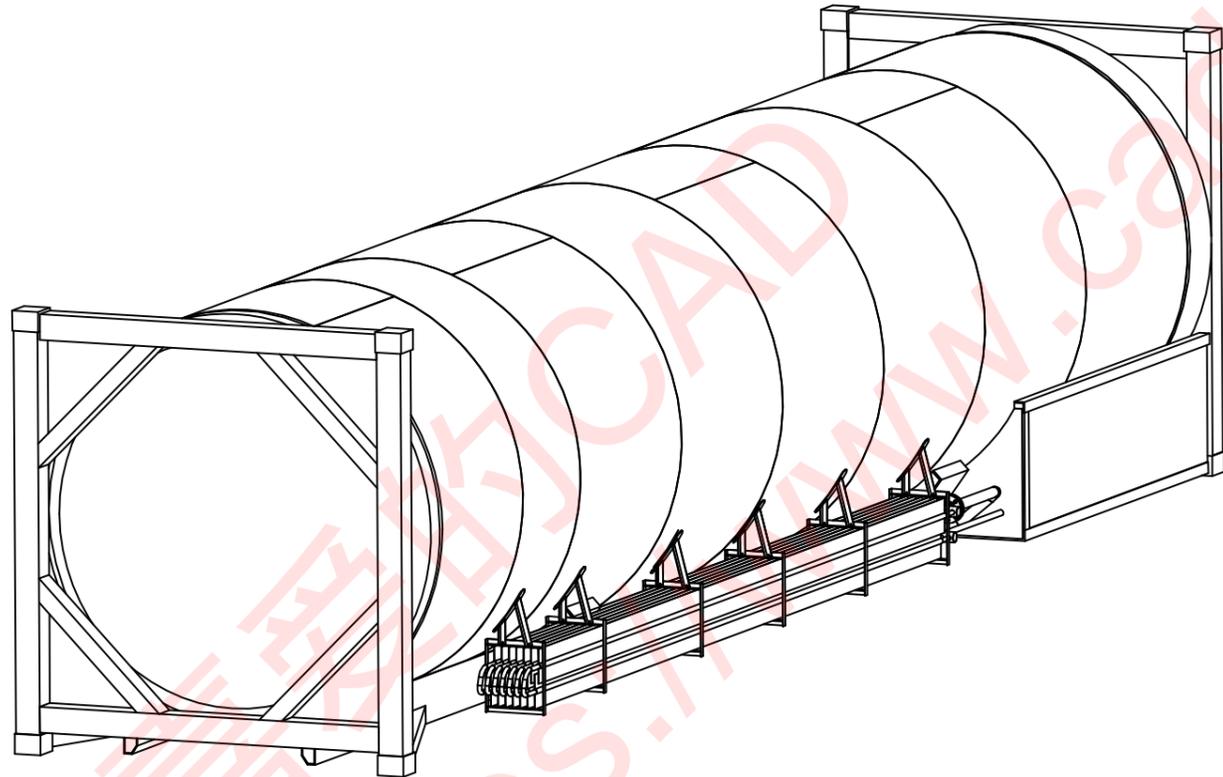
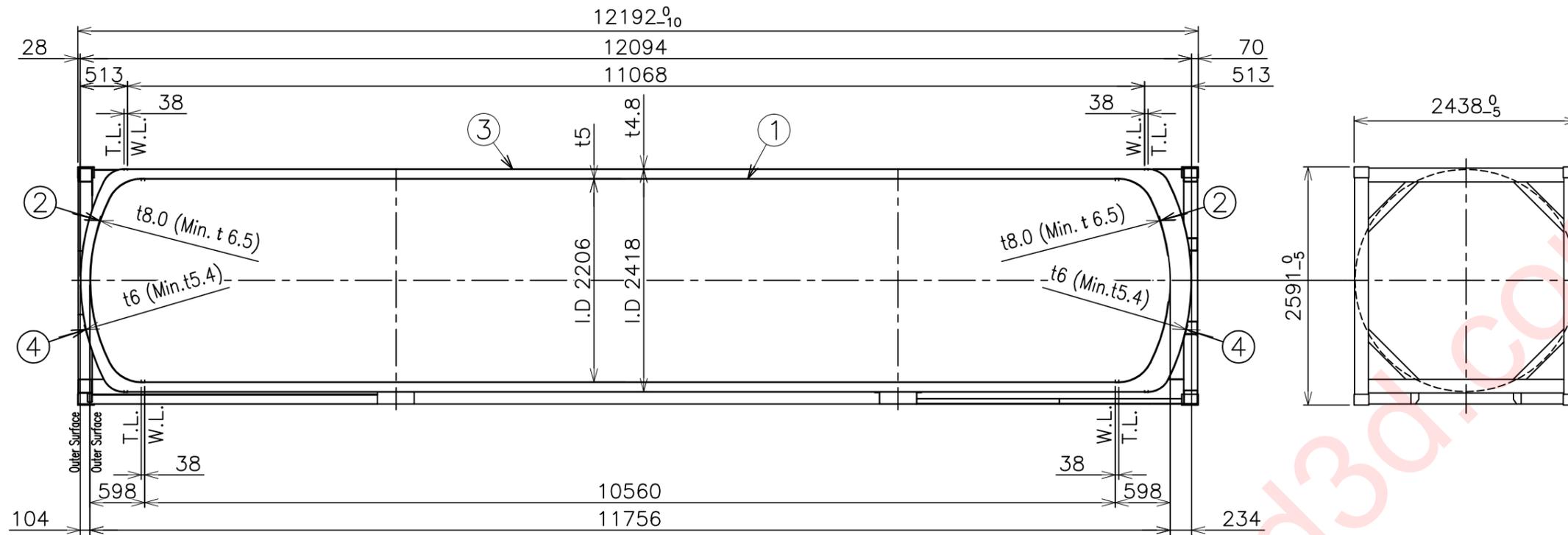


Attachment-1



Specification		
Applicable Law	Marine Vessel Safety Act	
Tank Type	Portable Tank	
Tank Form	Horizontal Cylindrical Double Walled	
Items	Inner Shell	Outer Jacket
Loading Liquefied Gas	Liquefied Natural Gas	—
Warm Full Volume	43,445 L (11,477 gal)	—
Maximum LNG Volume	39,100 L (10,329 gal)	—
Maximum LNG Load	17,986 kg (39,652 lb)	—
Design Pressure	801 kPaG (116.1 PSIG)	F.V.
MAWP	690 kPaG (100 PSIG)	—
MARVS	690 kPaG (100 PSIG)	—
Design Temperature	-195~+40°C	-28~+50°C
Pressure Test	1027 kPaG (149 PSIG)	—
Pneumatic Test	621 kPaG (90 PSIG)	100 kPaG (14.5 PSIG)
X-ray Test	100%	—
Insulation Method	Vacuum Insulation (Composite Insulation Materials)	
Tare Weight	Approx 12,494 kg (27,545 lb)	
Max Gross Weight	Approx 30,480 kg (67,197 lb)	
[Remarks]		
Maximum LNG Payload: 90% of Full Volume		
LNG Density: 0.46kg/L (3.84lb/gal)		
MARVS: Maximum Allowable Relief Valves Setting		
MAWP: Maximum Allowable Working Pressure		

ITEM	P.NO	TITLE	QTY.	MATERIAL SPEC
4		Outer Head	2	Carbon Steel S275JR
3		Outer Shell	1	Carbon Steel S275JR
2		Inner Head	2	Stainless Steel SA240-304
1		Inner Shell	1	Stainless Steel SA240-201LN

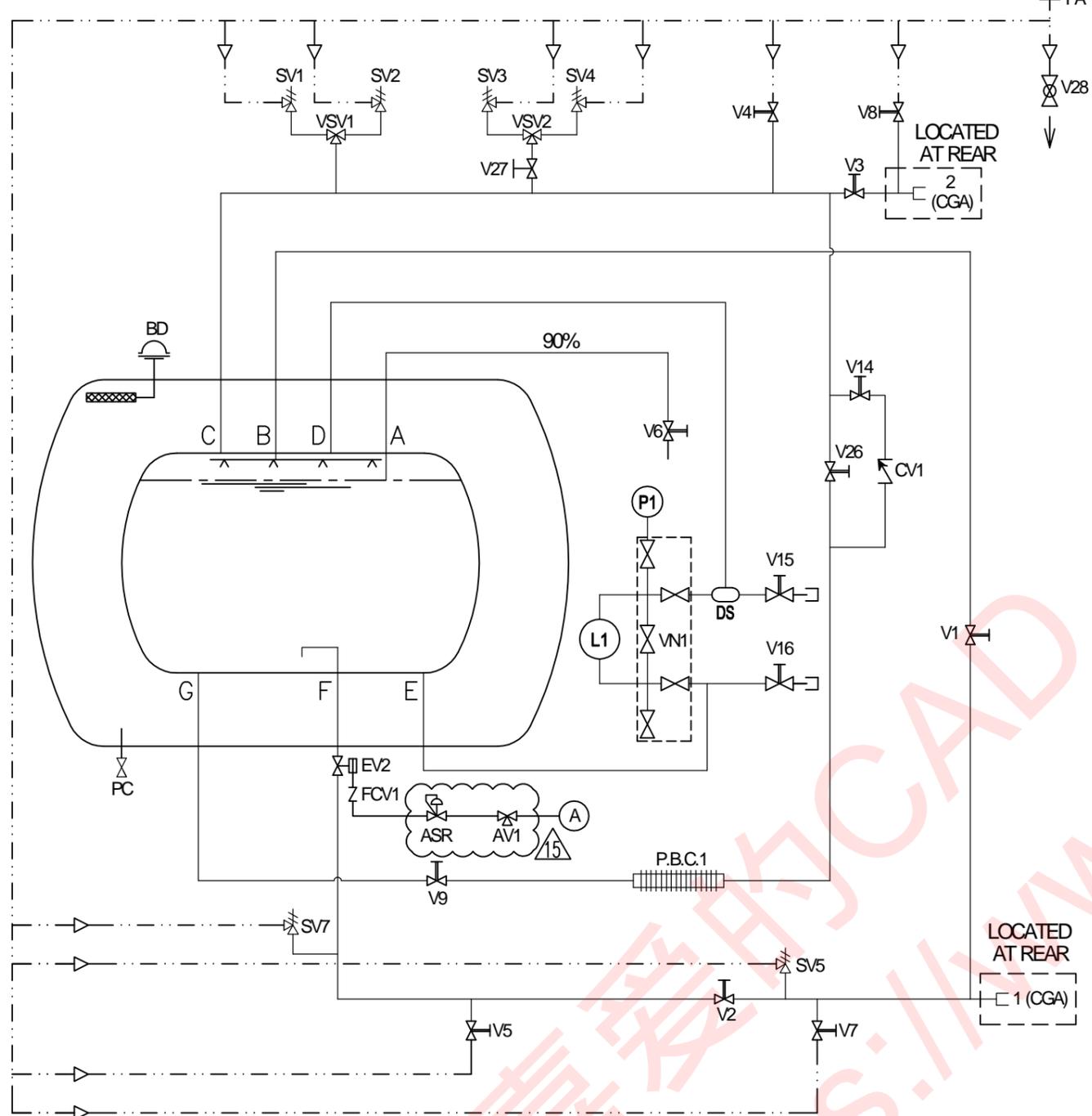
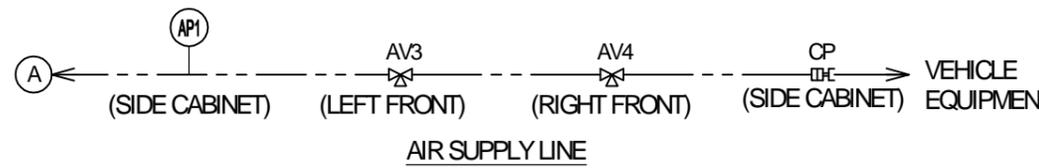
REV.	REASON	DESCRIPTIONS	DATE	BY	CH' D	APP' D
15	B	REVISED AS PER CLOUD	08.09.17	HZL	ASK	HA
14	B	REVISED AS PER CLOUD	18.04.17	HZL	ASK	HA
13	B	REVISED AS PER CLOUD	12.01.17	HZL	ASK	HA
12	B	REVISED AS PER CLOUD	05.01.16	HZL	ASK	HA
11	B	REVISED AS PER CLOUD	20.12.16	HZL	ASK	HA
10	B	REVISED AS PER CLOUD	06.12.16	HZL	ASK	HA
9	B	REVISED AS PER CLOUD	08.11.16	HZL	ASK	HA
REASON	A.Customer request	B.Design changes	C.Correction of errors	D.Other		

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DO NOT SCALE DRAWING			DESIGN ENGINEERING: HAI	17.02.16	
PART NAME: LNG 40ft TANK CONTAINER LNGT-43200 L-100 PSI HITACHI HIGH-TECH AW CRYO			REVIEWER: ASK	17.02.16	
GENERAL ARRANGEMENT DRAWING			APPROVAL: HA	17.02.16	
				NUMBER: 3001000-M	REV: 15

Specification

Applicable Law	Marine Vessel Safety Act			
Items	Inner Shell	Internal Piping	External Piping	Release Piping
Design Pressure	801 (116.1) kPaG (PSIG)	801 (116.1)	1103 (160)	—
MAWP	690 (100) kPaG (PSIG)	—	—	—
Design Temperature	-195 ~ +40 °C			—

Symbol	Name	Material
A	Overfill Protection Line, 90%	3/8", Sch.40, SEAMLESS SA312-TYPE 304
B	Liquid Fill Line	2.0", Sch.10, SEAMLESS SA312-TYPE 304
C	Gas/Safety Line	2.0", Sch.10, SEAMLESS SA312-TYPE 304
D	Liquid Level Gauge - Upper Line	1/4", Sch.40, SEAMLESS SA312-TYPE 304
E	Liquid Level Gauge - Lower Line	1/4", Sch.40, SEAMLESS SA312-TYPE 304
F	Liquid Discharge Line	2.0", Sch.10, SEAMLESS SA312-TYPE 304
G	Pressurising Liquid Discharge Line	1.0", Sch.10, SEAMLESS SA312-TYPE 304



TAG NO.	DESCRIPTION	MODEL	SIZE	MATERIAL
1	FILL CONNECTION LIQUID PHASE/ DISCHARGE	OGA CONNECTOR	3"	BRONZE
2	GAS RECOVERY CONNECTION	OGA CONNECTOR	3"	BRONZE
EV2	EMERGENCY SHUT-OFF VALVE	ACTUATED GLOBE VALVE, EXTENDED	2"	STN STL
V1	TOP FILL VALVE	GLOBE VALVE, EXTENDED STEM	2"	STN STL
V2	BOTTOM FILL VALVE	GLOBE VALVE, EXTENDED STEM	2"	STN STL
V3	GAS RECOVERY VALVE	GLOBE VALVE, EXTENDED STEM	2"	STN STL
V4	GAS DRAIN VALVE	GLOBE VALVE, EXTENDED STEM	1"	STN STL
V5	DRAIN VALVE	GLOBE VALVE, EXTENDED STEM	1/4"	STN STL
V6	FULL TRYCOCK VALVE (90 %)	GLOBE VALVE, EXTENDED STEM	3/8"	STN STL
V7	DRAIN VALVE	GLOBE VALVE, SHORT STEM	1/4"	STN STL
V8	DRAIN VALVE	GLOBE VALVE, SHORT STEM	1/4"	STN STL
V9	PRESSURIZER ENTRANCE VALVE	GLOBE VALVE, EXTENDED STEM	1"	STN STL
V14	PRESSURIZER BYPASS VALVE	GLOBE VALVE, EXTENDED STEM	1/2"	STN STL
V15	LIQUID LEVEL GAUGE DRAIN VALVE (GAS)	GLOBE VALVE, EXTENDED STEM	1/4"	STN STL
V16	LIQUID LEVEL GAUGE DRAIN VALVE (LIQUID)	GLOBE VALVE, EXTENDED STEM	1/4"	STN STL
V26	PRESSURIZER OUTLET VALVE	GLOBE VALVE, EXTENDED STEM	2"	STN STL
V27	SECONDARY SAFETY VALVE MANUAL VALVE	GLOBE VALVE, SHORT STEM	1"	STN STL
V28	DRAIN COCK	BALL COCK	1/2"	STN STL
CV1	CHECK VALVE	CHECK VALVE	1/2"	STN STL
VSV1	CHANGOVER VALVE	BALL VALVE	1 1/2" x 1"	BRONZE
VSV2	CHANGOVER VALVE	BALL VALVE	1" x 3/4"	STN STL
VN1	LEVEL GAUGE VALVE	NEEDLE VALVE	1/4"	STN STL
SV1	PRIMARY SAFETY VALVE 690kPa	ANGLE TYPE	1" x 1 1/2"	STN STL
SV2	PRIMARY SAFETY VALVE 690kPa	ANGLE TYPE	1" x 1 1/2"	STN STL
SV3	SECONDARY SAFETY VALVE 482kPa	ANGLE TYPE	3/4" x 1"	STN STL
SV4	SECONDARY SAFETY VALVE 482kPa	ANGLE TYPE	3/4" x 1"	STN STL
SV5	PLUMBING SAFETY VALVE 1103kPa	ANGLE TYPE	3/8" x 3/8"	STN STL
SV7	PLUMBING SAFETY VALVE 1103kPa	ANGLE TYPE	3/8" x 3/8"	STN STL
P.B.C.1	PRESSURE BUILDING VAPORIZER	PAS 2814 SS L20	1 1/2" x 2"	STN STL
L1	LIQUID LEVEL INDICATOR	STD-LNG APPLICATION	1/4"	STN STL
P1	INNER VESSEL PRESSURE GAUGE	STD-LNG APPLICATION	1/4"	STN STL
DS	DRAIN SEPARATOR	ORIGINAL	1/4"	STN STL
FA	FLAME ARRESTER	STD - LNG APPLICATION	1 1/2"	STN STL
BD	VACUUM JACKET RELIEF DEVICE	LIFTING PLATE	2"	STN STL
PC	VACUUM GAUGE VALVE	NEEDLE VALVE	3/8"	STN STL
AV1	AIR SUPPLY VALVE 1	3-WAY BALL VALVE - 'T' PORT	1/2" ODT	STN STL
AP1	AIR SUPPLY PRESSURE GAUGE	LOWER MOUNT	1/2" ODT	STN STL
AV3	AIR SUPPLY VALVE 3	3-WAY BALL VALVE - 'T' PORT	1/2" ODT	STN STL
AV4	AIR SUPPLY VALVE 4	3-WAY BALL VALVE - 'T' PORT	1/2" ODT	STN STL
CP	AIR SUPPLY CONNECTION	QUICK COUPLING	1/2" ODT	STN STL
FCV1	FIRE CHECK SHUT OFF VALVE	HEAT ACTIVATED VALVE	1/4" FNPT	STN STL
ASR	AIR SUPPLY REGULATOR	REGULATOR	1/4" FNPT	BRASS

NOTES:
 1. ALL GLOBE VALVES WITH EXTENDED STEM ARE OF STAINLESS STEEL BODY & TOPWORK, TYPE 01341, "NON-FIRE SAFE".
 2. ACTUATED GLOBE VALVE, STAINLESS STEEL BODY & TOPWORK.

	Safety Valve		Level Gauge Valve
	Emergency Shut-off Valve		Extension Bonnet Globe Valve
	Vacuum Gauge Valve		Check Valve
	Outer Tank Safety Equipment		Short Bonnet Valve

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GENERAL ARRANGEMENT DRAWING			APPROVAL: HA	DATE: 17.02.16	
				NUMBER: 3001000-M	REV: 15