


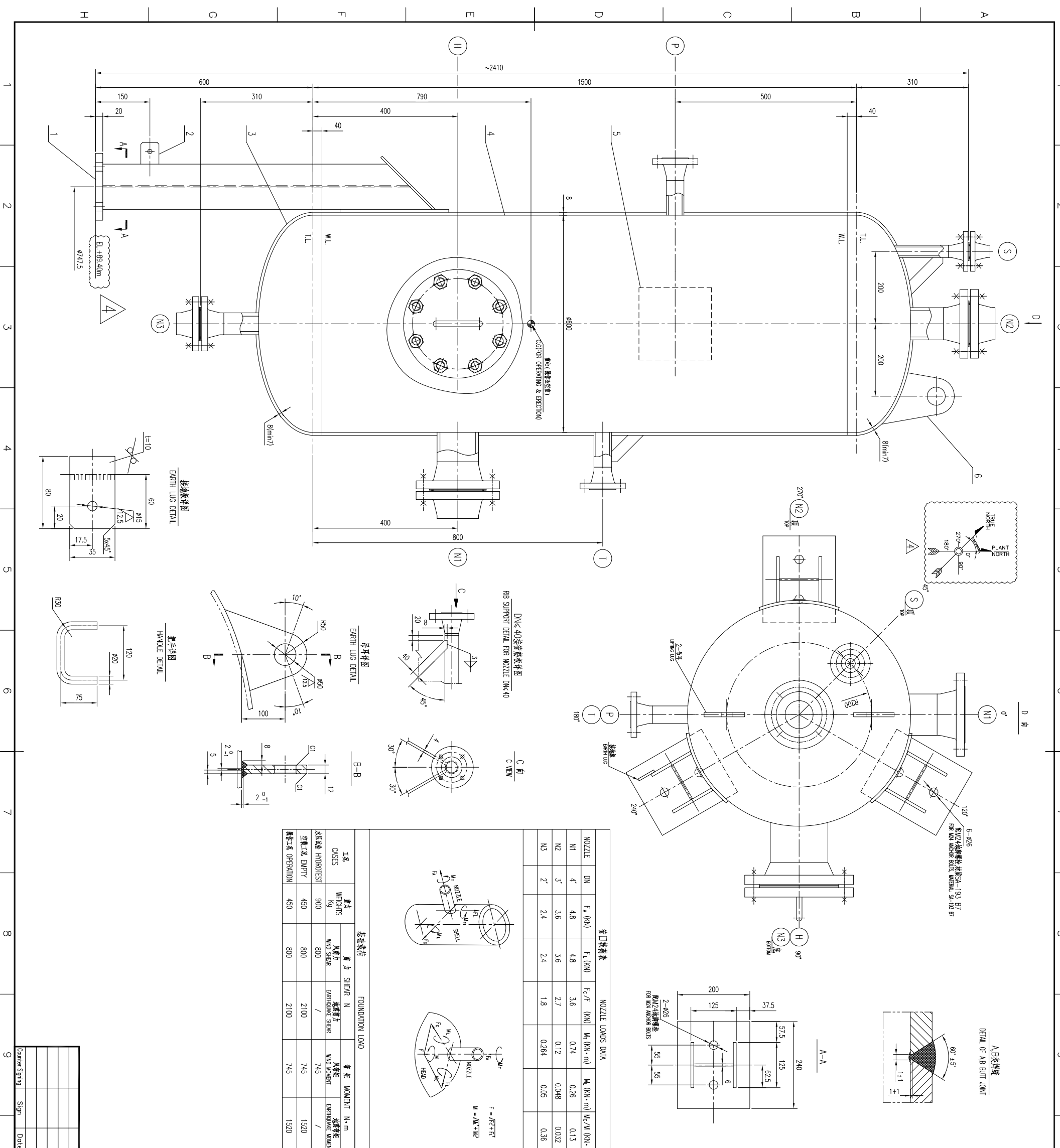


Contractor:  TIANCHEN CORP. CHINA	Project :	MKP Methanol Project			Owner :  شرکت کیمیای پارس خاورمیانه Middle East Kemiya Pars Co.
	Unit :	Flare	Phase	Detail Engineering	
	Doc. Title :	Fuel Gas Buffer Drum Drawing			
Vendor:  SUNPOWER GROUP LTD.	Owner No. :	MKP-VD-8500-237-310-A1			
	Contr. No.:	MKP-11-DE-9000-FE-REQ-237			
	Vendor No.	17013D85000EQ05			
				Rev. :4	Page : 1 of 7

Fuel Gas Buffer Drum Drawing

4	30.11.2018	Final Issue	Zhang Meng	Liu Hai Ying	Zhao Na	
3	9.11.2018	Final Issue	Zhang Meng	Liu Hai Ying	Zhao Na	
2	5.11.2018	Final Issue	Zhang Meng	Liu Hai Ying	Zhao Na	
1	15.03.2018	Final Issue	Zhang Meng	Liu Hai Ying	Zhao Na	
0	17.11.2017	Final Issue	Zhang Meng	Liu Hai Ying	Zhao Na	
C	20.09.2017	Issued For Approval	Zhang Meng	Liu Hai Ying	Zhao Na	
A	22.08.2017	Issued For Approval	Zhang Meng	Liu Hai Ying	Zhao Na	
REV.	DATE	PURPOSE OF ISSUE	PREPARE	CHECK	REVIEW	APPROVE



NOZZLE	DN	F ₁ (kN)	F ₂ (kN)	F _c /F _t (kN)	M ₁ (kN·m)	M ₂ (kN·m)	M ₃ (kN·m)	M ₄ (kN·m)
N1	4"	4.8	4.8	3.6	0.74	0.26	0.13	
N2	3"	3.6	3.6	2.7	0.12	0.048	0.032	
N3	2"	2.4	2.4	1.8	0.264	0.05	0.36	

工况 CASES	重量 WGT (KG)	风荷重 WIND SHEAR (KG)	剪力 SHEAR (N)	倾覆力矩 OVERHAULING MOMENT	弯矩 MOMENT (N·m)	倾覆力矩 OVERHAULING MOMENT
水球罐 HYDROTEST	900	800	2100	745	1520	
空球罐 EMPTY	450	800	2100	745	1520	
操作工况 OPERATION	450	800	2100	745	1520	

设计标准 DESIGN CODE	ASME SECTION VIII, 2015 ED.
设计压力 DESIGN PRESSURE	10/-11 barg
设计温度 DESIGN TEMP.	85 °C
工作压力 WORKING PRESSURE	3 barg
工作温度 WORKING TEMP.	35 °C
操作温度 RANGE	-10 to 10 °C
最大允许工作压力 MAWP	10 AT 85 °C
试验压力 TEST PRESSURE	13.16 (-96/0.96) barg
材料性能 MATERIAL PROPERTIES	SA-516 Gr. 70
腐蚀裕量 CORROSION ALLOWANCE	3 mm
使用寿命 SERVICE LIFE	20 years
密封材料 SEALING MATERIAL	PTFE
焊接接头效率 WELD JOINT EFFICIENCY	0.85
安全系数 SAFETY FACTOR	1.5
设计风速 DESIGN WIND SPEED	200.3 km/h
基本风压 BASIC WIND PRESSURE	0.35 kN/m²
风荷载 WIND LOAD	ASCE 7-2010
地震荷载 SEISMIC LOAD	ASCE 7-2010
保温厚度 INSULATION THK.	N/A
防腐表面处理 CORROSION PROTECTION	PAINT
包装及运输要求 PACKING & SHIPPING REQUIREMENT	ASME B7.1

接管号 NOZZLE NO.	规格 SPEC.	法兰 FLANGE	接管名称 SERVICE	备注 NOTES
N1	SAH40	RF	GAS INLET	WITH GASKET
N2	SAH40	RF	GAS OUTLET	WITH GASKET
N3	SAH40	RF	DRAIN	WITH GASKET
S	SAH80	RF	RELIEF VALVE	WITH GASKET
P	SAH80	RF	LOCAL PRESSURE GAUGE	WITH GASKET
T	SAH80	RF	LOCAL THERMOMETER	WITH GASKET
H	SAH40	RF	HANDHOLE	WITH GASKET

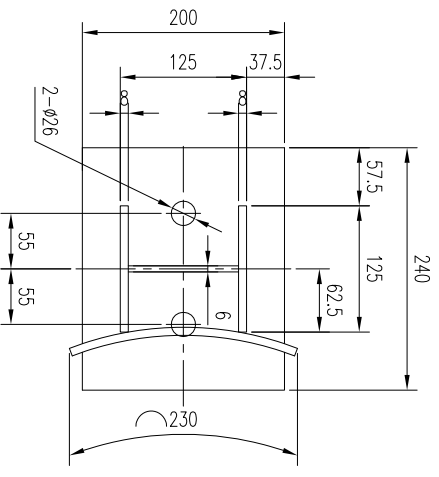
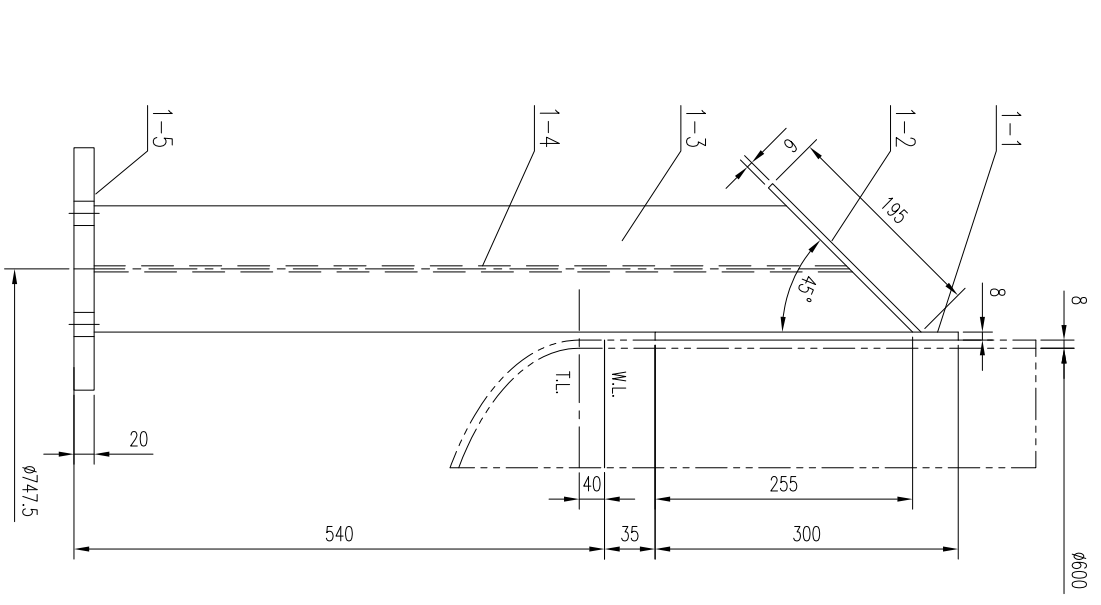
REV.	DATE	DESCRIPTION	BY	CHECKED	APPROVED
1	11.30.2018	Final Issue	M. ZHANG	M. ZHANG	N. ZHAO
2	11.9.2018	Final Issue	M. ZHANG	M. ZHANG	N. ZHAO
3	11.5.2018	Final Issue	M. ZHANG	M. ZHANG	N. ZHAO
4	3.15.2017	Final Issue	M. ZHANG	M. ZHANG	N. ZHAO
5	11.17.2017	Final Issue	M. ZHANG	M. ZHANG	N. ZHAO
6	9.20.2017	Final Issue	M. ZHANG	M. ZHANG	N. ZHAO
7	7.21.2017	Final Issue	M. ZHANG	M. ZHANG	N. ZHAO

OWNER: Middle East
Kimiyae Pars Company

CONTRACTOR: TCC 中国天辰工程技术有限公司
CHINA TIANCHEN ENGINEERING CORPORATION

DESIGNER: Jiangsu Zhongsheng High Technology Industry Co., Ltd.

SCALE: 1:5	SHEET 1	TOT. 4	SIZE: A1
OWNER: M&P	OWNER: M&P	OWNER: M&P	OWNER: M&P

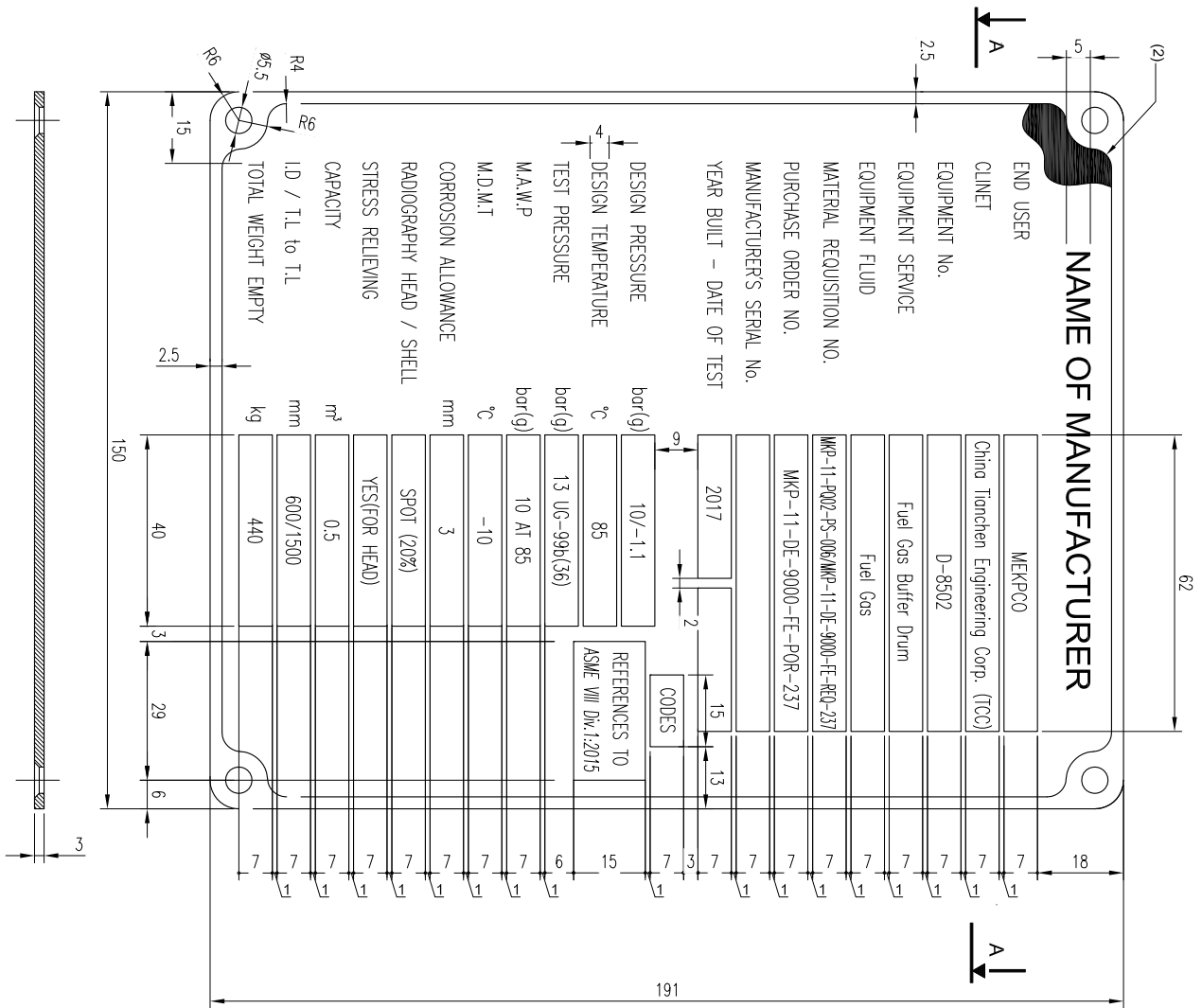


件号	图号或标准号	名称	数量	材料	单重 (kg)	总重 (kg)	备注
PARTS NO.	DWG. NO. OR STD. NO.	PARTS NAME	QTY.	MAT'L	SINGLE MASS (kg)	TOTAL MASS (kg)	REMARKS
1-5		盖板 t=20 BASE PLATE	1	SA-516 Gr.70		5.4	
1-4		腹板 t=6 MIDDLE PLATE	1	SA-516 Gr.70		4.3	
1-3		罩板 t=8 SIDE PLATE	2	SA-516 Gr.70	6.7	13.4	
1-2		盖板 t=6 COVER PLATE	1	SA-516 Gr.70		1.4	
1-1		垫板 t=8 PAD	1	SA-516 Gr.70		4.2	

支腿	名称	材料	质量 (kg)	比例	所在图号	装配图号
PARTS NO.	PARTS NAME	MAT'L	MASS	SCALE	DWG. NO.	GA DWG. NO.
1	SUPPORT LEG	SA-516 Gr.70	28.7	1:5	17013085000E005-03	17013085000E005-01
△	Final Issue				11.30.2018	M ZHANG
△	Final Issue				11.9.2018	M ZHANG
△	Final Issue				11.5.2018	M ZHANG
△	Final Issue				3.15.2017	M ZHANG
△	Final Issue				11.17.2017	M ZHANG
△	Issued For Approval				9.20.2017	M ZHANG
△	Issued For Approval				7.21.2017	M ZHANG

OWNER: Middle East
Kimiaye Pars Company

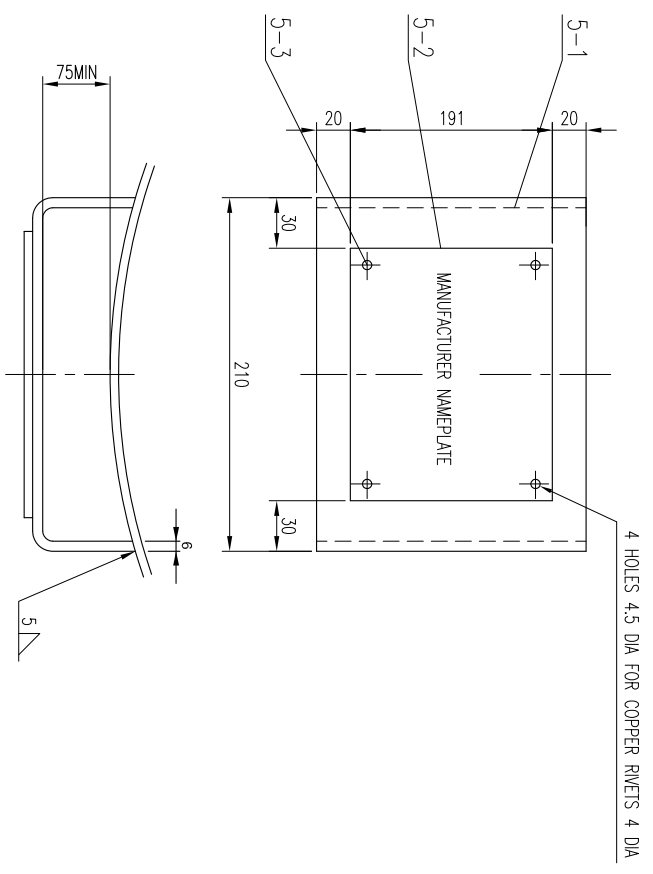
LICENSOR	HALDOR TOPSØE A/S	CONTRACTOR DRAWING NO.	
CONTRACTOR	TCC 中国天辰工程有限公司 CHINA TIANCHEN ENGINEERING CORPORATION	MKP-11-DE-9000-FE-REQ-237	
VENDOR	江苏中圣高科技产业有限公司 JIANGSU SUNPOWER TECHNOLOGY CO., LTD	SHEET 01 TOTAL 01	
Fuel Gas Buffer Drum D-8502 Parts Drawing		VENDOR DRAWING NO.	
PROJECT		17013085000E005-03	
UNIT		SHEET 03 TOTAL 04	
PHASE		MKP Methanol Project	
OWNER		Flare	
DWG. NO.		Detail Engineering	
SCALE 1:5	SHEET 3	TOT. 4	SIZE A2
OWNER		MKP-VD-8500-237-310-A1	



SECTION A-A

技术要求 GENERAL NOTES

- 铭牌上的字符、外框和钢印推应凸起，其表面抛光。其余部位蚀刻深度1mm，且背景漆成黑色。CHARACTERS, FRAME AND STAMPING SQUARES IN THE NAME PLATE SHALL BE EMBOSSED AND THEIR FACES SHALL BE POLISHED BY BUFFING, THE OTHER PART SHALL BE ETCHED 1mm IN DEPTH, BACKGROUND PAINTED BLACK.
- 规范标志及日期用钢印打在铭牌上，其余标志以蚀刻方法标志在铭牌上。NAMEPLATE MAY HAVE MARKINGS PRODUCED BY ETCHING, EXCEPT THAT THE CERTIFICATION MARK AND DATA SHALL BE STAMPED ON THE NAMEPLATE.
- 采用罗马字体，且应明显易读。ALL THE CHARACTERS SHALL BE ROMANS STYLE AND ALSO SHALL BE LEGIBLE AND READABLE.
- 铭牌上的各种标志，其字符高度不小于4mm。ALL THE CHARACTERS IN THE NAMEPLATE SHALL BE NOT LESS THAN 4mm HEIGHT.
- 编号和制造年份终检之后填写。MANUF. SERIAL NO. AND YEAR BUILT TO BE PUNCHED AT WORKSHOP AFTER FINAL INSPECTION.



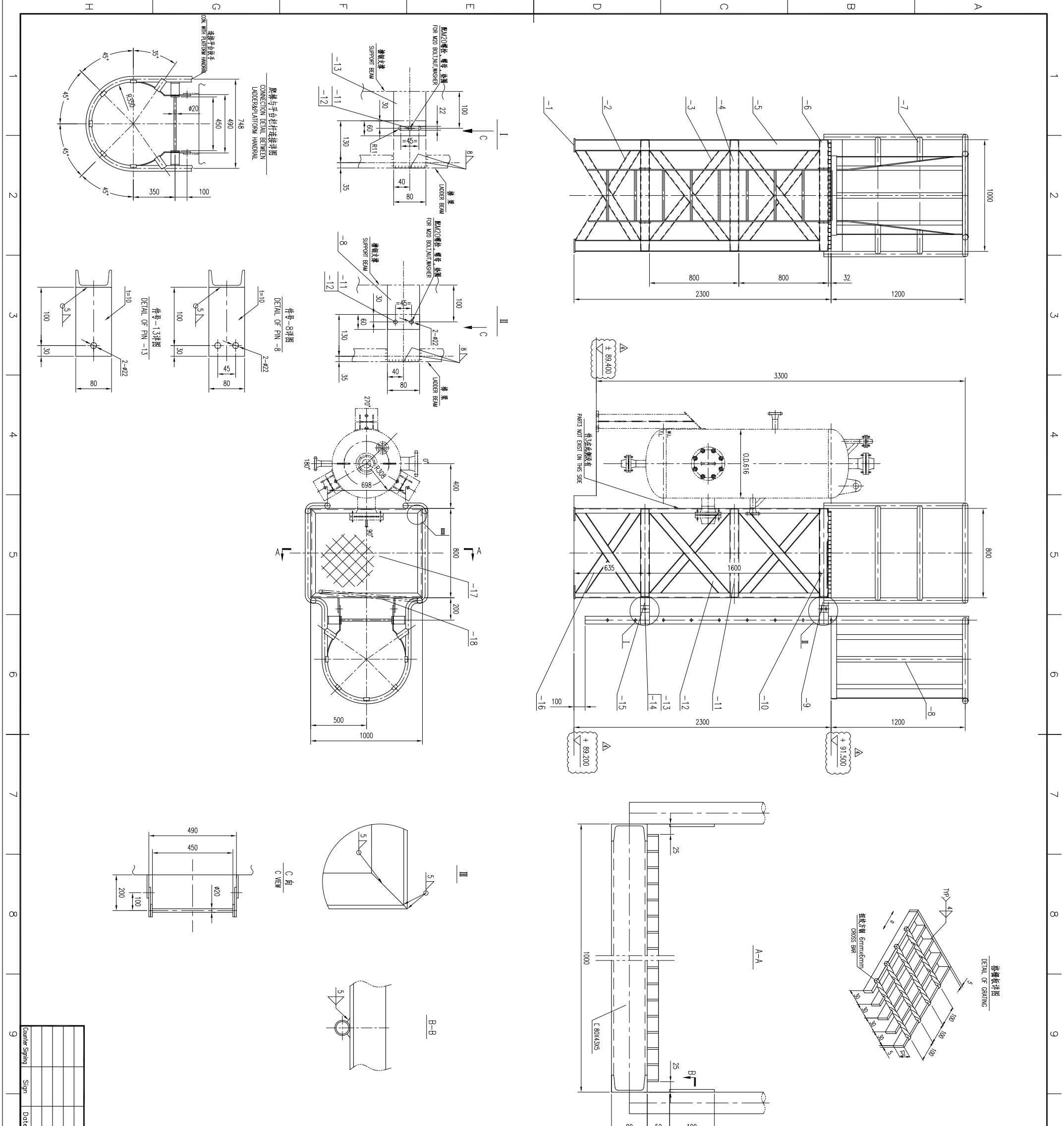
NAME PLATE MOUNTING BRACKET

件号	图号或标准号	名称	数量	材料	单重	总重	备注
PARTS NO.	DWG. NO. OR STD. NO.	PARTS NAME	QTY.	MAT'L	SINGLE MASS (kg)	TOTAL MASS (kg)	REMARKS
5-3		螺钉 M4x10 SET SCREW	4	304 S.S	0.04	0.16	
5-2		铭牌架 1=6 NAMEPLATE BRACKET	1	SA-516 Gr.70	2.6	2.6	
5-1		铭牌 1=3 NAMEPLATE	1	304 S.S	0.4	0.4	

件号	名称	材料	质量(kg)	比例	所在图号	装配图号
PARTS NO.	PARTS NAME	MAT'L	MASS	SCALE	DWG. NO.	GA DWG. NO.
△	Final Issue	11.30.2018	M. ZHANG	M. ZHANG	HY LIU	N. ZHAO
△	Final Issue	11.9.2018	M. ZHANG	M. ZHANG	HY LIU	N. ZHAO
△	Final Issue	11.5.2018	M. ZHANG	M. ZHANG	HY LIU	N. ZHAO
△	Final Issue	3.15.2017	M. ZHANG	M. ZHANG	HY LIU	N. ZHAO
△	Final Issue	11.17.2017	M. ZHANG	M. ZHANG	HY LIU	N. ZHAO
△	Issued For Approval	9.20.2017	M. ZHANG	M. ZHANG	HY LIU	N. ZHAO
△	Issued For Approval	7.21.2017	M. ZHANG	M. ZHANG	HY LIU	N. ZHAO

OWNER: Middle East
Kimiaye Pars Company

LICENSOR	HALDOR TOPSØE A/S	CONTRACTOR DRAWING NO.	MKP-11-DE-9000-FE-REQ-237
CONTRACTOR	TCC 中国天辰工程有限公司 CHINA TIANCHEN ENGINEERING CORPORATION	VENDOR DRAWING NO.	17013085000E005-04
VENDOR	江苏中圣高科技产业有限公司 JIANGSU SUNPOWER TECHNOLOGY CO., LTD	SHEET	04 TOTAL 04
PROJECT		MKP Methanol Project	
UNIT		Flare	
PHASE		Detail Engineering	
SCALE	1:5	SHEET	4
TOT.	4	SIZE	A2
OWNER	MKP-VD-8500-237-310-A1	DWG. NO.	



- ### 技术要求 GENERAL NOTES
1. 本图所有标注均按最新国家标准执行。
 2. 本图所有标注均按最新国家标准执行。
 3. 本图所有标注均按最新国家标准执行。
 4. 本图所有标注均按最新国家标准执行。

序号	图号/规格	名称	数量	材料	重量 (kg)	备注
-18	17013085000005-06	平台门	1	钢	16	
-17	17013085000005-06	平台门	1	钢	16	
-16	17013085000005-06	平台门	1	钢	16	
-15	17013085000005-06	平台门	1	钢	16	
-14	17013085000005-06	平台门	1	钢	16	
-13	17013085000005-06	平台门	1	钢	16	
-12	17013085000005-06	平台门	1	钢	16	
-11	17013085000005-06	平台门	1	钢	16	
-10	17013085000005-06	平台门	1	钢	16	
-9	17013085000005-06	平台门	1	钢	16	
-8	17013085000005-06	平台门	1	钢	16	
-7	17013085000005-06	平台门	1	钢	16	
-6	17013085000005-06	平台门	1	钢	16	
-5	17013085000005-06	平台门	1	钢	16	
-4	17013085000005-06	平台门	1	钢	16	
-3	17013085000005-06	平台门	1	钢	16	
-2	17013085000005-06	平台门	1	钢	16	
-1	17013085000005-06	平台门	1	钢	16	

Middle East
Kimiyeh Pars Company

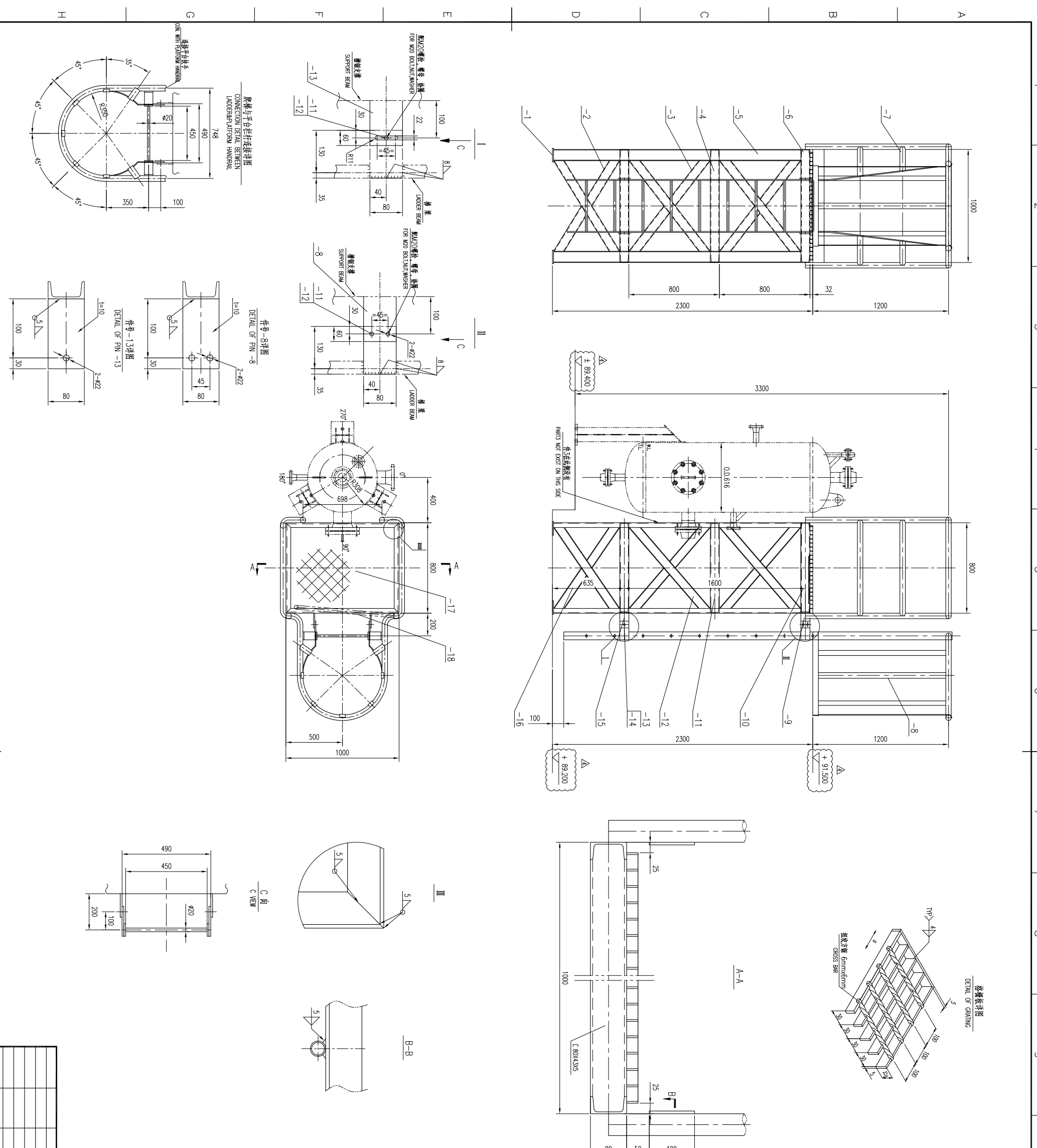
OWNER: Middle East Kimiyeh Pars Company

CONTRACTOR: 中国天辰工程技术有限公司

CONTRACTOR DRAWING NO: KMP-11-DE-9000-FE-RCO-237

SHEET 01 TOTAL 01

SCALE 1:10 SHEET 5 TOTAL 6



技术要求 GENERAL NOTES

1. 未注焊缝按GB 50205-2001中规定的等级进行施焊。
2. 本图所示为燃料气缓冲罐的附件，其重量不计入罐体重量。
3. 平台板按GB 700-2006中规定的Q235B钢板制造，厚度为10mm。
4. 平台板与罐体连接处应加设加强筋，其间距不大于600mm。
5. 平台板与罐体连接处应加设加强筋，其间距不大于600mm。
6. 平台板与罐体连接处应加设加强筋，其间距不大于600mm。
7. 平台板与罐体连接处应加设加强筋，其间距不大于600mm。
8. 平台板与罐体连接处应加设加强筋，其间距不大于600mm。
9. 平台板与罐体连接处应加设加强筋，其间距不大于600mm。
10. 平台板与罐体连接处应加设加强筋，其间距不大于600mm。
11. 平台板与罐体连接处应加设加强筋，其间距不大于600mm。
12. 平台板与罐体连接处应加设加强筋，其间距不大于600mm。

序号	图号	名称	数量	材料	重量 (kg)	备注
1	17013085000005-05	平台板	1	Q235B	16	
2	17013085000005-06	平台梁	2	Q235B	16	
3	17013085000005-07	平台柱	2	Q235B	16	
4	17013085000005-08	平台扶手	2	Q235B	16	
5	17013085000005-09	平台栏杆	2	Q235B	16	
6	17013085000005-10	平台踏步	2	Q235B	16	
7	17013085000005-11	平台扶手管	2	Q235B	16	
8	17013085000005-12	平台扶手管	2	Q235B	16	
9	17013085000005-13	平台扶手管	2	Q235B	16	
10	17013085000005-14	平台扶手管	2	Q235B	16	
11	17013085000005-15	平台扶手管	2	Q235B	16	
12	17013085000005-16	平台扶手管	2	Q235B	16	
13	17013085000005-17	平台扶手管	2	Q235B	16	
14	17013085000005-18	平台扶手管	2	Q235B	16	
15	17013085000005-19	平台扶手管	2	Q235B	16	
16	17013085000005-20	平台扶手管	2	Q235B	16	
17	17013085000005-21	平台扶手管	2	Q235B	16	
18	17013085000005-22	平台扶手管	2	Q235B	16	

REV	DESCRIPTION	DATE	DESIGN	CHECK	REVIEW	APPROVE
1	Final Issue	11.30.2018	M. ZHANG	HY LIU	N. ZHAO	
2	Final Issue	11.9.2018	M. ZHANG	HY LIU	N. ZHAO	
3	Final Issue	3.15.2018	M. ZHANG	HY LIU	N. ZHAO	
4	Final Issue	1.25.2018	M. ZHANG	HY LIU	N. ZHAO	

Middle East
Kimiyeh Pars Company

中国天辰工程技术有限公司
CHINA TIANCHEN ENGINEERING CORPORATION

江苏中圣高科技产业有限公司
JIANGSU SUNPOWER TECHNOLOGY CO., LTD

供应商: 17013085000005-05
承包商: 17013085000005-06
设计: 05
审核: 06

SCALE 1:10	SHEET 5	TOT. 6	SIZE A1
OWNER: M&P	OWNER: M&P	OWNER: M&P	OWNER: M&P
PHASE: Detail Engineering	PHASE: Detail Engineering	PHASE: Detail Engineering	PHASE: Detail Engineering

