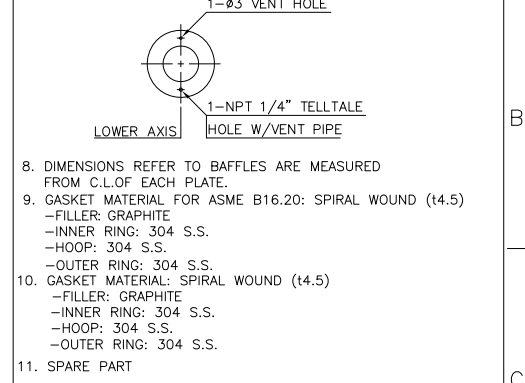


NOZZLE	SIZE	RATING	FORCE (KN)			MOMENT (KN-m)		
			FX	FZ	FY	MX	MZ	MY
N3/N4	14"	300#	18.96	18.96	18.96	18	18	18
N2	12"	300#	15.72	15.72	15.72	13.44	13.44	13.44
N1A-D B1A-D	6"	300#	6.84	6.84	6.84	3.48	3.48	3.48

- 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

REFERENCE DOCUMENTS	DOC. NO.
FOUNDATION LOADING DATA	VD-GPIC-MA-3029-3029-0071
GENERAL ARRANGEMENT DRAWING	VD-GPIC-MA-3029-3029-0062

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

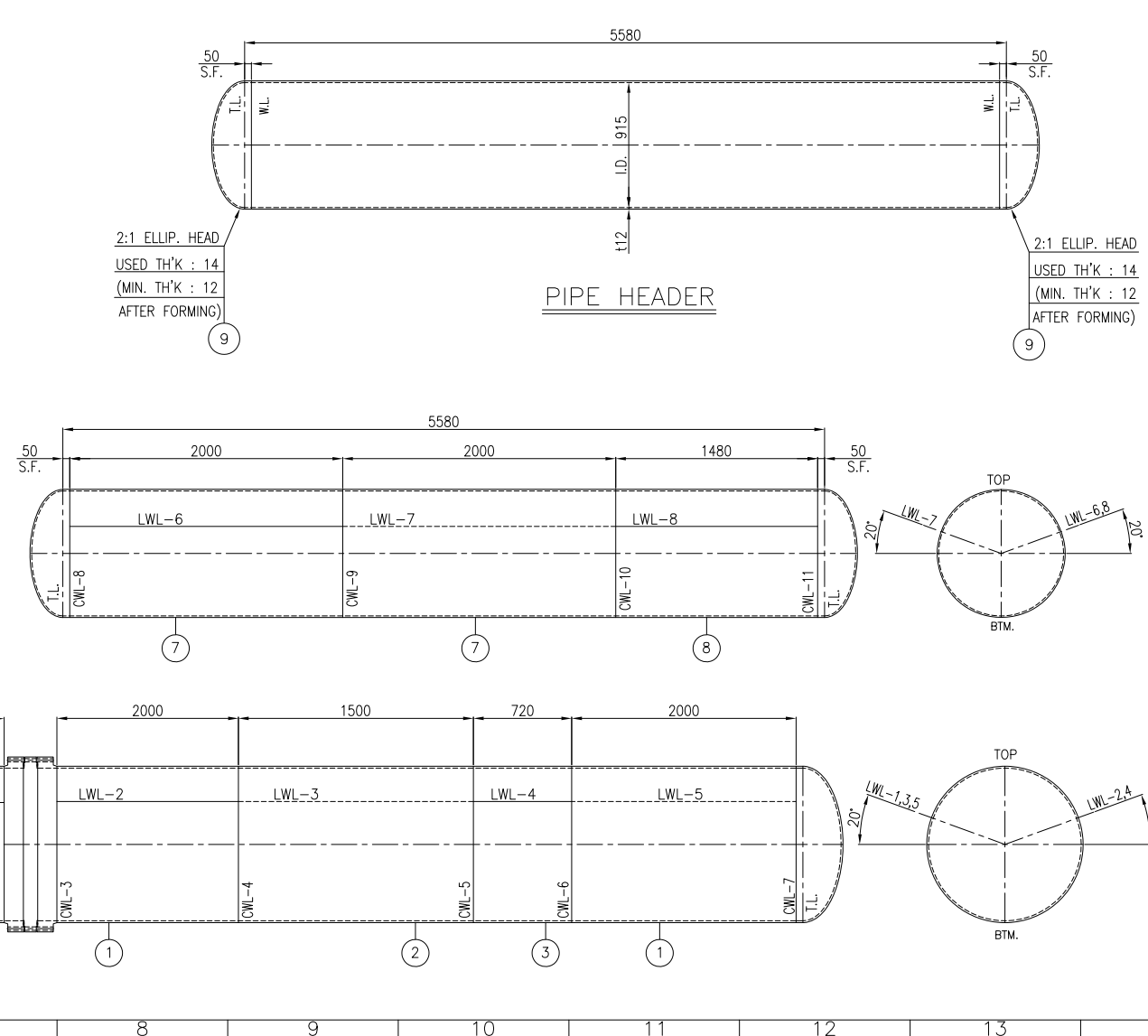
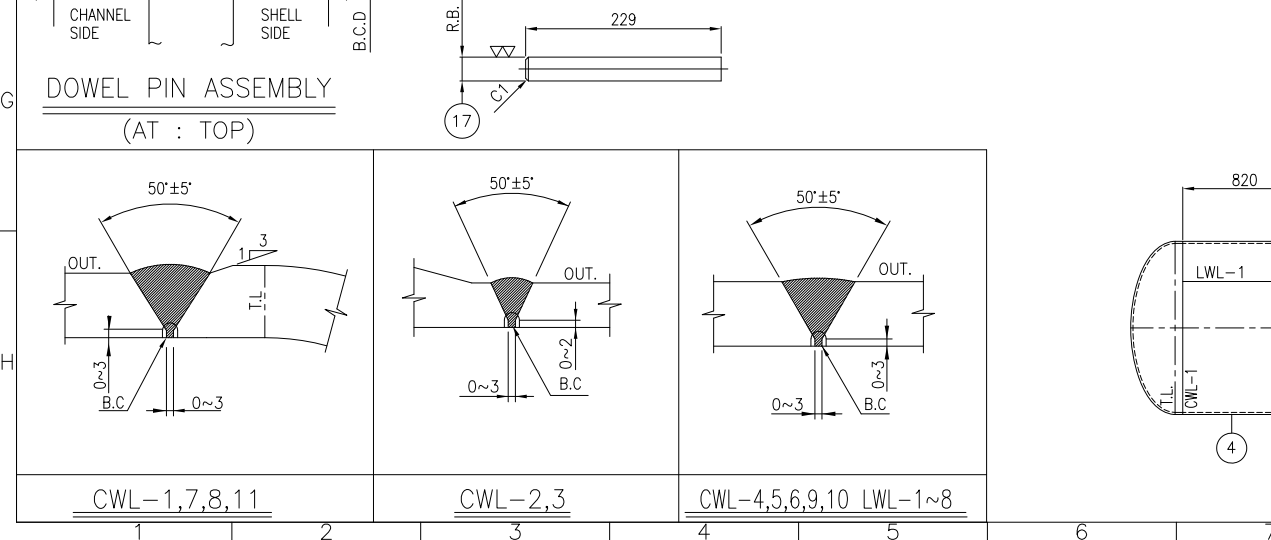
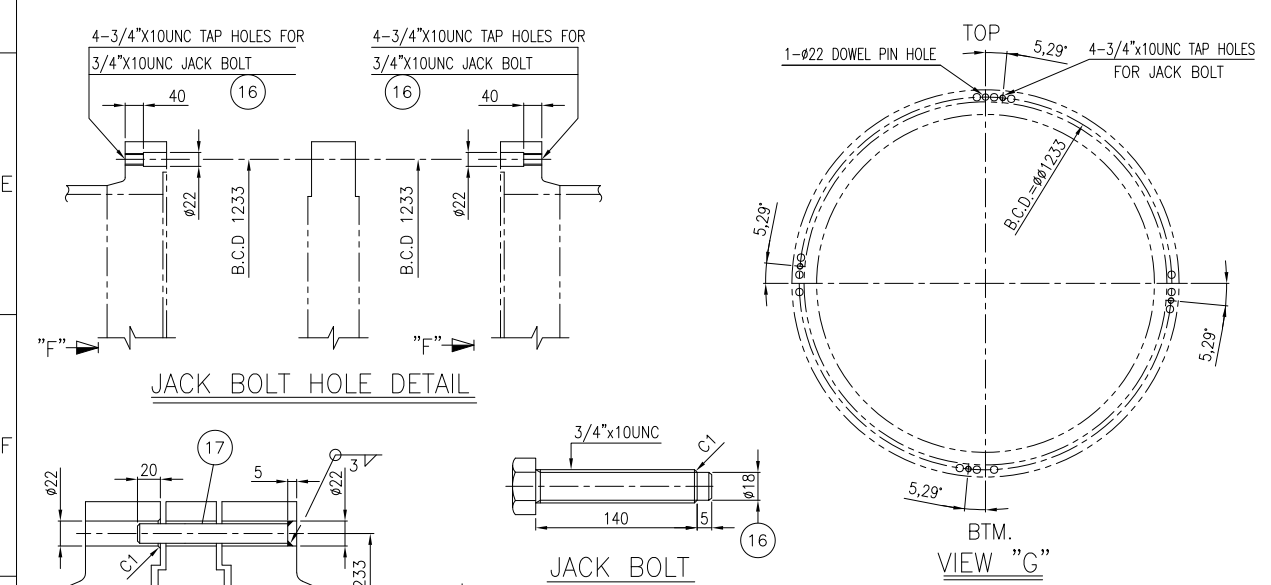
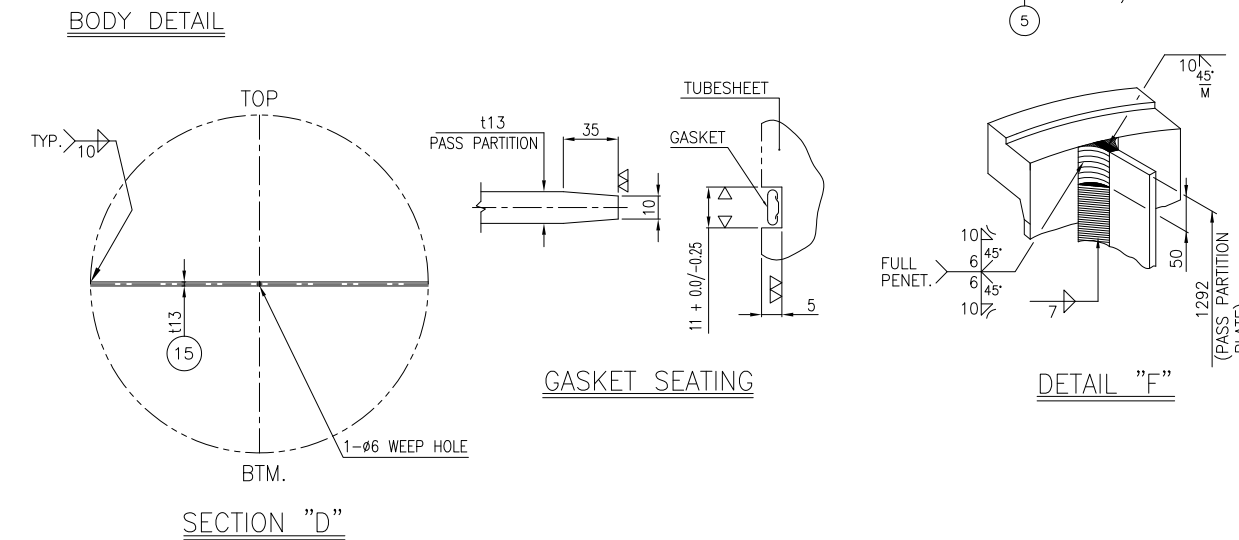
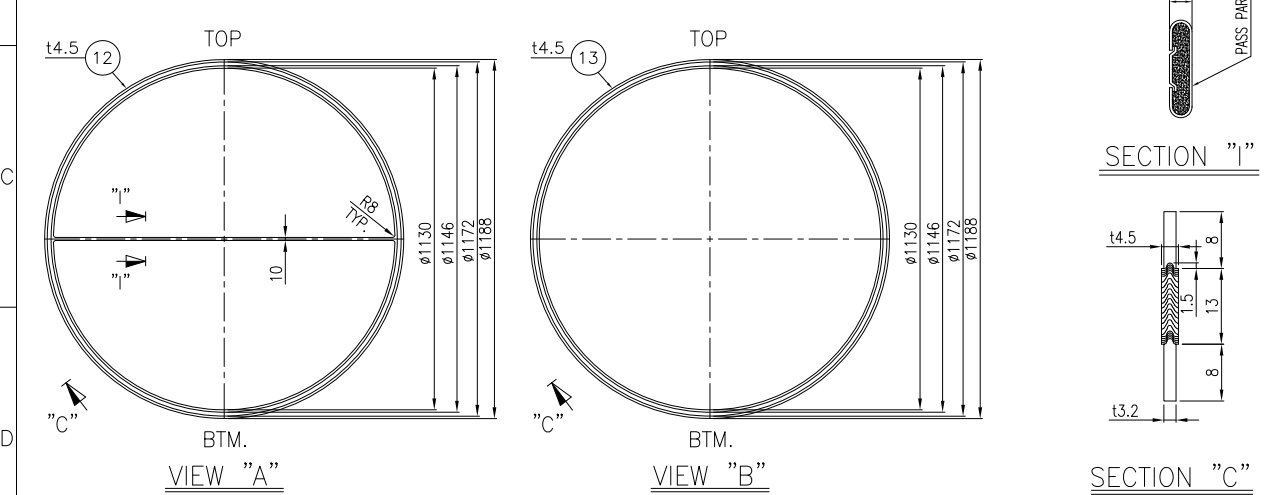
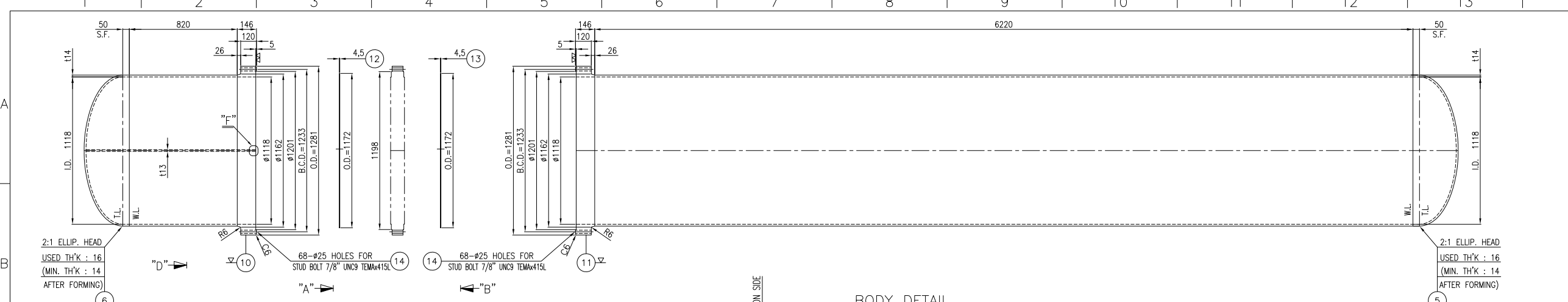
SHELL		GENERAL	
BARREL	SA-516 70N	SLIDING BAR/ROD	SA-516 70N/SA-36
FLANGES	SA350-LF2 CL.1N	SEALING STRIP	-
NOZZLE FROM PIPE	SA333-6	DUMMY TUBE/SEAL ROD	-
NOZZLE FROM PLATE	-	BLINDED NOZZLE BOLT/NUT	SA320 L7/SA194-4
NOZZLE FLANGES/FORGED NOZZLE	SA350-LF2 CL.1N	BLINDED NOZZLE GASKET	(NOTE 9)
COUPLINGS & 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.	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	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 EXPOSED WITH 2 DRONES WITH SEAL WELD
HYDRO. TEST PRESS. (SHOP/FIELD)	barg	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)
M.O.M.(REQUIRED/CALCULATED) (°C)	-45/-46	-45/-46	2950 (PIPE HEADER)	
M.A.W.P (HOT & CORRODED) barg	25	25	16300 (EXCHANGER)	
M.A.P (NEW & COLD) barg	25	25	2800 (PIPE HEADER)	
P.W.H.T.	NO	NO	OPER. (KG)	24700
IMPACT TEST	NO	NO	SHOP TEST (KG)	25650
PFHT	YES	YES	FIELD TEST (KG)	25400
SURFACE AREA/SHELL (M²)	624.6			
VOLUME (M³)	4.8	3.3		
FLUID DENSITY (kg/m³)	579.45	698.16		
MEAN METAL TEMP. (°C)	-	-		

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.	-	-	560 14	SEE DWG.	
N4	PROCESS OUTLET	1	14"	W.N.	300#	R.F.	-	-	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
02	25.04.25	IFR	D.S.H	F.T	A.M
01	06.04.25	IFR	D.S.H	F.T	A.M
00	26.Aug.25	IFR	D.S.H	F.T	A.M

Gachsan Polymer Industries Company
HDPE Plant
 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. **02** SIZE **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 PER FORMED.
 - 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 L.140
15	PASS PARTITION PLATE	1	SA516-70N	t13 x 1180 x L.292
14	STUD B/2HEAVY NUTS	68	SA320-L7/SA194-4	7/8" UNC9, L.415 (TEMA) H.D.G
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	2	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 L.140	
15	PASS PARTITION PLATE	SA516-70N	1		t13 x 1180 x L.292	
14	STUD B/2HEAVY NUTS	SA320-L7/SA194-4	68		7/8" UNC9, L.415 (TEMA) 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	

01 25.Oct.25 IFR D.SH F.T A.M

00 06.Oct.25 IFR D.SH F.T A.M

REV. DATE Purpose of Issue Prepared Checked Approved

GPIC Logo

Gachsaran Polymer Industries Company
HDPE Plant

CONTRACT NO.: GPI-CON-99-008

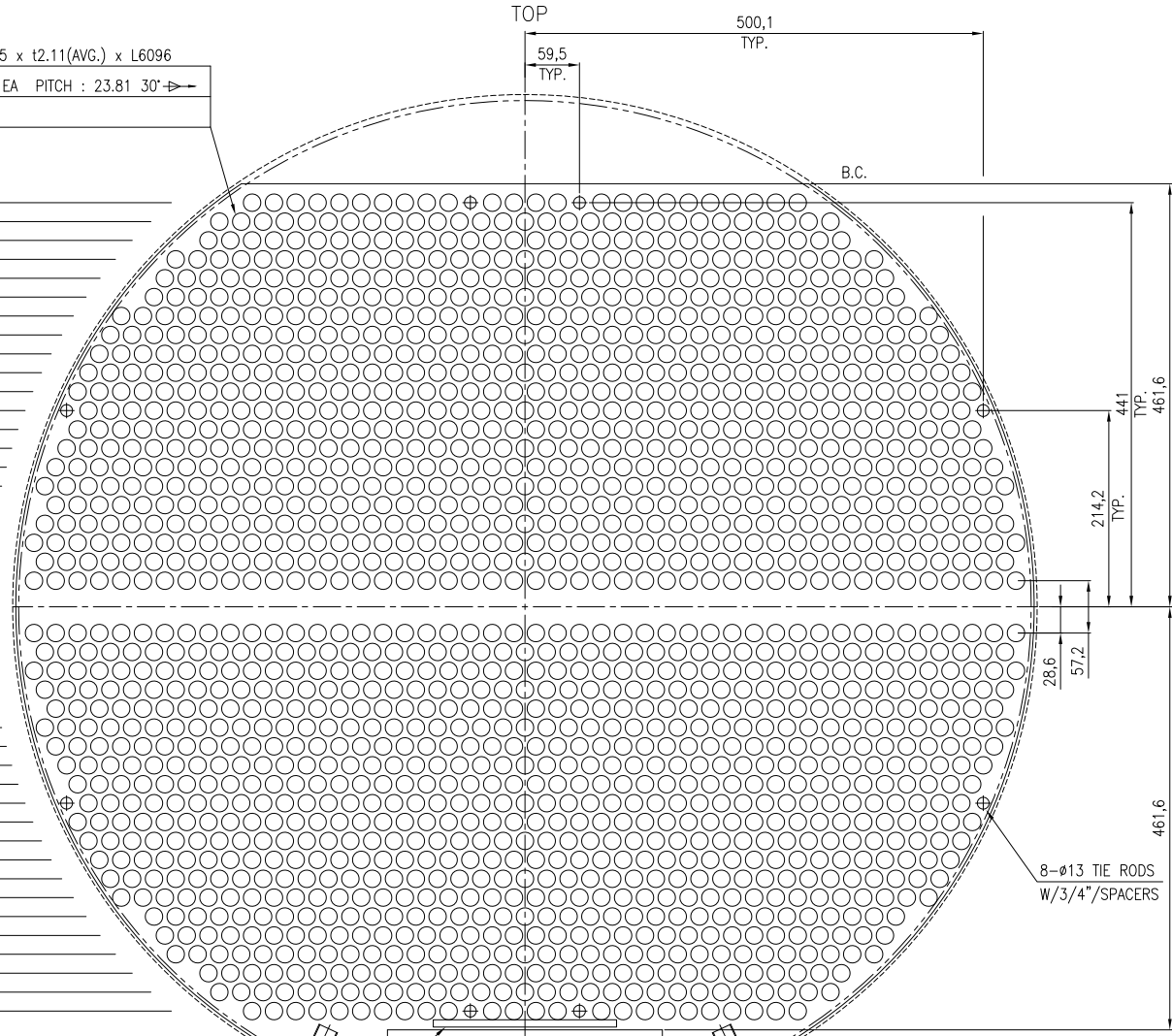
PO No.: GPIC-PT-MA-PO-000-3029 SCALE: 1:1

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

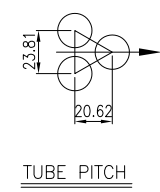
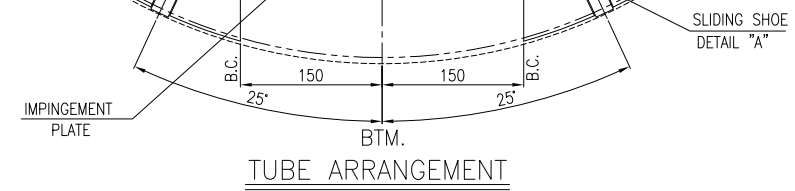
DRAWING NO. V D-GPIC-MA-3029-3029-0089 REV. SHEET NO. SIZE
01 2 OF 8 A3

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)

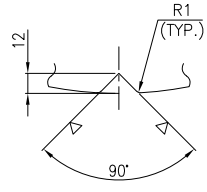
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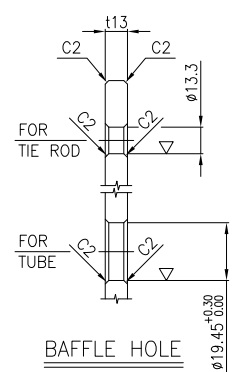
TOTAL : 1652 EA



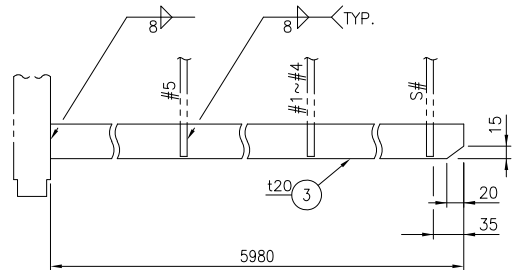
TUBE PITCH



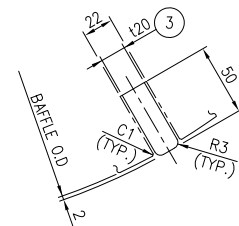
BAFFLE NOTCH (TOP & BTM.)



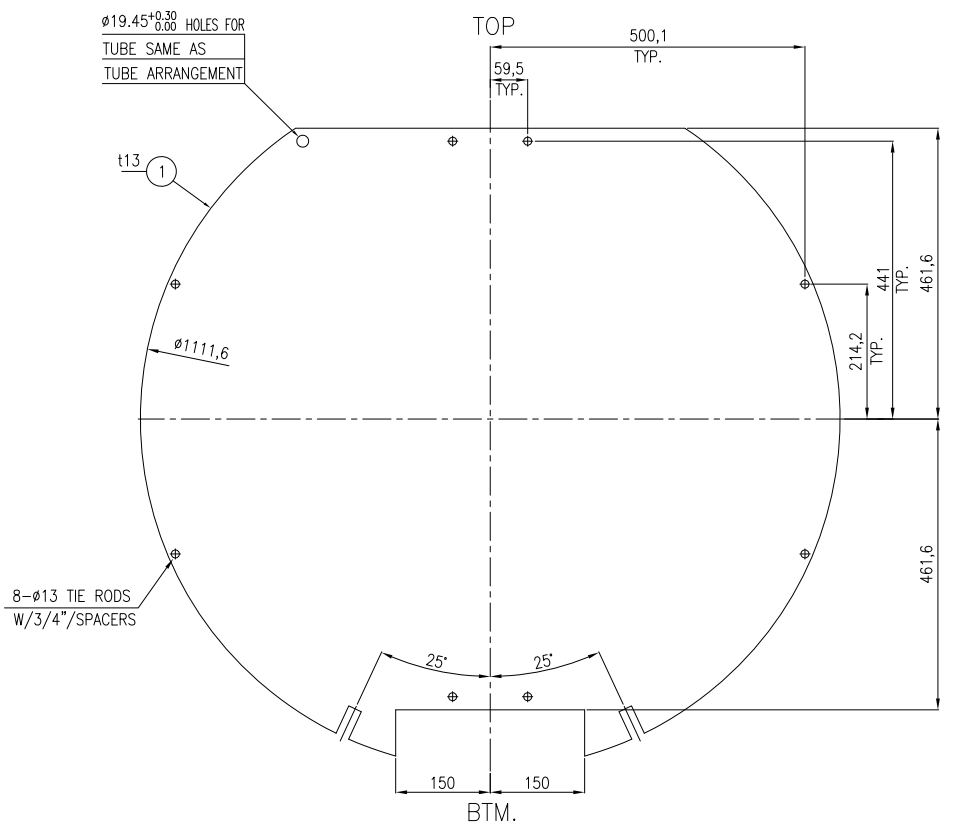
BAFFLE HOLE



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	113 x ø1111.6	
PART NO.	PART NAME	MATERIAL	QUANTITY	SPECIFICATION	REMARK

BILL OF MATERIAL					

Code: No Comment/ Approval
 (Applicable Only for "FOR REVIEW" and "For Approval" documents) No comment and the document is released for Manufacturing

Code: No Comment/ Approval with Note(s)
 Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.

Code: Comment(s)
 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.

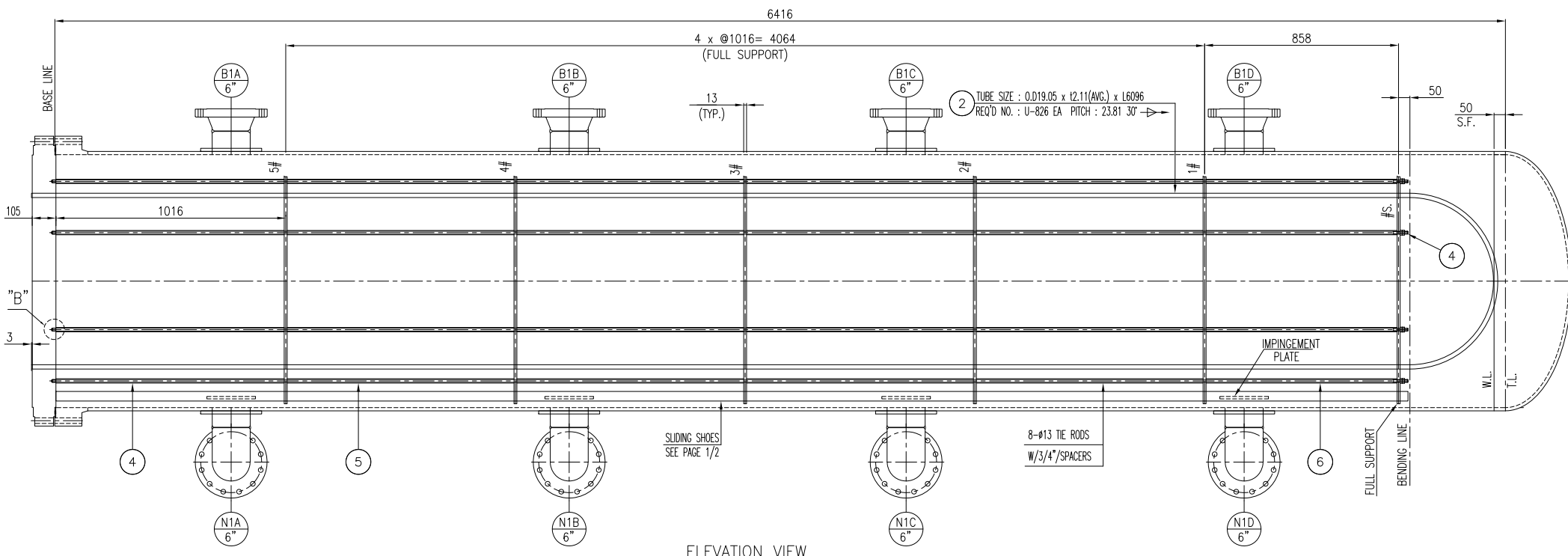
Code: Not Accepted (Rejection)
 Vendor/Sub-Contractor shall re-work/re-design/re-manufacture for rejection. In corrected documents shall be resubmitted before starting the Manufacturing Process. Vendor/Sub-Contractor shall correct with necessary modification. Vendor/Sub-Contractor shall resubmit the document with the same status after a writing and after necessary corrections.

No Code: No Code
 (Only for "For Information" documents and "For Sale Order")
 (By Customer use, vendor/sub-contractor's responsibility is not transferred to Vendor/Sub-Contractor's responsibility.)
 No action is required to EED until it is not required.
 Vendor of any liability, obligation and responsibility not of the purchase order and the contract agreement in writing.

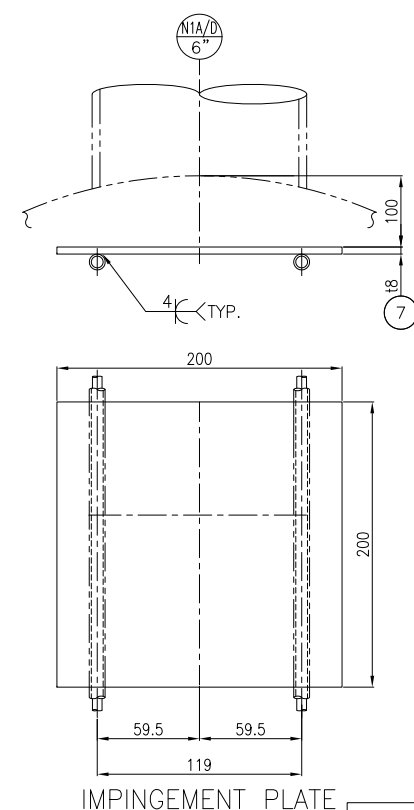
DATE: _____
 DEPT: _____
 Signature: _____

CV: _____
 ST: _____

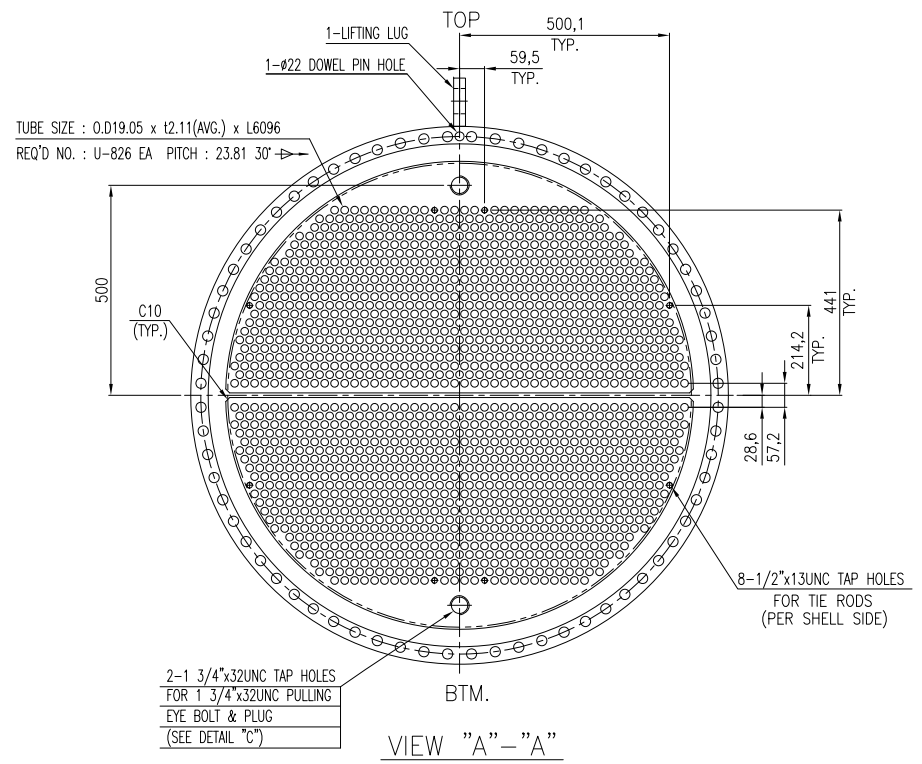
00	06.Oct.25	IFR	D.SH	F.T	A.M
REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
Gachsaran Polymer Industries Company HDPE Plant CONTRACT NO.: GPI-CON-99-008					
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE:					
EVAPORATOR (CHILLER) DRAWING (E-6101)					
(BUNDLE DETAIL 1/2)					
DRAWING NO.					REV.
VD-GPIC-MA-3029-3029-0089					00
					SHEET NO.
					3 OF 8
					SIZE
					A3



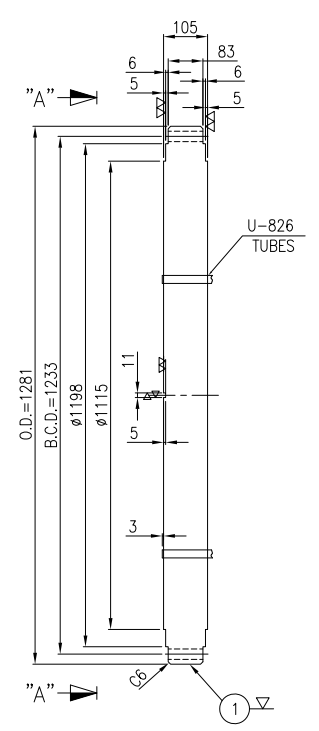
ELEVATION VIEW



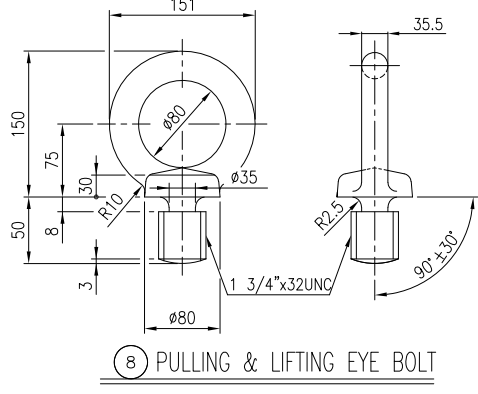
IMPINGEMENT PLATE



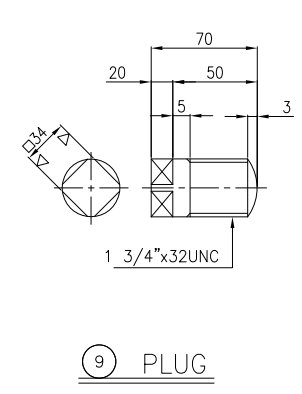
VIEW "A"- "A"



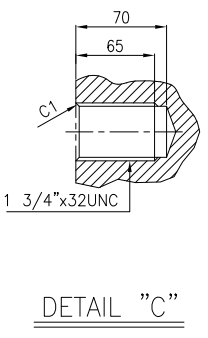
TUBESHEET DETAIL



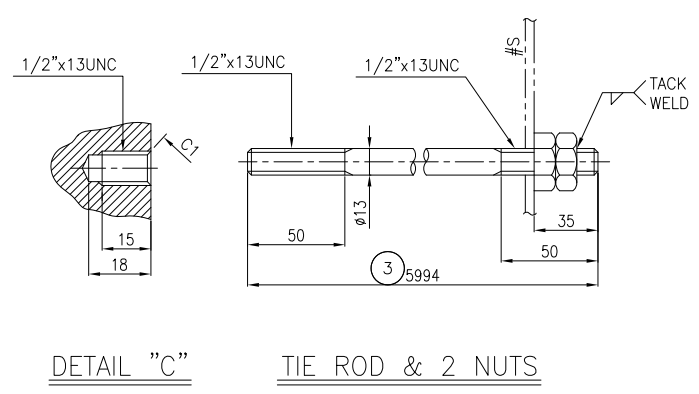
PULLING & LIFTING EYE BOLT



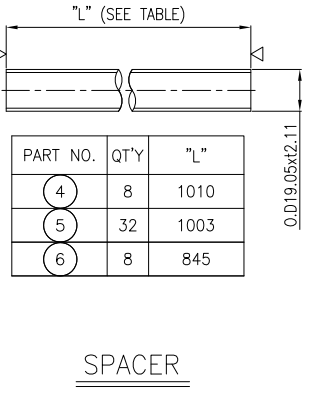
PLUG



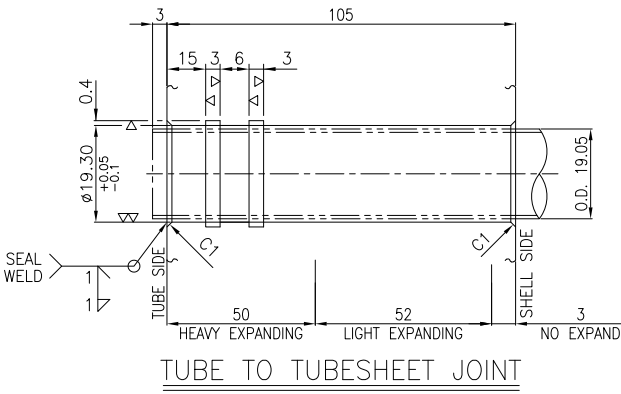
DETAIL "C"



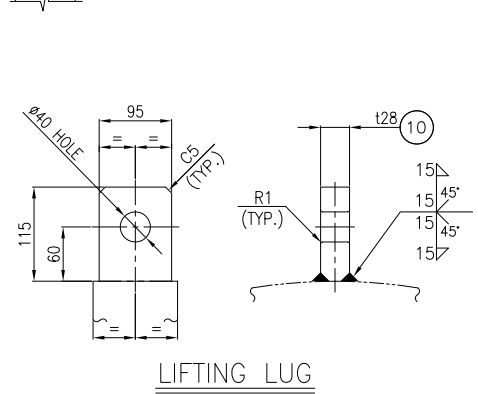
TIE ROD & 2 NUTS



SPACER



TUBE TO TUBESHEET JOINT



LIFTING LUG

U-TUBE

NO.	"R"	"L"	Q'TY
1	28.575	12281.8	46
2	49.2	12346.6	45
3	69.8	12411.3	46
4	90.4	12476.1	45
5	111.1	12540.9	44
6	131.7	12605.7	45
7	152.3	12670.5	44
8	172.9	12735.3	43
9	193.6	12800.1	42
10	214.2	12864.9	41
11	234.8	12929.6	42
12	255.4	12994.4	41
13	276.0	13059.2	40
14	296.7	13124.0	39
15	317.3	13188.8	38
16	337.9	13253.6	35
17	358.5	13318.4	34
18	379.2	13383.1	33
19	399.8	13447.9	30
20	420.4	13512.7	29
21	441.0	13577.5	24

U-TUBE DIMENSION

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

* FOR ONE SET

NO.	PART NAME	MATERIAL	QUANTITY	SPECIFICATION	REMARK
10	LIFTING LUG	SA283-C	1	SEE DIM.	
9	PLUG	304 S.S	2	1 3/4"x32UNC	
8	EYE BOLT	SA-36	2	1 3/4"x32UNC	H.D.G.
7	IMPINGEMENT PLATE	SA516-70	1	18 x 200 x 200	
6	SPACER	SA334-6	8	0.019.05 x 12.11 x L845	
5	SPACER	SA334-6	32	0.019.05 x 12.11 x L1003	
4	SPACER	SA334-6	8	0.019.05 x 12.11 x L1010	
3	TIE ROD & 2NUTS	SA36/SA194-2H	8	1/2"x13UNC (R13) x L5994	
2	TUBE	SA334-6	U-826	0.019.05 x 12.11(AVG.) x S116096	
1	TUBESHEET	SA350-LF2 CL1N	1	1105x #1281	

BILL OF MATERIAL

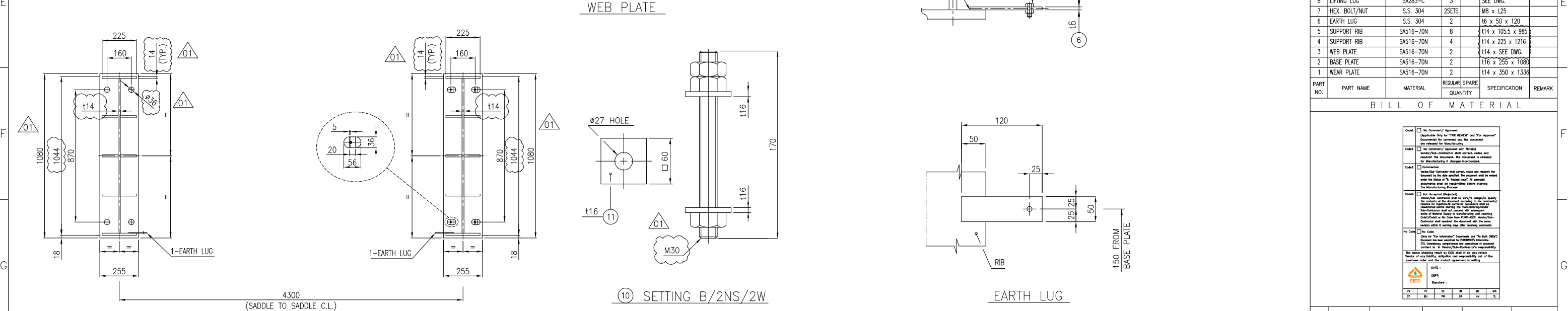
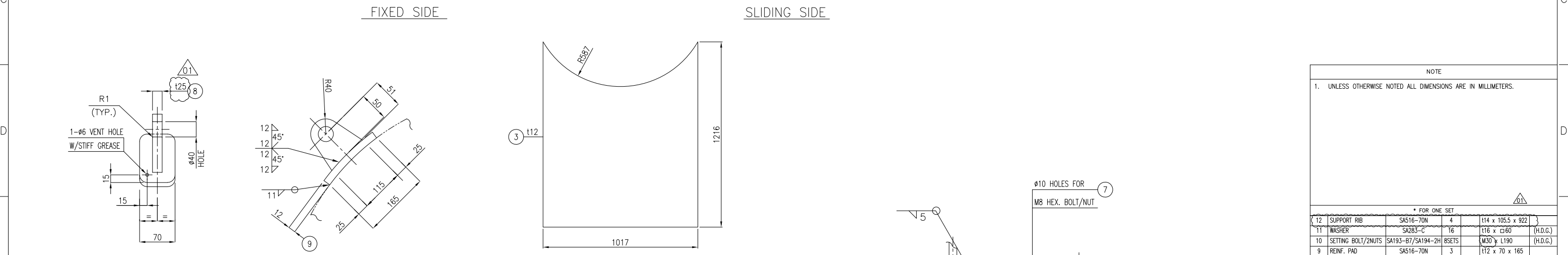
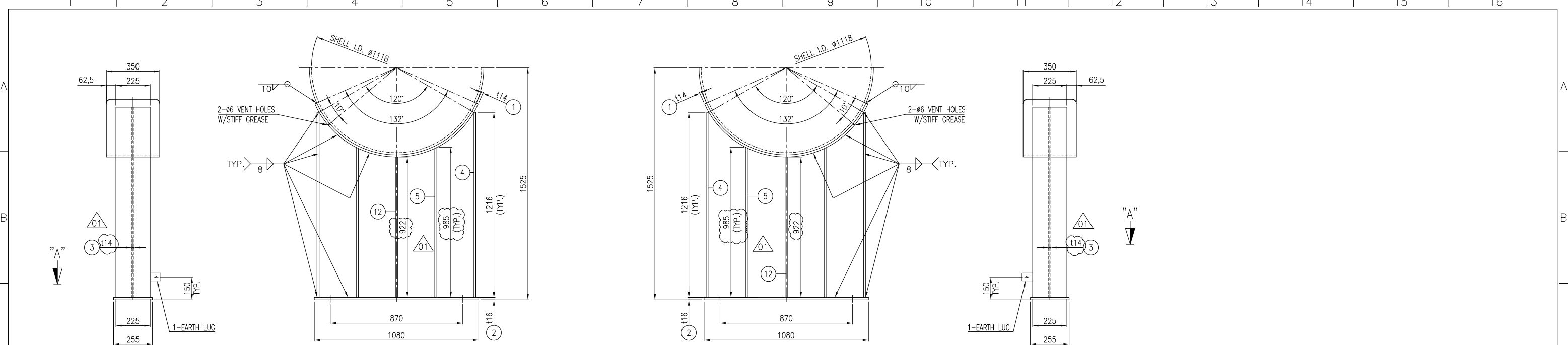
NO.	"R"	"L"	Q'TY
1	28.575	12281.8	46
2	49.2	12346.6	45
3	69.8	12411.3	46
4	90.4	12476.1	45
5	111.1	12540.9	44
6	131.7	12605.7	45
7	152.3	12670.5	44
8	172.9	12735.3	43
9	193.6	12800.1	42
10	214.2	12864.9	41
11	234.8	12929.6	42
12	255.4	12994.4	41
13	276.0	13059.2	40
14	296.7	13124.0	39
15	317.3	13188.8	38
16	337.9	13253.6	35
17	358.5	13318.4	34
18	379.2	13383.1	33
19	399.8	13447.9	30
20	420.4	13512.7	29
21	441.0	13577.5	24

REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
00	06.Oct.25	IFR	D.SH	F.T	A.M

Gachsan Polymer Industries Company
HDPE Plant
CONTRACT NO.: GPI-CON-99-008

PO No.: GPIC-PT-MA-PO-000-3029
DRAWING TITLE: EVAPORATOR (CHILLER) DRAWING (E-6101) (BUNDLE DETAIL 2/2)

DRAWING NO.	REV.	SHEET NO.	SIZE
VD-GPIC-MA-3029-3029-0089	00	4 OF 8	A3



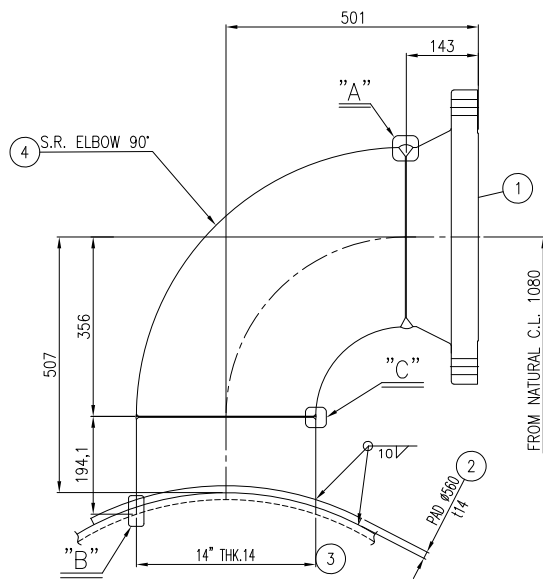
NOTE
1. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.

* FOR ONE SET					
PART NO.	PART NAME	MATERIAL	QUANTITY	SPECIFICATION	REMARK
12	SUPPORT RIB	SA516-70N	4	t14 x 105.5 x 922	
11	WASHER	SA283-C	16	t16 x 60	(H.D.G.)
10	SETTING BOLT/NUTS	SA193-87/SA194-2H	8SETS	M30 x L190	(H.D.G.)
9	REIN. PAD	SA516-70N	3	t12 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	t14 x 105.5 x 985	
4	SUPPORT RIB	SA516-70N	4	t14 x 225 x 1216	
3	WEB PLATE	SA516-70N	2	t14 x SEE DWG.	
2	BASE PLATE	SA516-70N	2	t16 x 255 x 1080	
1	WEAR PLATE	SA516-70N	2	t14 x 350 x 1336	

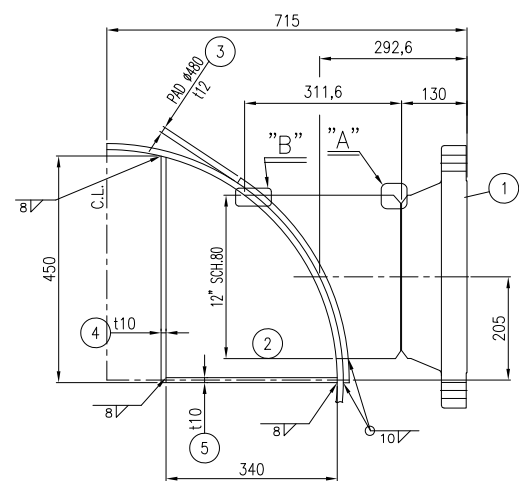
BILL OF MATERIAL

<input type="checkbox"/> No Comment/ Approval (Applicable Only for "For Review" and "For Approval" Enclosures to be completed and the document be released for Manufacturing					
<input type="checkbox"/> No Comment/ Approval with Remarks Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document shall be released under the Status of "To Be Released" at correct enclosure shall be resubmitted before starting the Manufacturing Process					
<input type="checkbox"/> Commented 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" at correct enclosure shall be resubmitted before starting the Manufacturing Process					
<input type="checkbox"/> Not Accepted/ Disapproved Vendor/Sub-Contractor shall re-work/re-design/re-manufacture the material as per the drawing and re-submit the document for review. The document shall be released under the Status of "To Be Released" at correct enclosure shall be resubmitted before starting the Manufacturing Process					
<input type="checkbox"/> No Code (Only for "For Information" Enclosures and "For Bill Material" Enclosures to be completed and the document be released for Manufacturing					
The responsibility shall be on the Vendor/Sub-Contractor's responsibility for any liability, obligation and responsibility out of the purchase order and for correct agreement in writing.					
DATE: _____ EIED Signature: _____					
CV	PI	EL	SI	ME	MA
ST	BY	PR	SA	DR	TC

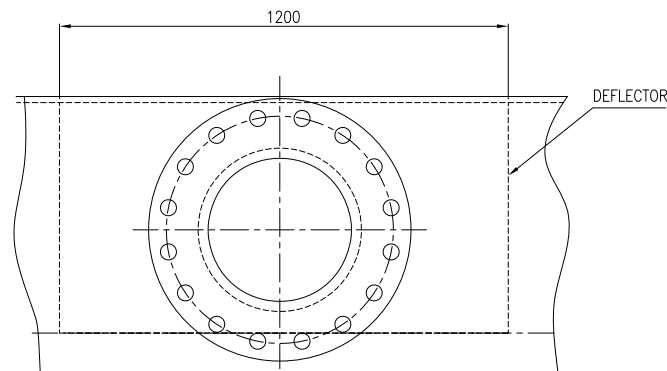
01	25.Oct.25	IFR	D.SH	F.T	A.M
00	06.Oct.25	IFR	D.SH	F.T	A.M
REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
		Gachsaran Polymer Industries Company HDPE Plant			
CONTRACT NO.: GPI-CON-99-008					
PO No.: GPIC-PT-MA-PO-000-3029					SCALE: 1:1
DRAWING TITLE: EVAPORATOR (CHILLER) DRAWING (E-6101) (SADDLE DETAIL)					
DRAWING NO. VD-GPIC-MA-3029-3029-0089					REV. SHEET NO. SIZE 01 5 OF 8 A3



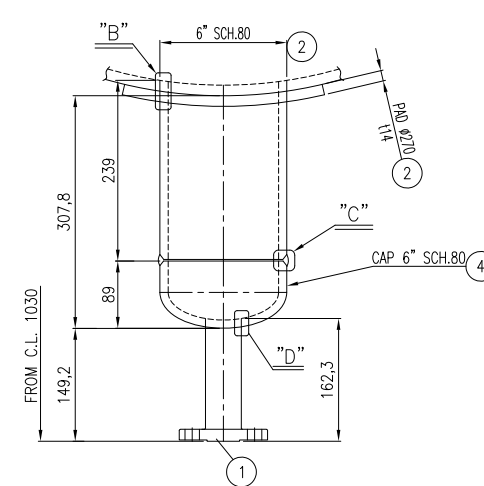
DETAIL OF N3 14" N4 14"



DETAIL OF N2 12"



VIEW "E" N2 12"



DETAIL OF N13 6" S11 3/4"

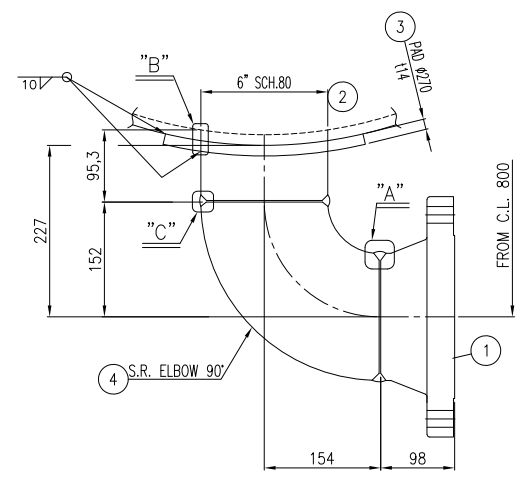
NOTE
 1. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN MILLIMETERS.
 2. FOR THE TEST VENT HOLES #3 WILL BE OBTURED BY WELDING.
 3. GASKET MATERIAL FOR ASME B16.20: SPIRAL WOUND (14.5)
 -FILLER: GRAPHITE
 -INNER RING: 304 S.S.
 -HOOP: 304 S.S.
 -OUTER RING: 304 S.S.

* FOR ONE SET

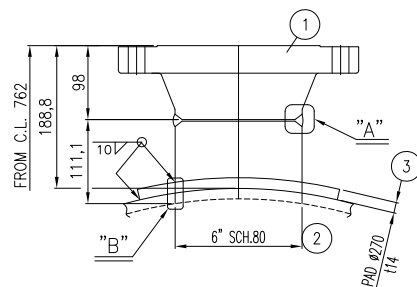
NOZZLE PART NO.	PART NAME	MATERIAL	QUANTITY	REGULAR SPARE	SPECIFICATION	REMARK
N13	4 CAP	SA420-WPL6	1		6" SCH. 80	
S11	3 REIN. PAD	SA516-70N	1		114 x #270	
	2 NOZZLE NECK	SA333-6	1		6" SCH.80 x L239	
	1 FLANGE (THK.14.25)	SA350-LF2 CL.1N	1		3/4" ASME 300# WNLR	
N5	2 NOZZLE NECK	SA333-6	1		2" SCH. 160 x L1335	
	1 FLANGE (SCH.160)	SA350-LF2 CL.1N	1		2" ASME 300# WNLR	
	3 ELBOW	SA420-WPL6	1		2" SCH. 160, LR	
N11	2 NOZZLE NECK	SA333-6	1		2" SCH. 160 x L1406	
	1 FLANGE (SCH.160)	SA350-LF2 CL.1N	1		2" ASME 300# WNLR	
	3 ELBOW	SA420-WPL6	1		2" SCH. 160, LR	
N10	2 NOZZLE NECK	SA333-6	1		2" SCH. 160 x L1025	
	1 FLANGE (SCH.160)	SA350-LF2 CL.1N	1		2" ASME 300# WNLR	
	3 ELBOW	SA420-WPL6	1		1 1/2" SCH. 160, LR	
N15	2 NOZZLE NECK	SA333-6	1		1 1/2" SCH. 160 x L1585	
	1 FLANGE (SCH.160)	SA350-LF2 CL.1N	1		1 1/2" ASME 300# WNLR	
	3 REIN. PAD	SA516-70N	1		112 x #190	
N14	2 NOZZLE NECK	SA333-6	1		3" SCH.160 x L125.7	
	1 FLANGE (SCH.160)	SA350-LF2 CL.1N	1		3" ASME 300# WNLR	
	3 REIN. PAD	SA516-70N	4		112 x #270	
B1E-H	2 NOZZLE NECK	SA333-6	4		6" SCH.80 x L110.5	
	1 FLANGE (SCH.80)	SA350-LF2 CL.1N	4		6" ASME 300# WNLR	
	3 REIN. PAD	SA516-70N	4		114 x #270	
B1A-D	2 NOZZLE NECK	SA333-6	4		6" SCH.80 x L1111.1	
	1 FLANGE (SCH.80)	SA350-LF2 CL.1N	4		6" ASME 300# WNLR	
	4 ELBOW	SA420-WPL6	4		6" SCH. 80, S,R	
	3 REIN. PAD	SA516-70N	4		114 x #270	
N1A-D	2 NOZZLE NECK	SA333-6	4		6" SCH.80 x L95.3	
	1 FLANGE (SCH.80)	SA350-LF2 CL.1N	4		6" ASME 300# WNLR	
	5 DEFLECTOR	SA516-70N	1		110 x 340 x 1200	
	4 DEFLECTOR	SA516-70N	1		110 x 450 x 1200	
N2	3 REIN. PAD	SA516-70N	1		112 x #480	
	2 NOZZLE NECK	SA333-6	1		12" SCH.80 x L311.6	
	1 FLANGE (SCH.80)	SA350-LF2 CL.1N	1		12" ASME 300# WNLR	
	4 ELBOW	SA420-WPL6	2		14" THK.14, S,R	
N4	3 REIN. PAD	SA516-70N	2		114 x #560	
N3	2 NOZZLE NECK	SA516-70N	2		14" THK.14 x L194.1	
	1 FLANGE (THK.14)	SA350-LF2 CL.1N	2		14" ASME 300# WNLR	

BILL OF MATERIAL

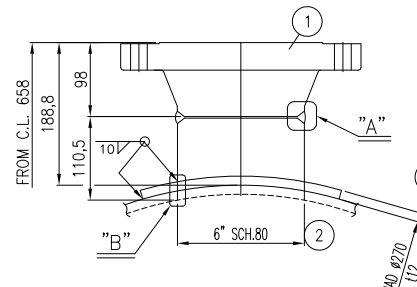
Code: No Comment/ Approval
 (Applicable Only for "For Review" and "For Approval"
 (Applicable for the design and the document
 released for Manufacturing)
 No Comment/ Approval with Note(s)
 Vendor/Sub-Contractor shall correct, revise and
 resubmit the document. The document is released
 for Manufacturing if changes incorporated.
 Comment(s)
 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
 document shall be resubmitted before starting
 the Manufacturing Process.
 Not Approved (Rejected)
 Vendor/Sub-Contractor shall re-work/re-design/re-manufacture
 the document as per the comments and shall
 resubmit the document for approval. The document shall
 not be released for Manufacturing until the Vendor/Sub-Contractor
 provides the necessary details of manufacturing and assembly
 and shall be approved by the Vendor/Sub-Contractor.
 Vendor shall resubmit the document with the same
 status until it meets the approval of the Vendor.
 No Code
 (Only for "For Information" documents and "For Review"
 documents. No manufacturing or construction
 activities shall be initiated until the document is
 released for Manufacturing.)
 The document shall be released only after the
 Vendor of any liability, obligation and responsibility of the
 Vendor and the Vendor's agreement in writing.
 DATE: _____
 EDED
 Signature: _____



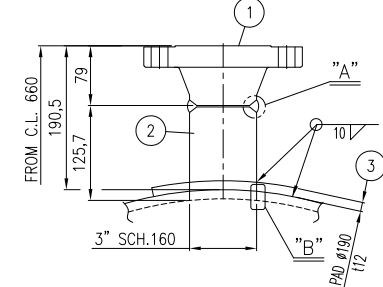
DETAIL OF N1A-D 6"



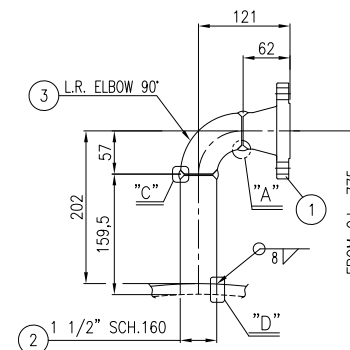
DETAIL OF B1A-D 6"



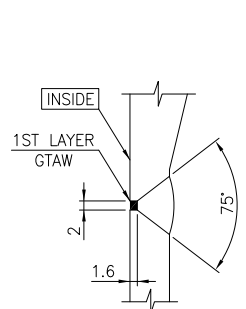
DETAIL OF B1E-H 6"



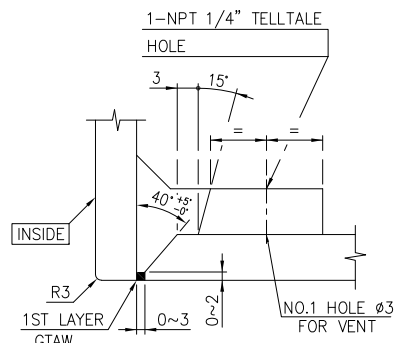
DETAIL OF N14 3"



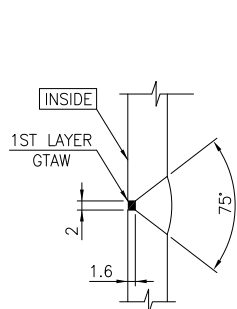
DETAIL OF N15 1 1/2"



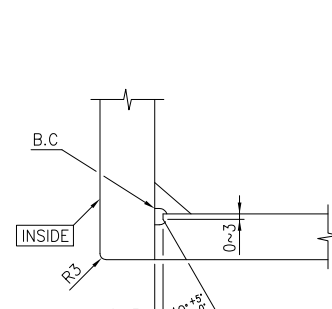
DETAIL "A"



DETAIL "B"



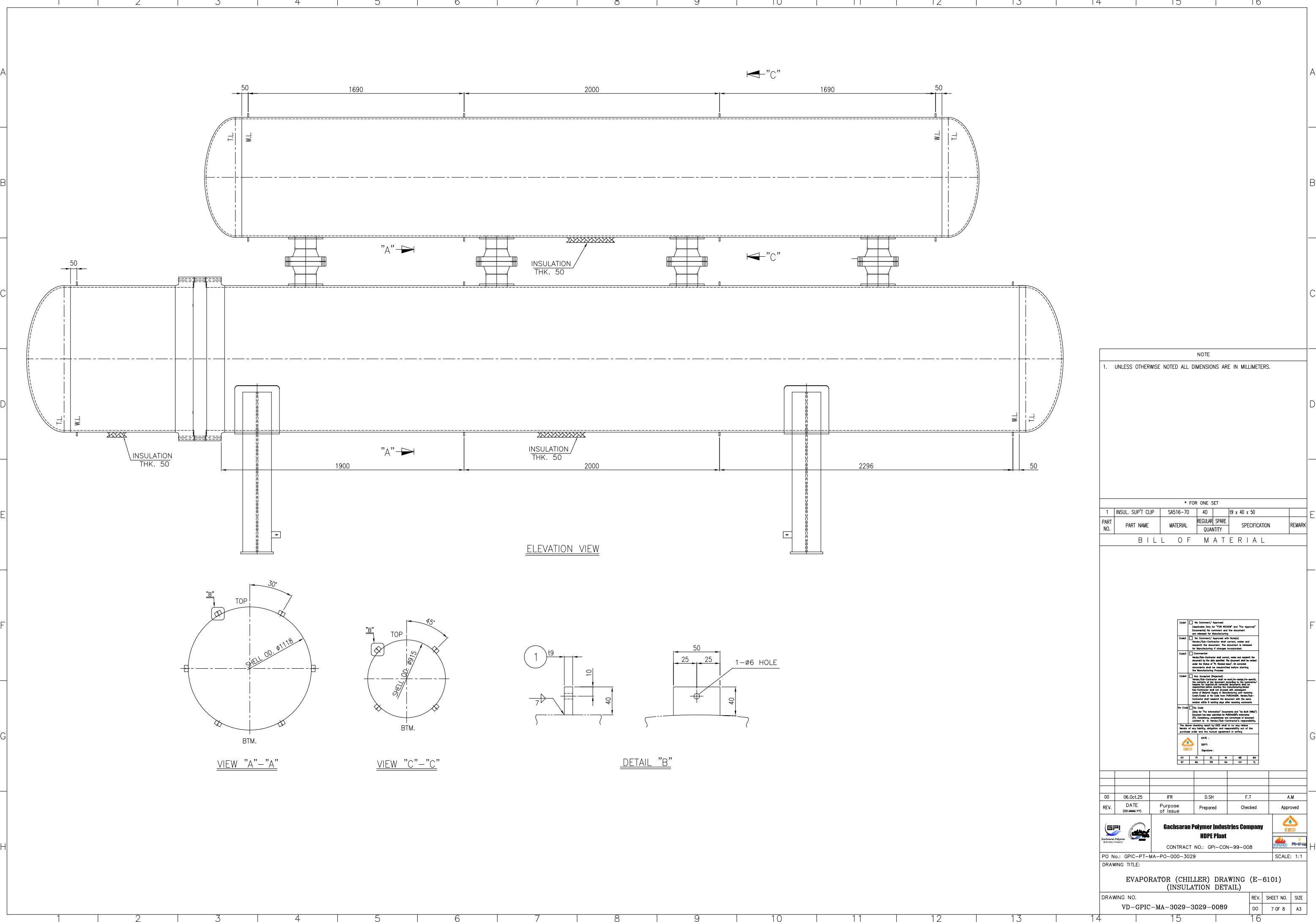
DETAIL "C"



DETAIL "D"

REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
00	06.Oct.25	IFR	D.SH	F.T	A.M

GPIC Logo
 Gachsaran Polymer Industries Company
 HDPE Plant
 CONTRACT NO.: GPI-CON-99-008
 PO No.: GPIC-PT-MA-PO-000-3029
 DRAWING TITLE:
 EVAPORATOR (CHILLER) DRAWING (E-6101)
 (NOZZLE DETAIL)
 DRAWING NO.
 VD-GPIC-MA-3029-3029-0089
 REV. SHEET NO. SIZE
 00 6 OF 8 A3



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	REMARK
			REGULAR SPARE	SPECIFICATION	
			QUANTITY		

BILL OF MATERIAL

Code	Description	Quantity	Unit	Material	Specification	Remark
1	INSUL. SUPT CLIP	40		SAS16-70	19 x 40 x 50	

Code: No Comment/ Approval
 (Applicable Only for "For Review" and "For Approval" documents) No comment and the document is released for Manufacturing.

Code: No Comment/ Approval with Note(s)
 Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.

Code: Comment(s)
 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 corrected documents are received before starting the Manufacturing Process.

Code: Not Accepted (Rejected)
 Vendor/Sub-Contractor shall re-work/re-design/re-verify the document. The document shall be resubmitted for review for approval. Vendor/Sub-Contractor shall not proceed with manufacturing until the document is approved. Vendor/Sub-Contractor shall resubmit the document with the same number within 4 working days after receiving comments.

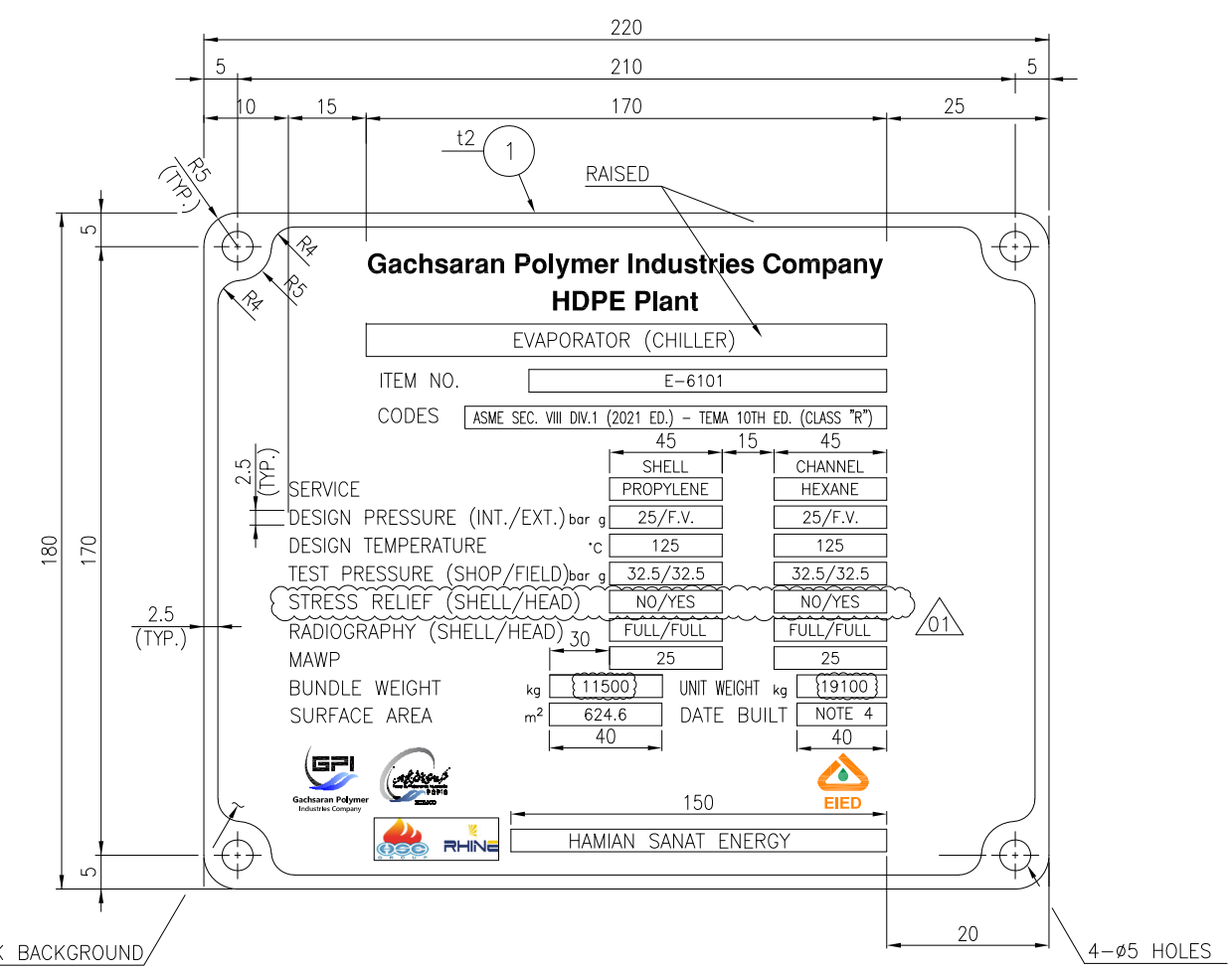
No Code: No Code
 Only for "For Information" documents and "For Bulk Order" (BO) documents. Vendor/Sub-Contractor shall not proceed with manufacturing until the document is approved. Vendor/Sub-Contractor shall resubmit the document with the same number within 4 working days after receiving comments.

DATE: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 APPROVED BY: _____

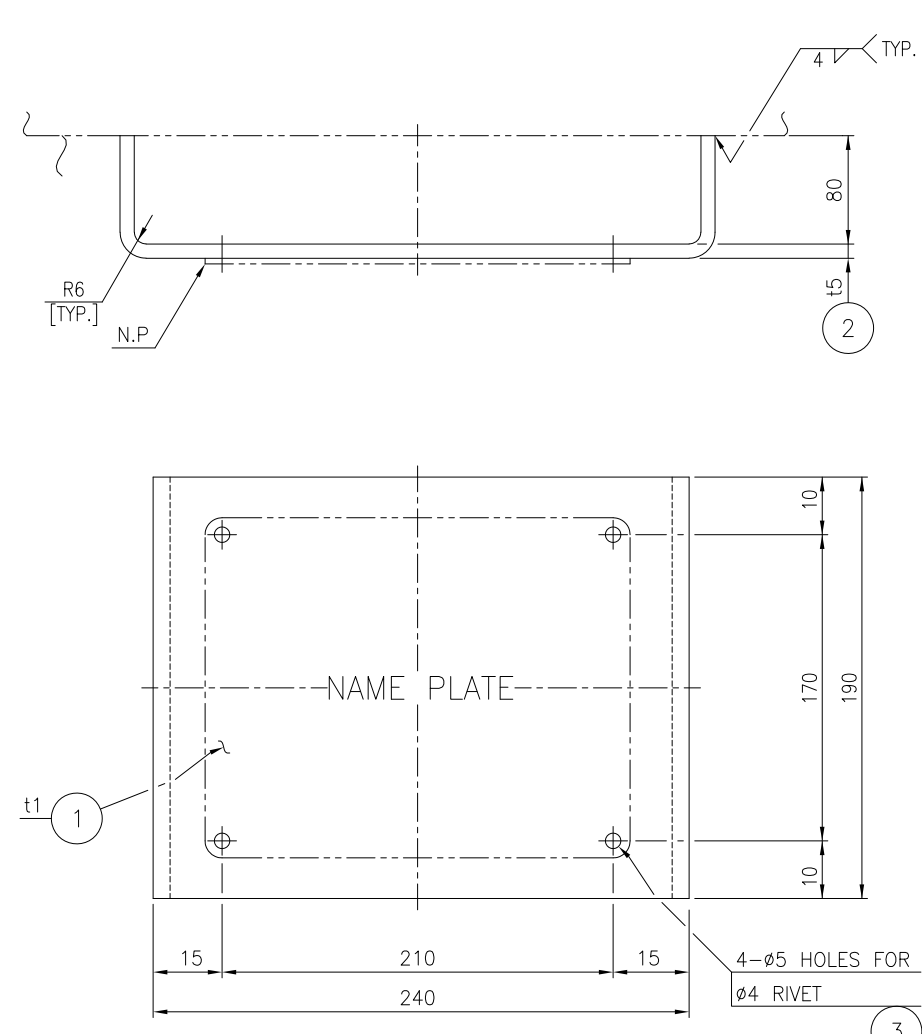
REV.	DATE	Purpose of Issue	Prepared	Checked	Approved
00	06.Oct.25	IFR	D.SH	F.T	A.M

CONTRACT NO.: GPI-CON-99-008

DRAWING NO.: VD-GPIC-MA-3029-3029-0089
 REV. 00
 SHEET NO. 7 OF 8
 SCALE: 1:1
 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		11 x 180 x 220

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

Code: No Comment/ Approval (Applicable Only for "For Review" and "For Approval" documents) No comment and the document is released for Manufacturing

Code: No Comment/ Approval with Note(s) Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.

Code: Comment(s) 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 shall be resubmitted before starting the Manufacturing Process.

Code: Not Accepted (Rejected) Vendor/Sub-Contractor shall re-work/re-design/re-manufacture the product according to the comments/changes for re-submit to correct deficiencies and to be released before starting the Manufacturing Process. Vendor/Sub-Contractor shall correct with necessary change order of Material Safety of Manufacturing and resubmit. Vendor/Sub-Contractor shall correct with necessary change order in the Date and Quantity. Vendor/Sub-Contractor shall resubmit the document with the same number after it is ready for the manufacturing process.

No Code: No Code (Only for "For Information" documents and "For Bulk Order") (By Customer use, vendor/sub-contractor shall contact in the Vendor/Sub-Contractor's responsibility. No action necessary until the document is ready for release. Vendor of any liability, obligation and responsibility not of the purchase order and the related agreement in writing.

DATE: _____
GPI: _____
Signature: _____

CV	PI	EL	SI	ME	SA
ST	BY	PM	SA	SV	TL

01	25.Oct.25	IFR	D.SH	F.T	A.M
00	06.Oct.25	IFR	D.SH	F.T	A.M
REV.	DATE	Purpose of Issue	Prepared	Checked	Approved

GPI Gachsaran Polymer Industries Company HDPE Plant EIED

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	01	8 OF 8	A3