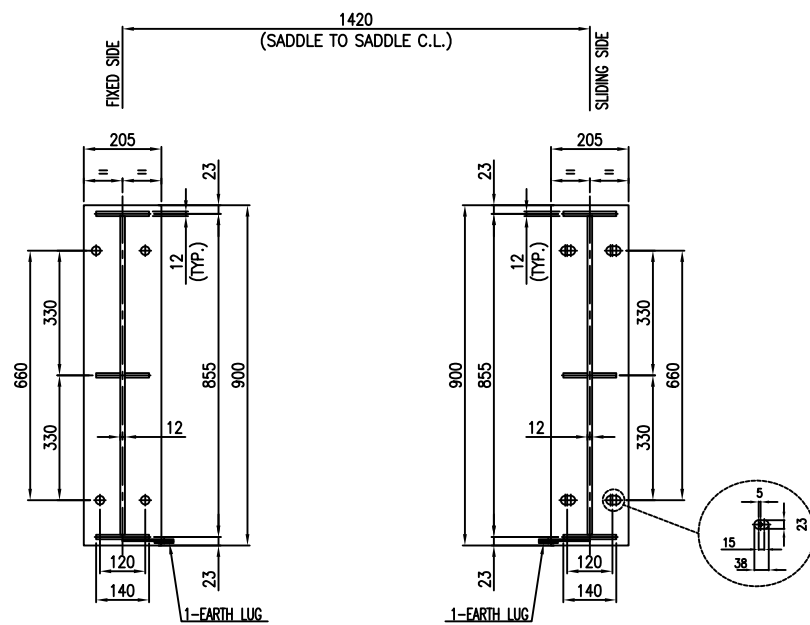
DETAIL "D"



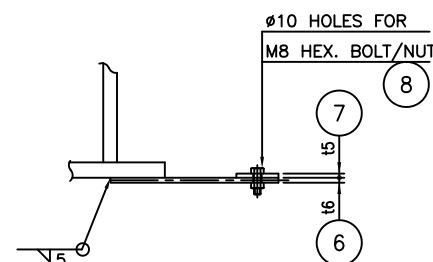
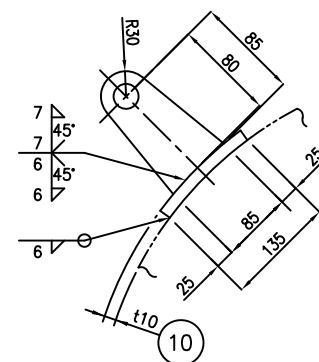
FIXED SIDE



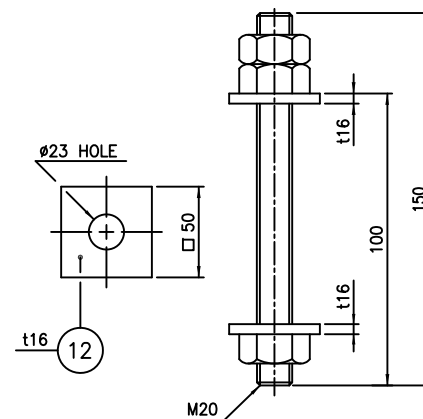
SLIDING SIDE



LIFTING LUG DETAIL  
(FOR CHANNEL SIDE)



EARTH LUG



SETTING B/2NS/2W

NOTES

- UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.
- SINCE CABLE LUG IS TINNED COPPER, TINNED CARBON STEEL EARTH LUG.

FOR ONE SET

PART NO.	PART NAME	MATERIAL	REGULAR QUANTITY	SPARE QUANTITY	SPECIFICATION	REMARK
12	WASHER	SA283-C	32		(M8 x 30) (M8 DP GNV)	
11	SETTING BOLT/2NUTS	SA193-B7/SA194-2H	2SETS		(M20 x 150) (M20 DP GNV)	
10	REINF. PAD	SA516-70N	3		t12 x 70 x 135	
9	LIFTING LUG	SA283-C	3		120 x 85 x 122	
8	HEX. BOLT/NUT	S.S. 304	2SETS		M8 x L25	
7	COPPER PLATE	SEE NOTE "2"	2		15 x 50 x 50	
6	EARTH LUG	(S.S. 304)	2		16 x 50 x 150	
5	SUPPORT RIB	SA283-C	4		112 x 64 x 399	
4	SUPPORT RIB	SA283-C	4		112 x 140 x 642	
3	WEB PLATE	SA283-C	2		112 x 642 x 843	
2	BASE PLATE	SA283-C	2		115 x 205 x 900	
1	WEAR PLATE	SA516-70N	2		112 x 300 x 1107	

BILL OF MATERIAL

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
R2	09.14.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.
R1	07.21.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.
R0	06.27.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.

CLIENT

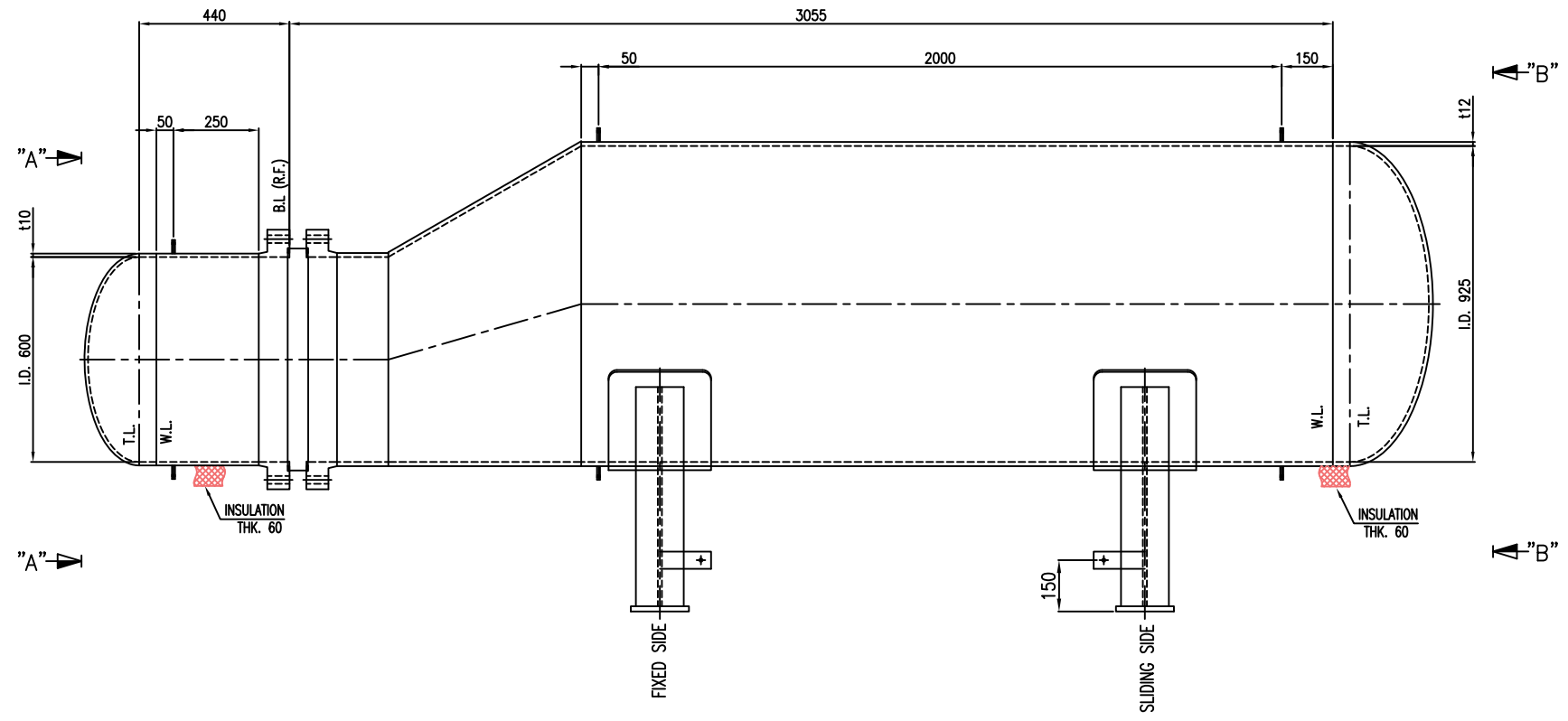


CONSULTING ENGINEER

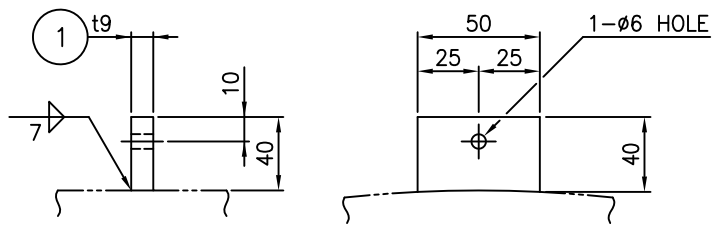
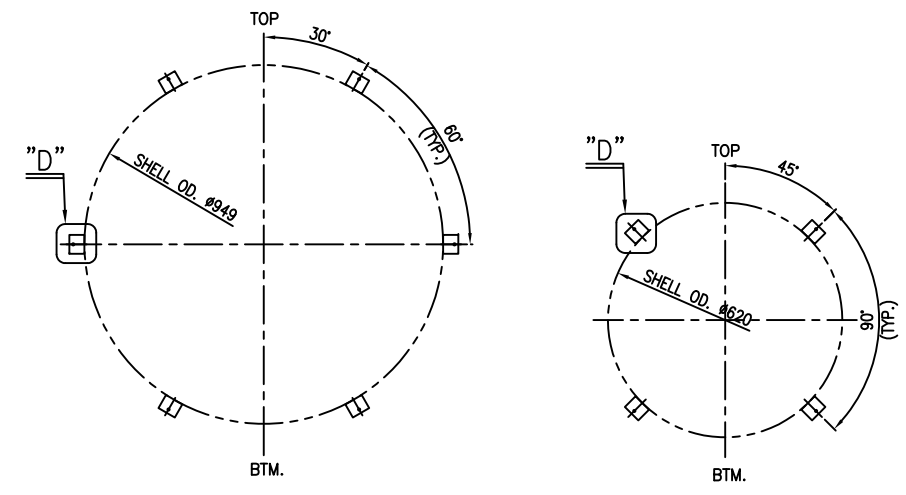
PROJECT: STYRENE PARK OFFSITE

DRAWING TITLE: SADDLE DETAIL DRAWING FOR CHILLER (EVAPORATOR)

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EIO27-HSE-VD-ME-DWG-008	R2	A3	NTC	5 of 8



ELEVATION VIEW



DETAIL "D"

NOTES  
1. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.

\* FOR ONE SET

PART NO.	PART NAME	MATERIAL	REGULAR QUANTITY	SPARE QUANTITY	SPECIFICATION	REMARK
1	INSUL. SUPT CLIP	SAS16-70N	16		19 x 40 x 50	

BILL OF MATERIAL

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
R0	06.27.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.

CLIENT

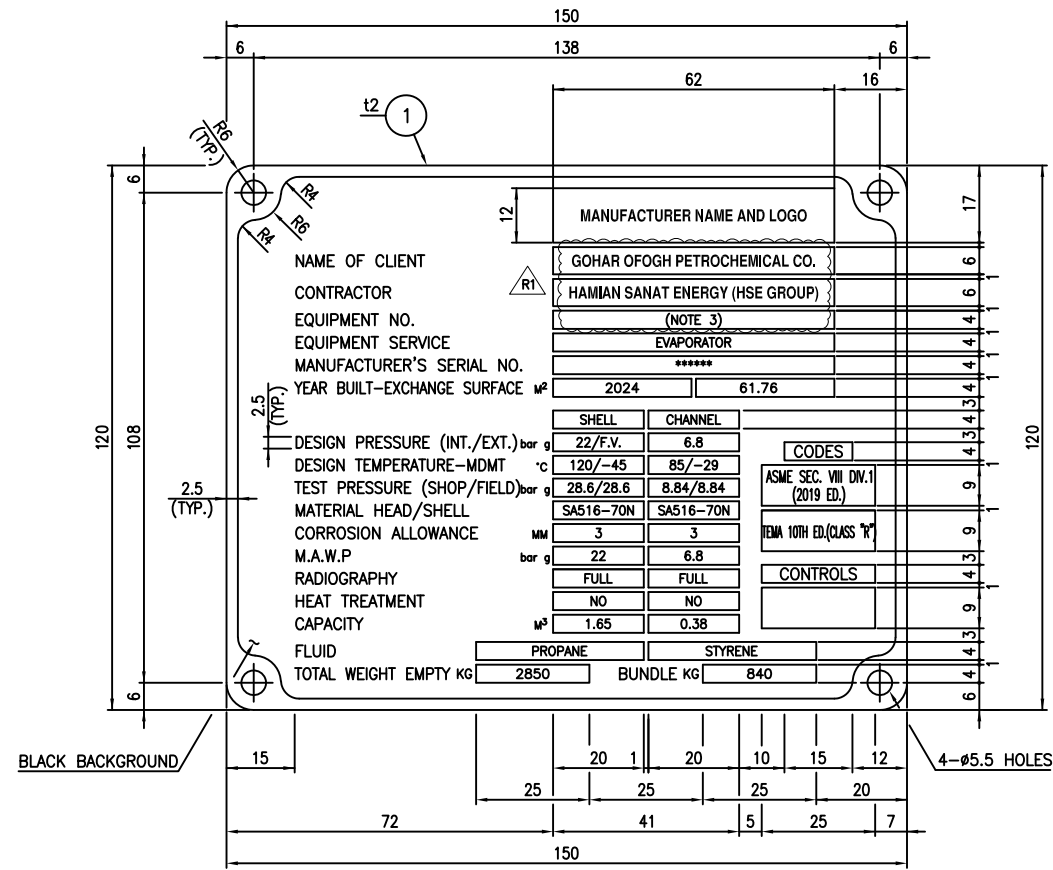
پتروشیمی توسعه پارک  
صنعتی گودر المی

CONSULTING ENGINEER

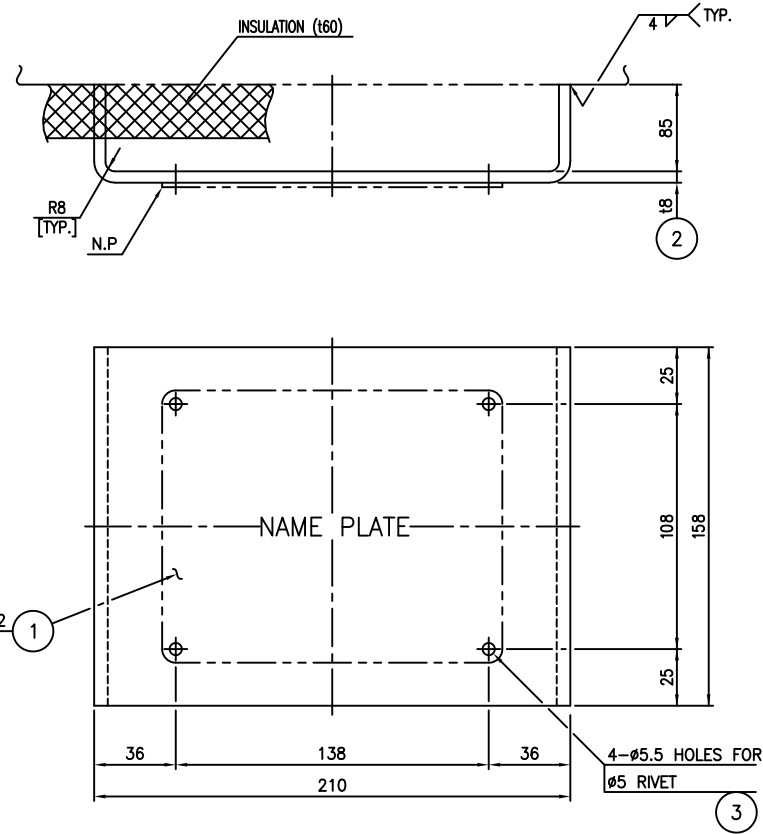
PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **INSULATION CLIP DRAWING FOR CHILLER (EVAPORATOR)**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-ME-DWG-008	R0	A3	NTC	7 of 8



NAME PLATE



NAME PLATE BRACKET

- NOTES**
- ALL LETTERS, BLOCKS, AS WELL AS EDGES, SHALL HAVE RAISED POLISHED FACE-RELIEF 0.5MM APPROX.
  - LETTERS TO BE GOTHIC TYPE.
  - EACH NAME PLATE IS MARKED WITH ITS SPECIFIC ITEM NO.(R00001A-E-02 AND R00001B-E-02)

PART NO.	PART NAME	MATERIAL	REGULAR QUANTITY	SPARE QUANTITY	SPECIFICATION	REMARK
3	RIVET	COPPER	4		#5	
2	NAME PLATE BRACKET	SA516-70N	1		18 x 158 x 396	
1	NAME PLATE	304 S.S.	1		12 x 120 x 150	

**BILL OF MATERIAL**

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED
R1	09.14.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.
R0	06.27.2024	ISSUED FOR APPROVAL (IFA)	D.SH.	M.O.	A.M.

CLIENT

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صنعتی گوهر الماس

CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **NAME PLATE DRAWING FOR CHILLER (EVAPORATOR)**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-ME-DWG-008	R1	A3	NTC	8 of 8