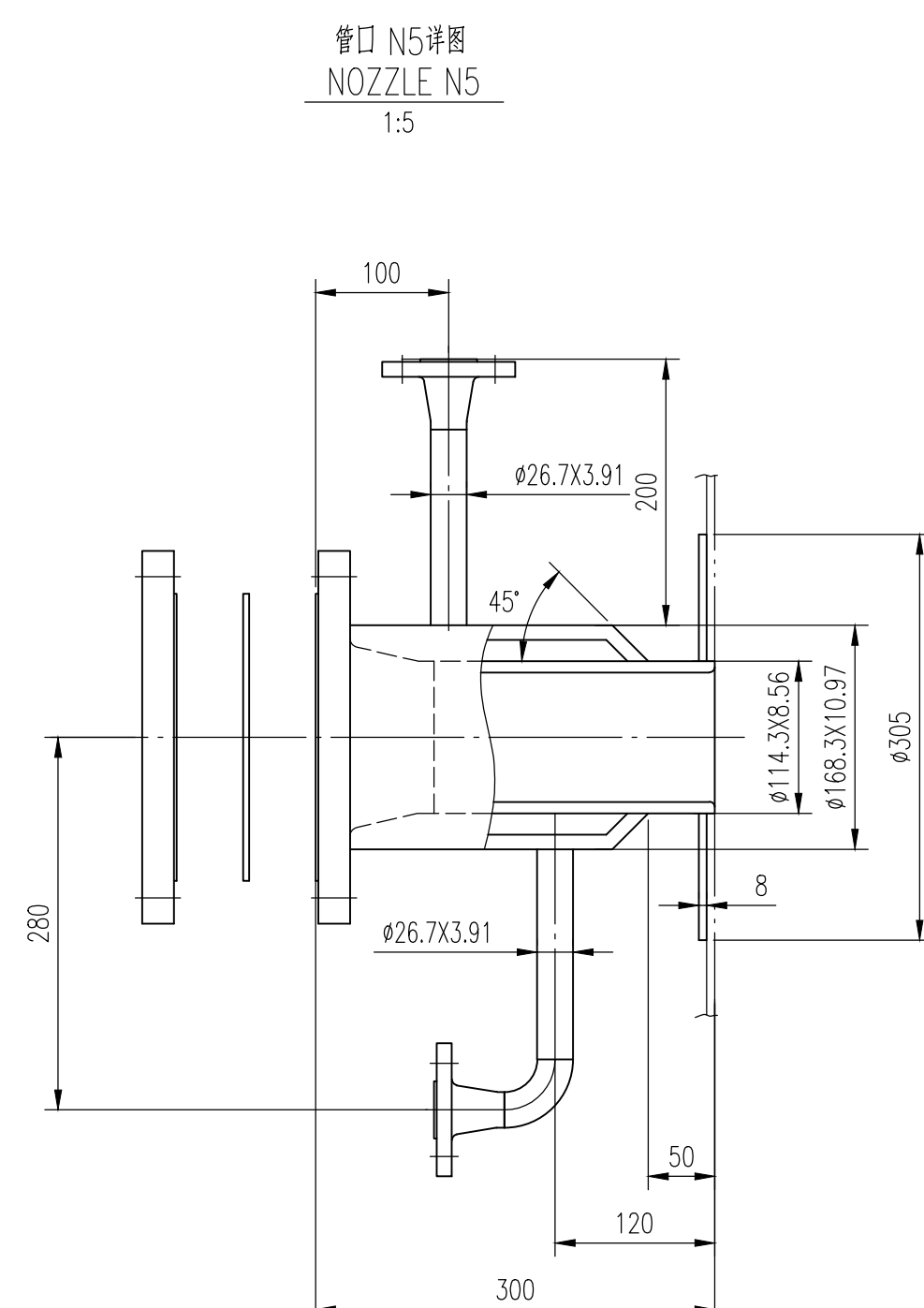
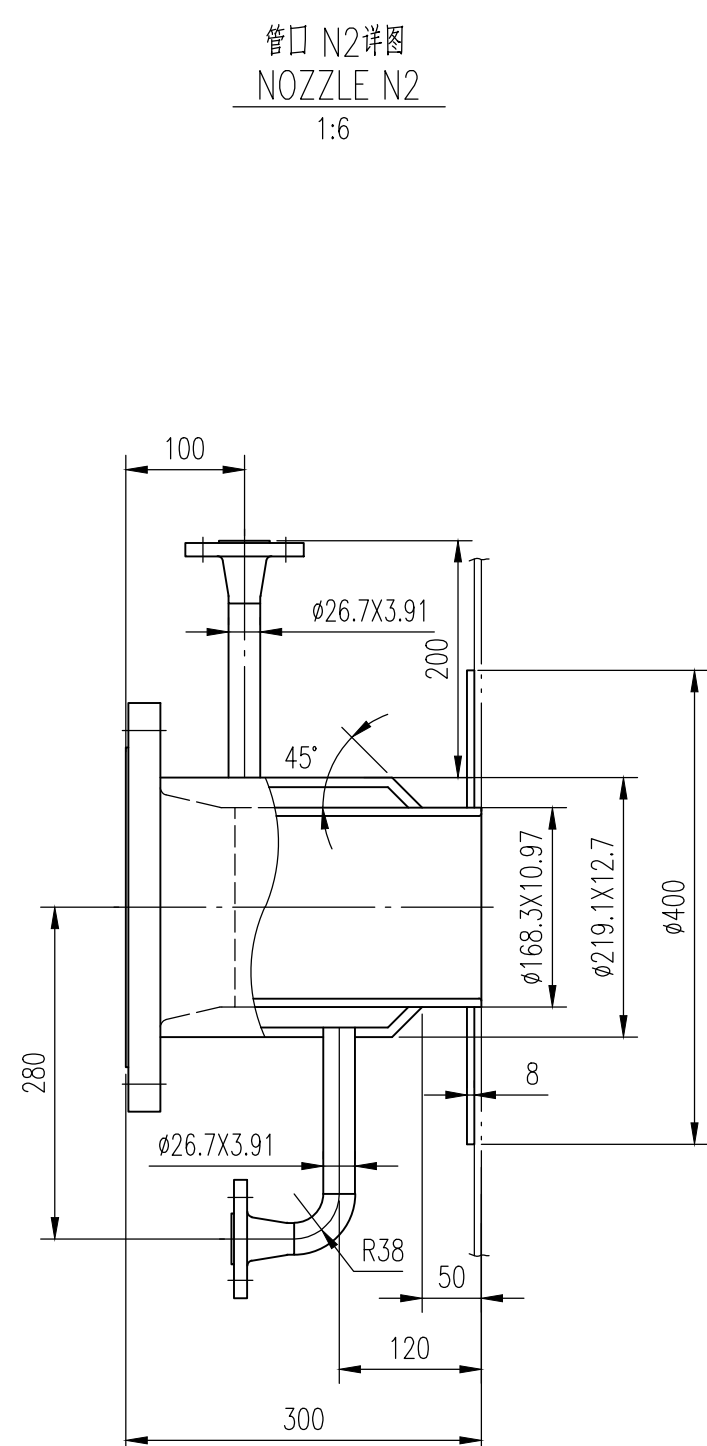
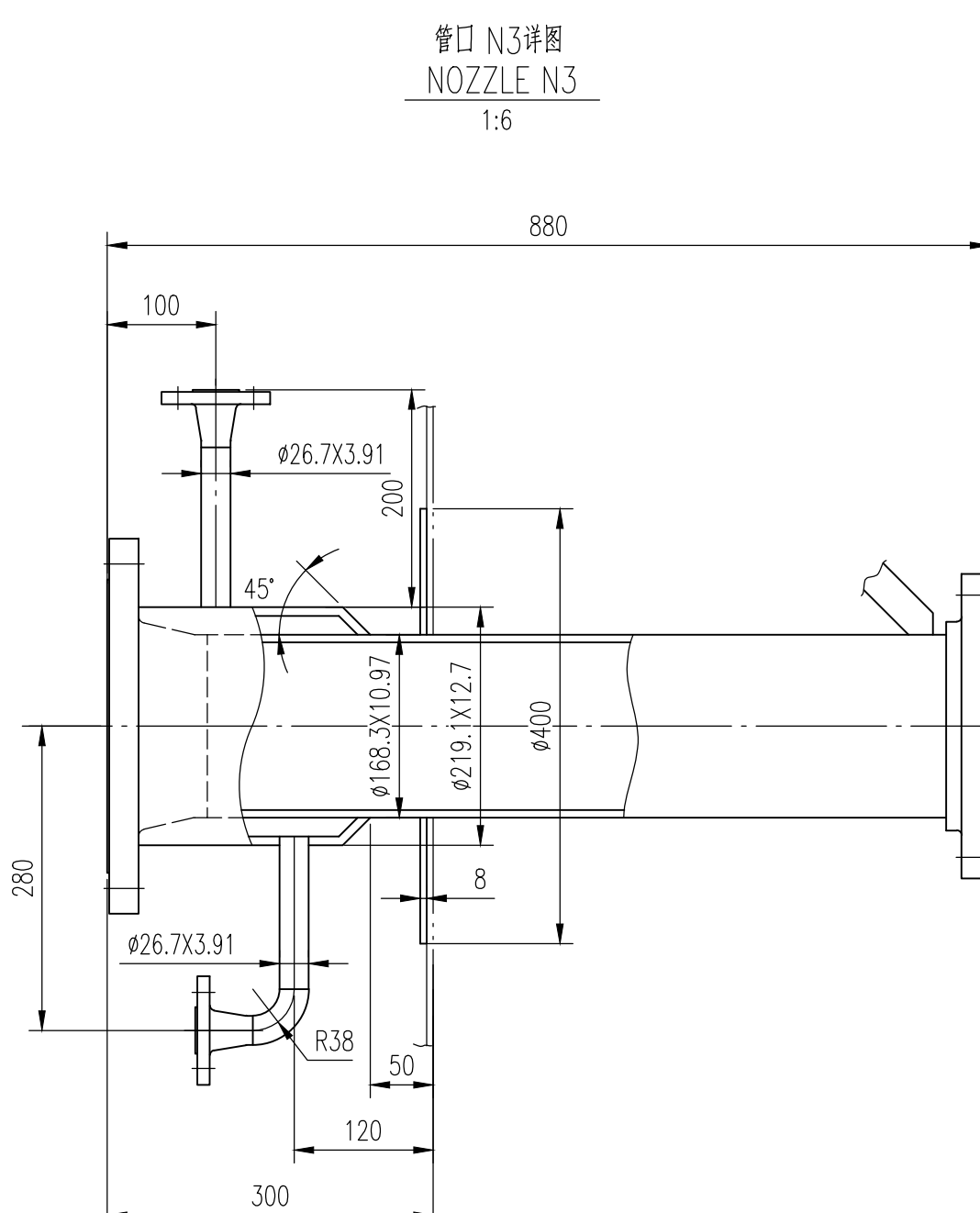
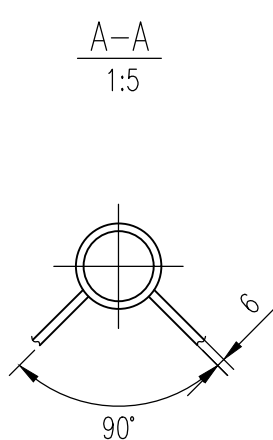
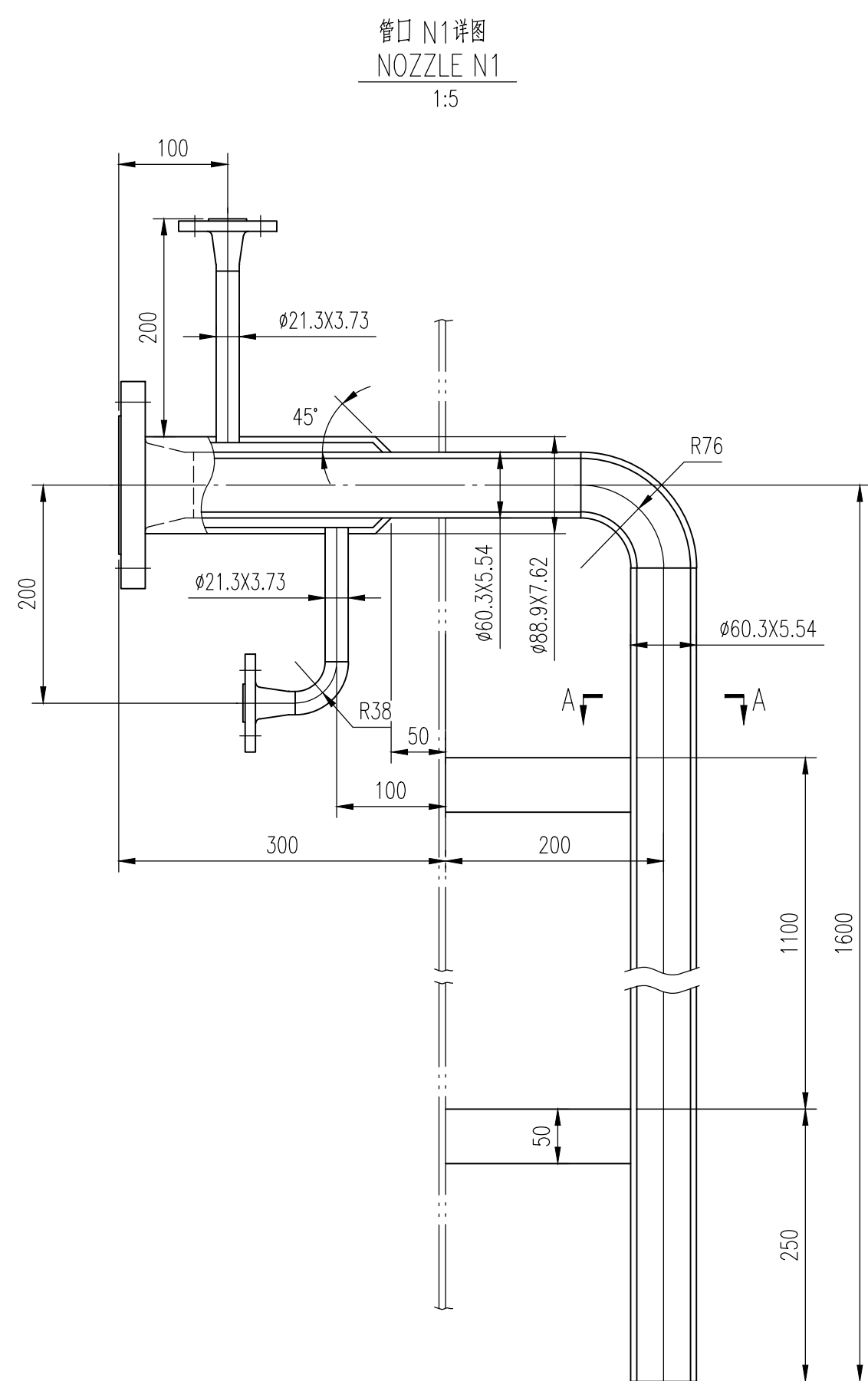
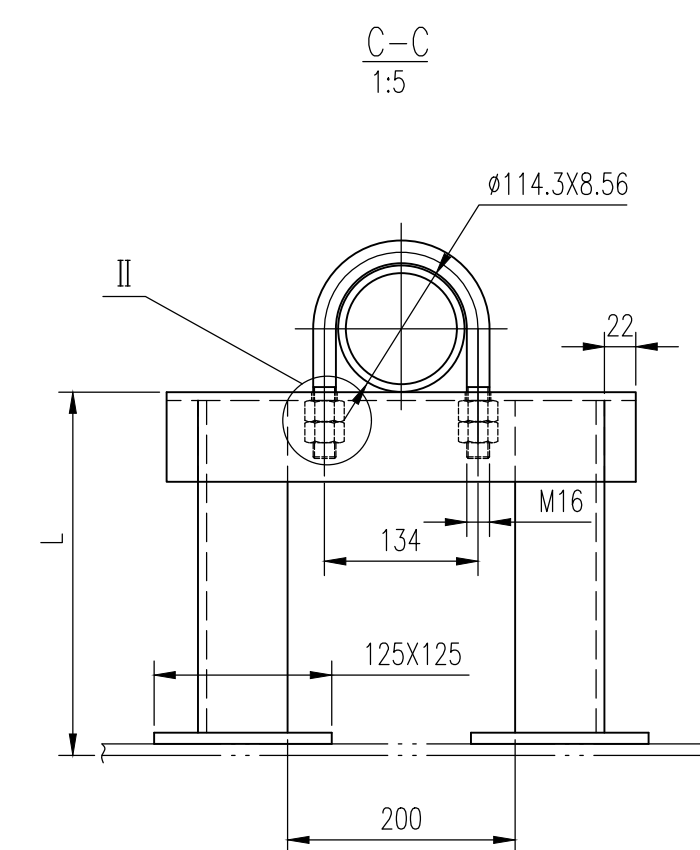
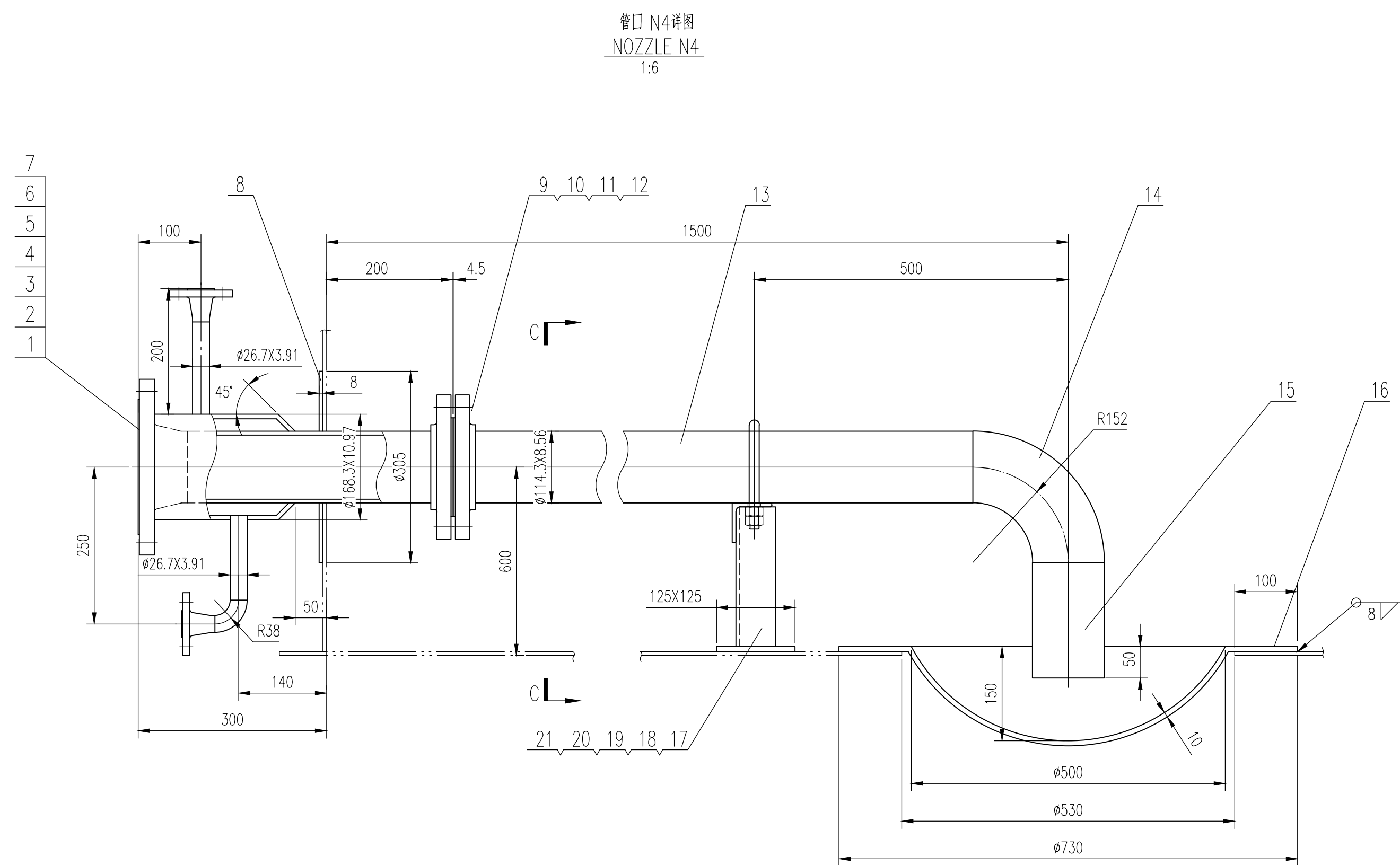


设计制造检验主要数据表 DESIGN/FABRICATION/INSPECTION DATA									
标准规范 STANDARD AND CODE					设计参数 DESIGN DATA				
<div>● 立式圆筒形钢制焊接储罐设计规范 GB 50341—2014 CODE FOR DESIGN OF VERTICAL CYLINDRICAL WELDED STEEL OIL TANKS</div> <div>● 立式圆筒形钢制焊接储罐施工规范 GB 50128—2014 CODE FOR CONSTRUCTION OF VERTICAL CYLINDRICAL WELDED STEEL OIL TANKS</div>					设计压力 DESIGN PRESSURE kg/cm ² 0.051/-0.0051 工作压力 OPERATING PRESSURE kg/cm ² 0.01 设计温度 DESIGN TEMPERATURE °C 230 操作温度 OPERATING TEMPERATURE °C 144/150 储存介质 STORAGE FLUID NPG 凝液(注5) NPG MOLTEN LIQUID(NOTES)				
NB/T 47014-47015-2023, NB/T 47018.2-2017, GB/T 324-2008 E308-16(S30408)					设计密度 DESIGN DENSITY kg/m ³ 886.6-892.9 介质特性 FLUID CHARACTERISTIC 中度危险/易燃 MODERATE TOXIC/INFLAMMABLE				
注5: 除非另有说明, 焊接罐的附尺寸按表要求, 注5与接管规格标注的公称规格一致 OTHERWISE SPECIFIED IN THE DRAWING, CONTINUOUS WELD SHALL BE PERFORMED, THE LEG OF FILLET WELDS SHALL BE EQUAL TO THE THINNER PLATE, THE WELDING OF FLANGE SHALL BE IN ACCORDANCE WITH RELEVANT STANDARD					焊接接头系数 JOINT EFFICIENCY OF SHELL 公称容积 NOMINAL VOLUME m ³ 200 最大储存容量 MAXIMUM CAPACITY m ³ 192				
检测技术等级、检测范围及合格级别 EXAMINATION TECHNIQUE LEVEL, LOCATION OF INSPECTION & ACCEPTABLE CLASS					腐蚀裕量 CORROSION ALLOWANCE mm 0				
焊接接头类型 JOINT CATEGORY 按规范和图纸要求 AS PER CODE AND DRAWING					罐壁: 底圈 0.85/其他 0.9 SHELL: BOTTOM 0.85/OTHER 0.9				
罐壁焊接接头 JOINT OF BOTTOM 按规范和图纸要求 AS PER CODE AND DRAWING					公称容积 NOMINAL VOLUME m ³ 200				
罐底焊接接头 JOINT OF SHELL 按规范和图纸要求 AS PER CODE AND DRAWING					最大储存容量 MAXIMUM CAPACITY m ³ 192				
角接+埋弧焊 TJ JOINT OF FILLET WELD 按规范和图纸要求 AS PER CODE AND DRAWING					基本风速 REFERENCE WIND PRESSURE Pa 400				
密封性试验 LEAKAGE TEST 罐底焊接接头, 真空箱法 (-5.3kPa) JOINT OF BOTTOM, VACUUM BOX (-5.3kPa)					基本雪压 REFERENCE SNOW PRESSURE Pa 0				
最高试验液位 MAX. TEST HEIGHT mm 5600					地面粗糙度 TERRAIN ROUGHNESS A 7(0.15g)				
充水试验 HYDROSTATIC TEST 静压试验压力 PRESSURE OF PROOF PRESSURE TEST kg/cm ² 0.064 固定顶气密性试验压力 FIXED ROOF PNEUMATIC TEST PRESSURE kg/cm ² 0.051 固定顶稳定性试验压力 FIXED ROOF STABILITY TEST PRESSURE kg/cm ² -0.015					设计地震分组 DESIGN SEISMIC GROUP 第三组 GROUP 3				
净重 NET WEIGHT kg 18500 其中 INCLUDING kg --					正常操作 NOR.OPERATING kg -- 最大操作 MAX.OPERATING kg -- 充水 FILL OF WATER kg 192000				
内件 INTERNAL kg 2500(保温) 2500(4 THERMAL INSULATION) 外附件 EXTERNAL kg -- 其他 OTHER kg --					呼吸阀/泄放装置 BREATHING VALVE / RELIEF DEVICE 热处理要求 HEAT TREATMENT 罐壁外压试验压力 kg/cm ² --				
注: 1. NB/T 47013.1-47013.2-2015(含修改), NB/T 47013.3-2023, NB/T 47013.4-47013.5-2015, NB/T 47013.10-2015 NB/T 47013.1-47013.2-2015 (including amendment order), NB/T 47013.3-2023, NB/T 47013.4-47013.5-2015, NB/T 47013.10-2015					呼吸阀/泄放装置 BREATHING VALVE / RELIEF DEVICE 热处理要求 HEAT TREATMENT 罐壁外压试验压力 kg/cm ² --				
管口表 NOZZLE TABLE									
序号 SYMBOL	用途或名称 SERVICE	数量 QTY.	公称尺寸 NPS	公称压力 RATING	连接标准及形式 STANDARD AND TYPE/FACE	接管规格 PIPE SPECIFICATION	接管长度 PIPE LENGTH		
N1	进料口(内件) INLET (EXTENSION)	1	2X3	Class300	SH/T 3426 JWN/RF	ø60.3X5.54/ ø88.9X7.62	3600		
N2	出料口 OUTLET	1	6X8	Class150	SH/T 3426 JWN/RF	ø168.3X10.97/ ø219.1X12.7	3600		
N3	卸油口(内件) DISCHARGE CONNECTION (DISCHARGE)	1	6X8	Class150	SH/T 3426 JWN/RF	ø168.3X10.97/ ø219.1X12.7	3600		
N4	导油口 DRAIN	1	4X6	Class150	SH/T 3426 JWN/RF	ø114.3X8.56/ ø168.3X10.97	3600		
N5	备用口(管法兰) SPARE CONNECTION(W/B)	1	4X6	Class150	SH/T 3426 JWN/RF	ø114.3X8.56/ ø168.3X10.97	3600		
N6	密封气入口 SEALING SEALED AIR INLET	1	1-1/2X3/4	Class300	SH/T 3426 JWN/RF	ø48.3X5.08/ ø68.9X7.62	见图 SEE DRAWING		
N7	单作用阀 SINGLE-ACTING VALVE	1	3	Class150	ASME B16.5 WN/RF	ø88.9X7.62	见图 SEE DRAWING		
N8	呼吸阀 BREATHING VALVE	1	4	Class150	ASME B16.5 WN/RF	ø114.3X8.56	见图 SEE DRAWING		
N9	紧急人孔 EMERGENCY MANHOLE	1	24	Class150	ASME B16.5 WN/RF	ø60.3X5.54/ ø88.9X7.62	见图 SEE DRAWING		
LG1/2	罐底液相出口(管法兰) LG CONNECTION(W/B)	2	2X3	Class150	SH/T 3426 JWN/RF	ø60.3X5.54/ ø88.9X7.62	3600		
LG3/4	罐底液相出口(管法兰) LG CONNECTION(W/B)	2	2X3	Class150	SH/T 3426 JWN/RF	ø60.3X5.54/ ø88.9X7.62	3600		
LT1/2	气相液相出口(管法兰) LG CONNECTION(W/B)	2	3X6	Class150	SH/T 3426 JWN/RF	ø88.9X7.62/ ø168.3X10.97	3600		
T1	罐底液相出口(管法兰) TG CONNECTION(W/B)	1	1-1/2	Class150	ASME B16.5 WN/RF	ø48.3X5.08	3500		
T2	罐底液相出口(管法兰) TI CONNECTION(W/B)	1	1-1/2	Class150	ASME B16.5 WN/RF	ø48.3X5.08	3500		
P1	罐底液相出口(管法兰) PG CONNECTION(W/B)	1	2X3	Class300	SH/T 3426 JWN/RF	ø60.3X5.54/ ø88.9X7.62	见图 SEE DRAWING		
P2	罐底液相出口(管法兰) PI CONNECTION(W/B)	1	2X3	Class300	SH/T 3426 JWN/RF	ø60.3X5.54/ ø88.9X7.62	见图 SEE DRAWING		
F	消防孔 DRAIN	1	2-1/2	Class150	ASME B16.5 WN/RF	ø73X7.01	3450		
M1	罐壁人孔 CAN WALL MANHOLE	1	24	PN16	HG/T 21521 WN/RF	ø60.3X12	按标准 AS PER CODE		
M2	罐顶人孔 TOP MANHOLE	1	20	PN16	HG/T 21518 WN/RF	ø50.3X12	H1=350		
A1~12	罐顶外盘管蒸汽入口 TOP OUTER COIL STEAM INLET	12	1	Class300	ASME B16.5 WN/RF	ø33.4X4.55	见图 SEE DRAWING		
B1~12	罐顶外盘管蒸汽入口 TOP OUTER COIL STEAM INLET	12	1	Class300	ASME B16.5 WN/RF	ø33.4X4.55	见图 SEE DRAWING		
C1~6	罐壁液相出口(管法兰) SHELL WALL LIQ. PPG STEAM INLET	6	1-1/2	Class150	ASME B16.5 WN/RF	ø48.3X5.08	3500		
D1~6	罐壁液相出口(管法兰) SHELL WALL LIQ. PPG STEAM INLET	6	1-1/2	Class150	ASME B16.5 WN/RF	ø48.3X5.08	3500		
G1~2	罐底液相出口(管法兰) DM BOTTOM LIQ. STEAM INLET	2	2	Class150	ASME B16.5 WN/RF	ø60.3X5.54	3500		
H1~2	罐底液相出口(管法兰) DM BOTTOM LIQ. STEAM INLET	2	2	Class150	ASME B16.5 WN/RF	ø60.3X5.54	3500		
A1~5,7~12	伴热口 ACCOMPANYING HEAT INLET	11	注7 Note 7	Class150	ASME B16.5 WN/RF	注7 Note 7	见图 SEE DRAWING		
O1~5,7~12	伴热口 ACCOMPANYING HEATING EXPORT	11	注7 Note 7	Class150	ASME B16.5 WN/RF	注7 Note 7	见图 SEE DRAWING		
16,13,14	伴热口 ACCOMPANYING HEAT INLET	3	注7 Note 7	Class300	ASME B16.5 WN/RF	注7 Note 7	见图 SEE DRAWING		
06,13,14	伴热口 ACCOMPANYING HEATING EXPORT	3	注7 Note 7	Class300	ASME B16.5 WN/RF	注7 Note 7	见图 SEE DRAWING		
注: 1) 除图面另有注明外, 筒体上接管长度按设备中心线到法兰密封面的距离。 EXCEPT INDICATED ON THE DWG, THE PROJECTION IS THE DIMENSION FROM FLANGE SURFACE TO EQUIPMENT CENTER LINE.									
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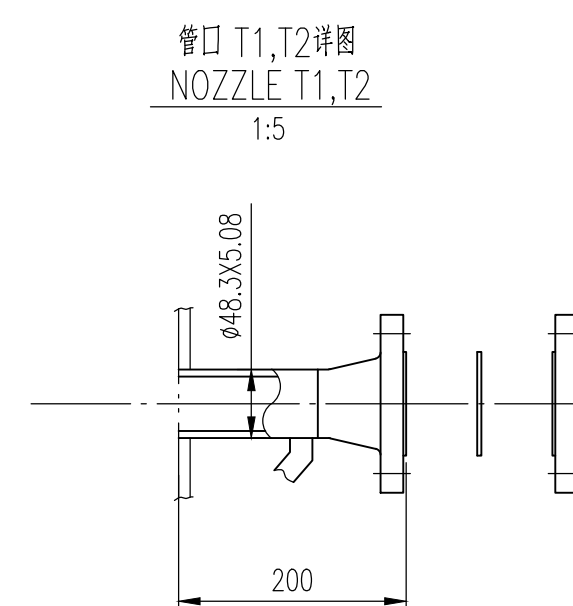
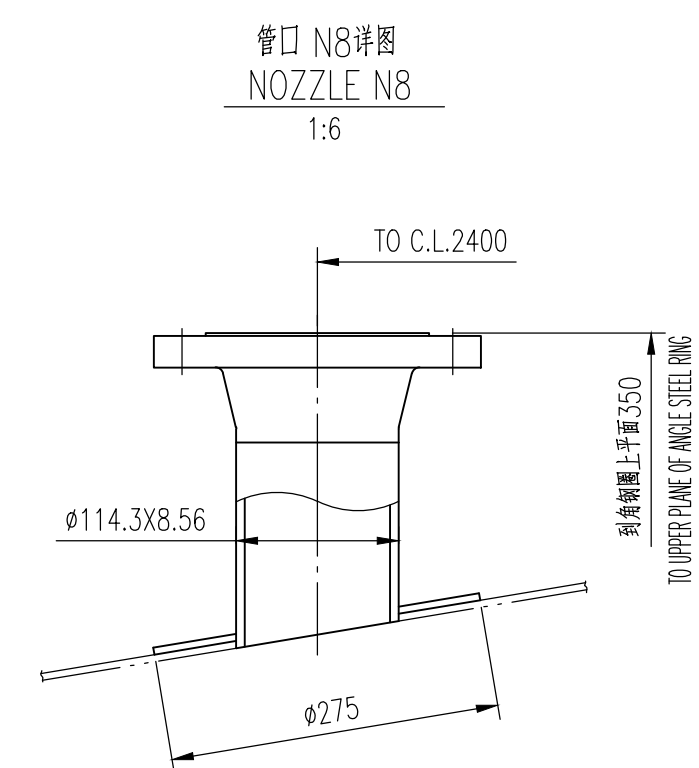
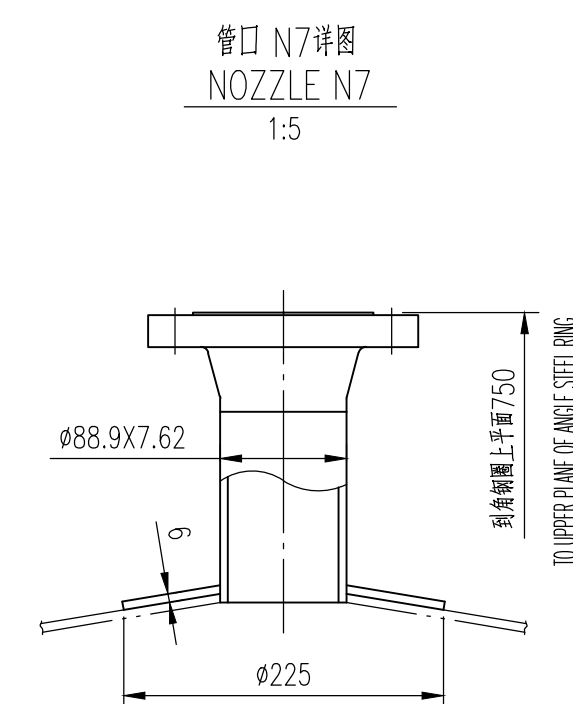
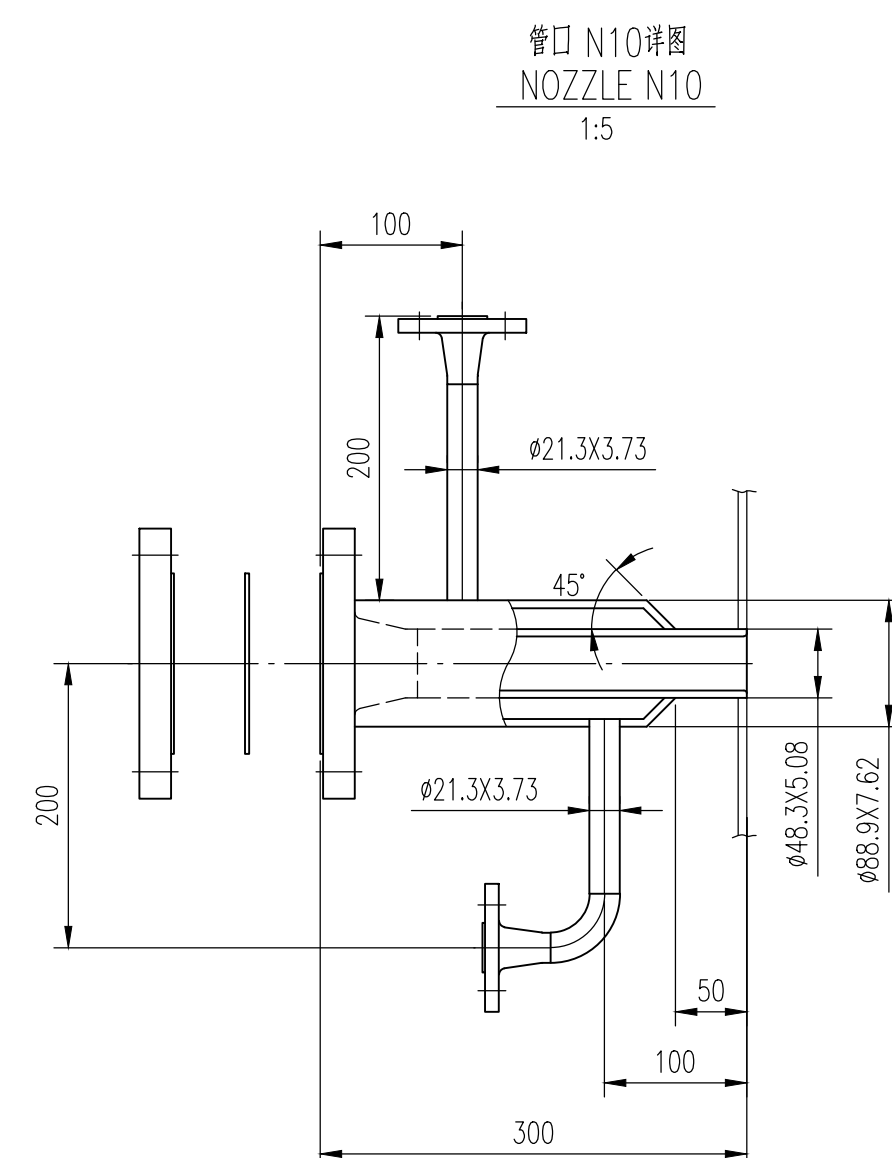
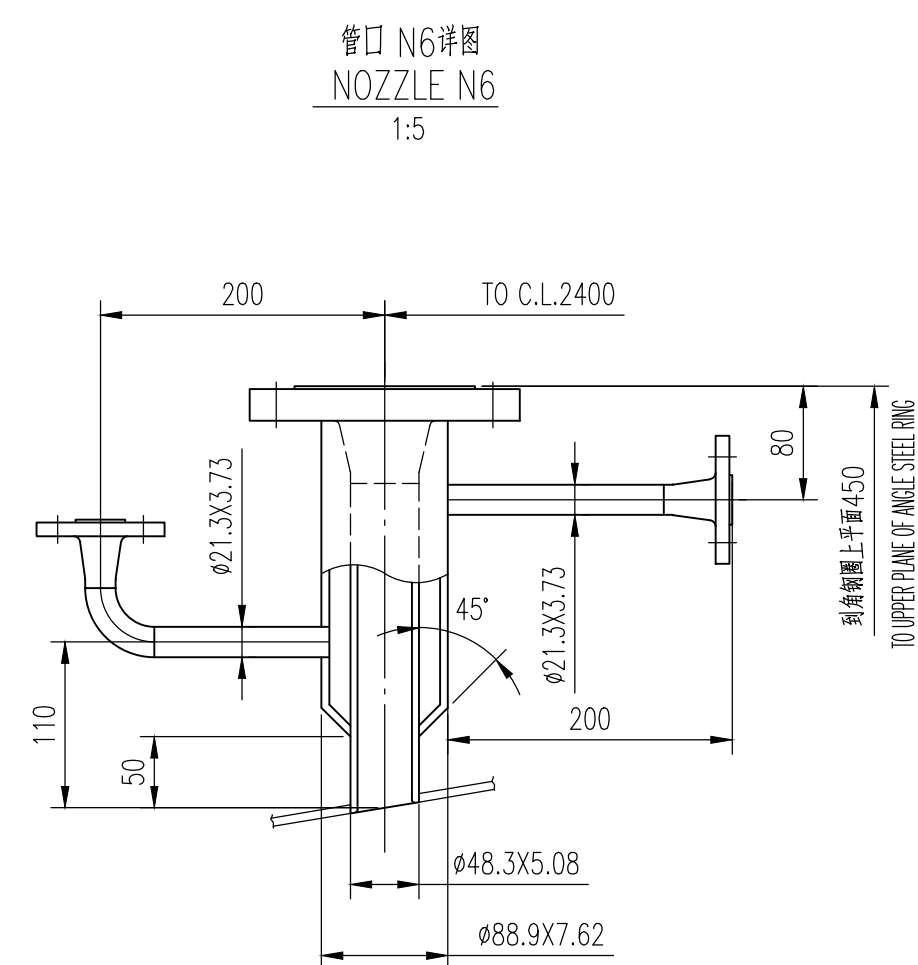
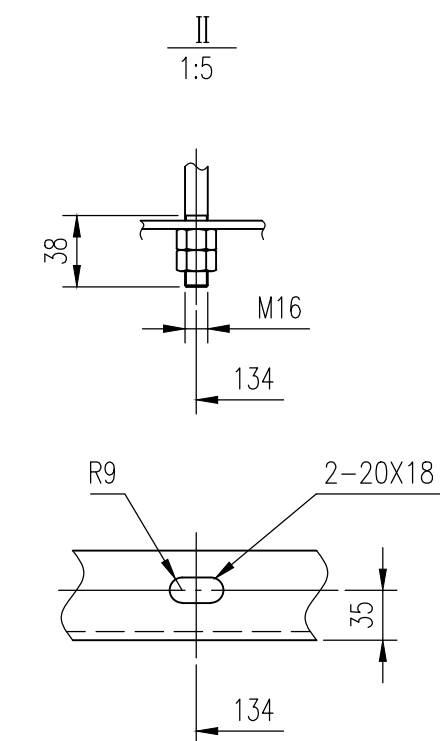


总重: 1600 kg										
M2	HG/T 21518-2014	补强圈 φ1070/φ540 δ6 REINFORCING PAD	1	S30408	31.6	H1=350				
		人孔 RF Ⅱ(W.D-2222)A500-16 MANHOLE	1	螺栓件	272					
M1	HG/T 21521-2014	补强圈 φ1370/φ640 δ8 REINFORCING PAD	1	S30408	72.8					
		人孔 RF Ⅱ(W.D-2222)600-16 MANHOLE	1	螺栓件	441					
F	ASME B16.5	法兰 1-1/2"-150# 50/RF FLANGE	1	S30408Ⅱ	3.45					
	补强圈 φ200/φ83 δ6 REINFORCING PAD	1	S30408	1.23						
P1,P2	GB/T 14976-2012	接管 φ73X7.01 PIPE	1	S30408	1.9					
	ASME B16.5	法兰 1-1/2"-150# WN/RF Sch80S FLANGE	1	S30408Ⅱ	4.54					
	ASME B16.5	法兰 3"-300# BL/RF BLIND FLANGE	2	S30408Ⅱ	4.1	8.2				
	HG/T 20634-2009	专用螺母 M20 NUT	32	30CrMoA	0.05	1.6				
	HG/T 20634-2009	全螺栓螺母 M20X115 BOLT	16	35CrMoA	0.152	2.4				
	HG/T 20631-2009	垫片 D 80-300 δ4.5 GASKET	2	2222	--	--				
	GB/T 14976-2012	接管 φ21.3X3.73 PIPE	2	S30408	0.2	0.4				
	GB/T 14976-2012	接管 φ21.3X3.73 PIPE	2	S30408	0.26	0.52				
	GB/T 14259-2017	考克 DN15-Sch80s 90E(L) FLOW	2	S30408	0.1	0.2				
	ASME B16.5	法兰 1-1/2"-300# WN/RF Sch80s FLANGE	4	S30408Ⅱ	0.91	3.64				
	GB/T 14976-2012	接管 φ60.3X5.54 PIPE	2	S30408	1.76	3.52				
	GB/T 14976-2012	接管 φ88.9X7.62 PIPE	2	S30408	2.73	5.46				
SH/T 3426-2014	法兰垫 IN600XN80-PN50-WN-RF-Sch80s GASKET	2	S30408Ⅱ	5.2	10.4					
T1,T2	ASME B16.5	法兰 3"-1/2"-150# BL/RF BLIND FLANGE	4	S30408	0.2				0.8	
	HG/T 20634-2009	专用螺母 M14 NUT	16	30CrMoA	--	--				
	HG/T 20634-2009	全螺栓螺母 M14X80 BOLT	8	35CrMoA	0.096	0.768				
	HG/T 20631-2009	垫片 D 40-150 δ4.5 GASKET	2	2222	--	--				
	GB/T 14976-2012	接管 φ48.3X5.08 PIPE	2	S30408	0.76	1.52				
	ASME B16.5	法兰 1-1/2"-150# WN/RF FLANGE	2	S30408Ⅱ	1.81	3.62				
	ASME B16.5	法兰 6"-150# BL/RF BLIND FLANGE	2	S30408Ⅱ	12.26	24.52				
	HG/T 20634-2009	专用螺母 M20 NUT	32	30CrMoA	0.101	0.232				
	HG/T 20634-2009	全螺栓螺母 M20X110 BOLT	16	35CrMoA	0.264	4.224				
	HG/T 20631-2009	垫片 D 150-150 δ4.5 GASKET	2	2222	--	--				
	LT1/2	补强圈 φ265/φ99 δ6 REINFORCING PAD	2	S30408	2.28	4.56				
		接管 φ26.7X3.91 PIPE	2	S30408	0.34	0.68				
GB/T 14976-2012		接管 φ26.7X3.91 PIPE	2	S30408	0.3	0.6				
考克 DN20-Sch80s 90E(L) FLOW		2	S30408	0.14	0.28					
ASME B16.5		法兰 3/4"-150# WN/RF Sch80s FLANGE	4	S30408Ⅱ	0.91	3.64				
GB/T 14976-2012		接管 φ88.9X7.62 PIPE	2	S30408	3.6	7.2				
GB/T 14976-2012		接管 φ168.3X10.97 PIPE	2	S30408	6.4	12.8				
SH/T 3426-2014		法兰垫 IN800XDN150-PN20-WN-RF-Sch80s GASKET	2	S30408Ⅱ	12.1	24.2				
LG1/2 LG3/4		ASME B16.5	法兰 3"-150# BL/RF BLIND FLANGE	4	S30408Ⅱ	4.1	16.4			
		HG/T 20634-2009	专用螺母 M16 NUT	32	30CrMoA	0.05	1.6			
		HG/T 20634-2009	全螺栓螺母 M16X95 BOLT	16	35CrMoA	0.152	4.32			
		HG/T 20631-2009	垫片 D 80-150 δ4.5 GASKET	4	2222	--	--			
	GB/T 14976-2012	接管 φ21.3X3.73 PIPE	4	S30408	0.2	0.8				
	GB/T 14976-2012	接管 φ21.3X3.73 PIPE	4	S30408	0.26	1.04				
N9	GB/T 14259-2017	考克 DN15-Sch80s 90E(L) FLOW	4	S30408	0.1	0.4				
	ASME B16.5	法兰 1-1/2"-150# WN/RF Sch80s FLANGE	8	S30408Ⅱ	0.91	7.28				
	GB/T 14976-2012	接管 φ60.3X5.54 PIPE	4	S30408	1.73	6.92				
	GB/T 14976-2012	接管 φ88.9X7.62 PIPE	4	S30408	2.6	10.4				
	SH/T 3426-2014	法兰垫 IN600XN80-PN20-WN-RF-Sch80s GASKET	2	S30408Ⅱ	5.2	20.8				
	N8	补强圈 φ1170/φ620 δ6 REINFORCING PAD	1	S30408	37.1					
		接管 φ610X8 PIPE	1	S30408	30					
	N7	ASME B16.5	法兰 24"-150# WN/RF FLANGE	1	S30408Ⅱ	121.7				
		补强圈 φ275/φ124 δ6 REINFORCING PAD	1	S30408	2.31					
	N6	GB/T 14976-2012	接管 φ114.3X8.56 PIPE	1	S30408	2.83				
		ASME B16.5	法兰 4"-150# WN/RF Sch80s FLANGE	1	S30408Ⅱ	7.49				
		补强圈 φ225/φ99 δ6 REINFORCING PAD	1	S30408	1.51					
接管 φ88.9X7.62 PIPE		1	S30408	1.53						
ASME B16.5		法兰 3"-150# WN/RF Sch80s FLANGE	1	S30408Ⅱ	5.22					
GB/T 14976-2012		接管 φ21.3X3.73 PIPE	1	S30408	0.2					
GB/T 14976-2012		接管 φ21.3X3.73 PIPE	1	S30408	0.26					
GB/T 14259-2017		考克 DN15-Sch80s 90E(L) FLOW	1	S30408	0.1					
ASME B16.5		法兰 2"-300# WN/RF Sch80s FLANGE	2	S30408Ⅱ	0.91	1.82				
GB/T 14976-2012		接管 φ48.3X5.08 PIPE	1	S30408	1.26					
GB/T 14976-2012		接管 φ88.9X7.62 PIPE	1	S30408	2.5					
SH/T 3426-2014		法兰垫 IN600XN80-PN60-WN-RF-Sch80s GASKET	1	S30408Ⅱ	5.2					

N5		ASME B16.5	法兰 6"-150# BL/RF BLIND FLANGE	1	S30408II		12.26	
		HG/T 20634-2009	专用螺栓 M20	16	30CrMoA	0.10	1.616	
		HG/T 20634-2009	六角螺栓 M20X110	8	35CrMoA	0.264	2.112	
		HG/T 20631-2009	垫片 D150-150 64.5	1	2222		--	
			补强圈 Ø305XØ124 Ø8 REINFORCING PAD	1	S30408		6.4	
		GB/T 14976-2012	接管 Ø26.7X3.91 PIPE	1	S30408		0.38	
		GB/T 14976-2012	接管 Ø26.7X3.91 PIPE	1	S30408		0.35	
		GB/T 12459-2017	弯头 DN20-Sch80s 90E(L) FLOW	1	S30408		0.14	
		ASME B16.5	法兰 3/4"-150# WN/RF Sch80s FLANGE	2	S30408II	0.91	1.82	
		GB/T 14976-2012	接管 Ø168.3X10.97 PIPE	1	S30408		12.7	
N4		GB/T 14976-2012	接管 Ø114.3X8.56 PIPE	1	S30408		6.2	
		SH/T 3426-2014	法兰 DN100XDN150-PN20-WN-RF-Sch80s FLANGE	1	S30408II		11.8	
	21		支梁架 1.63X63X6 GUIDE BAR	1	S30408		2.2	L=370
	19		支梁架 1.63X63X6 GUIDE BAR	2	S30408		1.8	3.6
	20		垫板 125X125 Ø8 PAD	2	S30408		0.99	1.98
	18		U形螺栓 M16 U BOLT	1	S30408		0.84	
	17	GB/T 6170-2015	螺母 M16 NUT	4	S30408		0.05	0.2
	16		集液槽 Ø10 LIQUID COLLECTING TANK	1	S30408		36.9	
	15	GB/T 14976-2012	接管 Ø114.3X8.56 PIPE	1	S30408		7.5	
	14	GB/T 12459-2017	弯头 DN100-Sch80s 90E(L) FLOW	1	S30408		5.33	
N3		GB/T 14976-2012	接管 Ø114.3X8.56 PIPE	1	S30408		25.8	
	12	GB/T 6170-2015	六角螺栓 M16 NUT	8	S30408		0.05	0.8
	11	GB/T 5782-2016	六角大螺栓 M16X95 BOLT	8	S30408		0.168	1.344
	10	HG/T 20631-2009	垫片 D100-150 64.5	1	2222		--	
	9	HG/T 20615-2009	法兰 SO 100-150 RF FLANGE	2	S30408II	5.63	11.26	
	8		补强圈 Ø305XØ124 Ø8 REINFORCING PAD	1	S30408		6.4	
	7	GB/T 14976-2012	接管 Ø26.7X3.91 PIPE	1	S30408		0.2	
	6	GB/T 14976-2012	接管 Ø26.7X3.91 PIPE	1	S30408		0.25	
	5	GB/T 12459-2017	弯头 DN20-Sch80s 90E(L) FLOW	1	S30408		0.14	
	4	ASME B16.5	法兰 3/4"-150# WN/RF Sch80s FLANGE	2	S30408II	0.91	1.82	
N2		GB/T 14976-2012	接管 Ø168.3X10.97 PIPE	1	S30408		20.4	
	2	GB/T 14976-2012	接管 Ø114.3X8.56 PIPE	1	S30408		6.6	
	1	SH/T 3426-2014	法兰 DN100XDN150-PN20-WN-RF-Sch80s FLANGE	1	S30408II		11.8	
		ASME B16.5	法兰 6"-150# SO/RF FLANGE	2	S30408		0.2	0.4
			补强圈 Ø400/Ø178 Ø8 REINFORCING PAD	1	S30408II		7.9	
		GB/T 14976-2012	接管 Ø26.7X3.91 PIPE	1	S30408		7.9	
		GB/T 14976-2012	接管 Ø26.7X3.91 PIPE	1	S30408		0.35	
		GB/T 14976-2012	接管 Ø26.7X3.91 PIPE	1	S30408		0.34	
		GB/T 12459-2017	弯头 DN20-Sch80s 90E(L) FLOW	1	S30408		0.14	
		ASME B16.5	法兰 3/4"-150# WN/RF Sch80s FLANGE	2	S30408II	0.91	1.82	
N1		GB/T 14976-2012	接管 Ø168.3X10.97 PIPE	1	S30408		20.6	
		GB/T 14976-2012	接管 Ø219.1X12.7 PIPE	1	S30408		17.1	
		SH/T 3426-2014	法兰 DN150XDN200-PN20-WN-RF-Sch80s FLANGE	1	S30408II		20.1	
			补强圈 Ø400/Ø178 Ø8 REINFORCING PAD	1	S30408		7.9	
		GB/T 14976-2012	接管 Ø26.7X3.91 PIPE	1	S30408		0.35	
		GB/T 14976-2012	接管 Ø26.7X3.91 PIPE	1	S30408		0.34	
		GB/T 12459-2017	弯头 DN20-Sch80s 90E(L) FLOW	1	S30408		0.14	
		ASME B16.5	法兰 3/4"-150# WN/RF Sch80s FLANGE	2	S30408II	0.91	1.82	
		GB/T 14976-2012	接管 Ø168.3X10.97 PIPE	1	S30408		9.1	
		GB/T 14976-2012	接管 Ø219.1X12.7 PIPE	1	S30408		9.4	
N0		SH/T 3426-2014	法兰 DN150XDN200-PN20-WN-RF-Sch40s FLANGE	1	S30408II		20.1	
			补强圈 Ø6 GUSSET	4	S30408		0.5	2.0
		GB/T 14976-2012	接管 Ø60.3X5.54 PIPE	1	S30408		7.67	
		GB/T 12459-2017	弯头 DN50-Sch80s 90E(L) FLOW	1	S30408		0.77	
		GB/T 14976-2012	接管 Ø21.3X3.73 PIPE	1	S30408		0.2	
		GB/T 14976-2012	接管 Ø21.3X3.73 PIPE	1	S30408		0.26	
		GB/T 12459-2017	弯头 DN15-Sch80s 90E(L) FLOW	1	S30408		0.1	
		ASME B16.5	法兰 1/2"-150# WN/RF Sch80s FLANGE	2	S30408II	0.91	1.82	
		GB/T 14976-2012	接管 Ø60.3X5.54 PIPE	1	S30408		1.8	
		GB/T 14976-2012	接管 Ø88.9X7.62 PIPE	1	S30408		3.6	
	SH/T 3426-2014	法兰 DN50XDN80-PN50-WN-RF-Sch80s FLANGE	1	S30408II		8.2		
件号 No.		图号或标准号 DWG. OR STAND. No.	名 称 DESCRIPTION	数量 QTY.	材 料 MATERIAL	单UNIT 重量WEIGHT(kg)	备 注 REMARKS	
D00 详细工程设计/DETAILED ENGINEERING DESIGN				徐俊松	向冲	赵银峰		2025.6.20
REV.		DESCRIPTION		DEGNO	CHEKO	APPRD	AUTHD	DATE
PT PETRO OXO NUSANTARA								
WUHUAN ENGINEERING CO., LTD.				30,000 TPA NEOPENTYL GLYCOL PROJECT				
NPG MOLTEN LIQUID STORAGE TANK				Neopentyl Glycol Plant				
DETAIL DRAWING OF NOZZLE (1/3)				Detailed Engineering Design				
ITEM NO:V-4105				22150-V4105-002				D00
SPECI	EQUIPMENT	AREA	—	SCALE	1:30	SHT.1	OF 3	



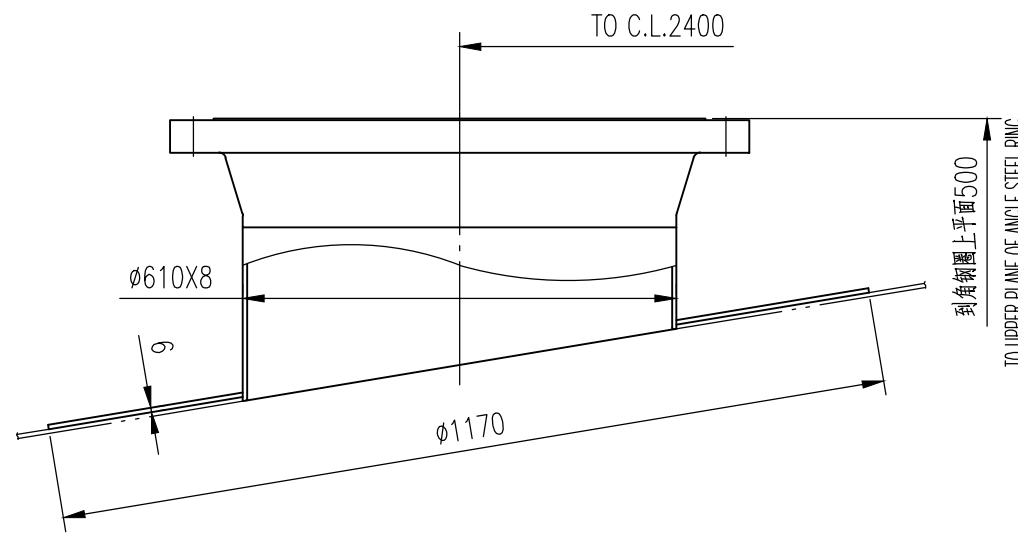
L: 此值根据支撑梁所在罐底板的位置现场确定, 保证接管中心与N4口法兰中心线重合。
L: THIS VALUE IS DETERMINED ON SITE ACCORDING TO THE POSITION OF THE TANK BOTTOM PLATE WHERE THE SUPPORTING BEAM IS LOCATED, SO AS TO ENSURE THAT THE CENTER OF THE NOZZLE COINCIDES WITH THE CENTER LINE OF THE N9 PORT FLANGE.



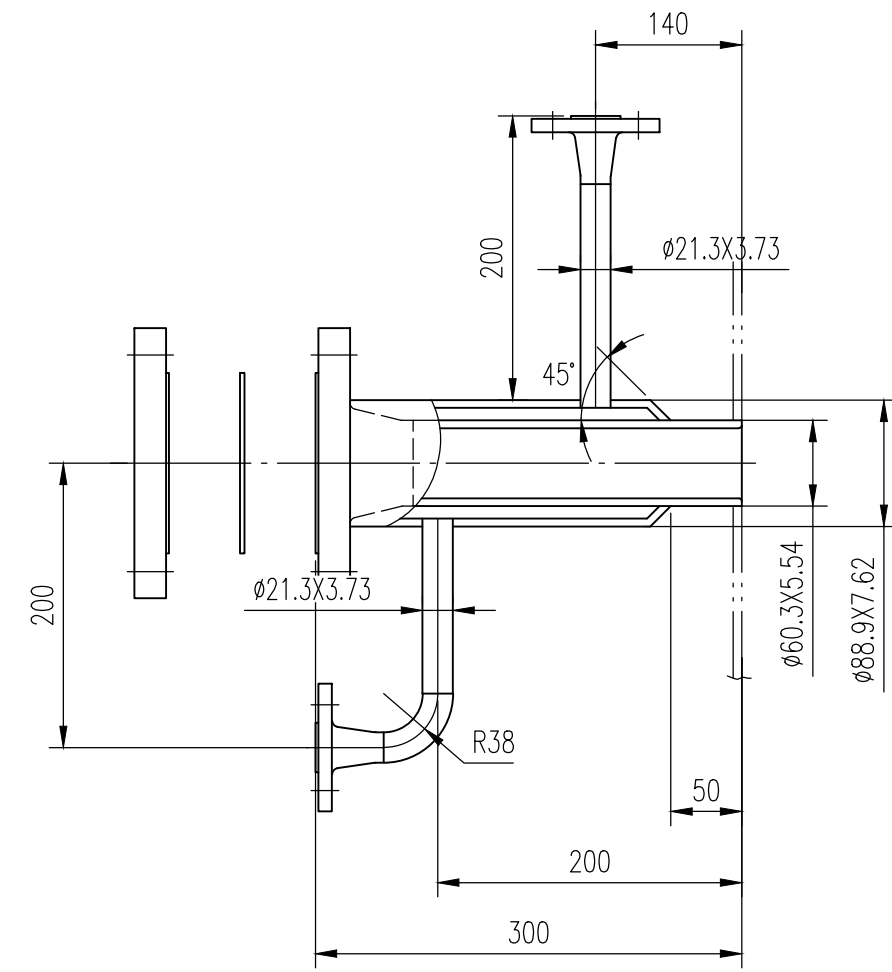
D00	详细工程设计/DETAILED ENGINEERING DESIGN	徐淑松	向冲	赵银峰	2025. 6. 20				
REV.	DESCRIPTION	DESIGN	CHECK	APPRO	AUTHD	DATE			
 PT PETRO OXO Nusantara									
 WUHUAN ENGINEERING CO., LTD. <small>MUST BE COPIED, TRANSMITTED TO OTHERS OR USED WITHOUT PERMISSION OF WUHUAN ENGINEERING CO., LTD.</small>		30,000 TPA NEOPENTYL GLYCOL PROJECT							
NPG MOLTEN LIQUID STORAGE TANK DETAILED DRAWING OF NOZZLE (2/3) ITEM NO:V-4105		Neopenityl Glycol Plant							
		Detailed Engineering Design							
		22150-V4105-002							D00
SPECI	EQUIPMENT	AREA	—		SCALE	1:30	SHT.2	OF 3	

A
B
C
D
E
F
A1
SHEET
SIGNATURE

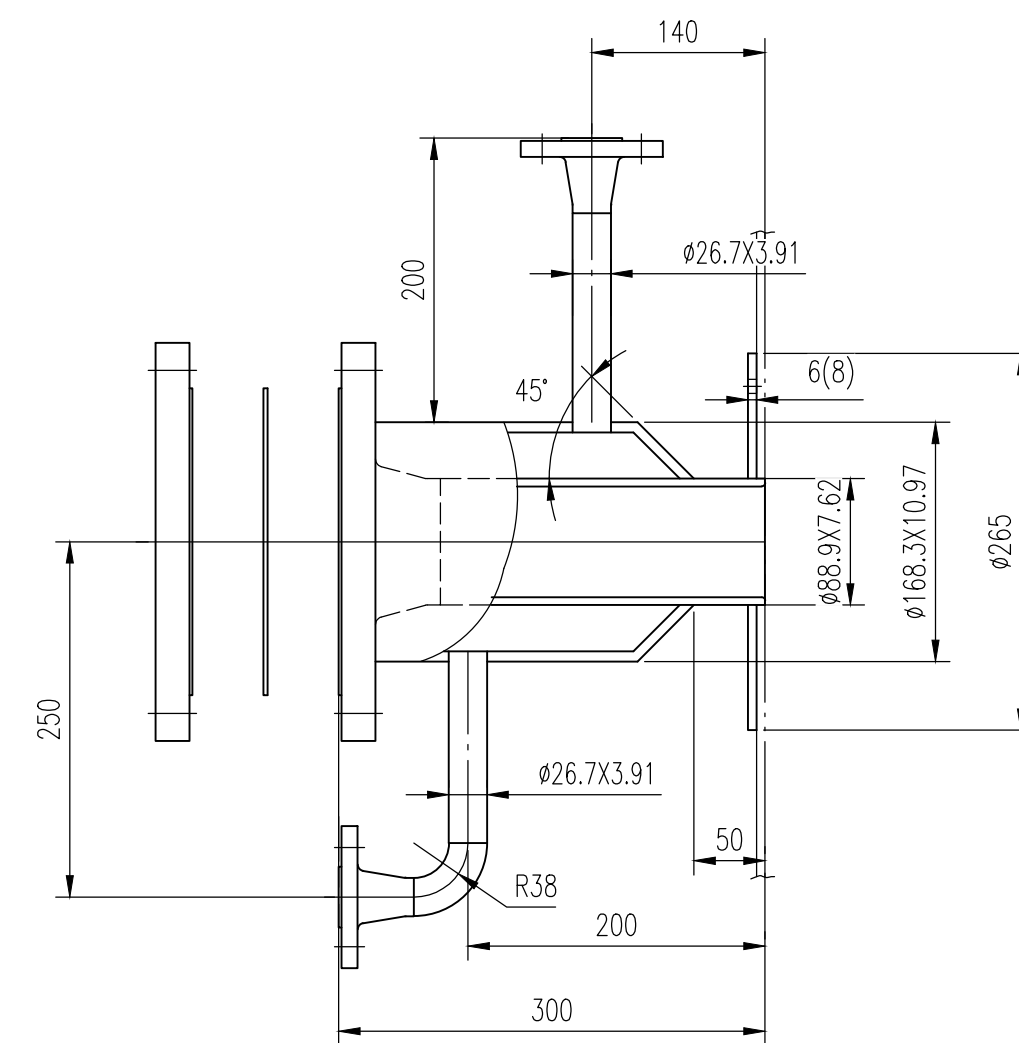
管口 N9详图
NOZZLE N9
1:10



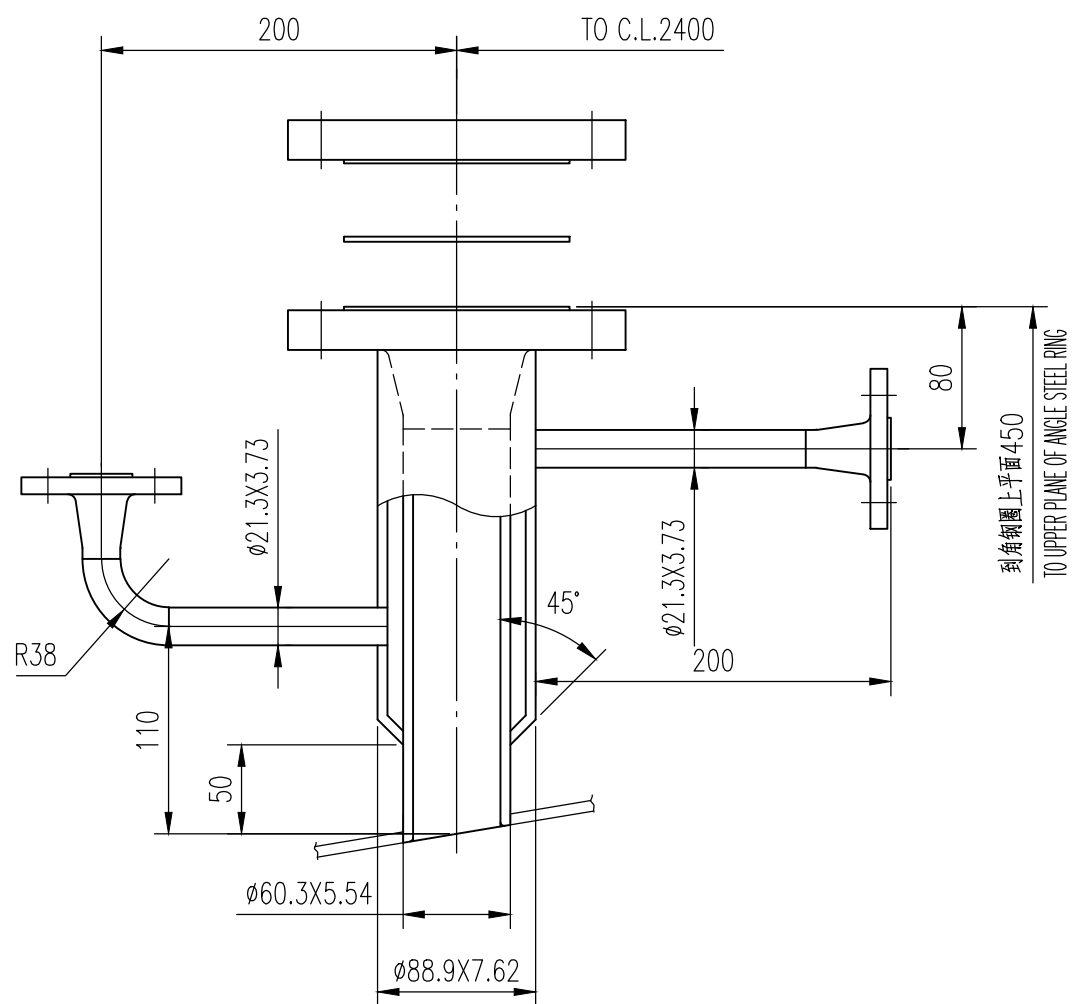
管口 LG1~4详图
NOZZLE LG1~4
1:5



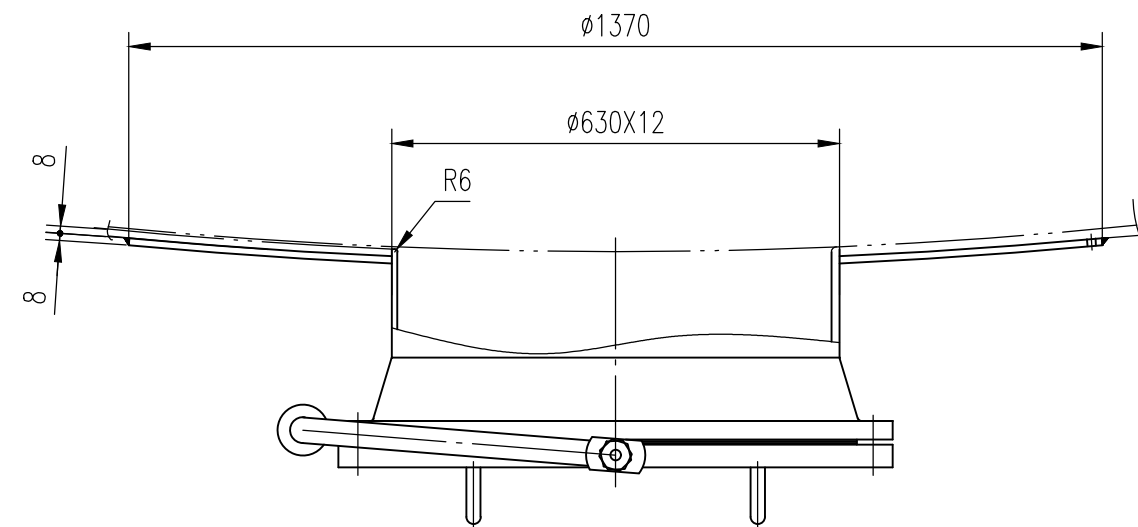
管口 LT1~2详图
NOZZLE LT1~2
1:5



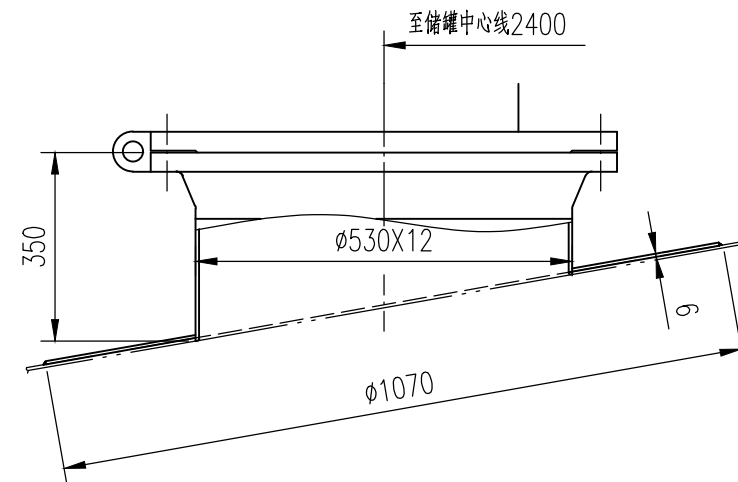
管口 P1,P2详图
NOZZLE P1,P2
1:4



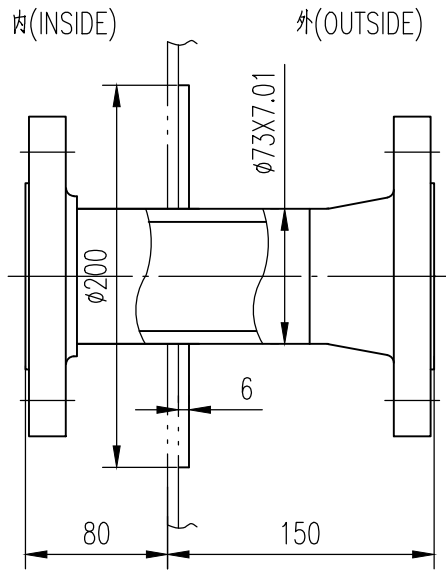
人孔 M1详图
MANHOLE M1
1:10



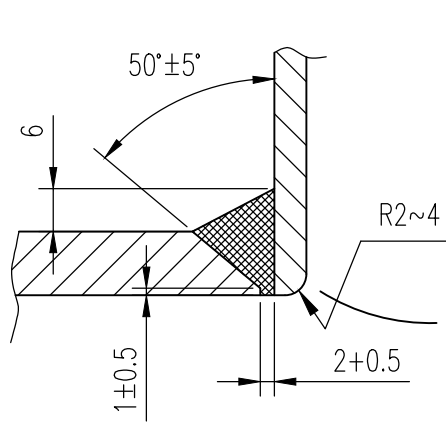
人孔 M2详图
MANHOLE M2
1:10



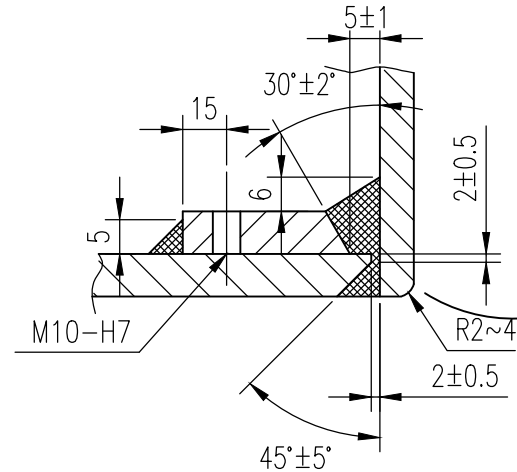
管口 F详图
NOZZLE F
1:4



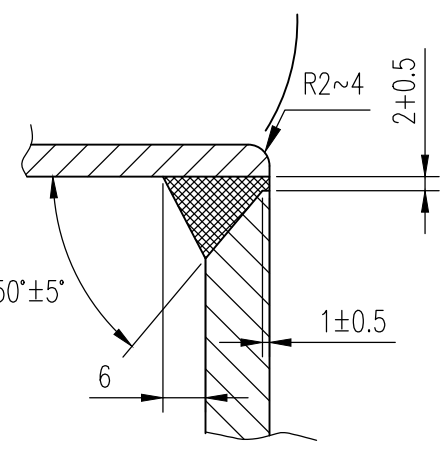
不带补强圈接管与罐顶焊接详图(平齐管)
WELDING DETAILS OF NOZZLE WITHOUT REINFORCING RING AND TANK TOP (FLUSH PIPE)
1:2



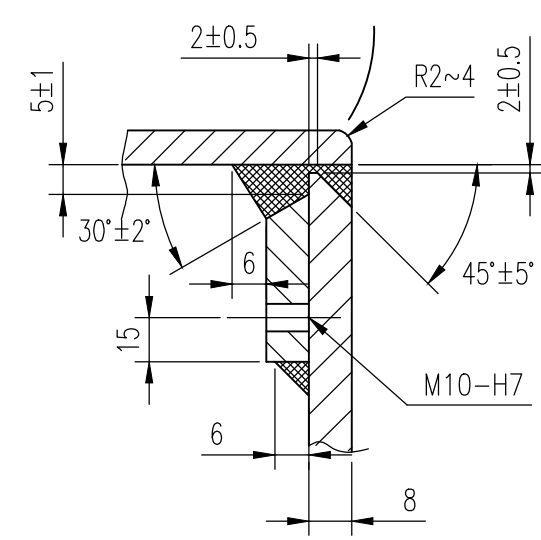
带补强圈接管与罐顶焊接详图(平齐管)
WELDING DETAILS OF NOZZLE WITH REINFORCING RING AND TANK TOP (FLUSH PIPE)
1:2



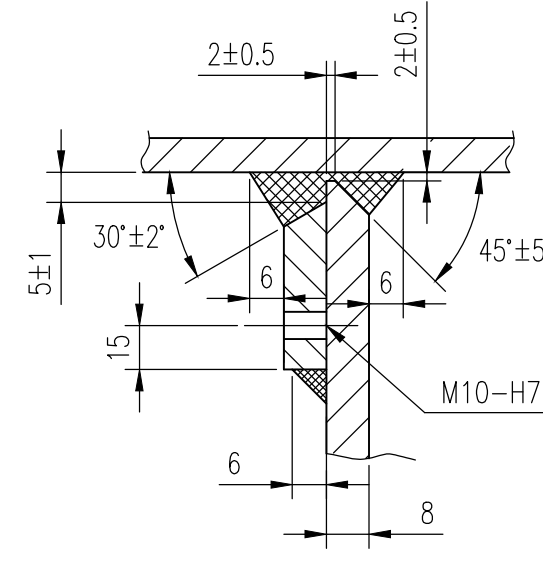
不带补强圈接管与罐壁焊接详图(平齐管)
WELDING DETAILS OF NOZZLE WITHOUT REINFORCING RING AND TANK WALL (FLUSH PIPE)
1:2



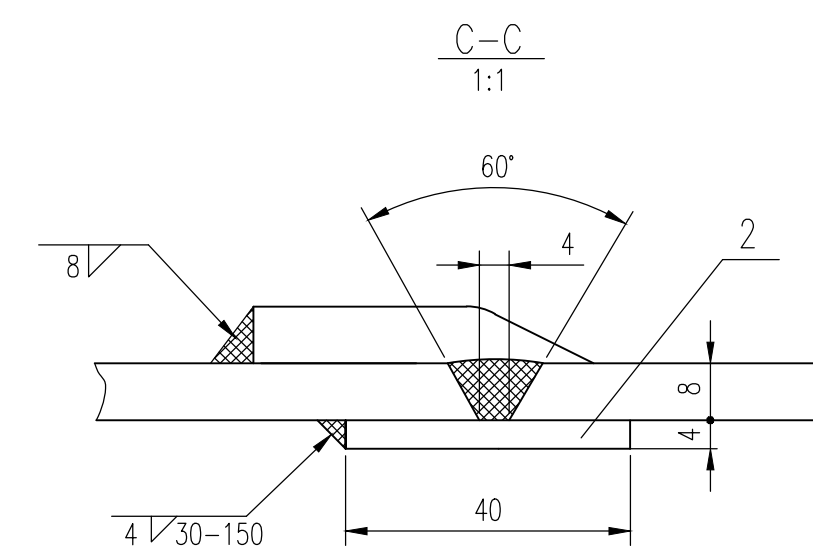
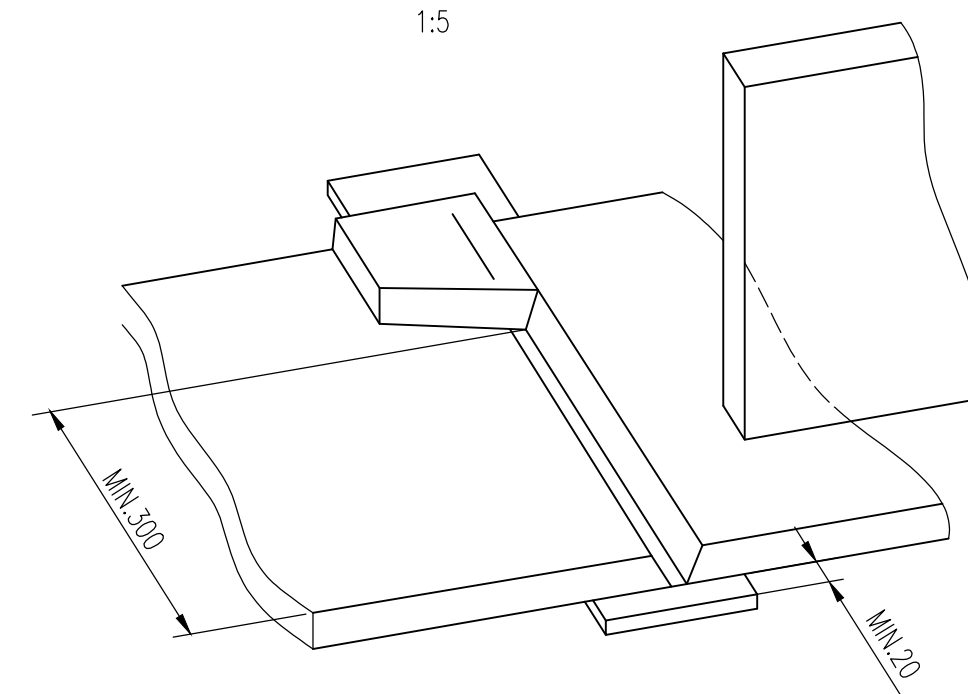
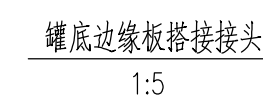
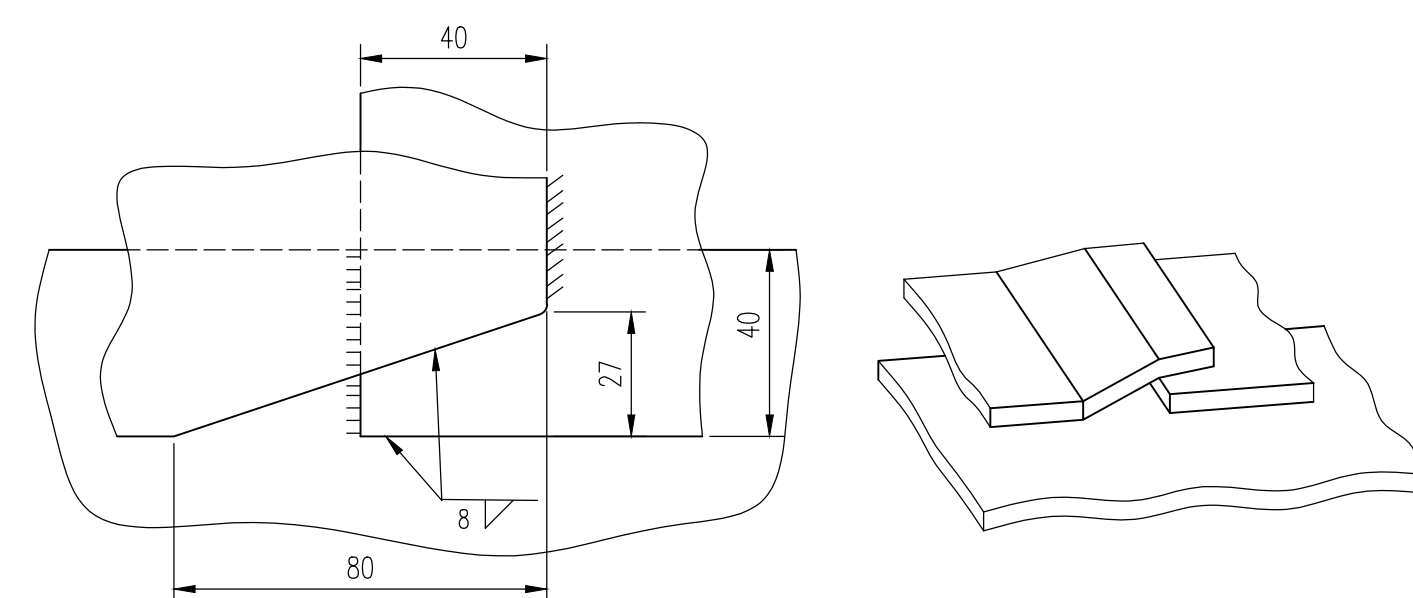
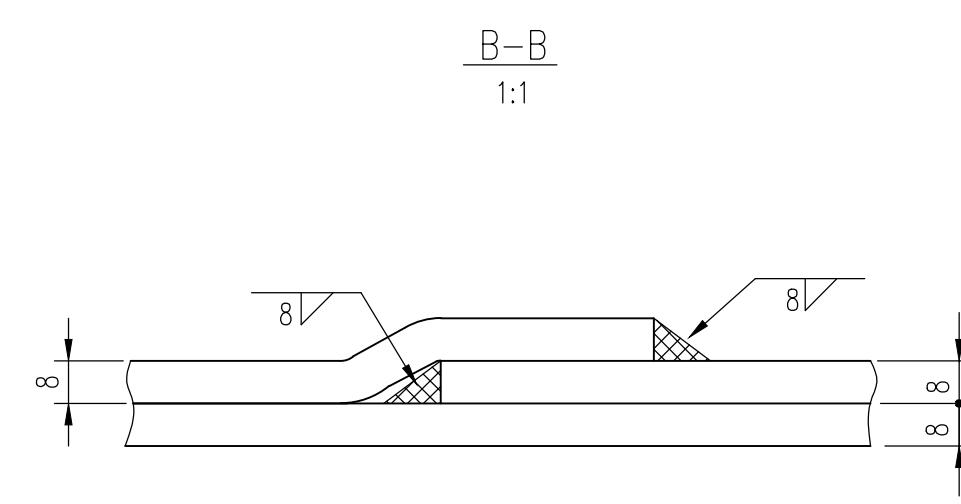
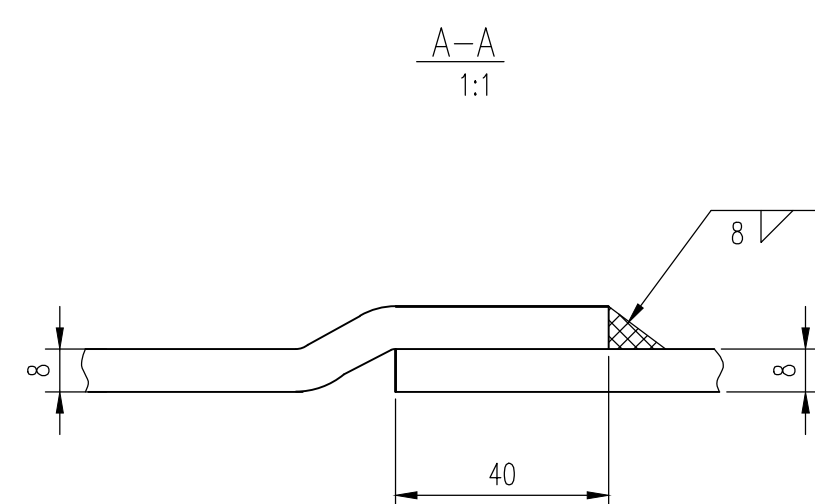
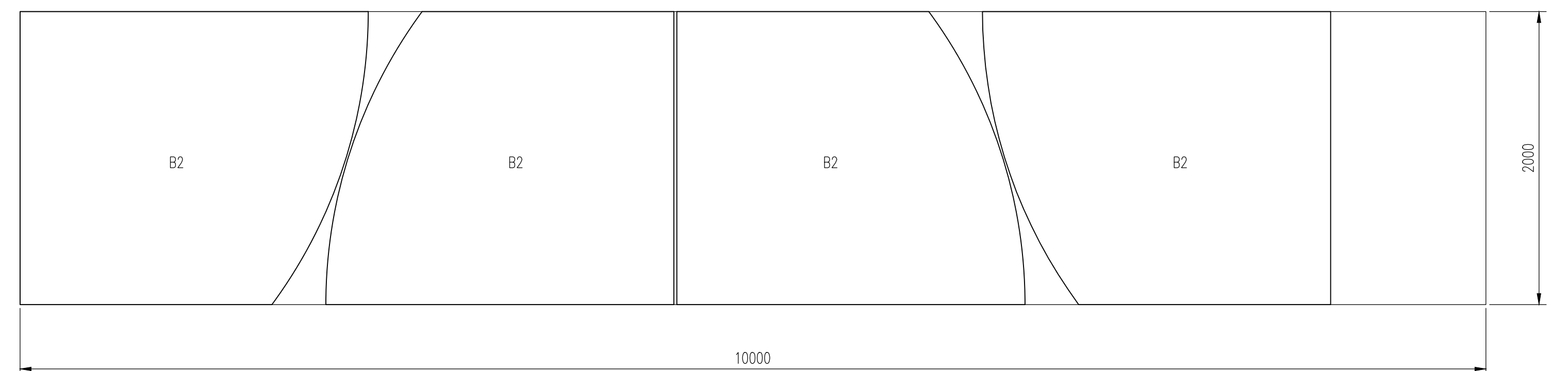
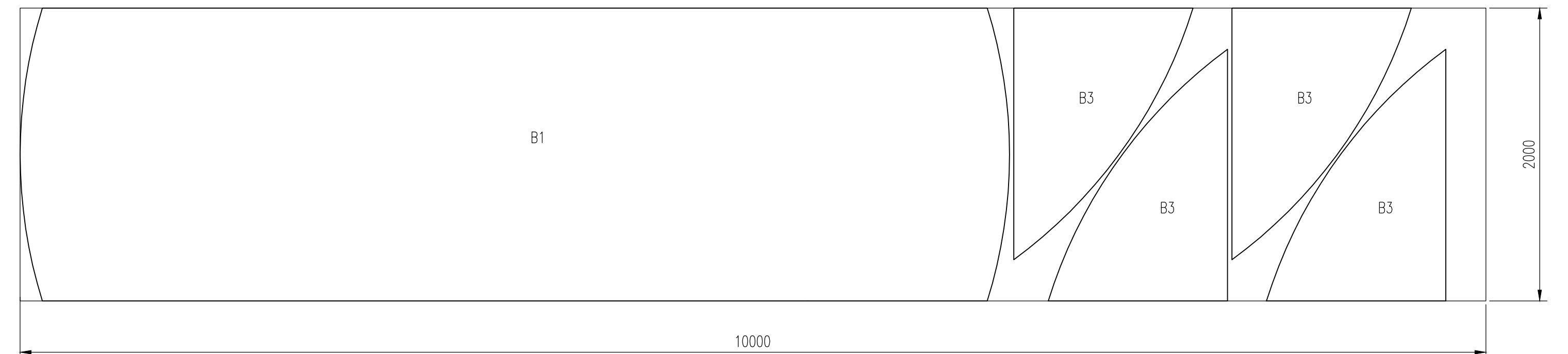
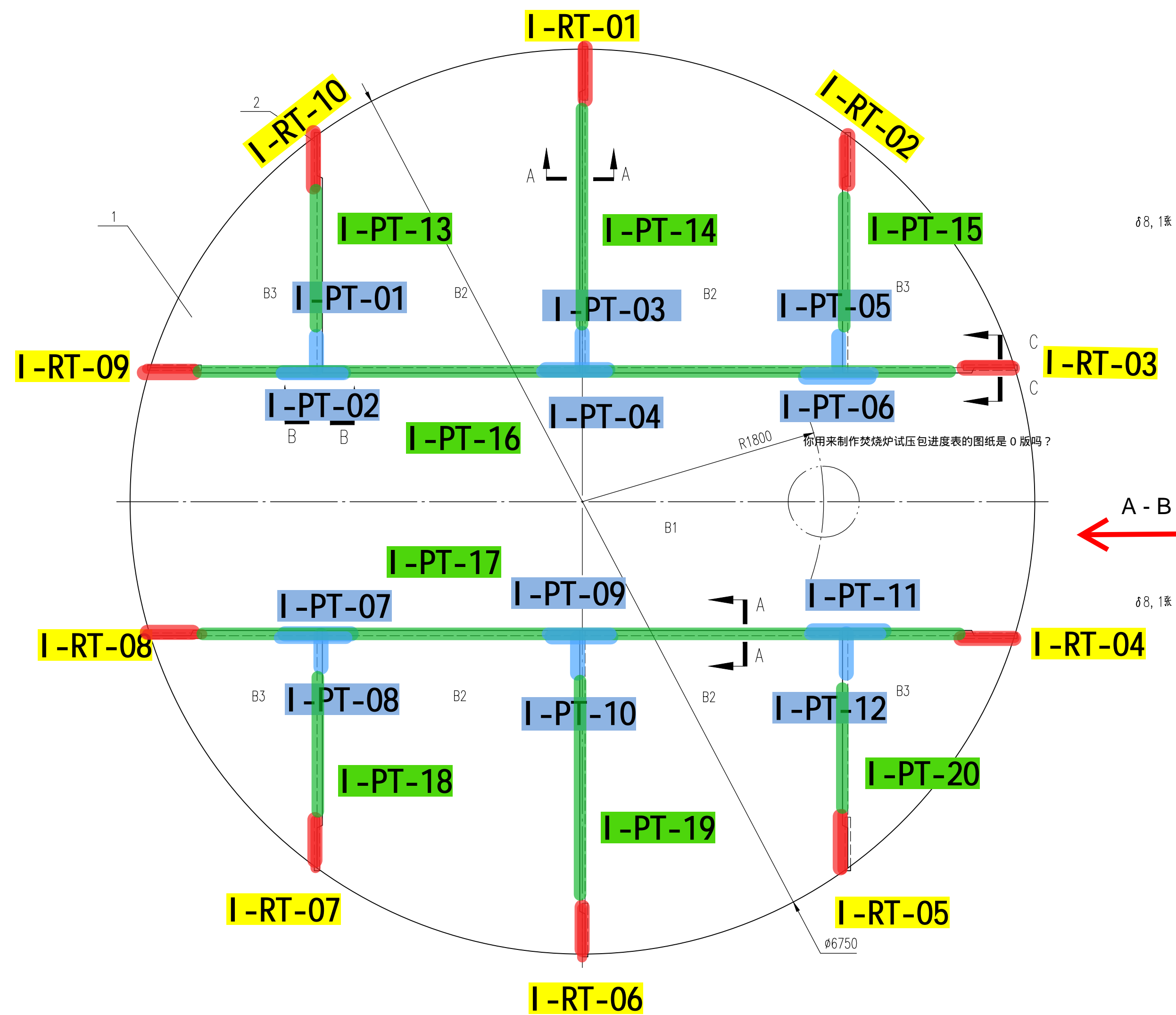
带补强圈接管与罐壁焊接详图(平齐管)
WELDING DETAILS OF NOZZLE WITH REINFORCING RING AND TANK WALL (FLUSH PIPE)
1:2



带补强圈接管与罐壁焊接详图(内伸管)
WELDING DETAILS OF NOZZLE WITH REINFORCING RING AND TANK WALL (EXTENDED PIPE)
1:2





DOO	详细工程设计/DETAILED ENGINEERING DESIGN	徐淑松	向冲	赵银峰	2025. 6. 20
REV.	DESCRIPTION	DEGND	CHEKD	APPRD	AUTHD
PT PETRO OXO NUSANTARA					
WUHUAN ENGINEERING CO., LTD.		30,000 TPA NEOPENTYL GLYCOL PROJECT			
NPG MOLTEN LIQUID STORAGE TANK		Neopentyl Glycol Plant			
DETAIL DRAWING OF NOZZLE (3/3)		Detailed Engineering Design			
ITEM NO:V-4105		22150-V4105-002			DOO
SPECI	EQUIPMENT	AREA	—	SCALE	1:30
		SHT.3		OF 3	



Technical Requirements

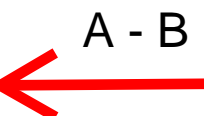
1. 罐底按GB50128—2014《立式圆筒形钢制焊接储罐施工规范》进行制造、检验和验收。
The tank bottom shall be manufactured, inspected, and accepted in accordance with GB50128—2014 Code for Construction and Acceptance of Vertical Cylindrical Steel Welded Storage Tanks.
2. 技术要求按装配图及相关标准规范的规定。
All technical requirements shall comply with the assembly drawing and relevant standards/specifications.
3. 该图为准按示意图, 仅供参考, 不作为参考。
This drawing provides a schematic plate layout for reference only during construction.
4. 该图尺寸仅供参考, 施工单位在下料时应走理论割单与对接收。
The dimensions shown are theoretical values. The construction unit shall account for weld gaps and shrinkage during material cutting.

重量: 2276 kg

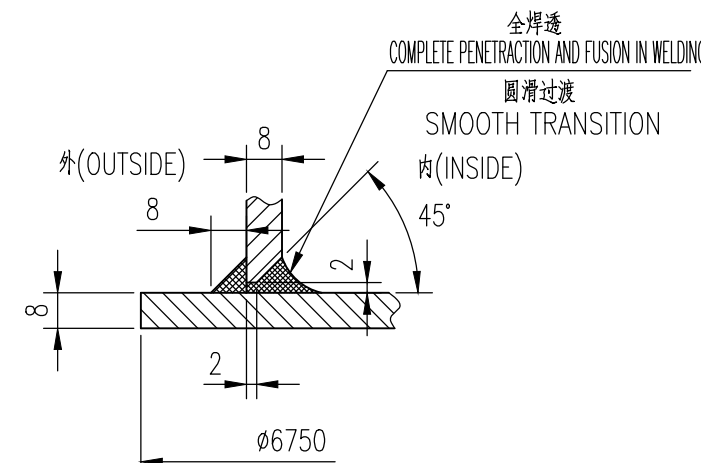
2		模板 40X4 P&ID	10	S30408	0.5	5.0	L=400	
1		底板 68 BASEBOARD	1	S30408		2271		
件号 No.	图号或标准号 DWG. OR STAND. No.	名 称 DESCRIPTION	数量 QTY.	材 料 MATERIAL	单UNIT 重量WEIGHT(kg)	总TOTAL	备 注 REMARKS	
D00	详细工程设计/DETAILED ENGINEERING DESIGN	徐淑松	向冲	赵银峰			2025.6.20	
REV.	DESCRIPTION		DEGND	CHEKD	APPRD	AUTHD	DATE	
 PT PETRO OXO NUSANTARA								
 WUHUAN ENGINEERING CO., LTD. <small>MAY NOT BE COPIED, TRANSMITTED TO OTHERS OR USED WITHOUT PERMISSION OF WUHUAN ENGINEERING CO., LTD.</small>			30,000 TPA NEOPENTYL GLYCOL PROJECT					
NPG MOLTEN LIQUID STORAGE TANK BASEBOARD DETAIL DRAWING ITEM NO: V-4105			Neopentyl Glycol Plant					
			Detailed Engineering Design					
			22150-V4105-003					D00
SPEC1	EQUIPMENT	AREA	—	SCALE	1:25	SHT.1	OF 1	

A1 594×841

SPECI



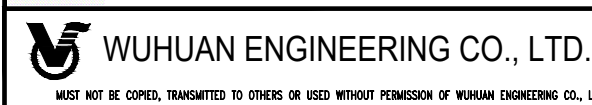
罐壁纵向焊接接头
LONGITUDINAL WELDED JOINT OF TANK WALL
1:1



1. 罐壁按GB50128-2014《立式圆筒形钢制焊接储罐施工及验收规范》进行制造、检验和验收。
The tank wall shall be manufactured, inspected and accepted in accordance with GB50128-2014 Code for Construction and Acceptance of Vertical Cylindrical Steel Welded Storage Tanks.
2. 所有开孔、接管和补强板上的切痕表面应光滑平整,并将被角倒圆。
All cut surfaces on openings, nozzles and reinforcing plates shall be smooth and flat with edges rounded.
3. 角钢加强的罐壁焊接接头全焊透,其焊接焊缝应避开接管区域,且不小于300mm。
The splice welds of angle steel reinforcing rings shall be fully penetrated and shall avoid longitudinal seams of wall plates by at least 300mm.
4. 罐底仅供参考,罐底钢板应到壁板出口处背壳的吸环焊接。
The plate layout is for reference only. Nozzles shall be arranged to avoid all longitudinal and circumferential shell welds during wall plate layout.
5. 拼板尺寸方最终形成尺寸,未考虑焊接收缩等因素。
The plate assembly dimensions are final formed dimensions and do not account for factors such as welding shrinkage.
6. 其余要求按装配图。
Other requirements shall comply with the assembly drawing.

4		弯板 6.6 TANK WALL	1	S30408	2634	H=2000
3		弯板 6.6 TANK WALL	1	S30408	578	H=585
2		弯板 6.6 TANK WALL	2	S30408	1975 3950	H=2000
1		角钢 L75X75X6 ANGLE STEEL	1	S30408	146	L=21000
件 号	图号或标准号	名 称	数量	材 料	单UNIT 总TOTAL	备 注
NO.	DWG. OR STAND. NO.	DESCRIPTION	QTY.	MATERIAL	WEIGHT(KG)	REMARKS

D00	详细工程设计/DETAILED ENGINEERING DESIGN	徐淑松	向冲	赵银峰		2025.6.20
REV.	DESCRIPTION	DEGND	CHEKD	APPRD	AUTHD	DATE



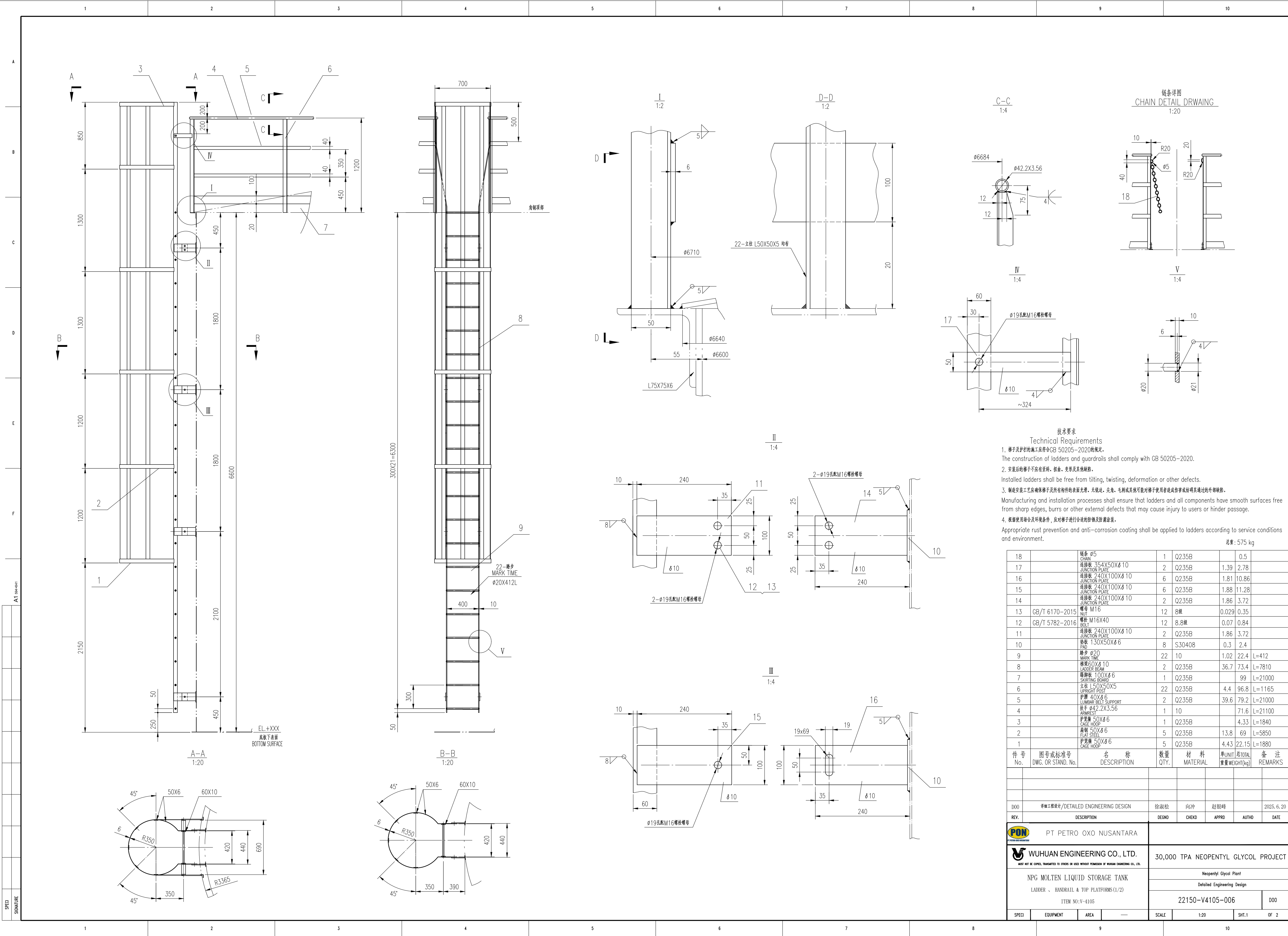
NRG MOLTEN LIQUID STORAGE TANK Neopentyl Glycol Plant

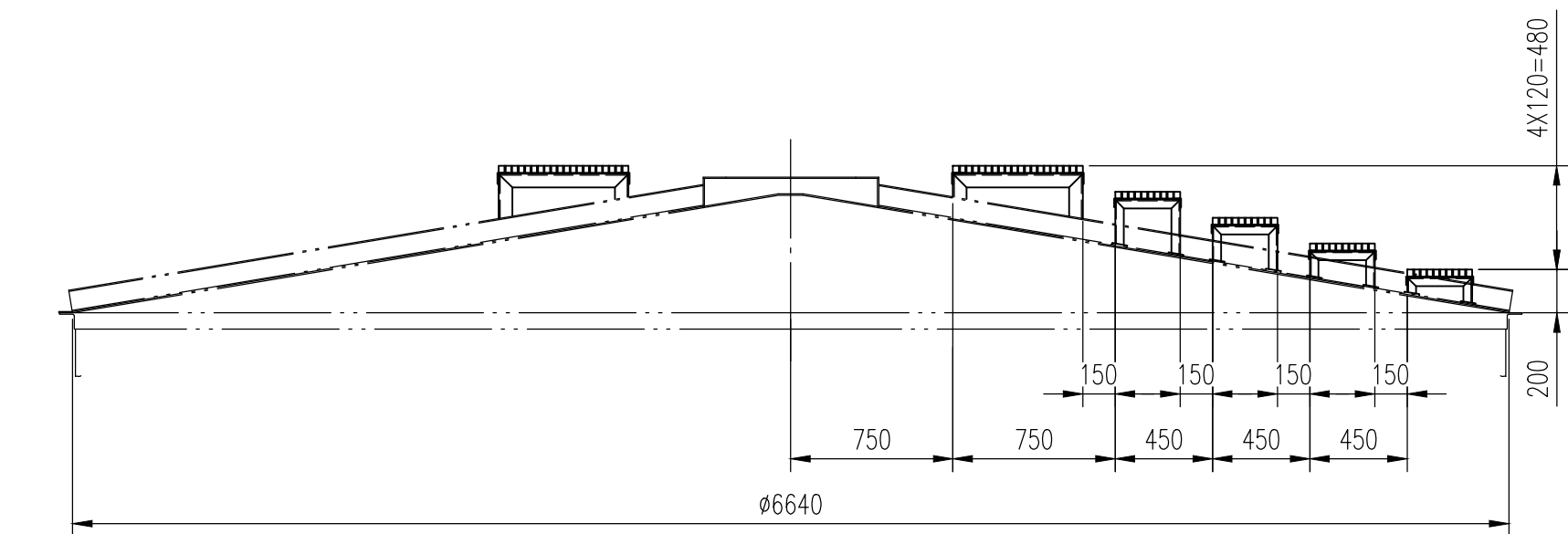
Detailed Engineering Design

ITEM NO:V-4105

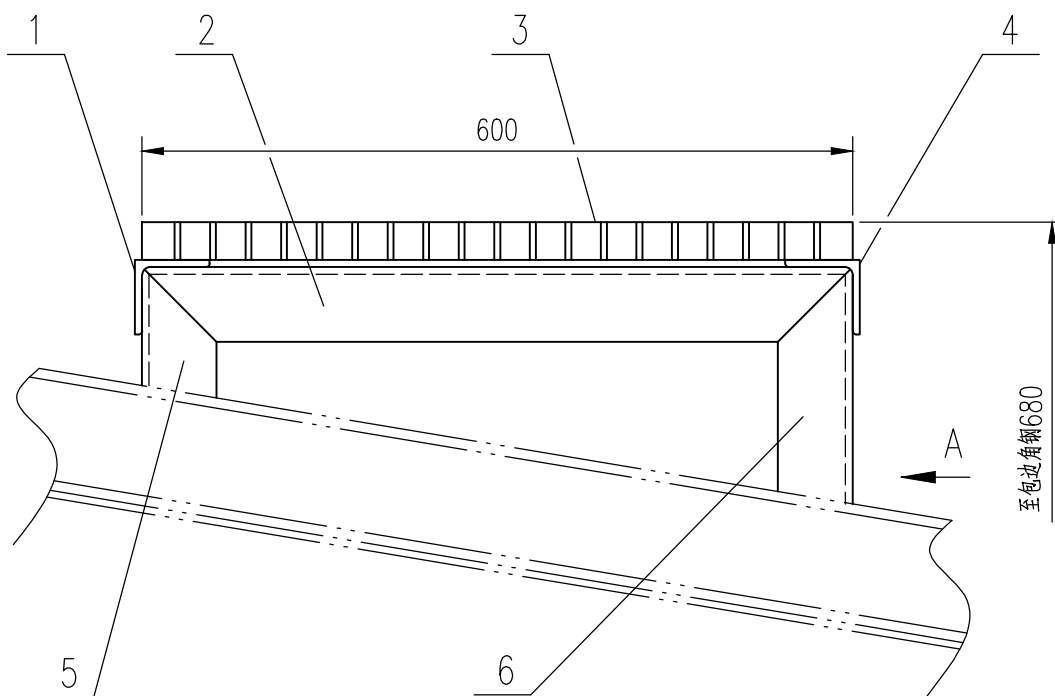
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SPECI	EQUIPMENT	AREA	—	SCALE	1:40	SHT. 1	OF 1
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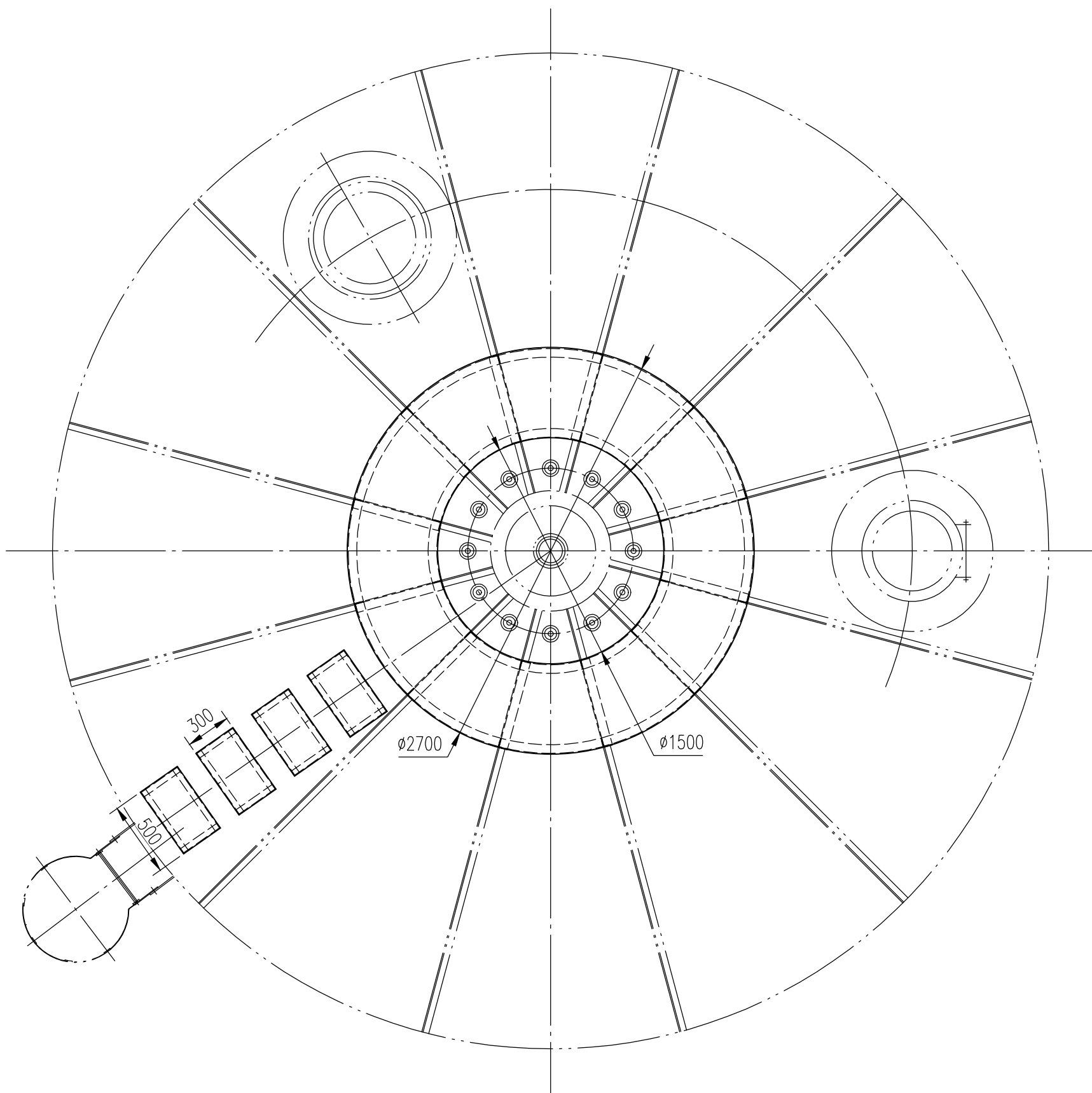
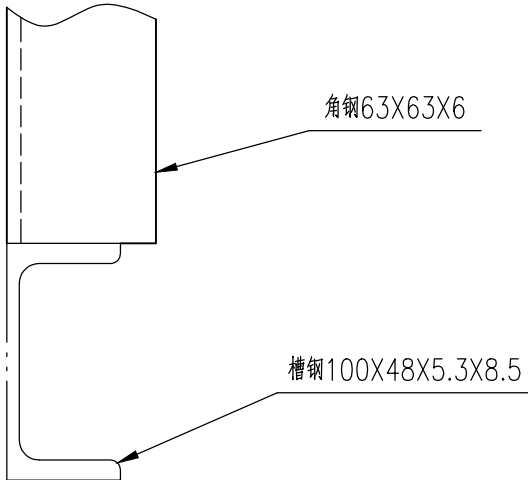




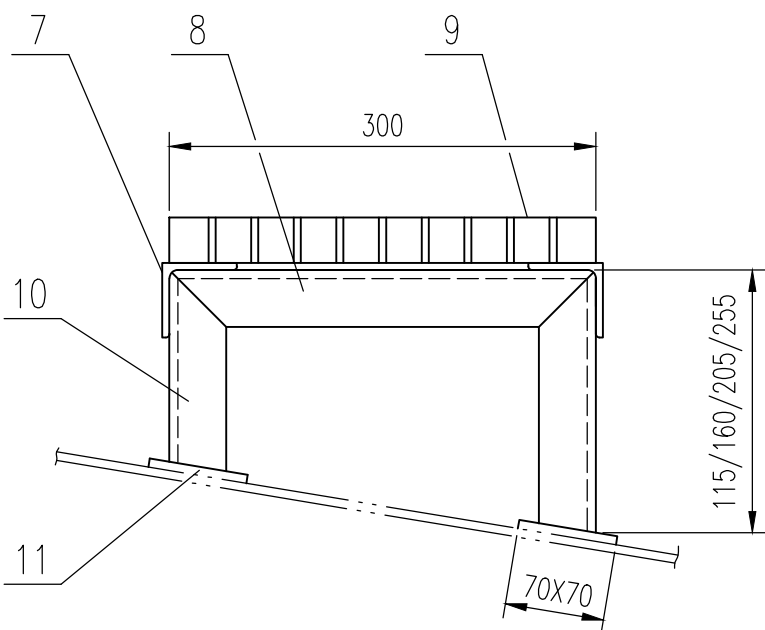
罐顶环形平台详图
TANK TOP ANNULAR PLATFORM
1:6



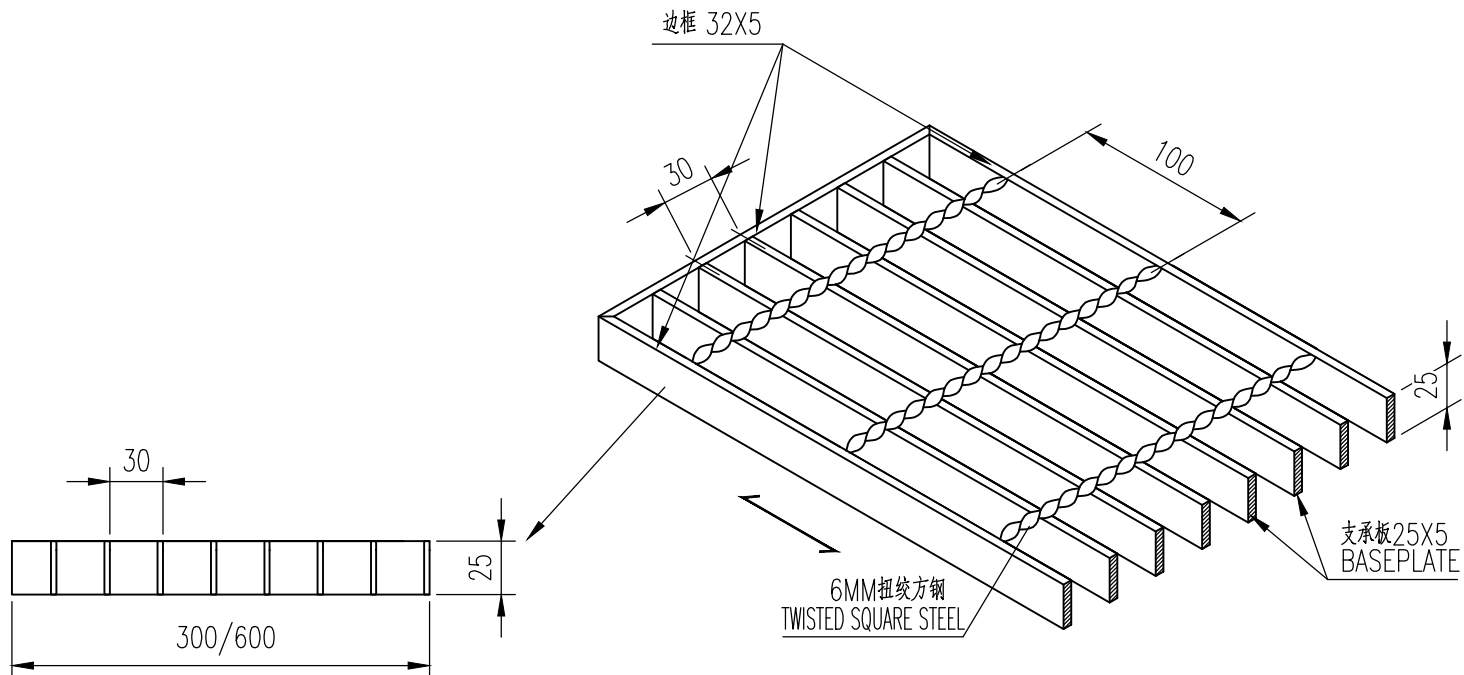
A向
1:3



罐顶踏步详图
TANK TOP STEP
1:5



平台踏步格栅板详图
PLATFORM STEP GRATING PLATE
1:4



技术要求
Technical Requirements

- 除注明外, 焊接采用连续焊, 焊缝焊脚尺寸按较薄板厚度。
Unless otherwise specified, continuous welding shall be adopted, with fillet weld leg size equal to the thickness of the thinner plate.
- 焊材: E4315 (Q235B)。
Welding material: E4315 (for Q235B).
- 踏步支撑加设罐顶连续焊接接头可适当移动支撑位置。
If step supports encounter continuous welded joints on the tank roof, the support positions may be adjusted appropriately.
- 平台支撑结构上端设镀锌钢板, 型号为G255/30/100, 钢板直立采用安装夹与支撑梁平面连接, 安装夹由钢板制造厂配套提供, 执行标准为YB/T 4001.1-2019《钢格栅板及附件》。
Galvanized steel grating (type G255/30/100) shall be installed on the platform support structure. The grating shall be securely connected to supporting beams using fixing clamps, which shall be provided by the grating manufacturer as matching components, complying with YB/T 4001.1-2019 Steel Grating Plates and Fittings.
- 平台方位见布置专业管口方位图。
The platform orientation shall follow the piping nozzle orientation drawing prepared by the layout department.

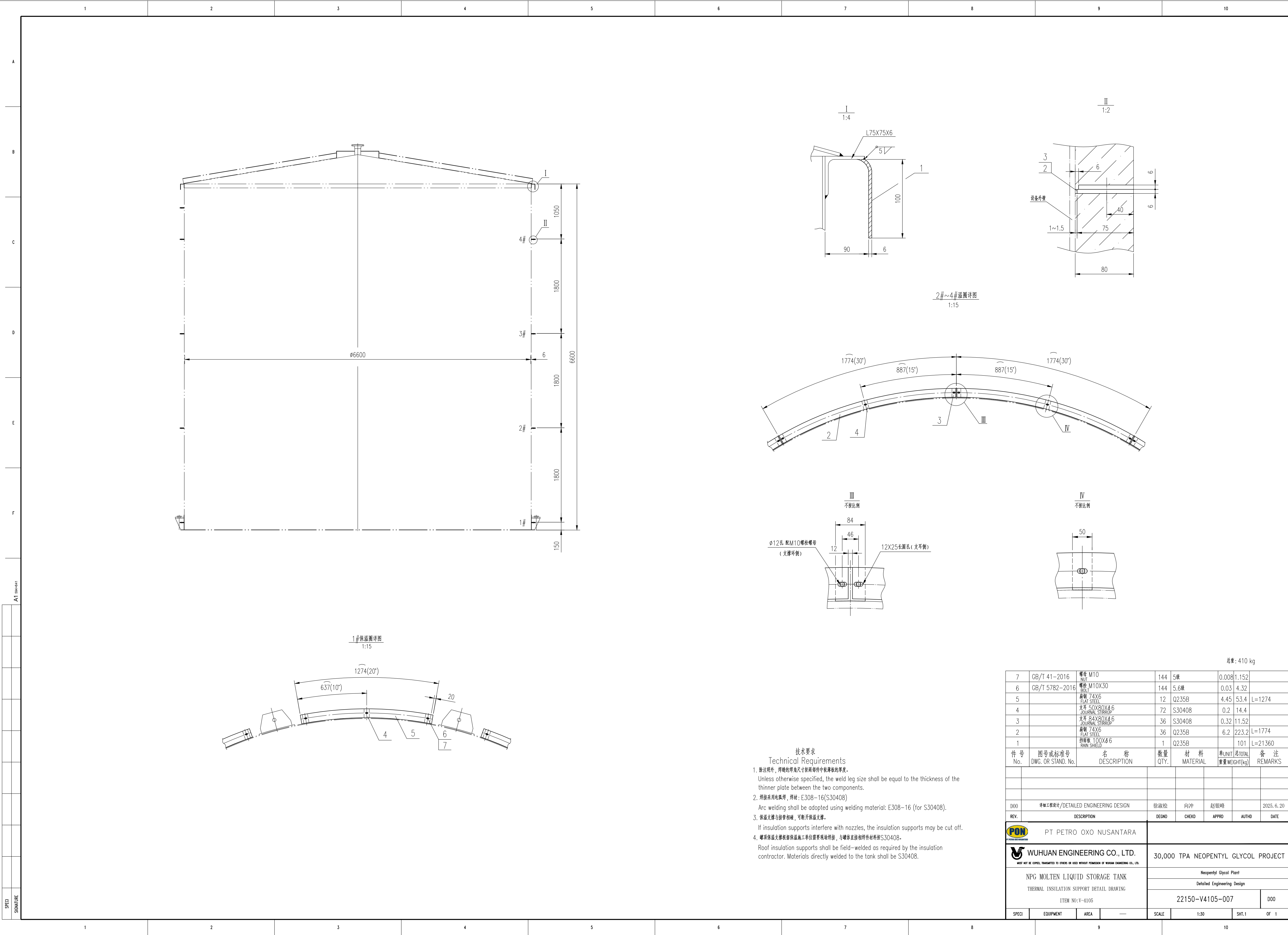
总重: 405 kg

11		垫板 70X70X6 PAD	16	S30408	0.23	3.68	
10		踏步支撑 L40X40X5 STEP SUPPORT	8根	Q235B	0.7	11.2	
9	YB/T 4001.1-2019	走道踏板 G255/30/100 WALKWAY PLANKING	0.6m²	Q235B		24	
8		径向支撑 L40X40X5 RADIAL SUPPORT	8	Q235B	0.9	7.2	L=300
7		环向支撑 L40X40X5 CIRCUMFERENTIAL SUPPORT	8	Q235B	1.5	12	L=500
6		罐顶平台外支撑柱 L63X63X6 EXTERNAL SUPPORT COLUMN OF ANNULAR PLATFORM	12	Q235B	1.2	14.4	L=210
5		罐顶平台内支撑柱 L63X63X6 SUPPORT COLUMN IN ANNULAR PLATFORM	12	Q235B	0.63	7.56	L=110
4		罐顶平台外圈环梁 L63X63X6 RING BEAM OF OUTER RING OF RING PLATFORM	1	Q235B		48.6	L=8485
3	YB/T 4001.1-2019	平台踏板 G255/30/100 WALKWAY PLANKING	4.0m²	Q235B		204	
2		罐顶平台径向支撑 L63X63X6 RADIAL SUPPORT OF ANNULAR PLATFORM	12	Q235B	3.43	41.16	L=600
1		罐顶平台内圈环梁 L63X63X6 RING BEAM OF INNER RING OF RING PLATFORM	1	Q235B		27	L=4715

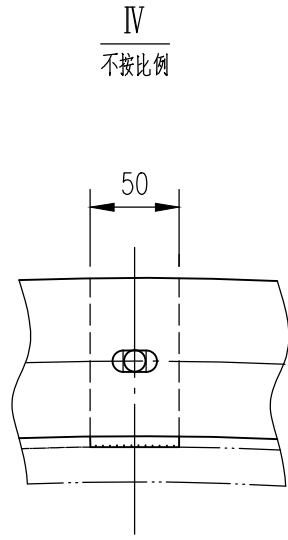
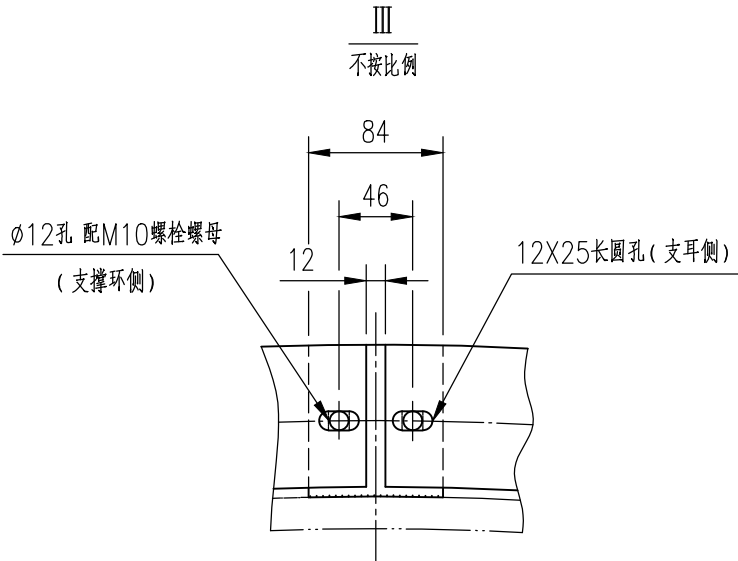
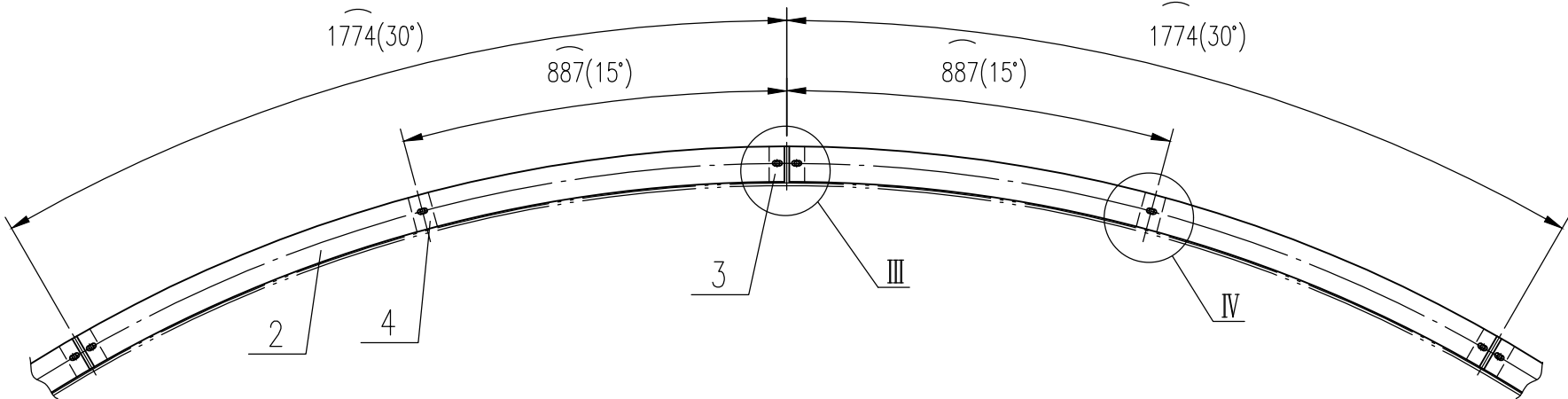
件号 No.	图号或标准号 DWG. OR STAND. No.	名称 DESCRIPTION	数量 QTY.	材料 MATERIAL	单重 UNIT WEIGHT(kg)	总重 TOTAL WEIGHT(kg)	备注 REMARKS
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DOO	详细工程设计/DETAILED ENGINEERING DESIGN	徐淑玲	向冲	赵银峰			2025. 6. 20
REV.	DESCRIPTION	DEGND	CHEKD	APPRD	AUTHD	DATE	

PT PETRO OXO NUSANTARA							
WUHUAN ENGINEERING CO., LTD.		30,000 TPA NEOPENTYL GLYCOL PROJECT					
NPG MOLTEN LIQUID STORAGE TANK		Neopentyl Glycol Plant					
LADDER、HANDRAIL & TOP PLATFORMS (2/2)		Detailed Engineering Design					
ITEM NO: V-4105		22150-V4105-006				DOO	
SPECI	EQUIPMENT	AREA	—	SCALE	1:30	SHT.2	OF 2



2#~4#保温圈详图
1:15



技术要求
Technical Requirements

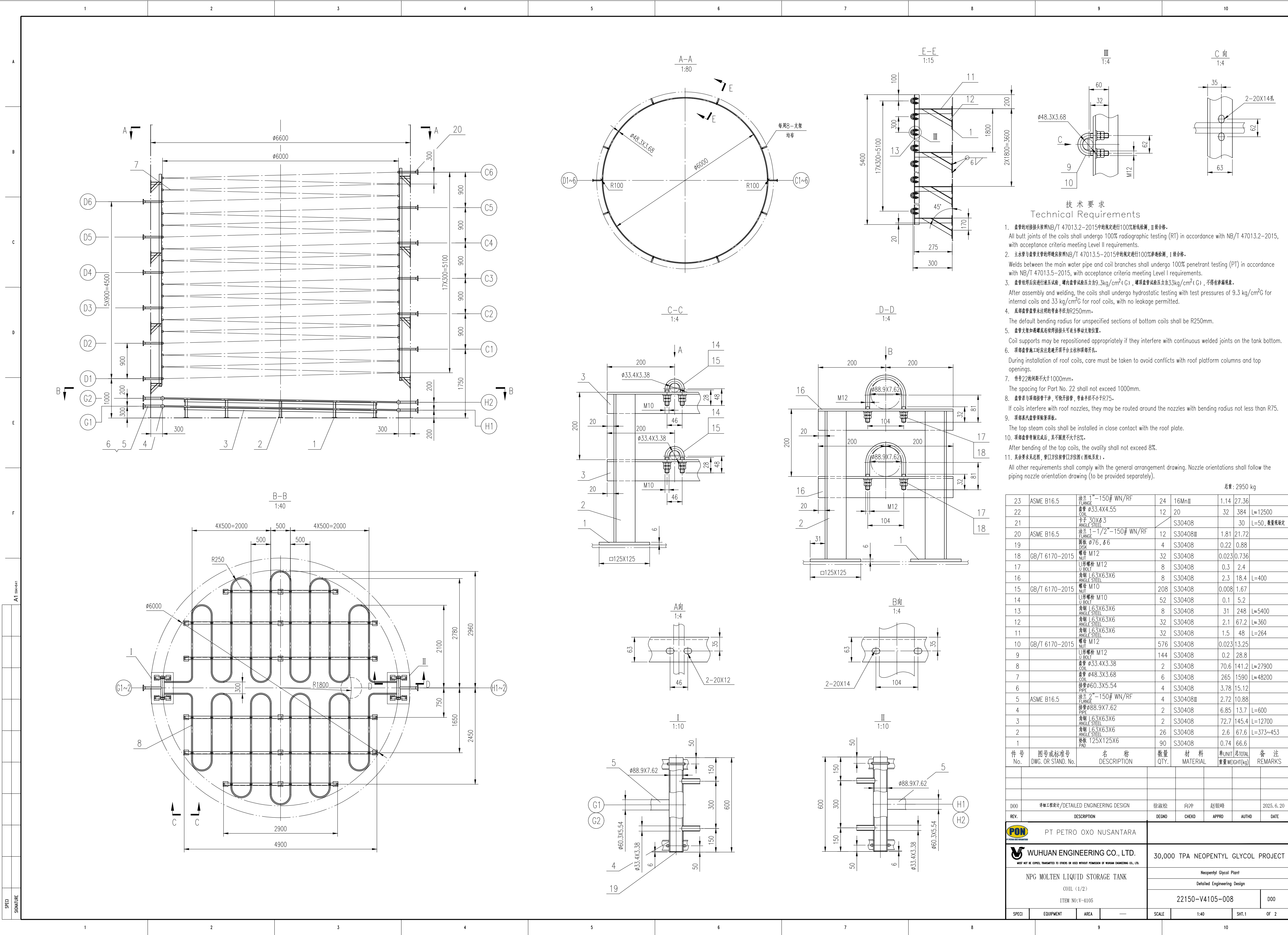
1. 除注明外, 焊缝的焊角尺寸按两部件中最薄板的厚度。
Unless otherwise specified, the weld leg size shall be equal to the thickness of the thinner plate between the two components.

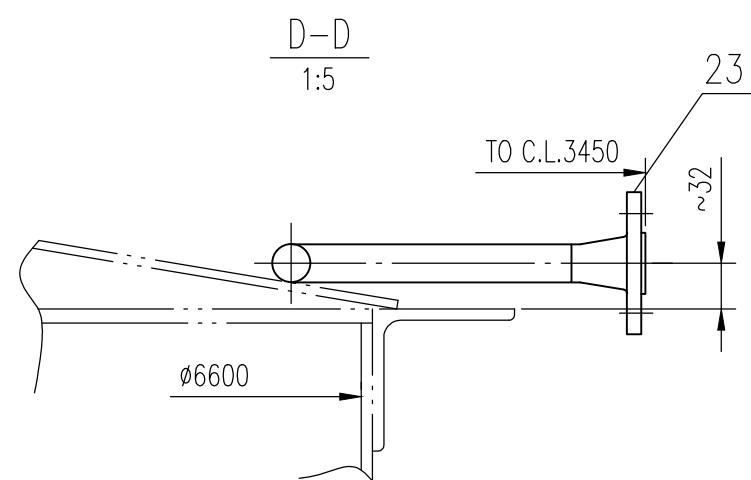
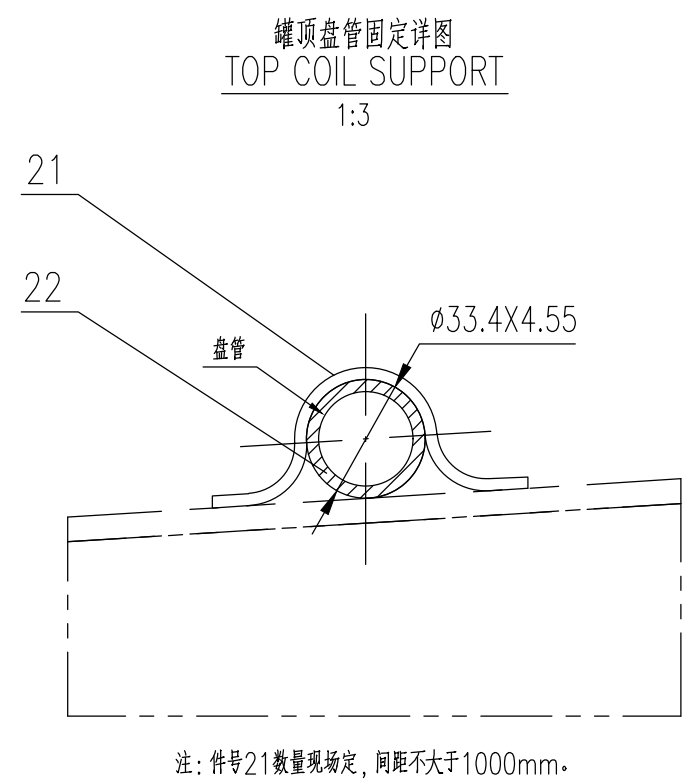
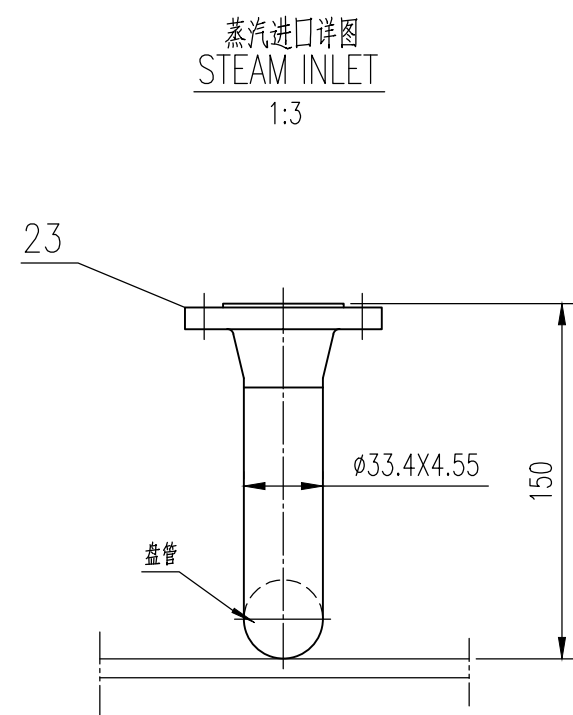
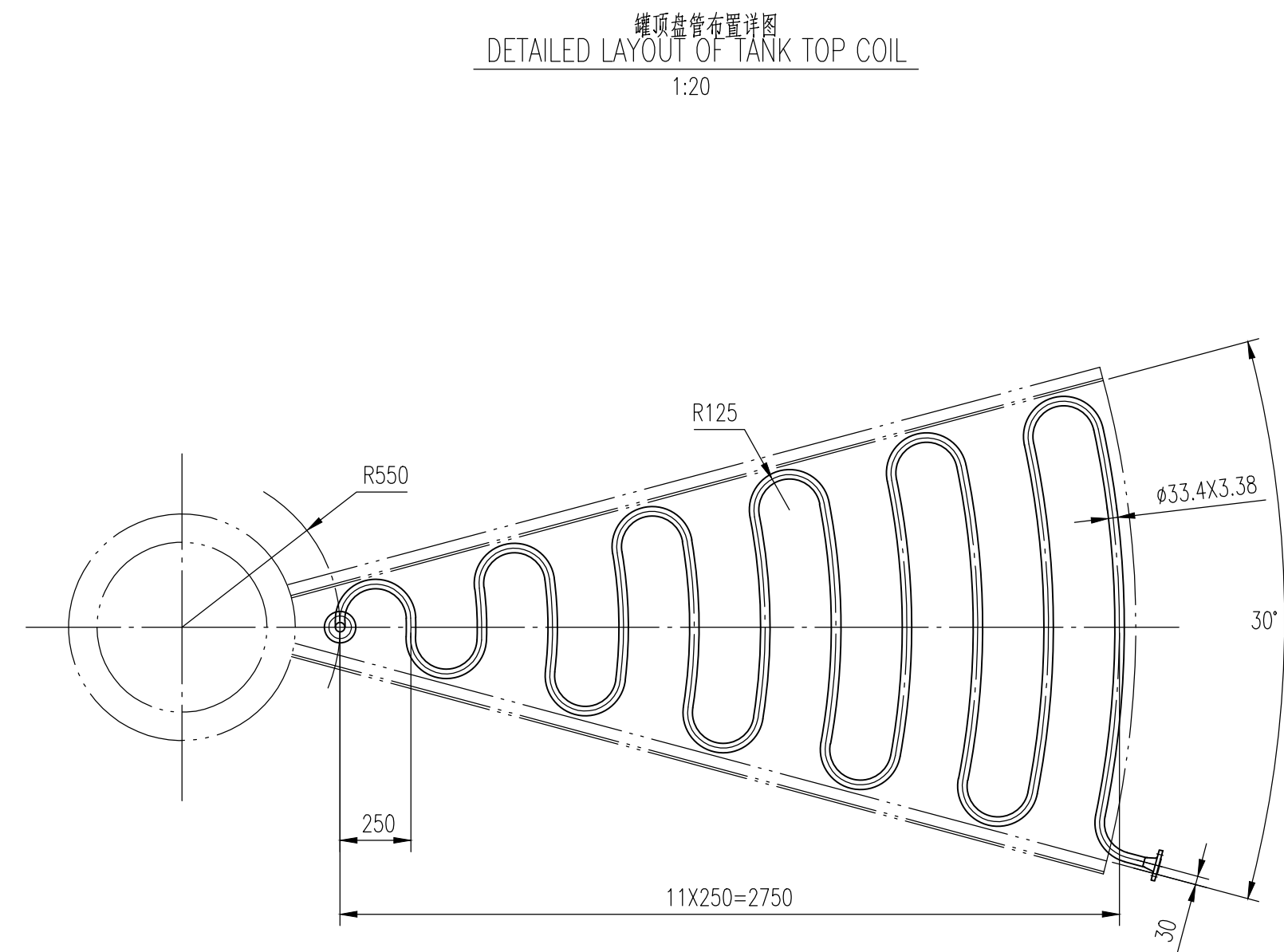
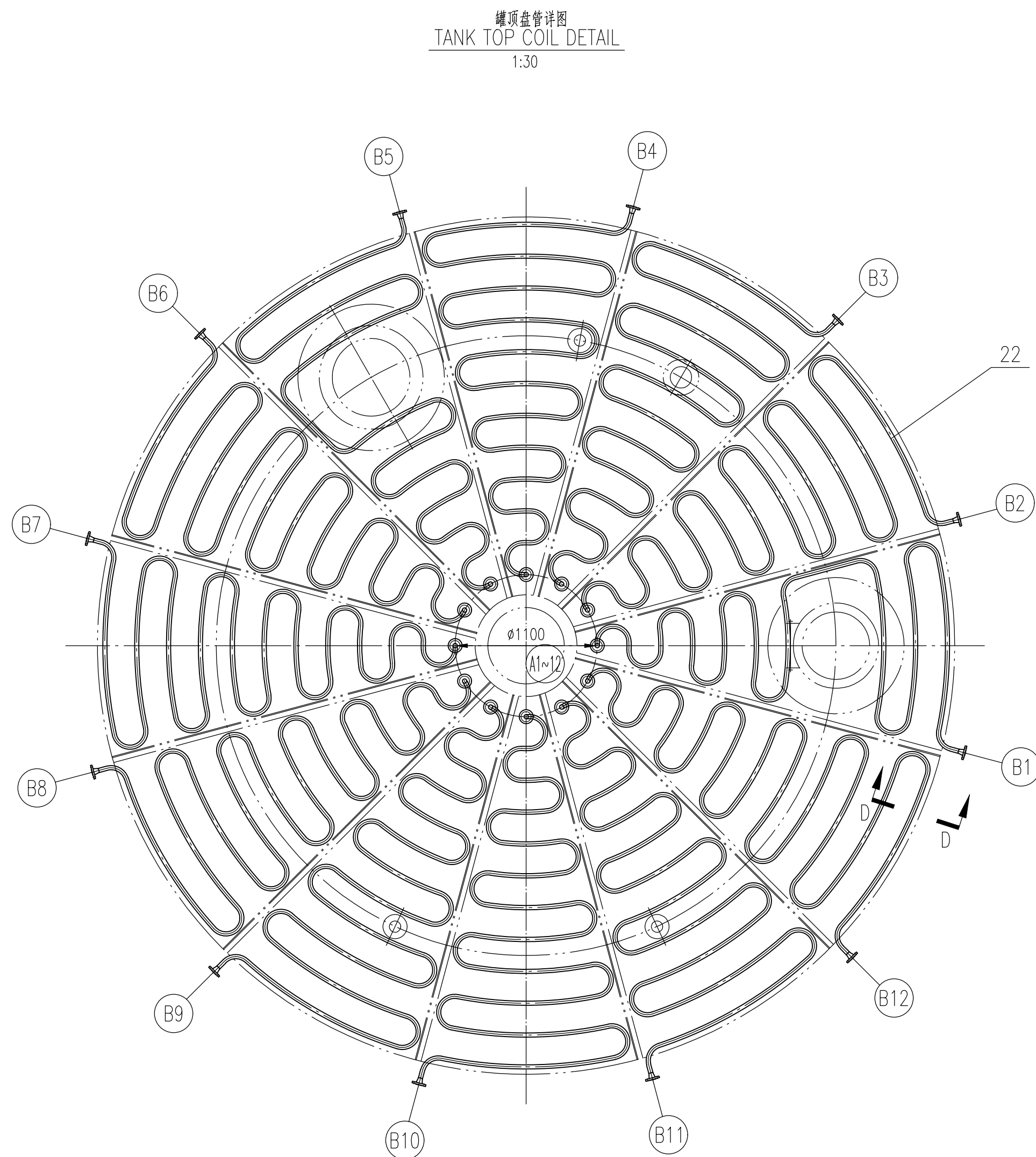
2. 焊接采用电弧焊, 焊材: E308-16(S30408)
Arc welding shall be adopted using welding material: E308-16 (for S30408).

3. 保温支撑与接管相碰, 可断开保温支撑。
If insulation supports interfere with nozzles, the insulation supports may be cut off.

4. 罐顶保温支撑根据保温施工单位需要现场焊接, 与罐体直接焊接材料按S30408。
Roof insulation supports shall be field-welded as required by the insulation contractor. Materials directly welded to the tank shall be S30408.

总重: 410 kg						
7	GB/T 41-2016	螺栓 M10 NUT	144	5级	0.008 1.152	
6	GB/T 5782-2016	螺栓 M10X30 BOLT	144	5.6级	0.03 4.32	
5		扁钢 74X6 FLAT STEEL	12	Q235B	4.45 53.4	L=1274
4		支耳 50X80X6 JOURNAL STRIP	72	S30408	0.2 14.4	
3		支耳 84X80X6 JOURNAL STRIP	36	S30408	0.32 11.52	
2		扁钢 74X6 FLAT STEEL	36	Q235B	6.2 223.2	L=1774
1		挡雨板 100X6 RAIN SHIELD	1	Q235B	101	L=21360
件 号 No.	图号或标准号 DWG. OR STAND. No.	名 称 DESCRIPTION	数量 QTY.	材 料 MATERIAL	单UNIT 重量WEIGHT(kg)	备 注 REMARKS
DOO	详细工程设计/DETAILED ENGINEERING DESIGN	徐淑松	向冲	赵银峰		2025. 6. 20
REV.	DESCRIPTION	DEGND	CHEKD	APPRD	AUTHD	DATE
PT PETRO OXO NUSANTARA						
WUHUAN ENGINEERING CO., LTD.			30,000 TPA NEOPENTYL GLYCOL PROJECT			
NPG MOLTEN LIQUID STORAGE TANK			Neopentyl Glycol Plant			
THERMAL INSULATION SUPPORT DETAIL DRAWING			Detailed Engineering Design			
ITEM NO:V-4105			22150-V4105-007			DOO
SPECI	EQUIPMENT	AREA	—	SCALE	1:30	SHT.1 OF 1





DOO	详细工程设计/DETAILED ENGINEERING DESIGN	徐淑松	向冲	赵银峰	2025. 6. 20
REV.	DESCRIPTION	DEGND	CHEKD	APPRD	AUTHD DATE
PT PETRO OXO NUSANTARA					
WUHUAN ENGINEERING CO., LTD.		30,000 TPA NEOPENTYL GLYCOL PROJECT			
NPG MOLTEN LIQUID STORAGE TANK		Neopentyl Glycol Plant			
COIL (2/2)		Detailed Engineering Design			
ITEM NO: V-4105		22150-V4105-008			DOO
SPECI	EQUIPMENT	AREA	—	SCALE	1:30
				SHT.2	OF 2