



VENDOR DOCUMENT COVER SHEET

Total number of
pages within this document
(including this page)

2 pages

PROJECT: PV GAS THI VAI LPG STORAGE TANKS

PURCHASER'S DOC. No.:

REV:

DOCUMENT TITLE:

General Arrangement Drawing For Fire Water Tank

VENDOR DOCUMENT No.:

231375-ME8A-M23-001

REV:

2

ME8A- FIRE WATER TANKS

PO NUMBER:

LPGTV/PTSC-TH/LOA-03-008

EQUIPMENT TAG

FT-8801A/B

EQUIPMENT DATASHEET

SUPPLIERS NAME & ADDRESS:

PTSC THANH HOA TECHNICAL SERVICES
COMPANY

Address: Nghi Son Commune, Nghi Son District, Thanh
Hoa Province

NOTES:

VD CODE No.

M23

REVISIONS TO PURCHASER'S DOCUMENT No.

DOCUMENT STATUS AS REVIEWED BY PURCHASER

Rev	Date	Description	Signature
A	15-Aug-23	Issued for Review	
0	11-Sep-23	Issued for Construction	
1	22-Sep-23	Issued for Construction	
2	06-Oct-23	Issued for Construction	

- ☐ 1 Approved
- ☐ 2 Approved with comment
- ☐ 3 Rejected
- ☐ 4 Information only

Reviewed By:

Date:

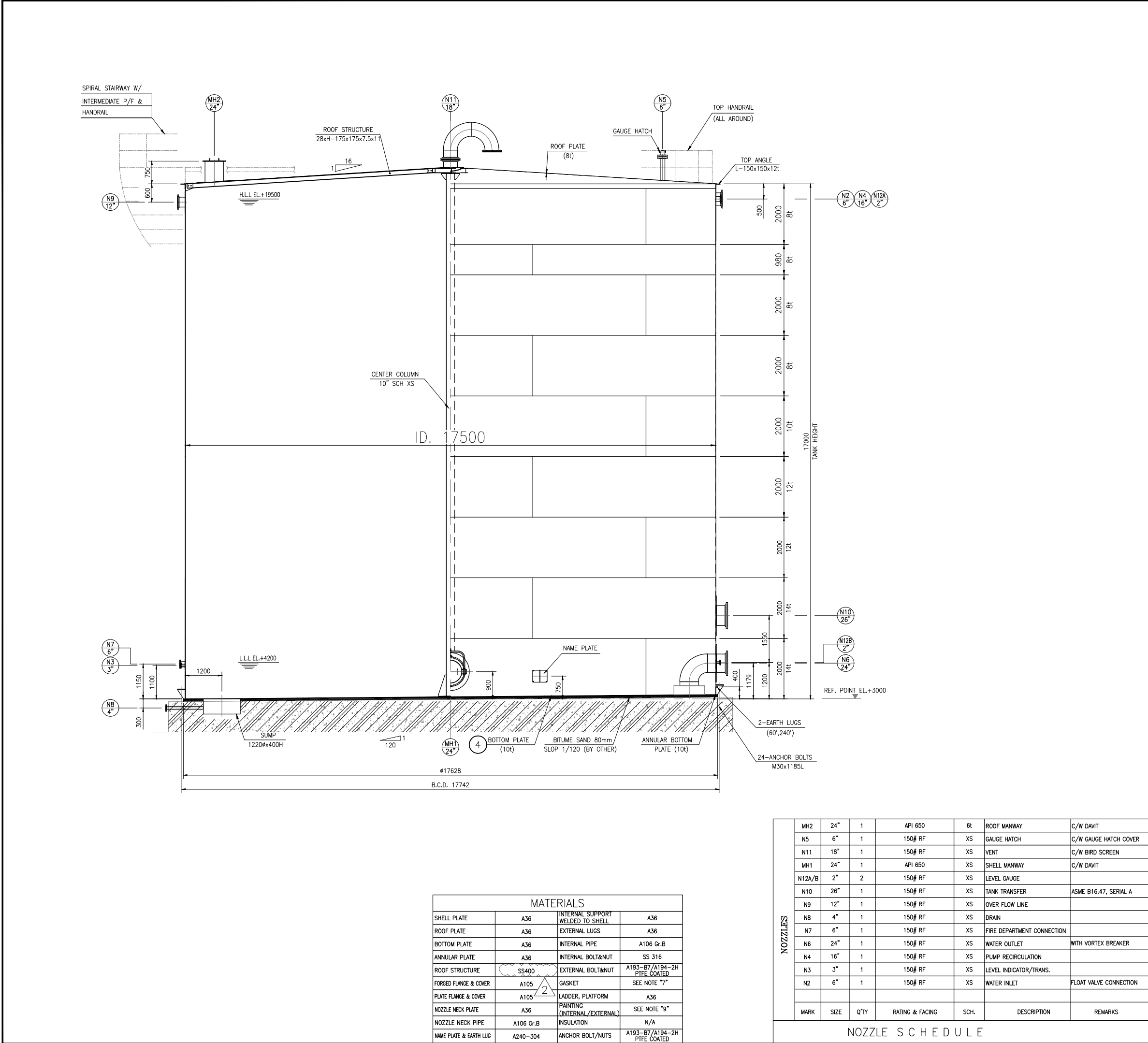
COMMENTS RESPONSE SHEET (CRS)
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Drawing / Document Number, Title and Revision:

Transmittal Document Purpose:

Doc. No.	231375-ME8A-M23-001	Title:	General Arrangement Drawing For Fire Water Tank	Comment	Status
Rev. No.	1			Code	
Transmittal No.:				2	Approved with comment

No.	Comments	Confirmation / Explanation by Contractor
1	update as per deviation (Roof Structural Material)	- Noted and incorporated in next revision.
2	Update Gasket material to SS 316 per spec	- Noted and incorporated in next revision.



MATERIALS			
SHELL PLATE	A36	INTERNAL SUPPORT WELDED TO SHELL	A36
ROOF PLATE	A36	EXTERNAL LUGS	A36
BOTTOM PLATE	A36	INTERNAL PIPE	A106 Gr.B
ANNULAR PLATE	A36	INTERNAL BOLT&NUT	SS 316
ROOF STRUCTURE	SS400	EXTERNAL BOLT&NUT	A193-B7/A194-2H PIPE COATED
FORGED FLANGE & COVER	A105	GASKET	SEE NOTE "7"
PLATE FLANGE & COVER	A105	LADDER, PLATFORM	A36
NOZZLE NECK PLATE	A36	PAINTING (INTERNAL/EXTERNAL)	SEE NOTE "9"
NOZZLE NECK PIPE	A106 Gr.B	INSULATION	N/A
NAME PLATE & EARTH LUG	A240-304	ANCHOR BOLT/NUTS	A193-B7/A194-2H PIPE COATED

NOZZLES	MH2	24"	1	API 650	8t	ROOF MANWAY	C/W DAVIT
	N5	6"	1	150# RF	XS	GAUGE HATCH	C/W GAUGE HATCH COVER
	N11	18"	1	150# RF	XS	VENT	C/W BIRD SCREEN
	MH1	24"	1	API 650	XS	SHELL MANWAY	C/W DAVIT
	N12A/B	2"	2	150# RF	XS	LEVEL GAUGE	
	N10	26"	1	150# RF	XS	TANK TRANSFER	ASME B16.47, SERIAL A
	N9	12"	1	150# RF	XS	OVER FLOW LINE	
	N8	4"	1	150# RF	XS	DRAIN	
	N7	6"	1	150# RF	XS	FIRE DEPARTMENT CONNECTION	
	N6	24"	1	150# RF	XS	WATER OUTLET	WITH VORTEX BREAKER
	N4	16"	1	150# RF	XS	PUMP RECIRCULATION	
	N3	3"	1	150# RF	XS	LEVEL INDICATOR/TRANS.	
	N2	6"	1	150# RF	XS	WATER INLET	FLOAT VALVE CONNECTION
NOZZLE SCHEDULE							
MARK	SIZE	Q'TY	RATING & FACING	SCH.	DESCRIPTION	REMARKS	

DESIGN INFORMATION									
CODE		API 650 12th ED.							
FLUID		FIRE WATER		WIND VELOCITY		[km/h]			
DESIGN SPEC. GR.		0.996		[m/s]		[ASCE 7-05]		44.0	
DESIGN INTERNAL		[mm H2O]	ATM + FULL WATER		SEISMIC FACTOR		[ASCE 7-05]		0.042
PRESS. EXTERNAL		[mm H2O]	N/A		INSULATION		[mm]		N/A
DESIGN TEMP.		[°C]	65		RAINFALL		[mm/HR]		
OPERATION PRESSURE		[mm H2O]	ATM + FULL WATER		SNOW LOAD		[KG/M2]		N/A
OPERATION TEMPERATURE		[°C]	AMB		PAINTING		SEE "NOTE 9"		
ROOF TYPE		SLOP 1/16		EMPTY		[kg]		127,976	
BOTTOM TYPE		SLOP 1/120		WEIGHT LIQUID		[kg]		3,952,840	
FILLING RATE		[M3/HR]	155		OPERATING		[kg]		4,080,816
EMPTYING RATE		[M3/HR]	2196		FULL WATER		[kg]		4,208,552
HYDRO. TEST PRESS.		[KG/CM2]	FULL WATER		NET CAPACITY		[m3]		3680
CORR. ALLOW (SHELL & BOTTOM/OTHER)		[mm]	(3.0/1.5)		M.D.M.T		[°C]		18
FLASH POINT		[°C]	N/A						
NOTES									
1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.									
2. ALL WELD SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED.									
3. ALL FLANGE BOLT HOLES SHALL STRADDLE NATURAL CENTER LINE OF VESSEL.									
4. REINFORCING PAD SHALL BE PROVIDED FOR ALL NOZZLES OF 2" AND ABOVE AND PROVIDE WITH A NPT 1" TEST HOLES INCLUDING GREASE.									
5. ALL NON-WELDED INTERNALS SHALL BE REMOVABLE THROUGH THE MANHOLES.									
6. GASKET CONTACT SURFACE OF NOZZLE FLANGE SHALL HAVE A SPIRAL SERRATED FINISH OF 125-250 AARH.									
7. GASKET SPECIFICATION									
7.1. FOR MANHOLE: NON-ASBESTOS									
7.2. FOR NOZZLE: SPIRAL WOUND GASKET (4.5T)									
- FILLER : FLEXIBLE GRAPHITE									
- HOOP : 316 S.S									
- INNER RING : 316 S.S									
8. OUTER RING: 304 S.S									
9. AS PER 231375-09-SPE-001 (SPECIFICATION FOR PAINTING AND COATING)									
03									
02									
01									
STT									
DOCUMENT NUMBER									
REFERENCE DOCUMENTS									
DATE		PTSC				DATE		PV GAS PMC	