



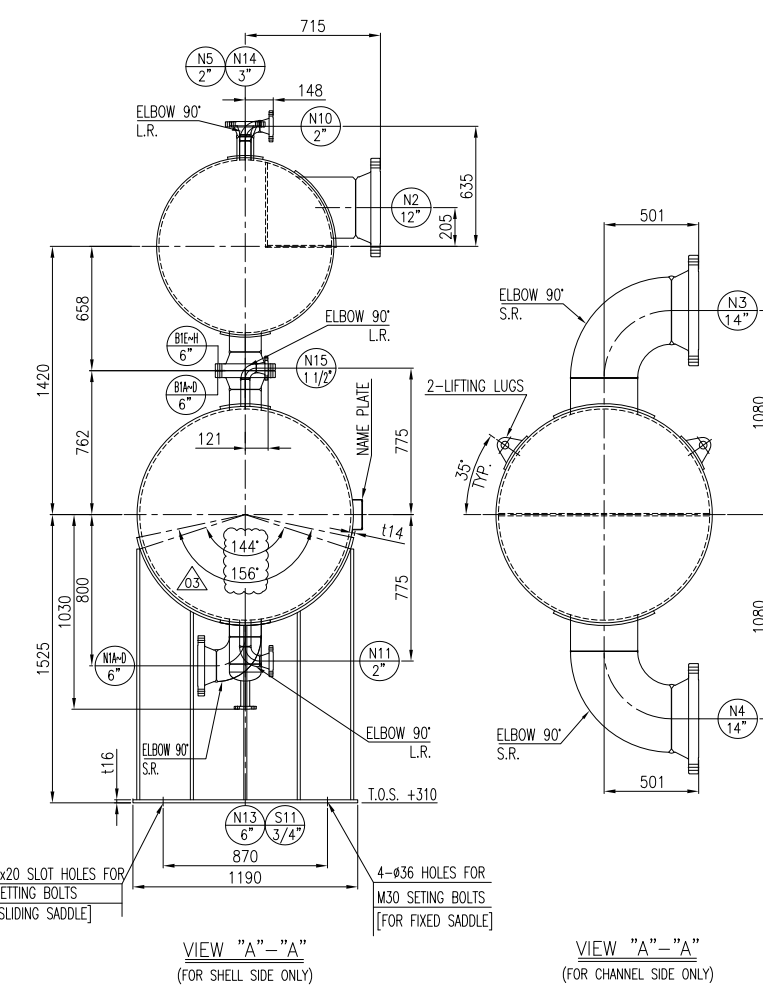
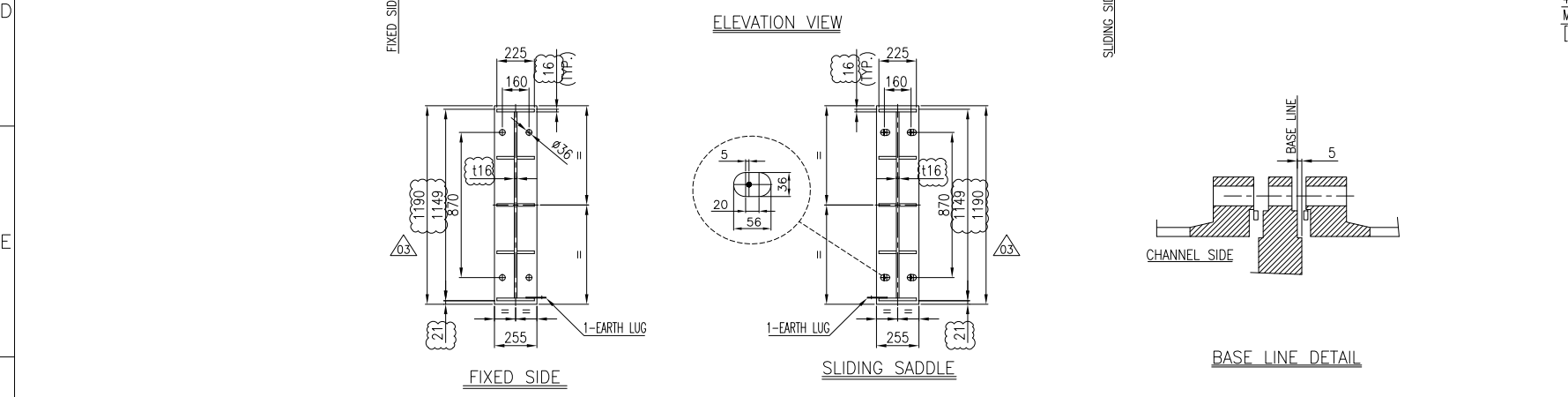
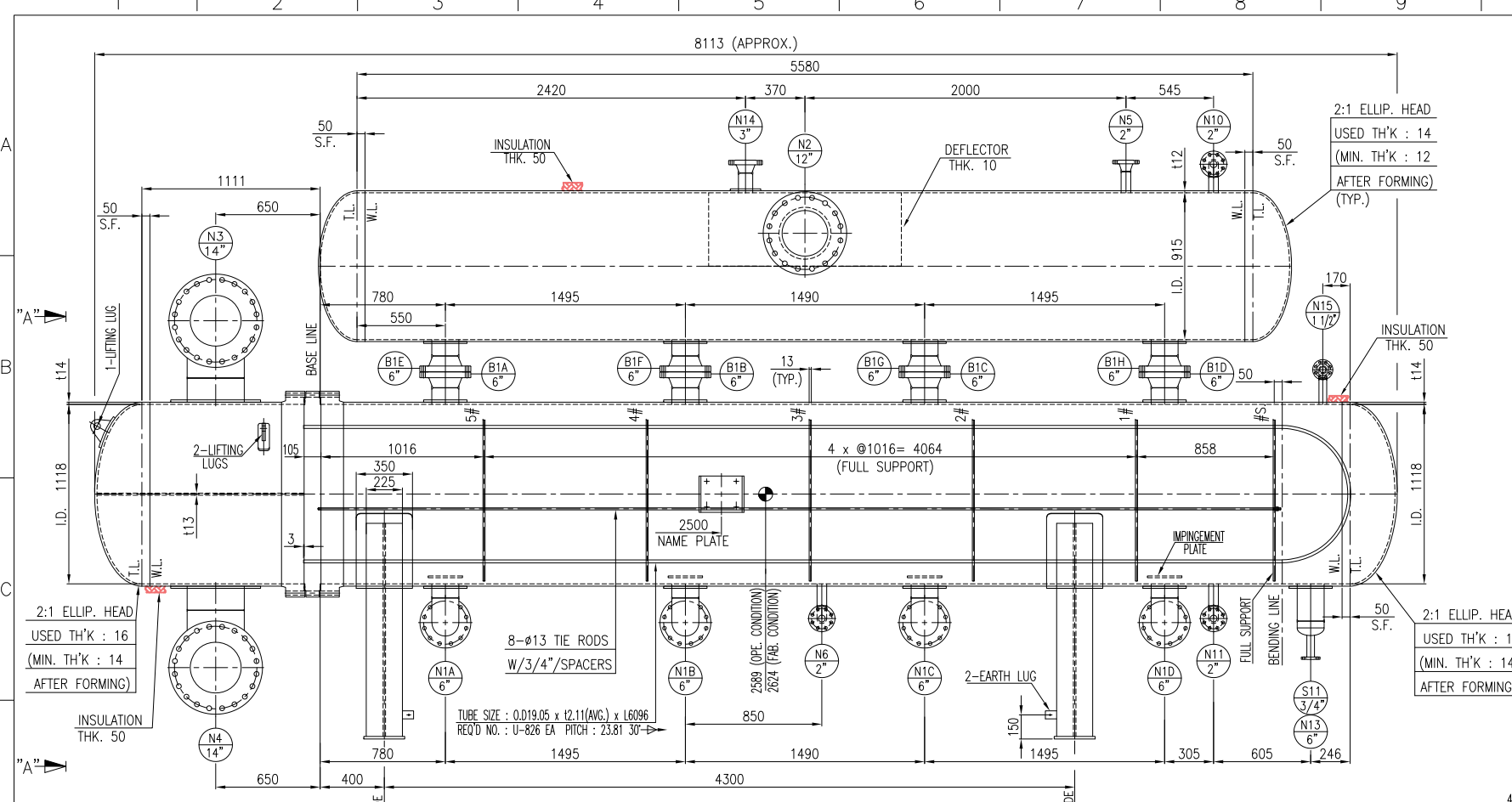
 Gachsaran Polymer Industries Company PIDMCO	Gachsaran Polymer Industries Company HDPE Plant				
	Evaporator (Chiller) Drawing		 		
PO No.: GPIC-PT-MA-PO-000-3029	Document Number: VD-GPIC-MA-3029-3029-0089	Rev. 03	Page 1 of 10		

Evaporator (Chiller) Drawing

Code1	<input checked="" type="checkbox"/> No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing.
Code2	<input type="checkbox"/> No Comment/ Approved with Note(s) Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.
Code3	<input type="checkbox"/> Commented Vendor/Sub-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "R: Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing Process.
Code 4	<input type="checkbox"/> Not Accepted (Rejected) Vendor/Sub-Contractor shall re-work / re-design / re-specify the contents of the document according to the comments / reasons for rejection. All corrected documents shall be resubmitted before starting the manufacturing. Vendor/Sub-Contractor shall not proceed with subsequent works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments.
No code	<input type="checkbox"/> No Code (Applicable Only for "For Information" Documents and "As Built DWGs") Document has been submitted for PURCHASER's Information (FI). Consistency, completeness and correctness of document content is in Vendor/Sub-Contractor's responsibility.
Above checking results by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing.	
 EIED Energy Industries Engineering & Design co.	Date: Dec. 07, 2025 Dept.: MA Signature: F.Hamooni

05					
04					
03	18-Nov-25	IFR	N.B	F.T	A.M
02	25-Oct-25	IFR	N.B	F.T	A.M
01	7-Oct-25	IFR	N.B	F.T	A.M
00	30-Aug-25	IFR	N.B	F.T	A.M
Rev.	DATE	PURPOSE OF ISSUE	PREPARED	CHECKED	APPROVED



NOZZLE	SIZE	RATING	FORCE (KN)			MOMENT (KN-m)		
			FX	FZ	FY	MX	MZ	MY
N3/N4	14"	300#	18.96	18.96	18.96	18	18	18
N2	12"	300#	15.72	15.72	15.72	13.44	13.44	13.44
N1A~D B1A~D	6"	300#	6.84	6.84	6.84	3.48	3.48	3.48
N14	3"	300#	3.48	3.48	3.48	0.84	0.84	0.84

- NOTE
- 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= 3.2µm TO RA= 6.3µm
 - 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.

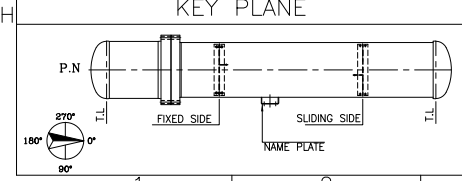
- DIMENSIONS REFER TO BAFFLES ARE MEASURED FROM C.L. OF EACH PLATE.
- GASKET MATERIAL FOR ASME B16.20: SPIRAL WOUND (14.5)
 - FILLER: GRAPHITE
 - INNER RING: 304 S.S.
 - HOOP: 304 S.S.
 - OUTER RING: 304 S.S.
- GASKET MATERIAL: SPIRAL WOUND (14.5)
 - FILLER: GRAPHITE
 - INNER RING: 304 S.S.
 - HOOP: 304 S.S.
 - OUTER RING: 304 S.S.
- SPARE PART

	CONSTRUCTION & COMMISSIONING
GASKETS	100%
STUD BOLTS & NUTS	5% (MIN. 2SETS)

- ALL EXPOSED SURFACE SHALL BE PAINTED AS FOLLOWS: EXPOSED SURFACE FOR EXTERNAL PARTS: VD-GPIC-MA-3029-3029-0063 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= 3.2 to 6.3 µm (125 to 250 µin. AARH)

SEISMIC (NOTE 13)		WIND	
SHEAR (kgf)	MOMENT (kgf-m)	SHEAR (kgf)	MOMENT (kgf-m)
5085	7755	964	1470
BUNDLE PULLING LOAD		17250 kgf	

- LEGEND
- B.L. = BASE LINE
 - C.L. = CENTER LINE
 - C.O.G. = CENTER OF GRAVITY
 - EL. = ELEVATION
 - M.A.W.P. = MAXIMUM ALLOWABLE WORKING PRESSURE
 - M.D.M.T. = MINIMUM DESIGN METAL TEMP.
 - P.W.H.T. = POST WELD HEAT TREATMENT
 - R.F. = RAISED FACE
 - PFHT = POST FORMING HEAT TREATMENT
 - S.F.T. = STRAIGHT FLANGE
 - T.L. = TANGENT LINE
 - T.O.S. = TOP OF STRUCTURE
 - W.L. = WELD LINE
 - W.N. = WELDING NECK
 - L.W.N. = LONG WELDING NECK



SHELL		GENERAL	
BARREL	SA-516 70N	SLIDING BAR/ROD	SA-516 70N/SA-36
FLANGES	SA350-LF2 CL.1N	SEALING STRIP	-
NOZZLE FROM PIPE	SA333-6	DUMMY TUBE/SEAL ROD	-
NOZZLE FROM PLATE	-	BLINDED NOZZLE BOLT/NUT	SA320 L7/SA194-4
NOZZLE FLANGES/FORGED NOZZLE	SA350-LF2 CL.1N	BLINDED NOZZLE GASKET	(NOTE 9)
COUPLINGS & PLUGS	-	TEST RING	-
NOZZLE REINF. PAD	SA-516 70N	GASKETS	
EXCHANGERS SUPPORTS	SA-516 70N	SHELL/COVER	-
SUPPORT WEAR PLATE	SA-516 70N	SHELL/TUBESHEET	(NOTE 10)
STIFFENING RINGS	-	CHANNEL/TUBESHEET	(NOTE 10)
EXPANSION JOINT	-	CHANNEL/COVER	-
LINING	-	FLOATING HEAD	-
SHELL COVER		FLOATING HEAD	
BARREL	-	COVER	-
COVER	SA-516 70N	FLANGES	-
FLANGES	-	SPLIT RING	-
CHANNEL		BOLTS & NUTS	
BARREL	SA-516 70N	SHELL/COVER	-
FLANGES	SA350-LF2 CL.1N	SHELL/CHANNEL	SA320-L7/SA194-4
COVER	SA-516 70N	CHANNEL/COVER	-
FLAT COVER	-	FLOATING HEAD	-
NOZZLE FROM PIPE	SA333-6	SETTING BOLTS/NUTS	SA193 B7 / SA194 2H
NOZZLE FROM PLATE	SA-516 70N	TUBE BUNDLE	
NOZZLE FLANGES/FORGED NOZZLE	SA350-LF2 CL.1N	TUBES	SA334-6
COUPLINGS & PLUGS	-	TUBESHEETS	SA350-LF2 CL1
NOZZLE REINF. PAD	SA-516 70N	BAFFLES/SUPPORTS/MP. PLATE	SA 516-70N
PARTITION PLATES	SA-516 70N	TIE RODS & SPACERS	SA 36/SA334-6

CODE	ASME SEC. VIII DIV.1 (2021 ED.)	TYPE	BXU/HORIZONTAL
TEMA CLASS	TEMA 10TH ED. (CLASS "R")	CODE STAMP	NO
LOCAL REGULATION	NO	WIND / SEISMIC CODE	ASCE 7-2016
FLUID	PROPYLENE HEXANE	DESIGN CATEGORY/SITE CLASS	D/C
DESIGN (INT./EXT.)	PRESS. barg 25/F.V. 25/F.V.	WIND EXPOSURE / VELOCITY (km/h)	C / 202
TEMP. (°C)	125 125	Fa/Fv/Ss/S1/Sds/Sd1	1.09/1.25/1.11/0.4/0.81/0.33
STEAM OUT CONDITION	-	SEISMIC IMPORTANCE FACTOR/RESPONSE FACTOR	1.25 / 3
OPER. (IN/OUT)	PRESS. barg 1.617 6	INSULATION (TYP/THK. mm)	COLD/50 COLD/50
TEMP. (°C)	-24.43/-24.05 -16/-20.5	INSULATION DENSITY Kg/m³	230 230
CORROSION ALLOWANCE (mm)	3 3	FIRE PROOFING THK./DENSITY	- Kg/m³
JOINT EFFICIENCY (S/H)	1.0/1.0 1.0/1.0	PAINTING	NOTE 12
RADIOGRAPHY (S/H)	FULL/FULL FULL/FULL	TUBE TO TUBESHEET JOINT	HEAVY EXPANDED WITH 2 DRUMS WITH SEAL WELD
HYDRO. TEST PRESS. (SHOP/FIELD)	barg 32.5/32.5 32.5/32.5	NO. OF PASS	1(ONE) 2(TWO)
HYDRO. TEST TYPE	UG-99b (boothole 35) UG-99b (boothole 35)	BUNDLE (KG)	11500
PNEUM. TEST PRESS. barg	-	ERECTION (KG)	17400 (EXCHANGER) 2950 (PIPE HEADER)
M.D.M.T.(REQUIRED/CALCULATED) (°C)	-45/-46 -45/-46	FABR. (KG)	16300 (EXCHANGER) 2800 (PIPE HEADER)
M.A.W.P (HOT & CORRODED) barg	25 25	OPER. (KG)	24700
M.A.P (NEW & COLD) barg	25 25	SHOP TEST (KG)	25650
P.W.H.T.	NO NO	FIELD TEST (KG)	25400
IMPACT TEST	NO NO	SURFACE AREA/SHELL (M²)	624.6
PFHT (FOR HEAD)	YES YES	VOLUME (M³)	4.8 3.3
		FLUID DENSITY (kg/m³)	579.45 698.16
		MEAN METAL TEMP. (°C)	- -
		SHELL SIDE/TUBE SIDE	

ITEM	SERVICE	QTY.	SIZE	CONNECTION		NECK	REINF. PAD	PROJ. (NOTE 2)	REMARKS	
				TYPE	RATING					
N1A~D	PROPYLENE INLET	4	6"	W.N.	300#	R.F. 80	-	270 14	SEE DWG.	
B1A~D	PROPYLENE INTERMEDIATE	4	6"	W.N.	300#	R.F. 80	-	270 14	762	
B1E~H	PROPYLENE INTERMEDIATE	4	6"	W.N.	300#	R.F. 80	-	270 12	658	
N2	PROPYLENE OUTLET	1	12"	W.N.	300#	R.F. 80	-	480 12	SEE DWG.	
N3	PROCESS INLET	1	14"	W.N.	300#	R.F.	-	14 560 14	SEE DWG.	
N4	PROCESS OUTLET	1	14"	W.N.	300#	R.F.	-	14 560 14	SEE DWG.	
N5	PROPYLENE VENT	1	2"	W.N.	300#	R.F. 160	-	- -	660	
N6	PROPYLENE DRAIN	1	2"	W.N.	300#	R.F. 160	-	- -	SEE DWG.	
N10	LEVEL TRANSMITTER	1	2"	W.N.	300#	R.F. 160	-	- -	SEE DWG.	
N11	LEVEL TRANSMITTER	1	2"	W.N.	300#	R.F. 160	-	- -	SEE DWG.	
N13	OIL RECOVERY BOOT	1	6"	-	-	-	-	80 -	270 14	SEE DWG.
N14	RELIEF VALVE	1	3"	W.N.	300#	R.F. 160	-	190 12	660	
N15	SPARE PURGE	1	1 1/2"	W.N.	300#	R.F. 160	-	- -	SEE DWG.	
S-11	OIL RECOVERY BOOT	1	3/4"	L.W.N.	300#	R.F.	-	14.25 -	SEE DWG.	

REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
03	18.Nov.25	IFR	D.S.H	F.T	A.M
02	25.Oct.25	IFR	D.S.H	F.T	A.M
01	07.Oct.25	IFR	D.S.H	F.T	A.M
00	26.Aug.25	IFR	D.S.H	F.T	A.M

Signature block for EIED and GPC, including names and dates.

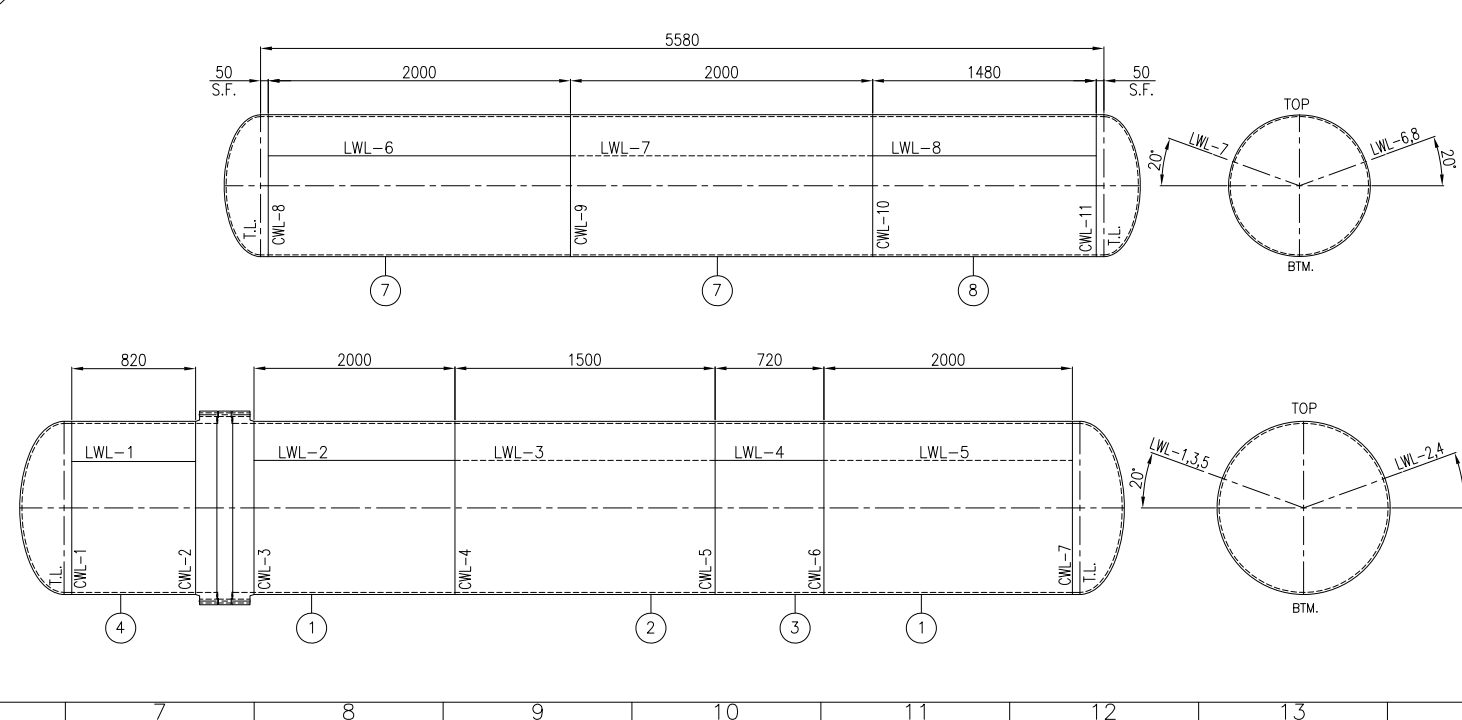
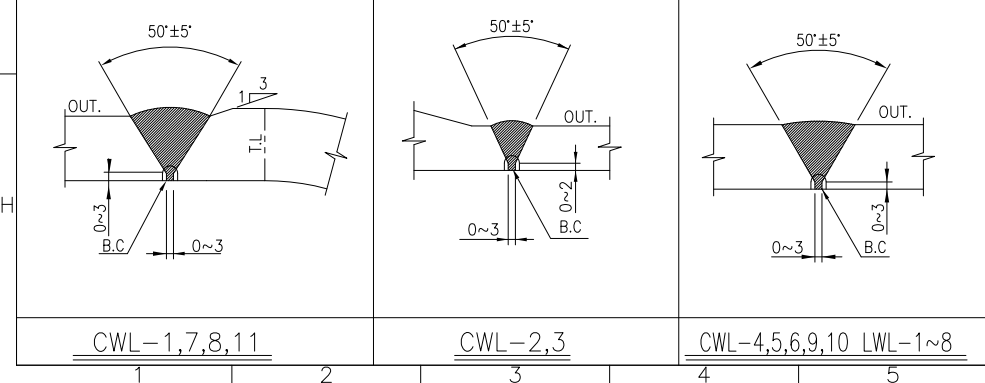
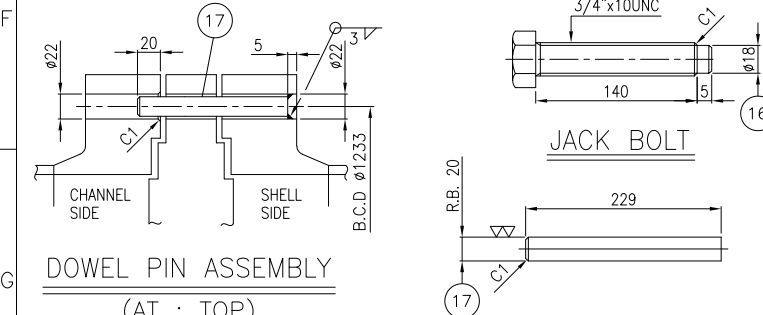
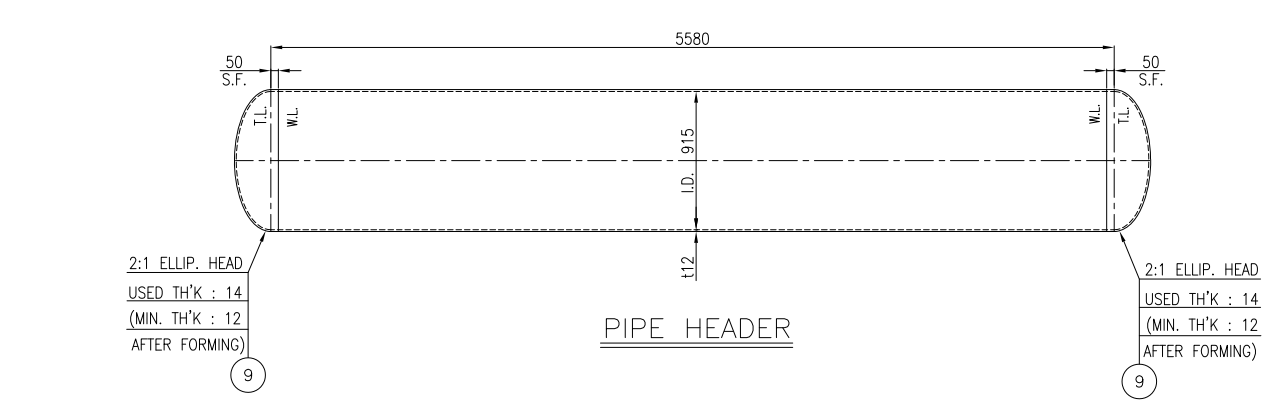
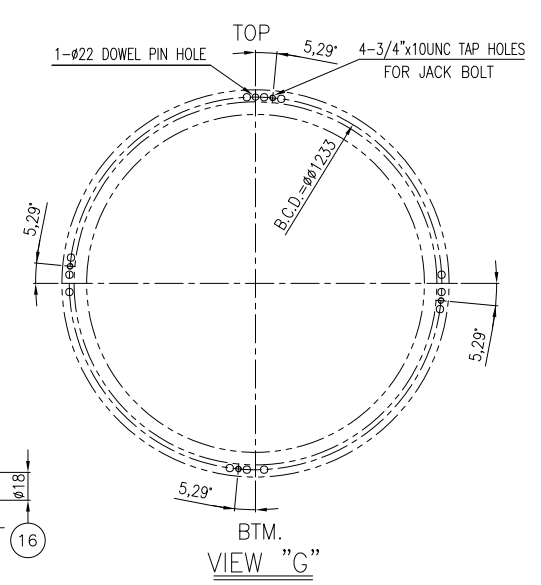
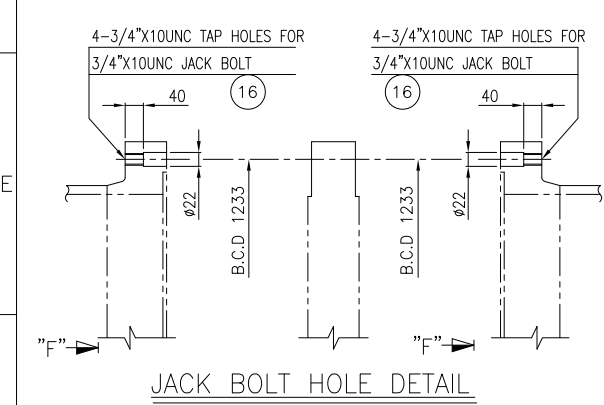
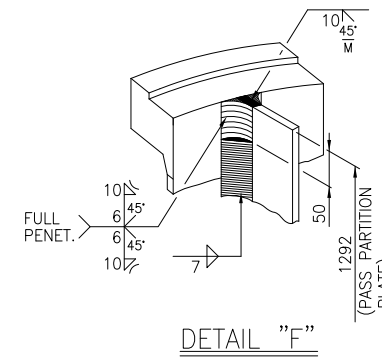
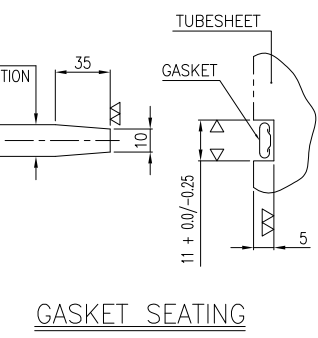
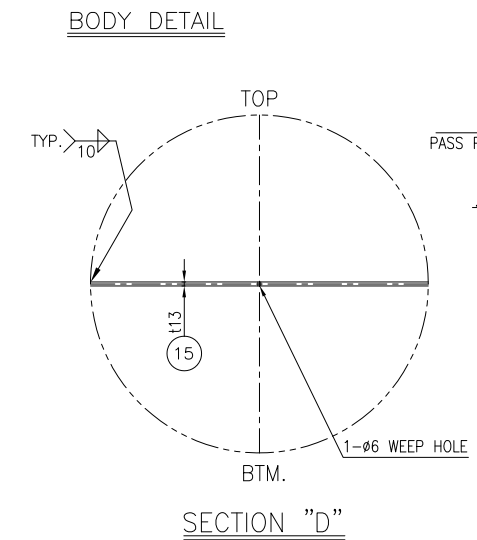
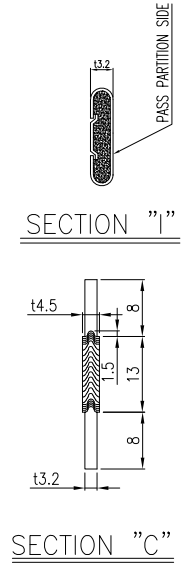
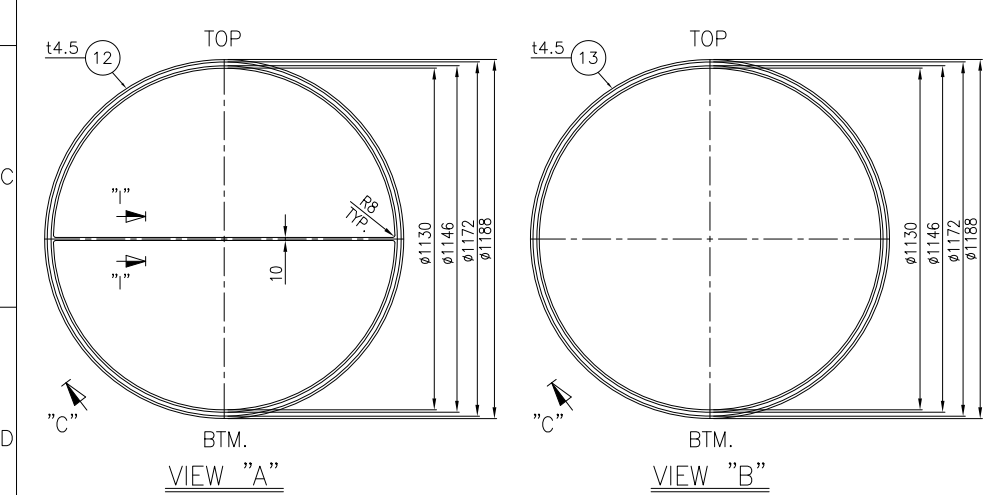
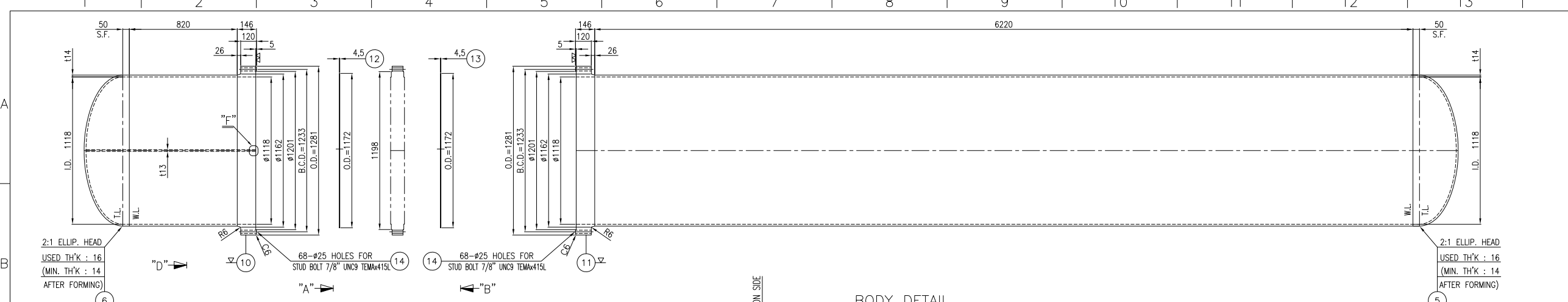
Contract No.: GPI-CON-99-008

PO No.: GPIC-PT-MA-PO-000-3029

DRAWING TITLE: EVAPORATOR (CHILLER) DRAWING (E-6101) (GENERAL ARRANGEMENT)

DRAWING NO.: VD-GPIC-MA-3029-3029-0089

REV. SHEET NO. SIZE: 03 1 OF 8 A3



- NOTE**
- UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.
 - GASKET MATERIAL FOR : SPIRAL WOUND (14.5)
-FILLER : GRAPHITE
-HOOP : S.S. 316L
-INNER RING : S.S. 316L m=3, y=68.95N/mm².
-OUTER RING : 304 S.S.
 - ALL GIRTH FLANGE AND TUBE SHEET SHALL BE ULTRASONIC TESTED IN ACCORDANCE WITH ASME CODE SECTION V, AND SA-388 OR EQUIVALENT BEFORE ANY MACHINING. IN THIS REGARD, THE REQUIRED SURFACE PREPARATION SHALL BE PERFORMED.
 - PASS PARTITION GASKET: DOUBLE METAL JACKETED AISI 304/GRAPHITE FILLER

* FOR ONE SET

ITEM NO.	DESCRIPTION	QTY	MATERIAL	REMARKS
17	DOWEL PIN	1	304 S.S.	R.820 x L.229
16	JACK BOLT	8	304 S.S.	3/4"x10UNC x L140
15	PASS PARTITION PLATE	1	SA516-70N	t13 x 1180 x L292
14	STUD B/2HEAVY NUTS	4SETS	SA320-L7/SA194-4	t13 x 1180 x L292
13	GASKET	2	SEE NOTE "2"	t4.5 (SEE DWG.)
12	GASKET	2	SEE NOTE "2"	t4.5 (SEE DWG.)
11	SHELL FLANGE	1	SA350-LF2 CL.1N	t146 x ID 1118 x O.D 1281
10	CHANNEL FLANGE	1	SA350-LF2 CL.1N	t146 x ID 1118 x O.D 1281
9	PIPE HEADER HEAD	2	SA-516 70N	USED THK.14 (2:1 ELLIP.)
8	PIPE HEADER SHELL	1	SA-516 70N	t12 x 1480 x 3022
7	PIPE HEADER SHELL	2	SA-516 70N	t12 x 2000 x 3022
6	CHANNEL HEAD	2	SA-516 70N	USED THK.16 (2:1 ELLIP.)
5	SHELL HEAD	1	SA-516 70N	USED THK.16 (2:1 ELLIP.)
4	CHANNEL SHELL	1	SA-516 70N	t14 x 820 x 3556
3	SHELL	1	SA-516 70N	t14 x 720 x 3556
2	SHELL	1	SA-516 70N	t14 x 1500 x 3556
1	SHELL	2	SA-516 70N	t14 x 2000 x 3556

BILL OF MATERIAL

PART NO.	PART NAME	MATERIAL	REGULAR QUANTITY	SPARE QUANTITY	SPECIFICATION	REMARK
17	DOWEL PIN	304 S.S.	1		R.820 x L.229	
16	JACK BOLT	304 S.S.	8		3/4"x10UNC x L140	
15	PASS PARTITION PLATE	SA516-70N	1		t13 x 1180 x L292	
14	STUD B/2HEAVY NUTS	SA320-L7/SA194-4	4SETS		t13 x 1180 x L292	H.D.G
13	GASKET	SEE NOTE "2"	1	2	t4.5 (SEE DWG.)	
12	GASKET	SEE NOTE "2"	1	2	t4.5 (SEE DWG.)	
11	SHELL FLANGE	SA350-LF2 CL.1N	1		t146 x ID 1118 x O.D 1281	
10	CHANNEL FLANGE	SA350-LF2 CL.1N	1		t146 x ID 1118 x O.D 1281	
9	PIPE HEADER HEAD	SA-516 70N	2		USED THK.14 (2:1 ELLIP.)	
8	PIPE HEADER SHELL	SA-516 70N	1		t12 x 1480 x 3022	
7	PIPE HEADER SHELL	SA-516 70N	2		t12 x 2000 x 3022	
6	CHANNEL HEAD	SA-516 70N	2		USED THK.16 (2:1 ELLIP.)	
5	SHELL HEAD	SA-516 70N	1		USED THK.16 (2:1 ELLIP.)	
4	CHANNEL SHELL	SA-516 70N	1		t14 x 820 x 3556	
3	SHELL	SA-516 70N	1		t14 x 720 x 3556	
2	SHELL	SA-516 70N	1		t14 x 1500 x 3556	
1	SHELL	SA-516 70N	2		t14 x 2000 x 3556	

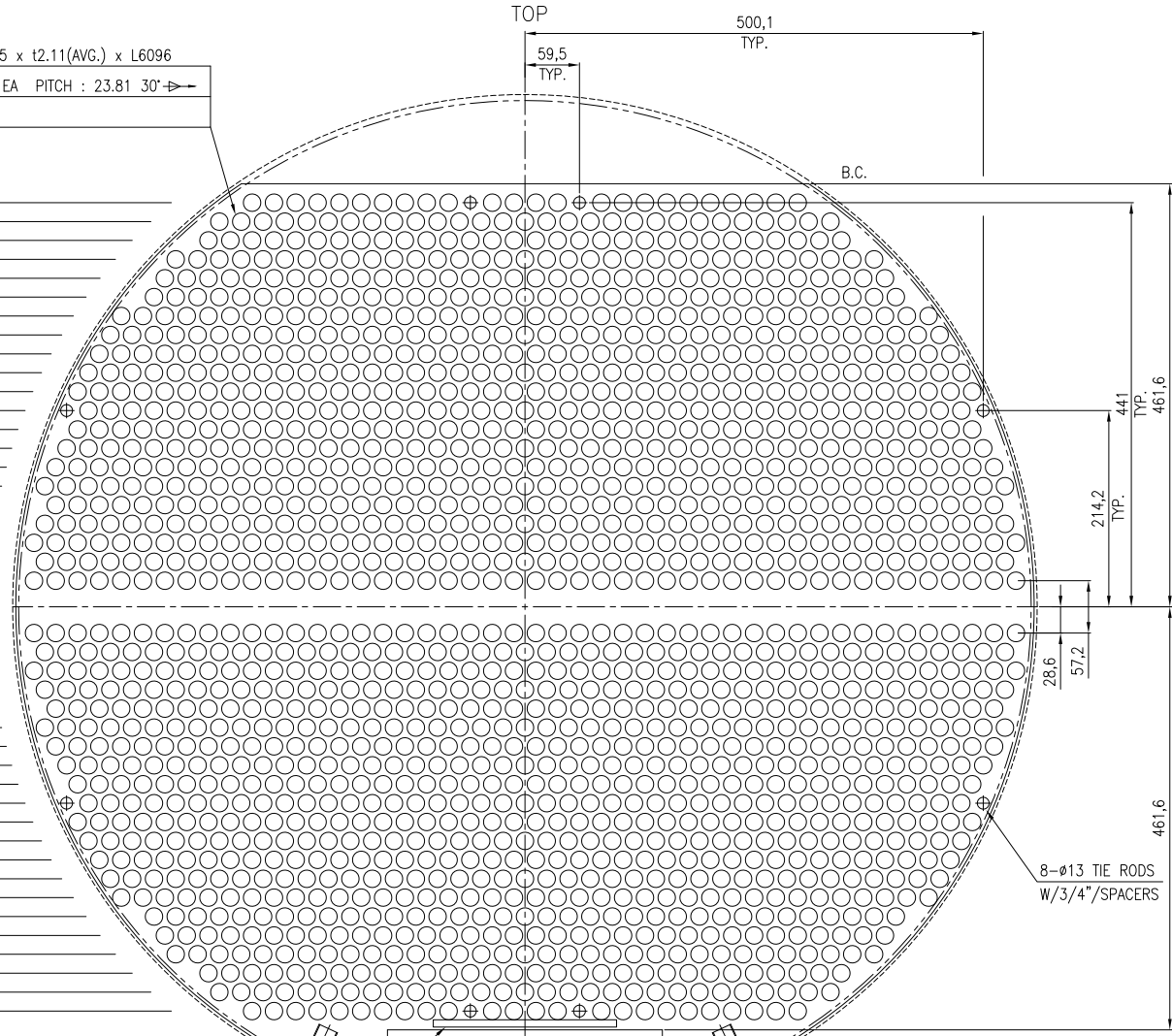
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00	26.Aug.25	IFR	D.S.H	F.T	A.M

EVAPORATOR (CHILLER) DRAWING (E-6101)
 (BODY DETAIL)

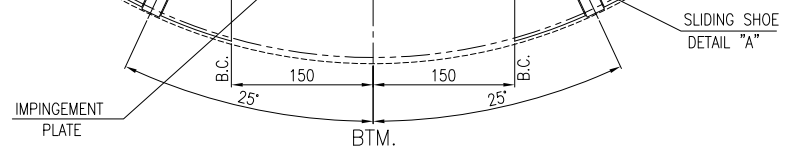
CONTRACT NO.: GPI-CON-99-008
 PO No.: GPI-CON-MA-PO-000-3029
 SCALE: 1:1

TUBE SIZE : 0.D19.05 x t2.11(AVG.) x L6096
 REQ'D NO. : U-826 EA PITCH : 23.81 30°
 (O.T.L : 1104.9)

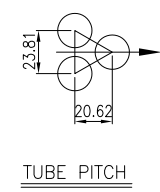
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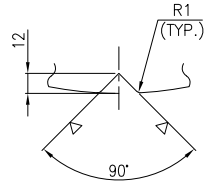
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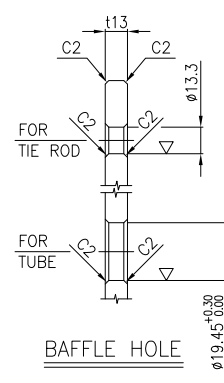
TUBE ARRANGEMENT



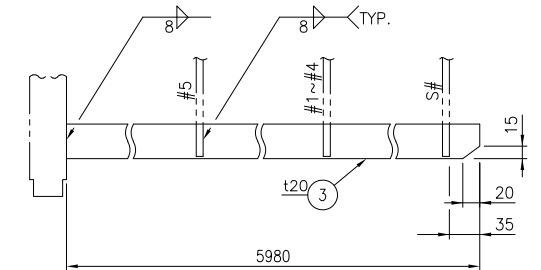
TUBE PITCH



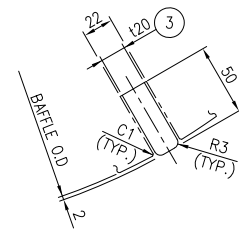
BAFFLE NOTCH (TOP & BTM.)



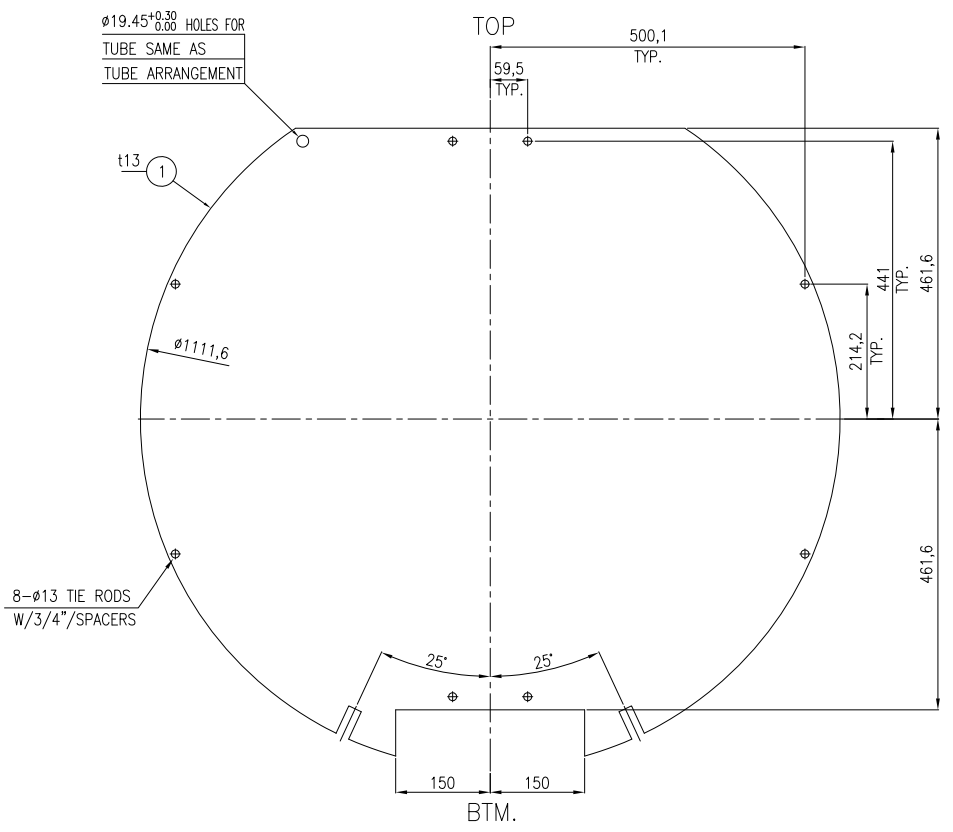
BAFFLE HOLE



SLIDING SHOES



DETAIL "A"



FULL SUPPORT BAFFLE

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

* FOR ONE SET					
2	SLIDING SHOE	SA-516-70N	2	120 x 50 x 5980	
1	FULL SUPPORT BAFFLE	SA 516-70N	6	t13 x Ø1111.6	
PART NO.	PART NAME	MATERIAL	QUANTITY	SPECIFICATION	REMARK

BILL OF MATERIAL

REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
03	18.Nov.25	IFR	D.SH	F.T	A.M
02	25.Oct.25	IFR	D.SH	F.T	A.M
01	07.Oct.25	IFR	D.SH	F.T	A.M
00	26.Aug.25	IFR	D.SH	F.T	A.M

EVAPORATOR (CHILLER) DRAWING (E-6101)
 (BUNDLE DETAIL 1/2)

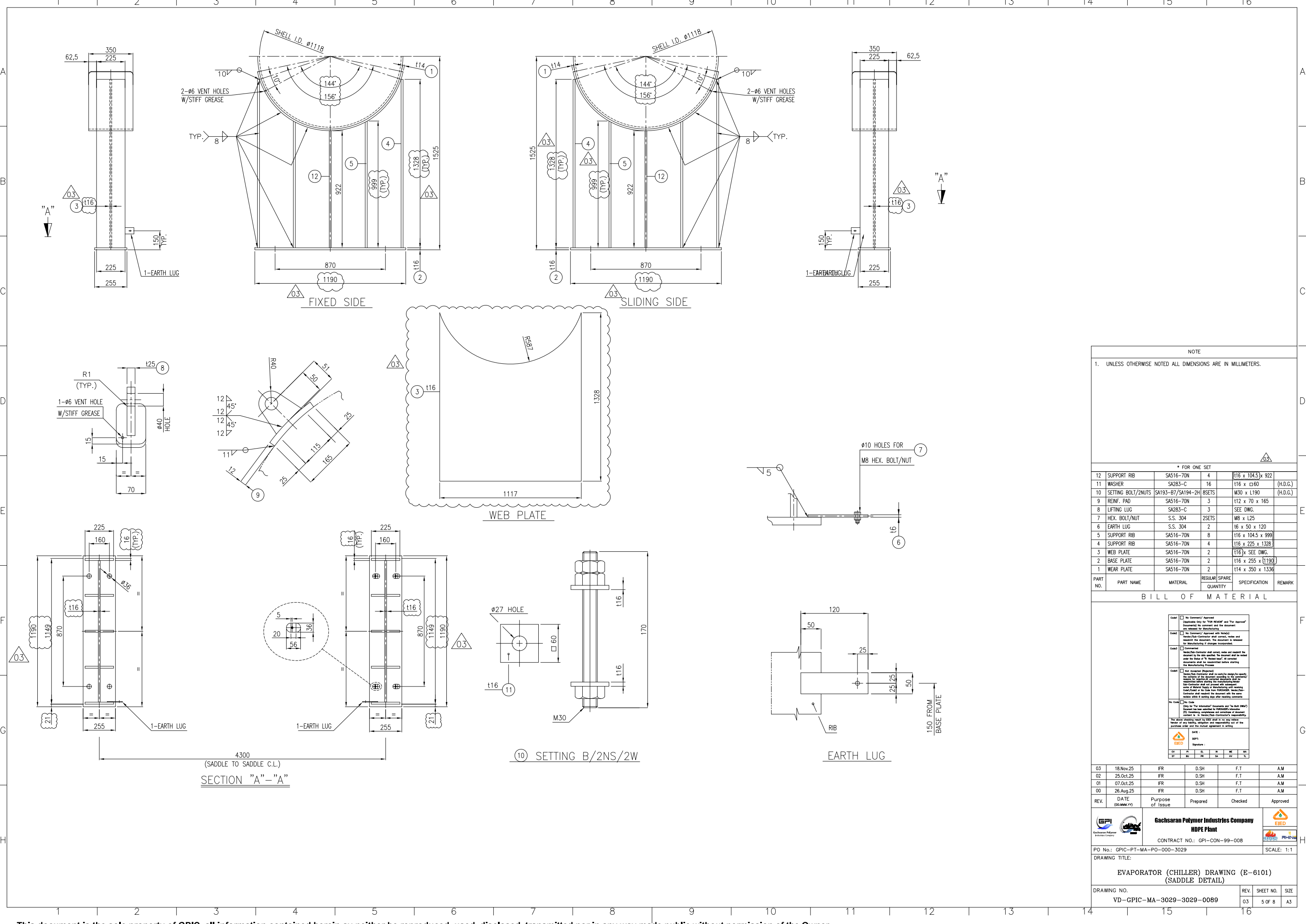
CONTRACT NO.: GPI-CON-99-008

PO No.: GPIC-PT-MA-PO-000-3029

SCALE: 1:1

DRAWING NO. V D-GPIC-MA-3029-3029-0089

REV. SHEET NO. SIZE
 03 3 OF 8 A3



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

* FOR ONE SET						
PART NO.	PART NAME	MATERIAL	REGULAR QUANTITY	SPARE QUANTITY	SPECIFICATION	REMARK
12	SUPPORT RIB	SA516-70N	4		[116 x 104.5] x 922	
11	WASHER	SA283-C	16		[116 x 60]	(H.D.G.)
10	SETTING BOLT/NUTS	SA193-B7/SA194-2H	8SETS		M30 x L190	(H.D.G.)
9	REIN. PAD	SA516-70N	3		M30 x 70 x 165	
8	LIFTING LUG	SA283-C	3		SEE DWG.	
7	HEX. BOLT/NUT	S.S. 304	2SETS		M8 x L25	
6	EARTH LUG	S.S. 304	2		16 x 50 x 120	
5	SUPPORT RIB	SA516-70N	8		[116 x 104.5] x 999	
4	SUPPORT RIB	SA516-70N	4		[116 x 225 x 1328]	
3	WEB PLATE	SA516-70N	2		[116] x SEE DWG.	
2	BASE PLATE	SA516-70N	2		[116 x 255 x 1190]	
1	WEAR PLATE	SA516-70N	2		[114 x 350 x 1336]	

BILL OF MATERIAL

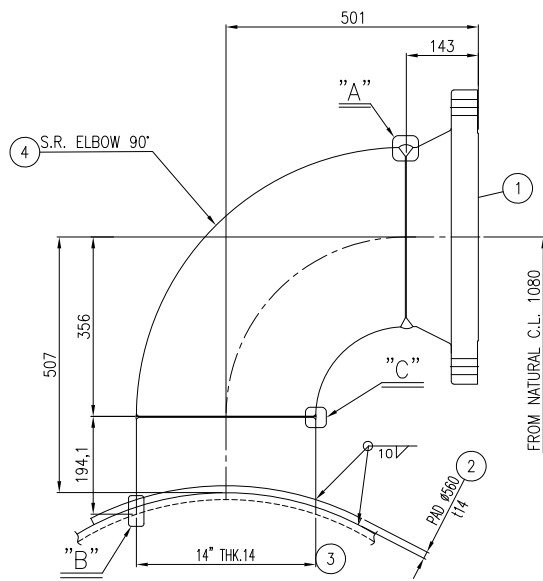
<input type="checkbox"/> No Comment/ Approval <small>(Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document is released for Manufacturing.</small>
<input type="checkbox"/> No Comment/ Approval with Note(s) <small>Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.</small>
<input type="checkbox"/> Comment(s) <small>Vendor/Sub-Contractor shall correct, revise and resubmit the document by the due date. The document shall be released under the Status of "To Be Released", if correct documents are received before starting the Manufacturing Process.</small>
<input type="checkbox"/> Not Accepted (Rejection) <small>Vendor/Sub-Contractor shall correct, revise, re-design/re-manufacture the document as per the rejection and resubmit the document for review. The document shall be released for Manufacturing if changes incorporated.</small>
<input type="checkbox"/> No Code <small>(Only for "For Information" Documents and "For Bill (BOM)" Documents) No code is required for information documents. Contact the Vendor/Sub-Contractor's responsibility.</small>

03	18.Nov.25	IFR	D.SH	F.T	A.M
02	25.Oct.25	IFR	D.SH	F.T	A.M
01	07.Oct.25	IFR	D.SH	F.T	A.M
00	26.Aug.25	IFR	D.SH	F.T	A.M

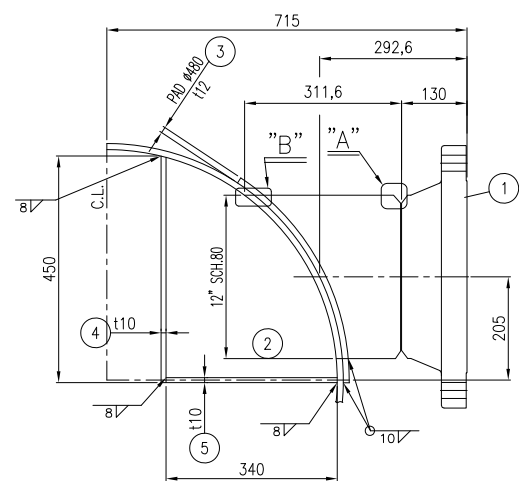
REV.	DATE	Purpose of Issue	Prepared	Checked	Approved

CONTRACT NO.: GPI-CON-99-008
 PO No.: GPIC-PT-MA-PO-000-3029
 SCALE: 1:1
EVAPORATOR (CHILLER) DRAWING (E-6101)
 (SADDLE DETAIL)

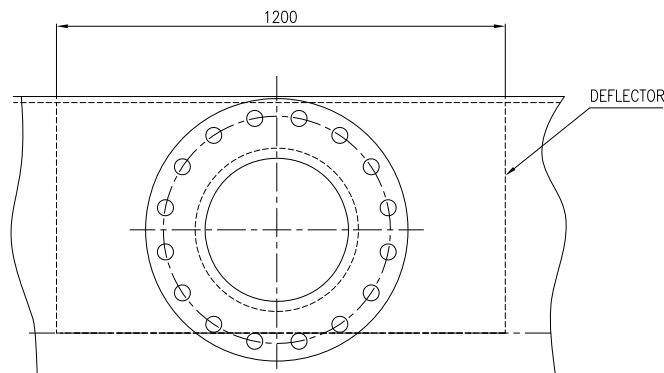
DRAWING NO.	REV.	SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0089	03	5 OF 8	A3



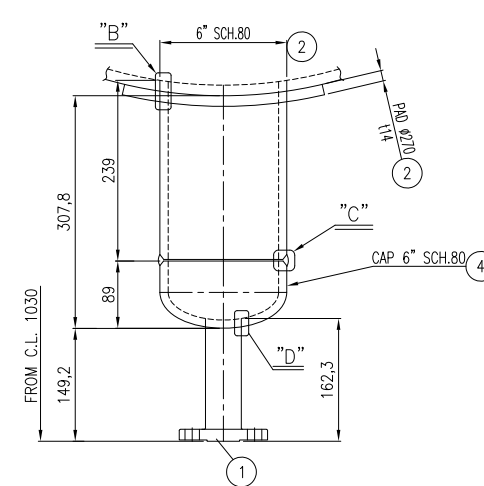
DETAIL OF N3 N4 14" 14"



DETAIL OF N2 12"



VIEW "E" N2 12"



DETAIL OF N13 S11 6" 3/4"

NOTE
 1. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.
 2. FOR THE TEST VENT HOLES #3 WILL BE OBTURED BY WELDING.
 3. GASKET MATERIAL FOR ASME B16.20: SPIRAL WOUND (14.5)
 -FILLER: GRAPHITE
 -INNER RING: 304 S.S.
 -HOOP: 304 S.S.
 -OUTER RING: 304 S.S.

* FOR ONE SET

NOZZLE PART NO.	PART NAME	MATERIAL	QUANTITY	REGULAR SPARE	SPECIFICATION	REMARK
N13	CAP	SA420-WPL6	1		6" SCH. 80	
S11	REIN. PAD	SA516-70N	1		114 x #270	
	NOZZLE NECK	SA333-6	1		6" SCH.80 x L239	
	FLANGE (THK.14.25)	SA350-LF2 CL.1N	1		3/4" ASME 300# WNLR	
N5	NOZZLE NECK	SA333-6	1		2" SCH. 160 x L1335	
	FLANGE (SCH.160)	SA350-LF2 CL.1N	1		2" ASME 300# WNLR	
	ELBOW	SA420-WPL6	1		2" SCH. 160, LR	
N11	NOZZLE NECK	SA333-6	1		2" SCH. 160 x L1406	
	FLANGE (SCH.160)	SA350-LF2 CL.1N	1		2" ASME 300# WNLR	
	ELBOW	SA420-WPL6	1		2" SCH. 160, LR	
N10	NOZZLE NECK	SA333-6	1		2" SCH. 160 x L1025	
	FLANGE (SCH.160)	SA350-LF2 CL.1N	1		2" ASME 300# WNLR	
	ELBOW	SA420-WPL6	1		1 1/2" SCH. 160, LR	
N15	NOZZLE NECK	SA333-6	1		1 1/2" SCH. 160 x L1585	
	FLANGE (SCH.160)	SA350-LF2 CL.1N	1		1 1/2" ASME 300# WNLR	
	REIN. PAD	SA516-70N	1		112 x #190	
N14	NOZZLE NECK	SA333-6	1		3" SCH.160 x L125.7	
	FLANGE (SCH.160)	SA350-LF2 CL.1N	1		3" ASME 300# WNLR	
	REIN. PAD	SA516-70N	4		112 x #270	
B1E-H	NOZZLE NECK	SA333-6	4		6" SCH.80 x L110.5	
	FLANGE (SCH.80)	SA350-LF2 CL.1N	4		6" ASME 300# WNLR	
	REIN. PAD	SA516-70N	4		114 x #270	
B1A-D	NOZZLE NECK	SA333-6	4		6" SCH.80 x L111.1	
	FLANGE (SCH.80)	SA350-LF2 CL.1N	4		6" ASME 300# WNLR	
	ELBOW	SA420-WPL6	4		6" SCH. 80, S.R	
	REIN. PAD	SA516-70N	4		114 x #270	
N1A-D	NOZZLE NECK	SA333-6	4		6" SCH.80 x L95.3	
	FLANGE (SCH.80)	SA350-LF2 CL.1N	4		6" ASME 300# WNLR	
	DEFLECTOR	SA516-70N	1		110 x 340 x 1200	
	DEFLECTOR	SA516-70N	1		110 x 450 x 1200	
N2	NOZZLE NECK	SA333-6	1		112 x #480	
	NOZZLE NECK	SA333-6	1		12" SCH.80 x L311.6	
	FLANGE (SCH.80)	SA350-LF2 CL.1N	1		12" ASME 300# WNLR	
	ELBOW	SA420-WPL6	2		14" THK.14, S.R	
N4	REIN. PAD	SA516-70N	2		114 x #560	
N3	NOZZLE NECK	SA516-70N	2		14" THK.14 x L194.1	
	FLANGE (THK.14)	SA350-LF2 CL.1N	2		14" ASME 300# WNLR	

BILL OF MATERIAL

Code: No Comment/ Approval
 (Applicable Only for "For Review" and "For Approval"
 (Indicates the approval and the amount
 the released for Manufacturing)
 No Comment/ Approval with Note(s)
 Vendor/Sub-Contractor shall correct, revise and
 resubmit the document, the amount is released
 for Manufacturing if changes incorporated.
 Comment(s)
 Vendor/Sub-Contractor shall correct, revise and resubmit the
 document by the date specified. The amount will be released
 under the Status of "To Be Released", if correct
 quantity shall be requested before starting
 the Manufacturing Process.
 Not Approved (Rejected)
 Vendor/Sub-Contractor shall re-work/re-design/re-manufacture
 the product to correct the defects and shall
 resubmit the document for the manufacturing process
 under the Status of "To Be Released" after
 the approval of the Vendor/Sub-Contractor's
 representative. The amount shall be released
 for Manufacturing if changes incorporated.
 No Code
 (Only for "For Information" documents and "For Bill (BOM)"
 (No Code has no approval and the amount
 is not released for Manufacturing)
 The amount shall be released for Manufacturing if changes
 incorporated in the document and the amount shall be
 released for Manufacturing if changes incorporated in writing.
 DATE: _____
 EDED
 Signature: _____

REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
03	18.Nov.25	IFR	DSH	F.T	A.M
02	25.Oct.25	IFR	DSH	F.T	A.M
01	07.Oct.25	IFR	DSH	F.T	A.M
00	26.Aug.25	IFR	DSH	F.T	A.M

CV: _____
 ST: _____
 PR: _____
 DR: _____
 SA: _____
 IN: _____
 QA: _____

03 18.Nov.25 IFR DSH F.T A.M
 02 25.Oct.25 IFR DSH F.T A.M
 01 07.Oct.25 IFR DSH F.T A.M
 00 26.Aug.25 IFR DSH F.T A.M

REV. DATE Purpose of Issue Prepared Checked Approved

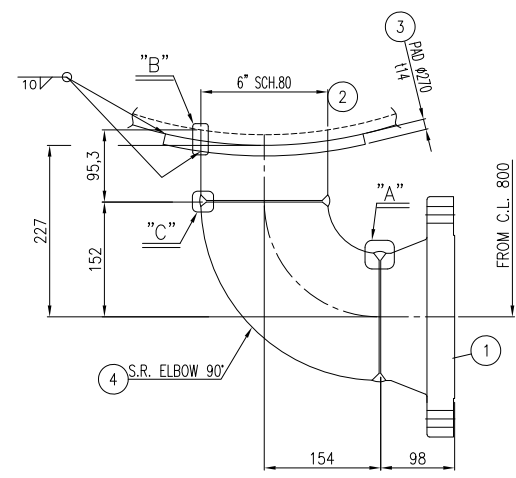
GPI
 Gacharsaran Polymer Industries Company
 HDPE Plant

CONTRACT NO.: GPI-CON-99-008

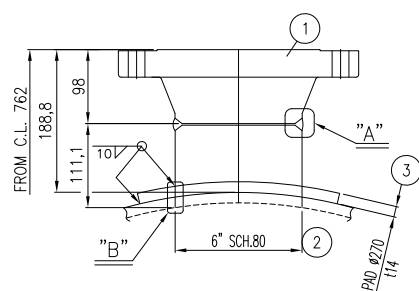
PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

DRAWING TITLE:
**EVAPORATOR (CHILLER) DRAWING (E-6101)
 (NOZZLE DETAIL)**

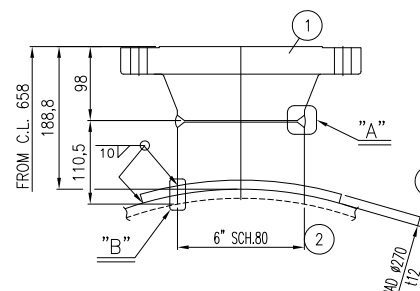
DRAWING NO. REV. SHEET NO. SIZE
 VD-GPIC-MA-3029-3029-0089 03 6 OF 8 A3



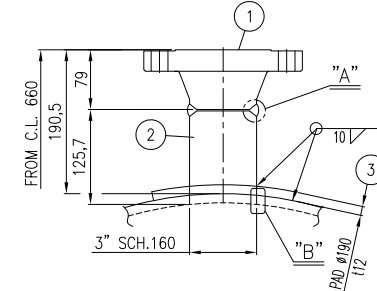
DETAIL OF N1A-D 6"



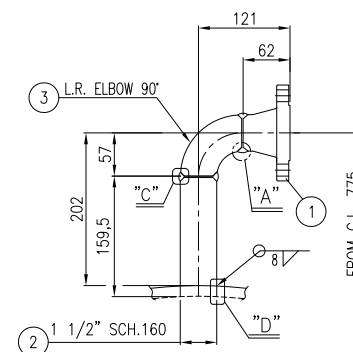
DETAIL OF B1A-D 6"



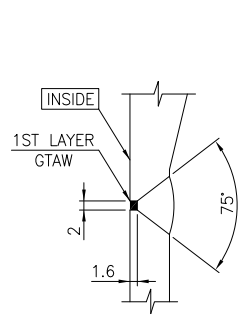
DETAIL OF B1E-H 6"



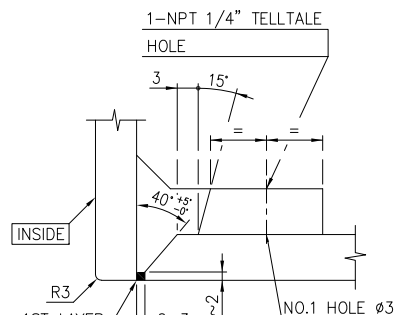
DETAIL OF N14 3"



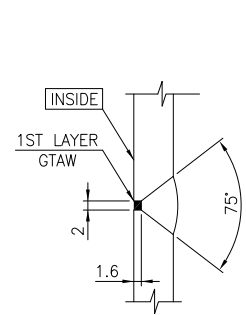
DETAIL OF N15 1 1/2"



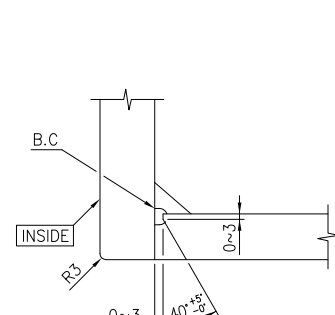
DETAIL "A"



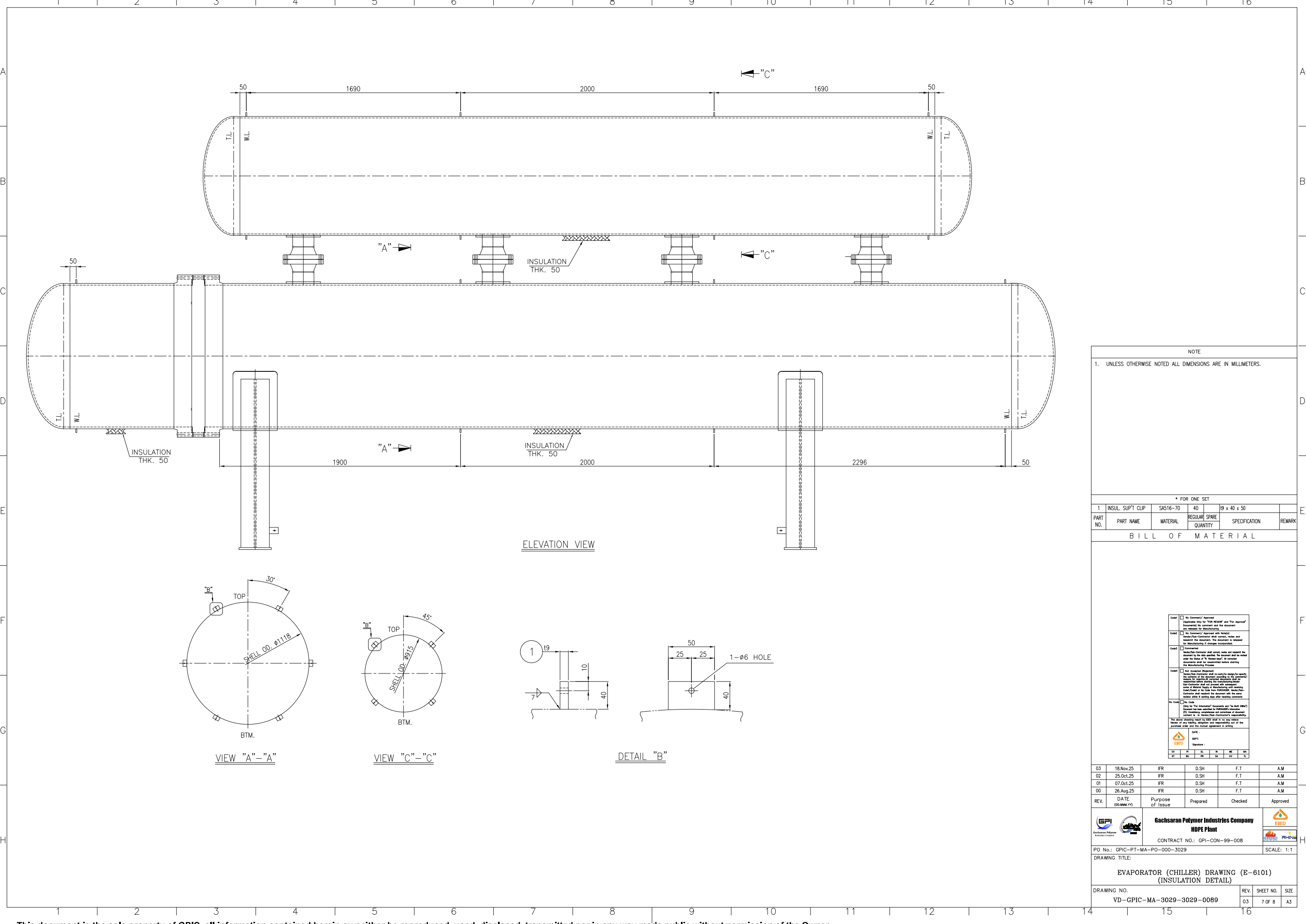
DETAIL "B"



DETAIL "C"



DETAIL "D"



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

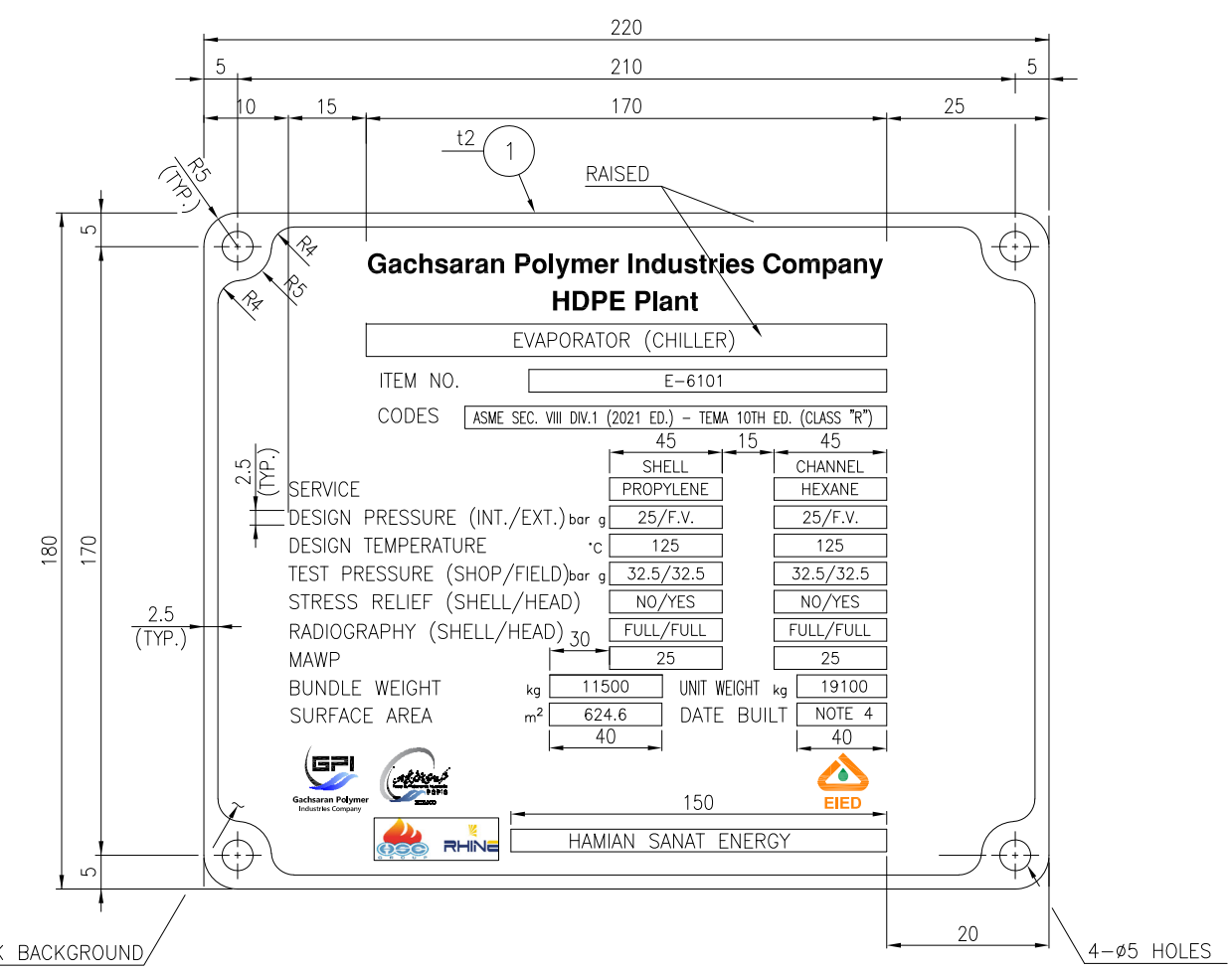
* FOR ONE SET

PART NO.	INSUL SUPT CLIP	SAS16-70	40	19 x 40 x 50	
			REGULAR SPARE	SPECIFICATION	REMARK

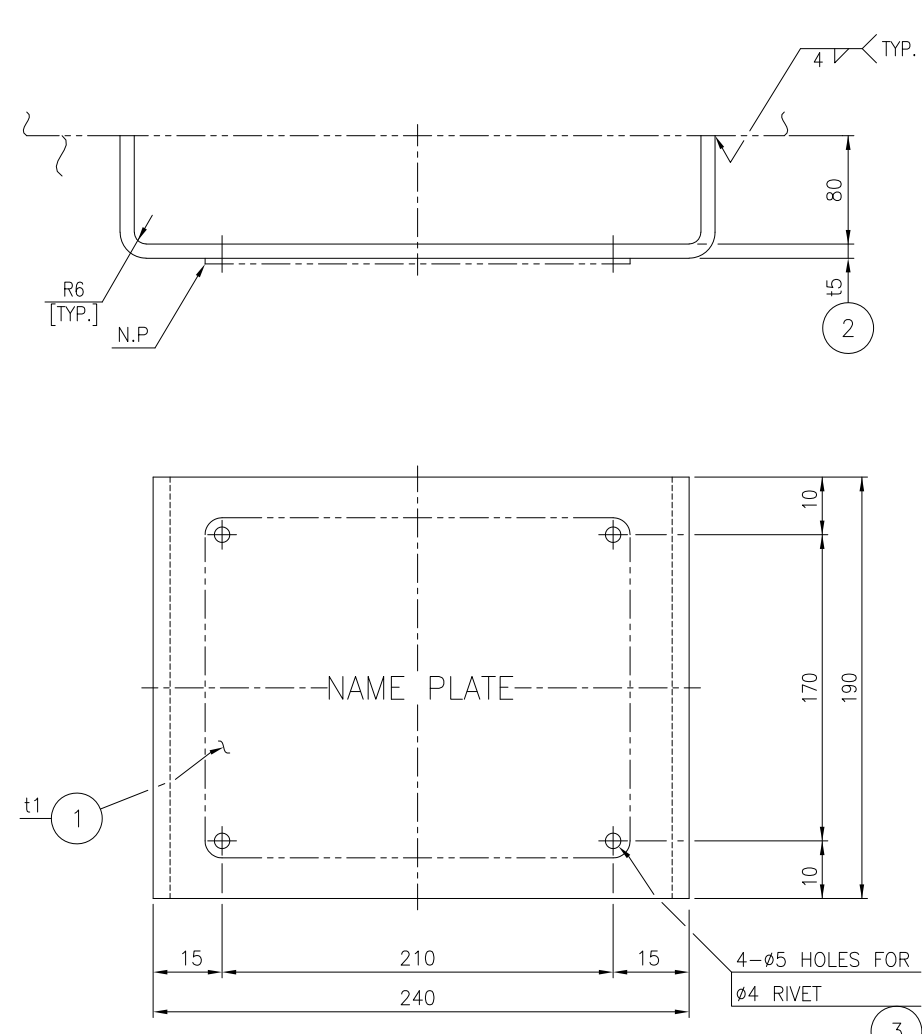
BILL OF MATERIAL

REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
03	18.Nov.25	IFR	DSH	F.T	A.M
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01	07.Oct.25	IFR	DSH	F.T	A.M
00	26.Aug.25	IFR	DSH	F.T	A.M

Gachsaran Polymer Industries Company
HDPE Plant
 CONTRACT NO.: GPI-CON-99-008
 PO No.: GPI-PT-MA-PO-000-3029
 SCALE: 1:1
EVAPORATOR (CHILLER) DRAWING (E-6101)
(INSULATION DETAIL)
 DRAWING NO. VD-GPIC-MA-3029-3029-0089
 REV. 03 SHEET NO. 7 OF 8 SIZE A3



NAME PLATE



NAME PLATE BRACKET

- NOTE
- UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.
 - ALL LETTERS, BLOCKS, AS WELL AS EDGES, SHALL HAVE RAISED POLISHED FACE-RELIEF 0.5MM APPROX.
 - LETTERS TO BE GOTHIC TYPE
 - YEAR BUILT AND DATE OF TEST STAMPED AT SHOP AFTER HYDROSTATIC TEST COMPLETION.

* FOR ONE SET

3	RIVET	304 S.S	4	ø4	
2	NAME PLATE BRACKET	SA516-70N	2		15 x 450 x 190
1	NAME PLATE	304 S.S	1		t1 x 180 x 220

BILL OF MATERIAL

Code 1	No Comment/ Approval	(Applicable Only for "For Review" and "For Approval" - Exempted for comment and the document is released for Manufacturing)
Code 2	No Comment/ Approval with Notes	Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.
Code 3	Comments	Vendor/Sub-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be released under the Status of "To Be Released" if correct documents are received before starting the Manufacturing Process.
Code 4	Not Accepted (Rejected)	Vendor/Sub-Contractor shall re-work/re-design/re-manufacture the product according to the comments/changes for re-approval. Vendor/Sub-Contractor shall not proceed with manufacturing until the comments/changes are resolved with the Vendor/Sub-Contractor. Vendor/Sub-Contractor shall resubmit the document with the same number after a writing and after meeting comments.
No Code	No Code	(Only for "For Information" documents and "As Built" DWG) (By Customer use, modification and correction of documents is the Vendor/Sub-Contractor's responsibility. No action is required to EED until it is resolved. Vendor of any liability, obligation and responsibility not of the purchase order and the related agreement in writing.)

03	18.Nov.25	IFR	DSH	F.T	A.M
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01	07.Oct.25	IFR	DSH	F.T	A.M
00	26.Aug.25	IFR	DSH	F.T	A.M

REV. DATE Purpose of Issue Prepared Checked Approved

GPI Gachsaran Polymer Industries Company HDPE Plant EIED R.H.I.N.E.

CONTRACT NO.: GPI-CON-99-008

PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

DRAWING TITLE: EVAPORATOR (CHILLER) DRAWING (E-6101) (NAME PLATE DETAIL)

DRAWING NO.	REV.	SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0089	03	8 OF 8	A3