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	DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT	
	DOCUMENT TITLE: Economizer Drawing	POI: IFA
Contract No.: DPIC/98-12	DOCUMENT No: DPIC9812-000-VD-1002-ME-DWG-0023	Rev. No.: D1

DOCUMENT TITLE:

Economizer Drawing

(E-PK6101-3)

PURCHASER'S COMMENT/APPROVAL STATUS					Purchaser: NARGAN
1	AP: Approved (Released for Manufacturing)				Requisition No.: DPIC98-12-001-000-ME-MR-4150-0001-D1
2	AN: Approved With Minor Comments (Fabrication may Proceed)				
3	NF: Approved With Comments (Fabrication not Proceed)				Item No. (Tag No.): (E-PK6101-3)
4	RJ: Rejected				
5	NR: Not be Returned				Vendor Doc. No.: DPIC9812-000-VD-1002-ME-DWG-0023-D1
Date:		Signature:			
					
D1	06.Feb.2022	A.VOSOUGH	DR.A.NEJATI	DR.A.NEJATI	
D0	23.Dec.21	A.VOSOUGH	DR.A.NEJATI	DR.A.NEJATI	
REV	DATE ISSUE	PREPARED	CHECKED	APPROVED	



DEHDASHT PETROCHEMICAL INDUSTRY COMPANY
DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT



DOCUMENT TITLE: Economizer Drawing

POI: IFA

Contract No.: DPIC/98-12

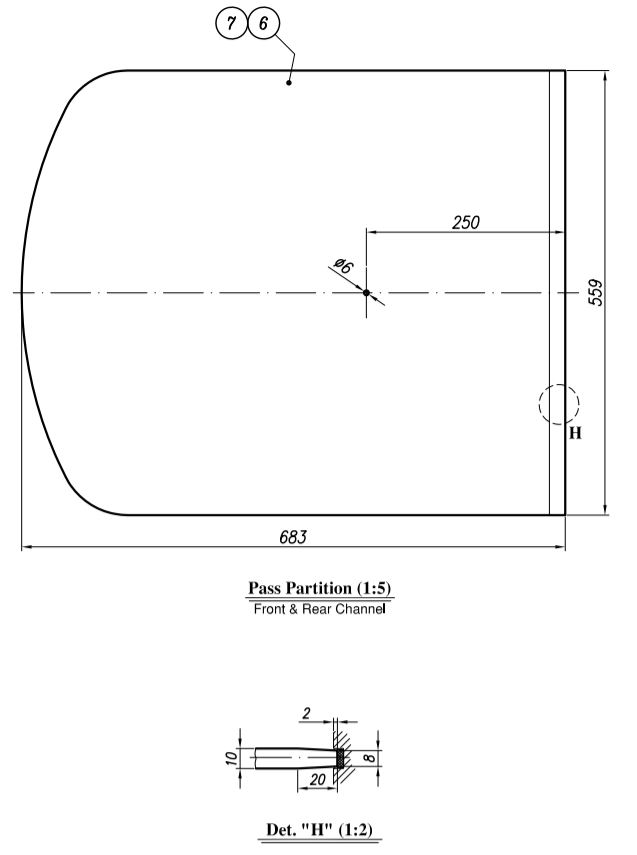
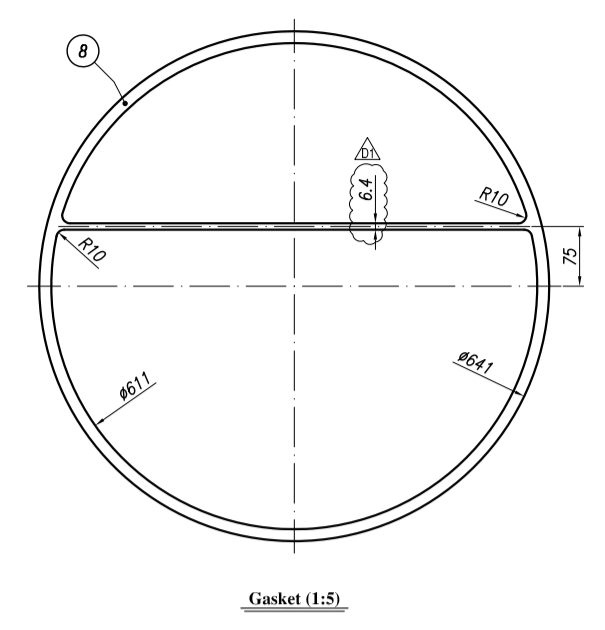
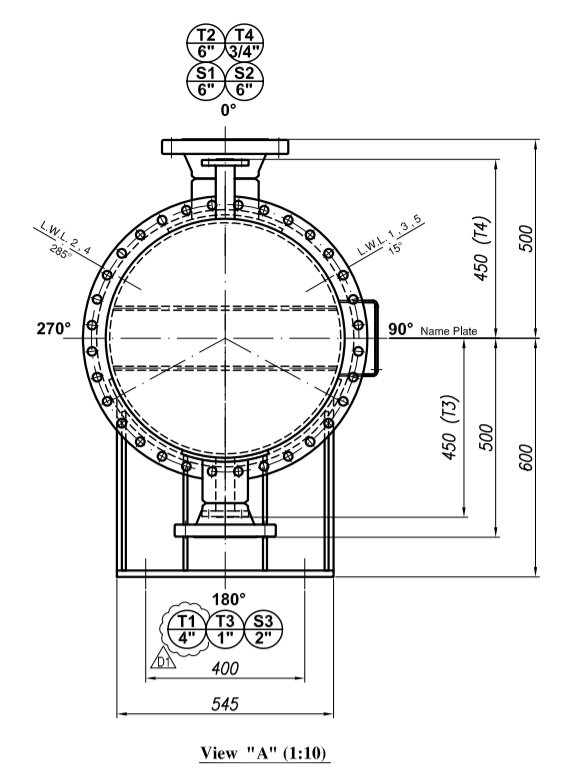
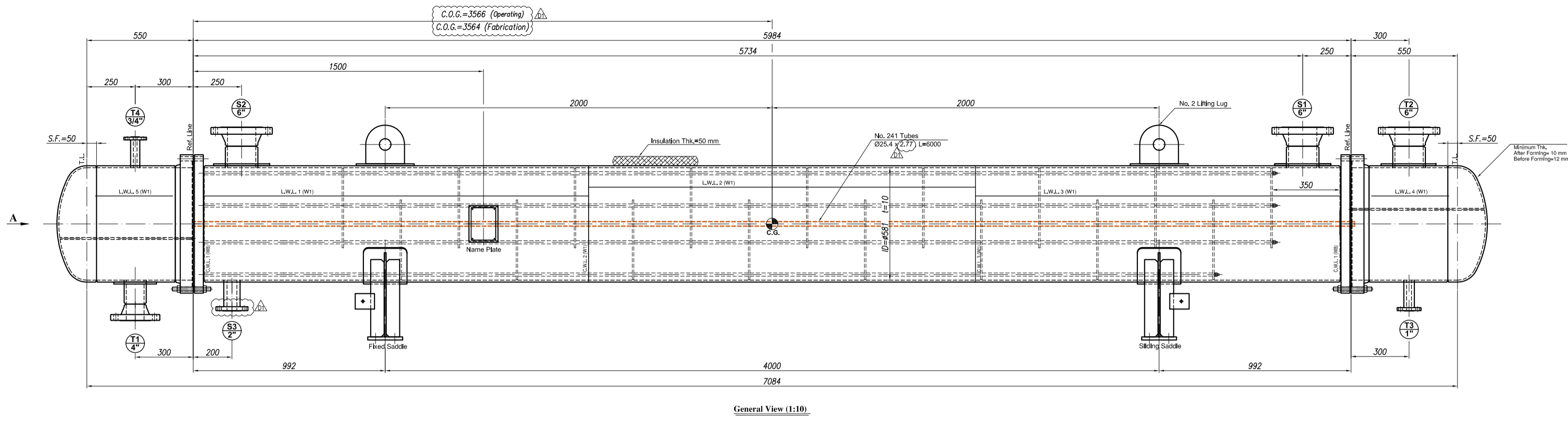
DOCUMENT No: DPIC9812-000-VD-1002-ME-DWG-0023

Rev. No.: D1

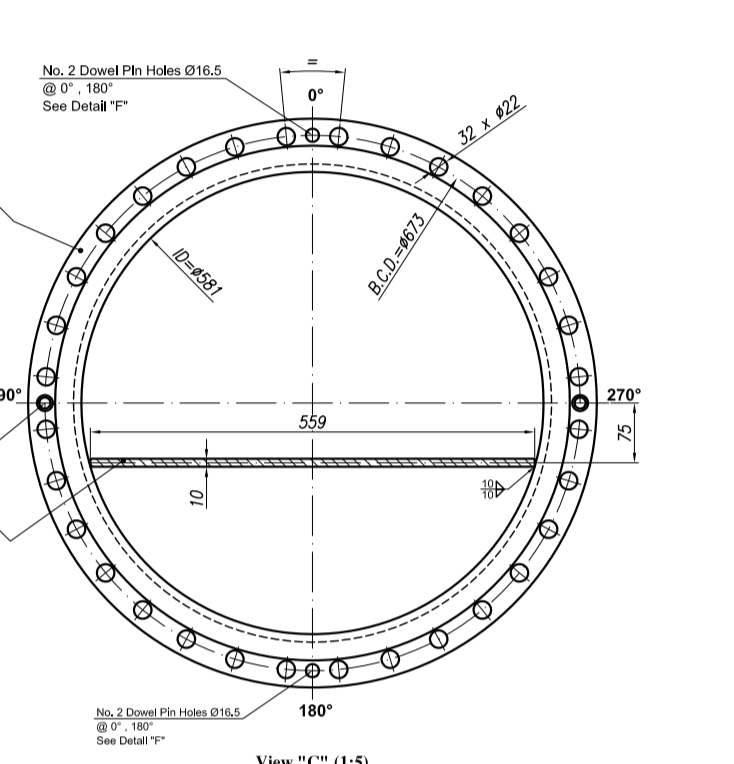
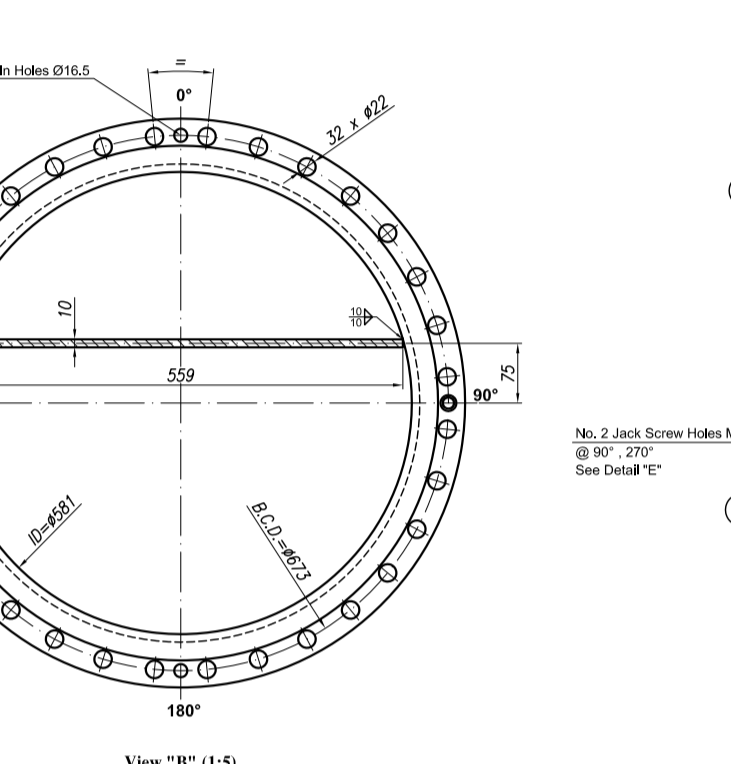
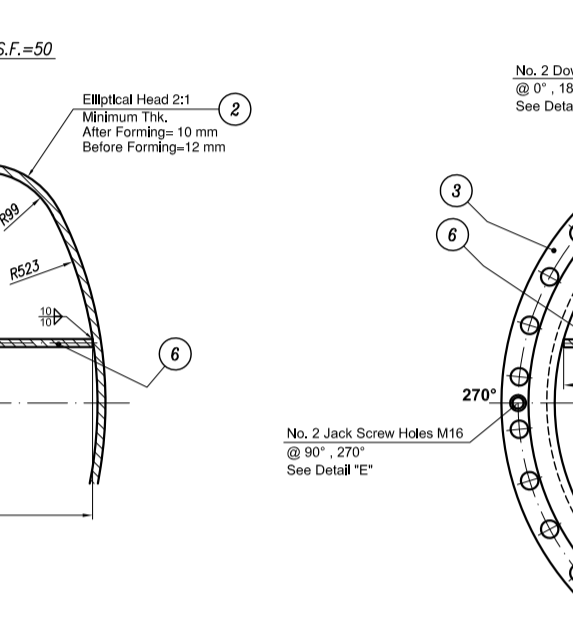
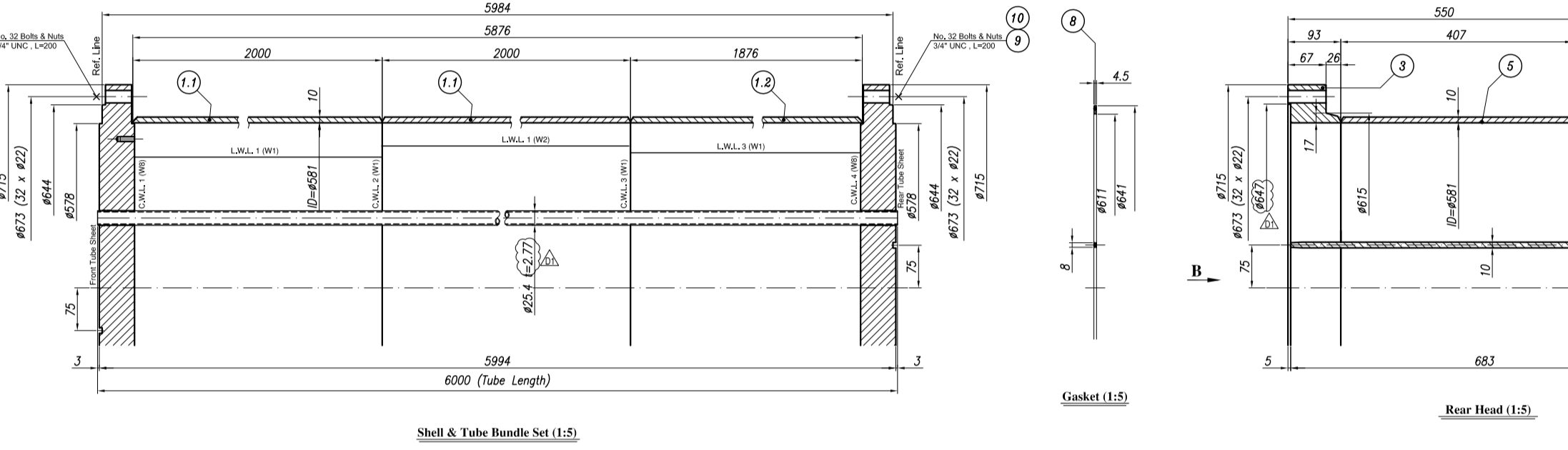
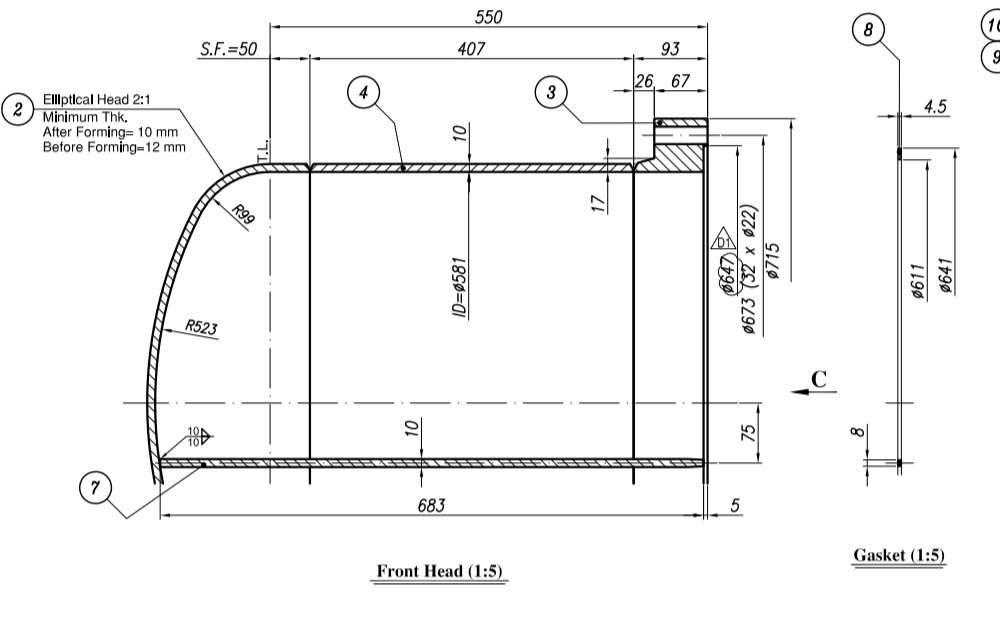
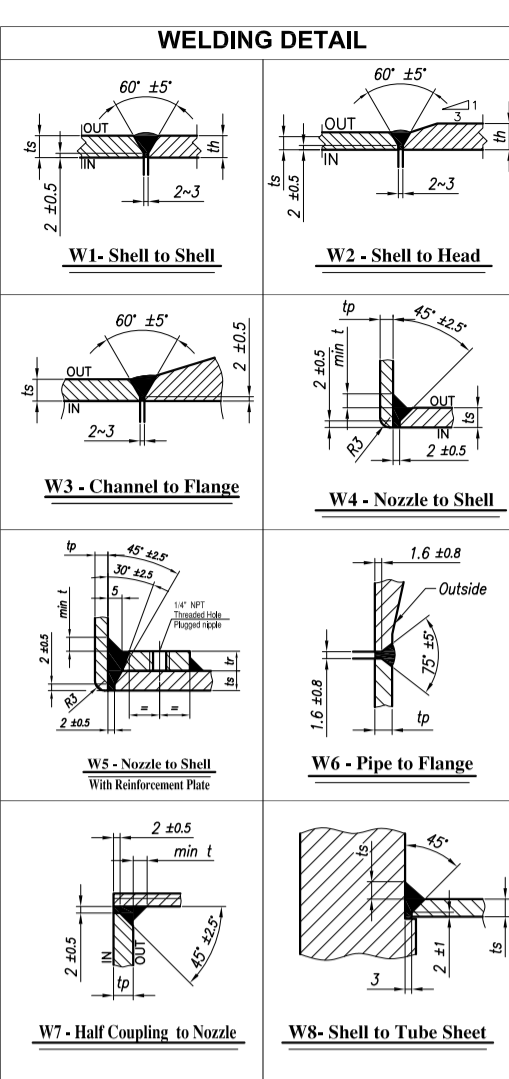
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Page	Rev-D0	Rev-D1	Rev-D2	Rev-D3	Rev-D4
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Det. "H" (1:2)



NOZZLE DATA

No.	Qty	Size	Material	Pressure	Temp.	Remarks
1	1	2"	SA 316 Gr. 304	10	150	Shell to Shell
2	1	2"	SA 316 Gr. 304	10	150	Shell to Head
3	1	2"	SA 316 Gr. 304	10	150	Channal to Flange
4	1	2"	SA 316 Gr. 304	10	150	Nozzle to Shell
5	1	2"	SA 316 Gr. 304	10	150	Nozzle to Shell
6	1	2"	SA 316 Gr. 304	10	150	Pipe to Flange
7	1	2"	SA 316 Gr. 304	10	150	Half Coupling to Nozzle
8	1	2"	SA 316 Gr. 304	10	150	Shell to Tube Sheet

MAX. ALLOWABLE NOZZLE LOADS TABLE

NOZZLE	MARK	SIZE	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS	CLASS
S1, S2, T2	1"	2"	3"	4"	6"	8"	10"	12"	14"
	1000	1500	2000	2500	3000	3500	4000	4500	5000

GENERAL NOTES

- All dimensions are in millimeters unless otherwise noted.
- Projection of nozzles are measured from flange face to center line of vessel or flange face to T.L.
- All elevations are measured from bottom T.L. unless otherwise specified.
- Shell holes for flanges shall be provided to equipment manufacturer.
- Shell thickness is minimum after forming thickness of straight length of elliptical heads shall be in no case smaller than vessel shell required thickness.
- Gasket material: Jacketed Metal Stainless Steel, graphite fiber, 3.2 mm TMA.
- Full radiographic examination shall be performed for nozzle necks made by plate.
- Flange face finishing shall be smooth with 125 micron inch minimum to 250 micron inch maximum as per ASME B16.5 for 24" and less. Also ASME B16.47 SERIES B for more than 24".
- Finishing & marking of bases and spare parts shall be done by vendor.
- Test pressure calculated as per IS 2950 (50).
- All steel bolts shall be supplied to specification: ASTM A307-33 TYPE 2.
- Finishing: Micro ZINCITE, SILICATE UP TO 200C SA3 Surface Prep Partion SA3.
- A reduction scalar factor of 0.7 and 0.6 is considered in the calculation of subcritical and subcritical respectively.

LOADING DATA AT BASE

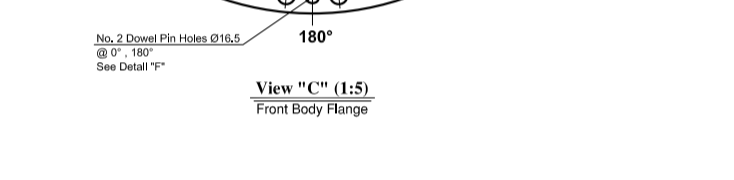
MOBILITY	LOAD (kN)	MO	ML	MR	MS
SHIPPING	11.48	1.48	1.48	1.48	1.48
OPERATING	3.66	3.66	3.66	3.66	3.66

WEIGHTS

OPERATING WEIGHT (kg)	NET WEIGHT (kg)	NET WEIGHT (kg)	NET WEIGHT (kg)
572	572	572	572

PARTS LIST

NO.	PART NAME	MATERIAL	DIMENSION	QTY	REMARK
1.1	Shell (Plate)	SA 316 Gr. 304	2000 x 1857 x 10	2	2892.578
1.2	Shell (Plate)	SA 316 Gr. 304	2000 x 1857 x 10	1	2711.271
2	Ellip. Head 2:1	SA 316 Gr. 304	1857 x 1857 x 10	2	48.95
3	Front & Rear Body Flange	SA 300 LF2	1857 x 1857 x 10	2	48.136
4	Front Channal (Plate)	SA 316 Gr. 304	1857 x 10	1	59.59
5	Rear Channal (Plate)	SA 316 Gr. 304	1857 x 10	1	59.59
6	Pass Partition (Plate)	SA 316 Gr. 304	1857 x 10	1	28.28
7	Pass Partition (Plate)	SA 316 Gr. 304	1857 x 10	1	28.28
8	Gasket Front & Rear Jacketed Metal	OSG 4 x OS11	1857	2	- See DWG 3
9	Shell Bolt	SA 307-33	M16 x L=20	84	0.45
10	Hex. Nut	SA 307-33	M16	138	0.88
11	Jack Screw	SA 307-33	M16 x L=20	4	0.2
12	Down Pin	SA 36	16 x 160	8	0.6
13	Tube	SA 334 Gr. 6	102.54 (402.77) L=6000	241	12.173538" B.I.L.G. U
14	Front Tube Sheet	SA 300 LF2	1857	1	115.115
15	Rear Tube Sheet	SA 300 LF2	1857	1	115.115
16	Buttfls	SA 316 Gr. 304	412 x 576	16	7.119
17	The rod	SA 36	10 x L=515	6	3.3
17.2	The rod	SA 36	10 x L=515	2	3.3
18.1	Spacer Pipe	SA 333 Gr. 6	102.54 x 102.54 x 10	2	0.86
18.2	Spacer Pipe	SA 333 Gr. 6	102.54 x 102.54 x 10	6	0.6
18.3	Spacer Pipe	SA 333 Gr. 6	102.54 x 102.54 x 10	30	0.5
18.4	Spacer Pipe	SA 333 Gr. 6	102.54 x 102.54 x 10	64	0.25
19	Hex. Nut	SA 307-33	M16	116	0.72
20	Lifting Lug (Plate)	SA 316 Gr. 304	200 x 200 x 10	2	2.4
20.2	Lifting Lug Pad (Plate)	SA 316 Gr. 304	100 x 100 x 10	2	2.4
21	Base Plate (Plate)	SA 285 Gr. C	180 x 545 x 16	1	10.10
22	Base Plate (Plate)	SA 285 Gr. C	180 x 545 x 16	1	10.10
23	Web Plate	SA 285 Gr. C	70 x 450 x 10	2	13.2724
24	Rib Plate	SA 285 Gr. C	70 x 450 x 10	8	1.8
25	Rib Plate	SA 285 Gr. C	70 x 450 x 10	8	1.8
26	Wear Plate	SA 316 Gr. 304	225 x 70 x 10	2	12.4248
27	Earth Lug	SA 300 LF2	100 x 100 x 10	2	0.4
28	Sliding Saddle	SA 316 Gr. 304	35 x 10	1	13.20
29	DELETED	-	-	-	-
30	DELETED	-	-	-	-
31	Flange (S1 S2 T2)	SA 300 LF2	1857	3	19.57
32	Flange (S1 S2 T2)	SA 300 LF2	1857	3	19.57
33	Pad	SA 316 Gr. 304	100 x 100 x 10	3	3.2
34	Pad	SA 316 Gr. 304	100 x 100 x 10	3	3.2
35	Flange (T1)	SA 300 LF2	1857	1	11.11
36	Flange (T1)	SA 300 LF2	1857	1	11.11
37	Pad	SA 316 Gr. 304	100 x 100 x 10	1	2.3
38	Flange (S3)	SA 300 LF2	1857	1	8
39	DELETED	-	-	-	-
40	DELETED	-	-	-	-
41	Flange (T4)	SA 300 LF2	1857	1	1.5
42	Flange (T4)	SA 300 LF2	1857	1	1.5



LOADING DATA AT BASE

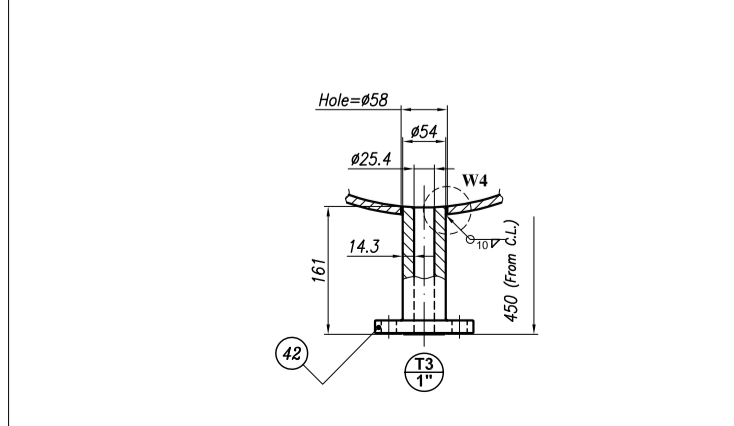
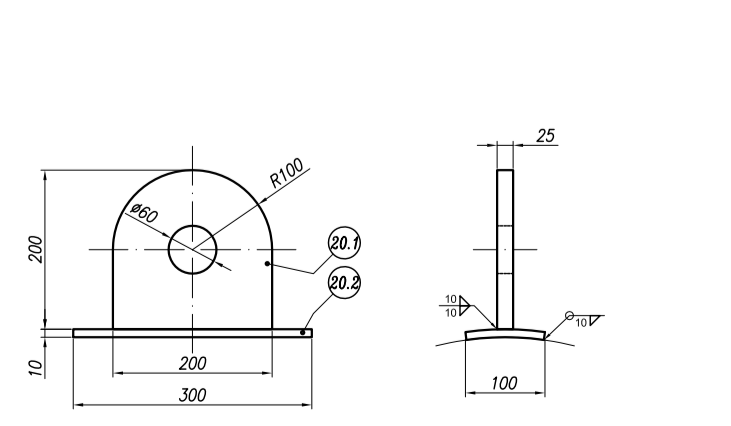
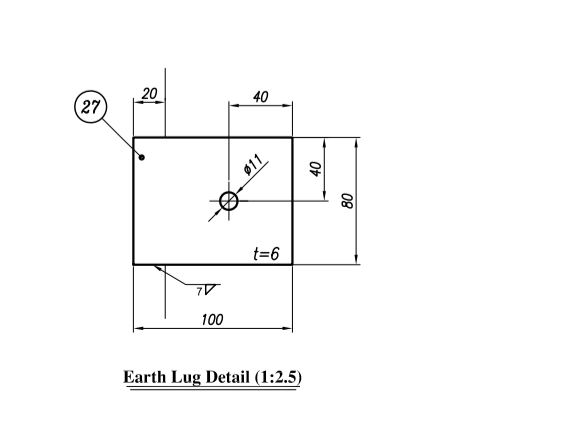
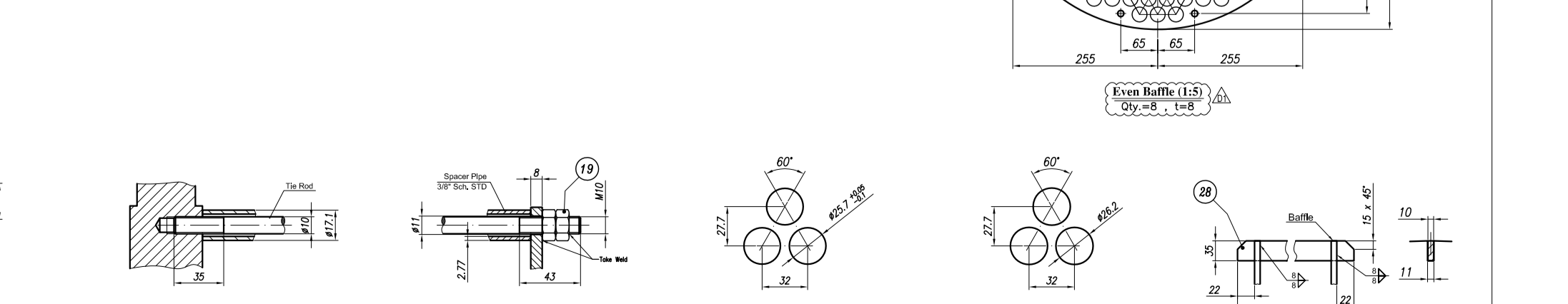
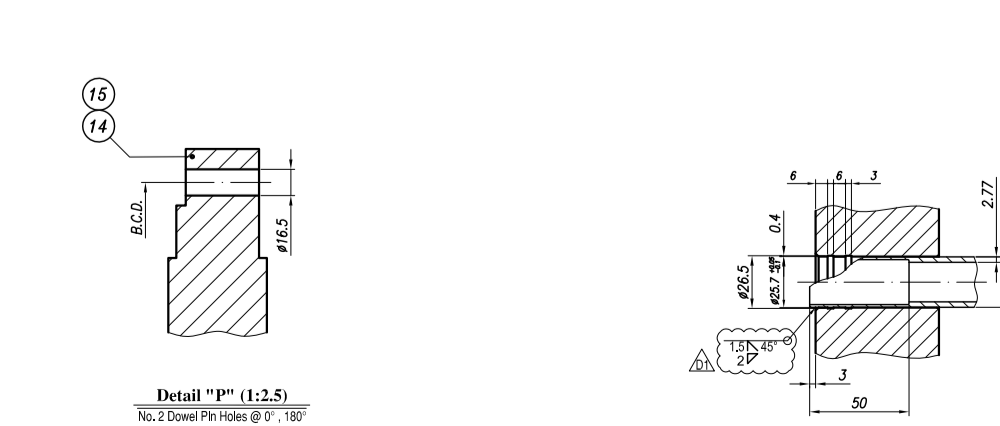
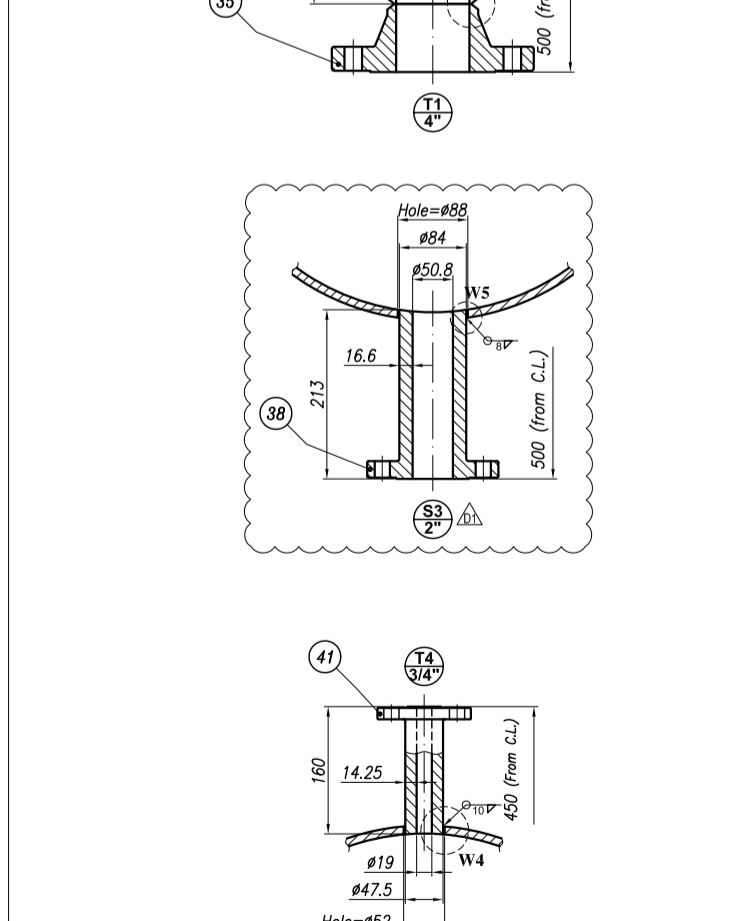
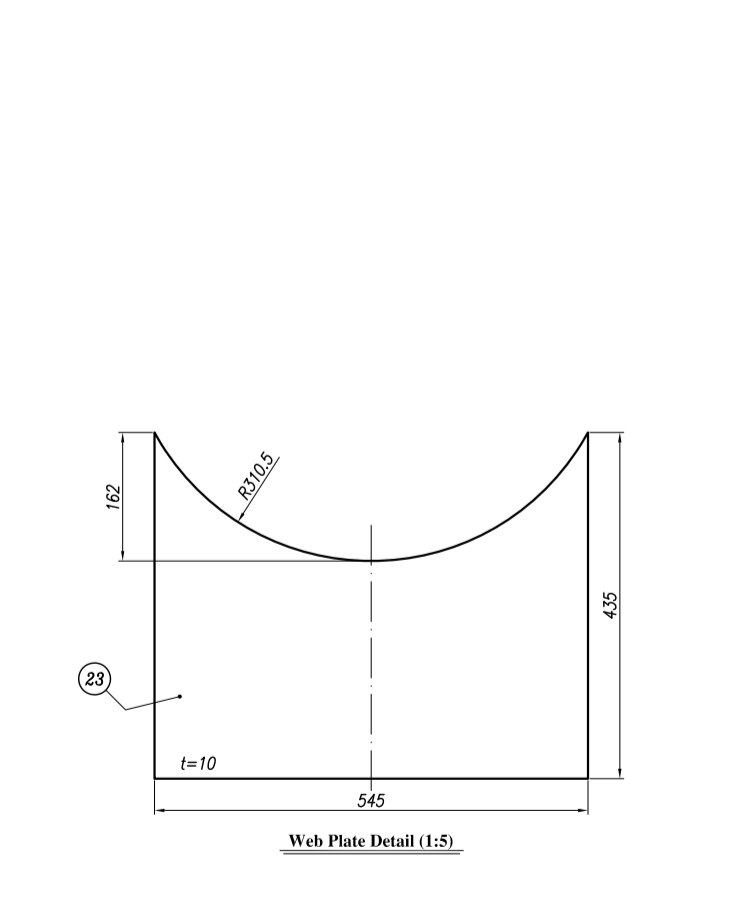
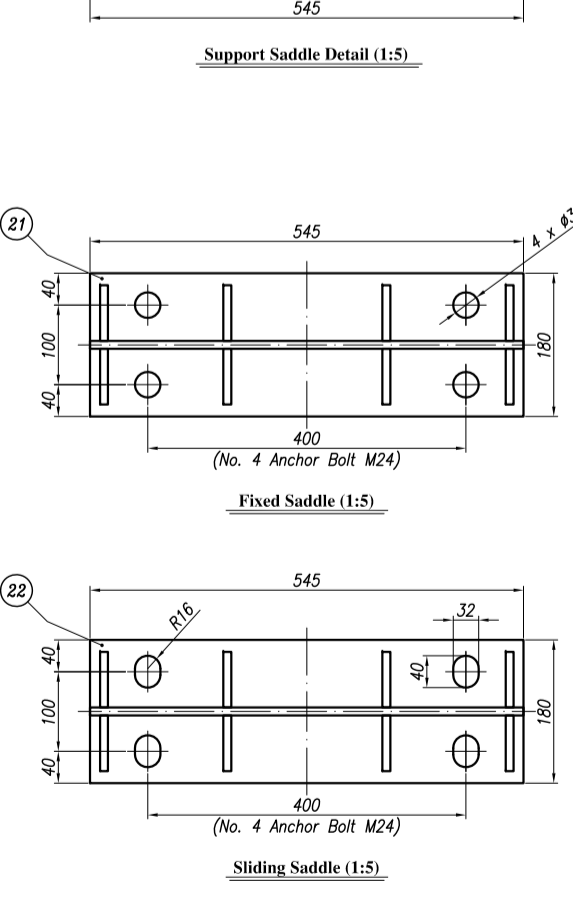
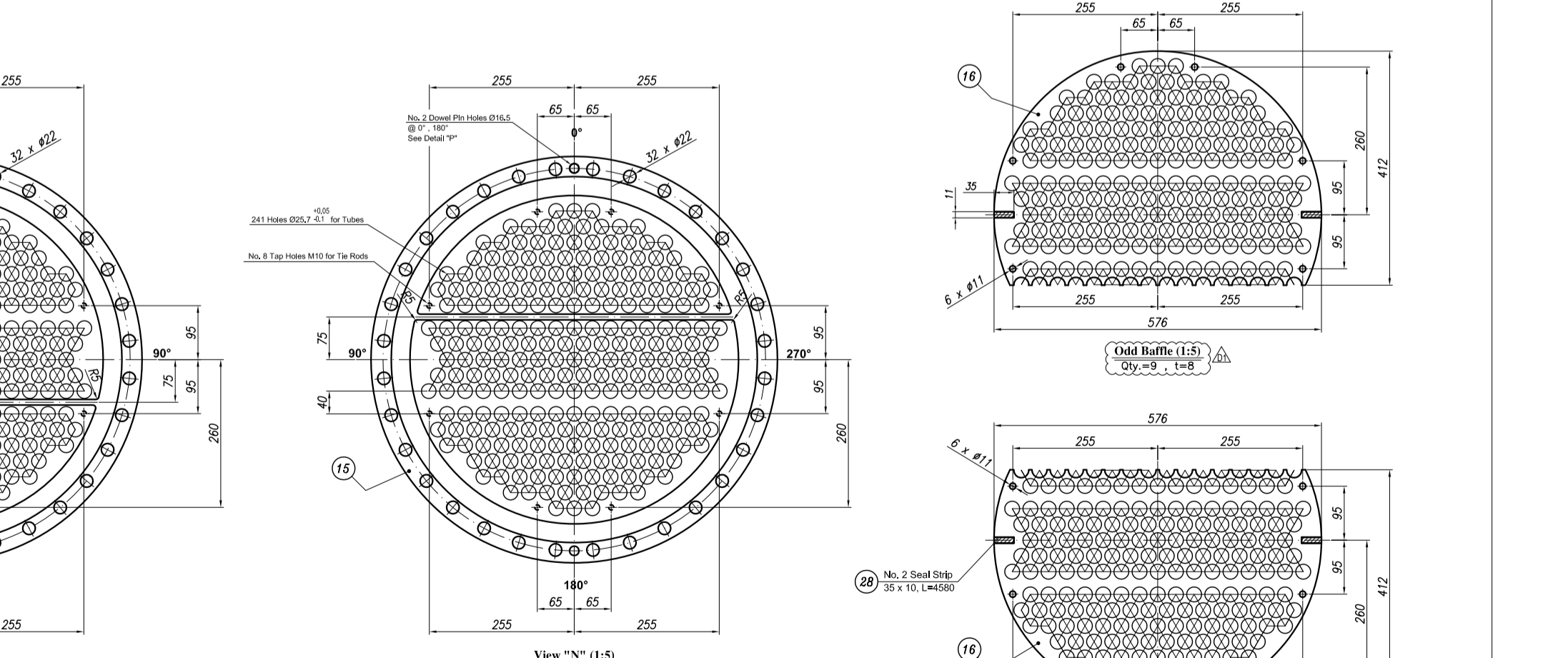
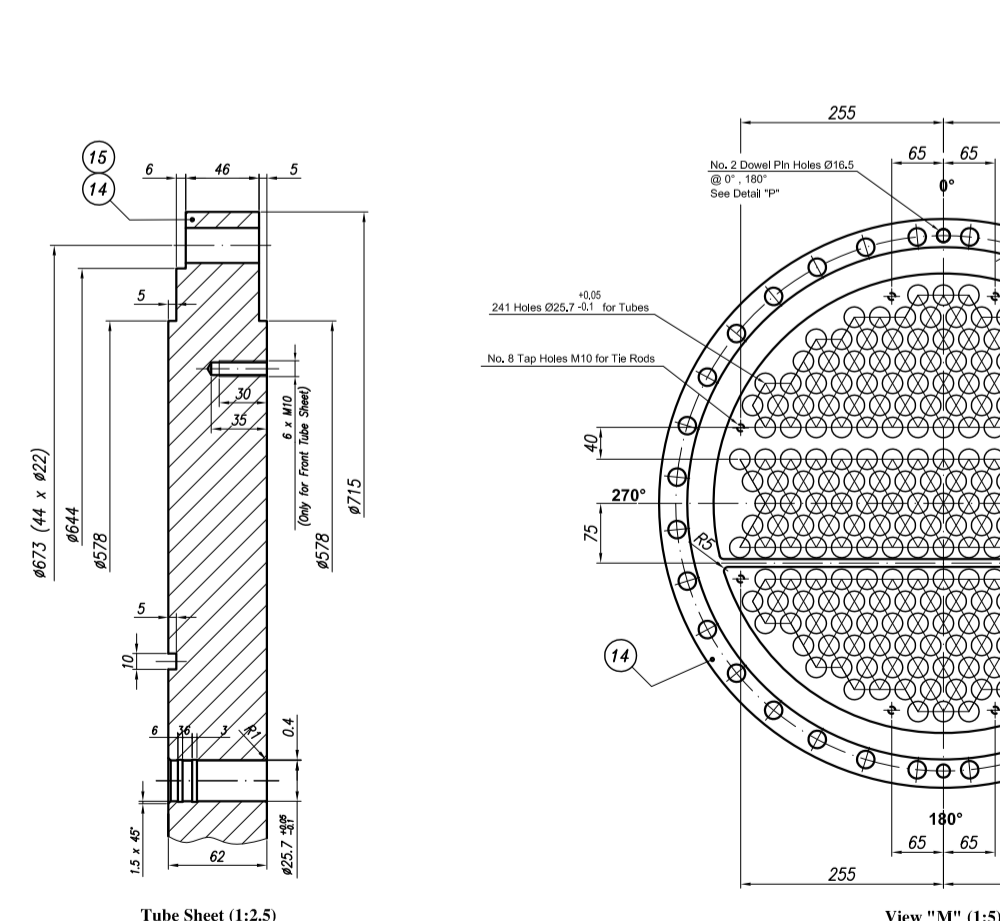
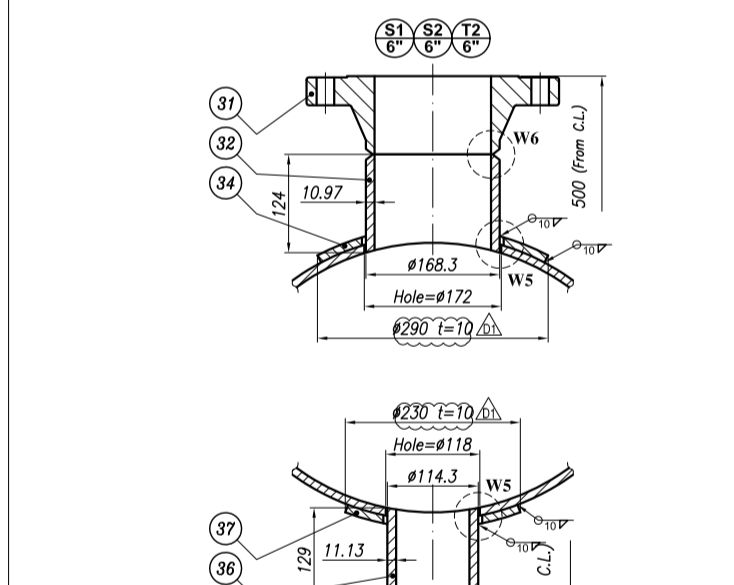
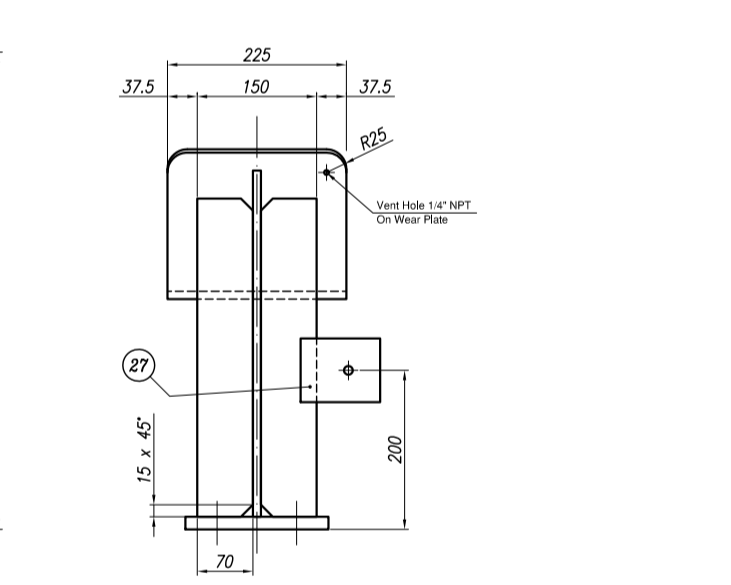
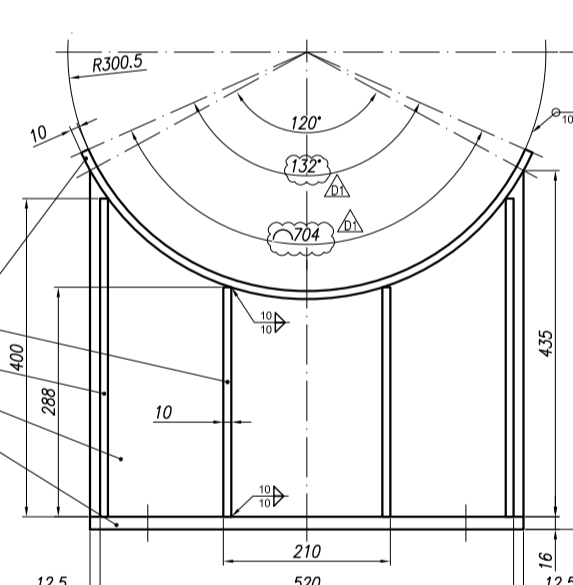
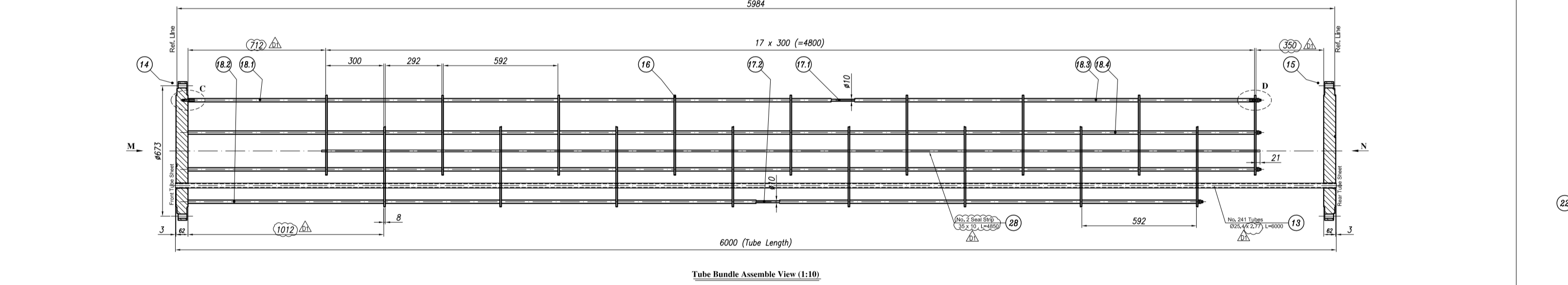
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Color Mark

Color	Mark
RED	0.10
YEL	0.20
GRN	0.30
CYA	0.40
BLU	0.50
MAG	0.60
WHY	0.70
8	0.80
9	0.90
10	1.00
11	1.10
12	1.20
13	1.30
14	1.40
15	1.50
16	1.60
17	1.70
18	1.80
19	1.90
20	2.00

CLIENT: MC

CONTRACTOR: KASRAVAND

PROJECT TITLE: DEHDASHT PETROCHEMICAL INDUSTRY COMPANY DEHDASHT HIGH DENSITY POLYETHYLENE PROJECT

DRAWING TITLE: ECONOMIZER DRAWING (E-PK6101-3)

DOCUMENT NO: DPIC3812-000-VD-1002-ME-DWG-0023

SIZE: A0

Proj. Code: Area No. 00 Material Code PD No. 000 Cook No. 000 Rev. No. 000

DPIC3812 000 VD 1002 4150 ME DWG 0023 D1 3 OF 3

PURCHASER'S COMMENT/APPROVAL:

PURCHASER:

DATE:

REV. DATE:

DESCRIPTION: