



VENDOR DOCUMENT COVER SHEET

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

6 pages

PROJECT: PV GAS THI VAI LPG STORAGE TANKS

PURCHASER'S DOC. No.:

REV:

ME8A- FIRE WATER TANKS

DOCUMENT TITLE:

Detail Nozzle Drawing For Fire Water Tank

VENDOR DOCUMENT No.:

231375-ME8A-M26-007

REV:

0

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.

M26

REVISIONS TO PURCHASER'S DOCUMENT No.

DOCUMENT STATUS AS REVIEWED BY PURCHASER

Rev	Date	Description	Signature
-----	------	-------------	-----------

A	17-Aug-23	Issued for Review	
---	-----------	-------------------	--

0	12-Sep-23	Issued for Construction	
---	-----------	-------------------------	--

☒ 1 Approved

☐ 2 Approved with comment

☐ 3 Rejected

☐ 4 Information only

Reviewed By:

Date:

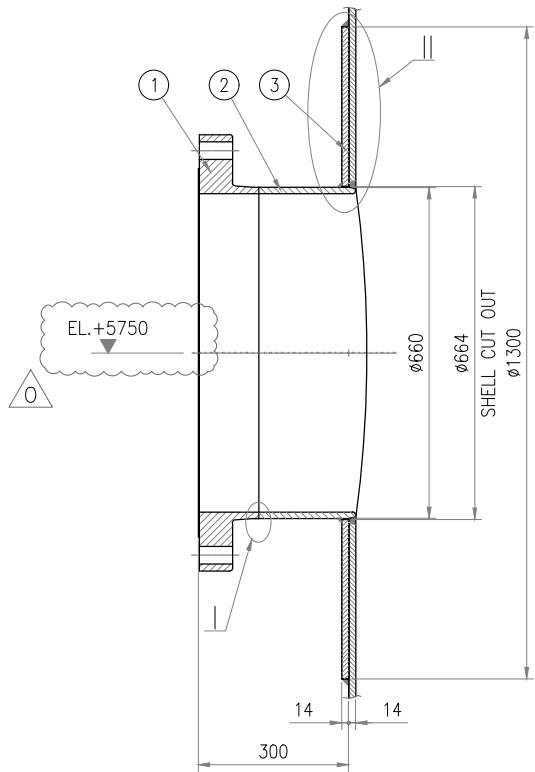
COMMENTS RESPONSE SHEET (CRS)

Drawing / Document Number, Title and Revision:

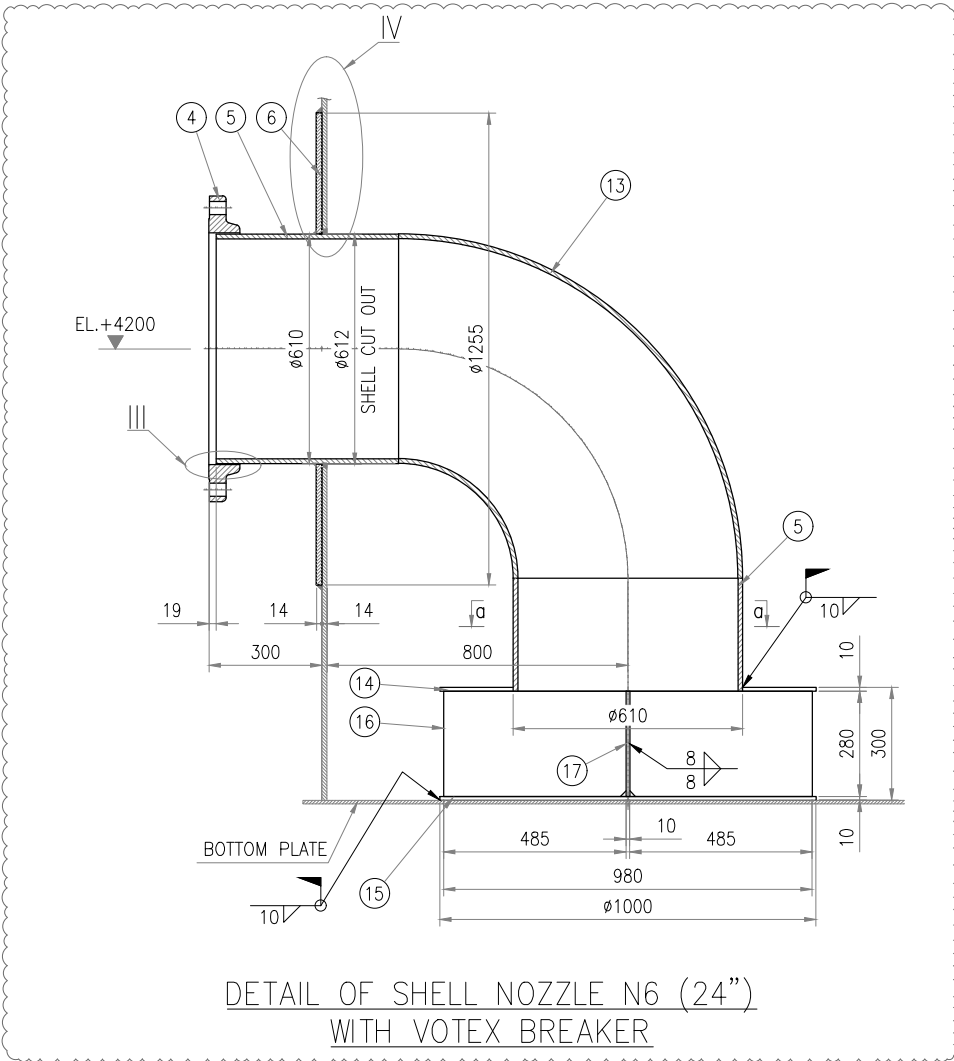
Transmittal Document Purpose:

Doc. No.	231375-ME8A-M26-007	Title:	Detail Nozzle Drawing For Fire Water Tank	Comment	Status
Rev. No.	A			Code	
Transmittal No.:				2	Approved with comment

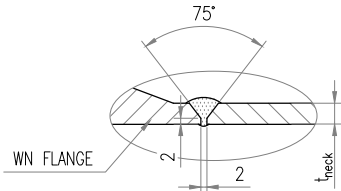
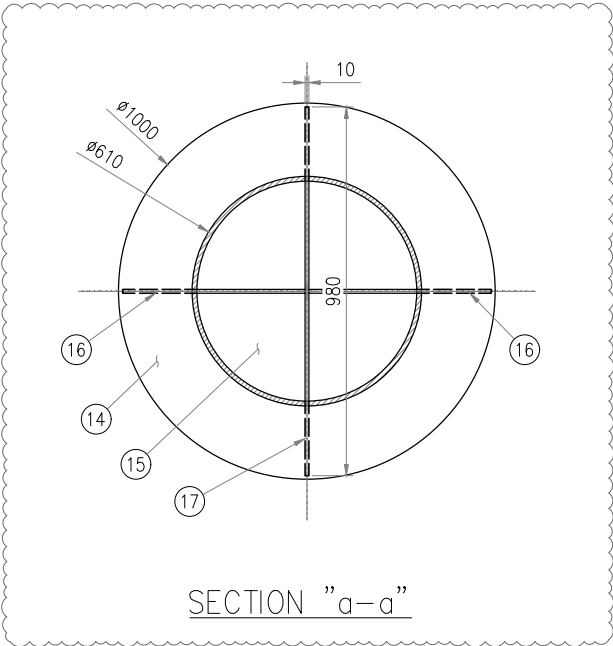
No.	Comments	Confirmation / Explanation by Contractor
1	show elevation of each shell nozzle	- Noted and incorporated in next revision
2	Add cover page (Cover - CRS - drawing)	- Noted and incorporated in next revision
3	delete N1 as comment on datasheet / GA drawing	- Noted and incorporated in next revision
4	update part list accordingly	- Noted and incorporated in next revision
5	sump height adjust to 400. refer the sketch of sump and update accordingly	- Noted and incorporated in next revision
6	delete this reinforcing plate	- Noted and incorporated in next revision
7	15 mm as normal	- Noted and incorporated in next revision
8	all bolt & nut shall be PTFE coated, instead of HDG	- Noted and incorporated in next revision



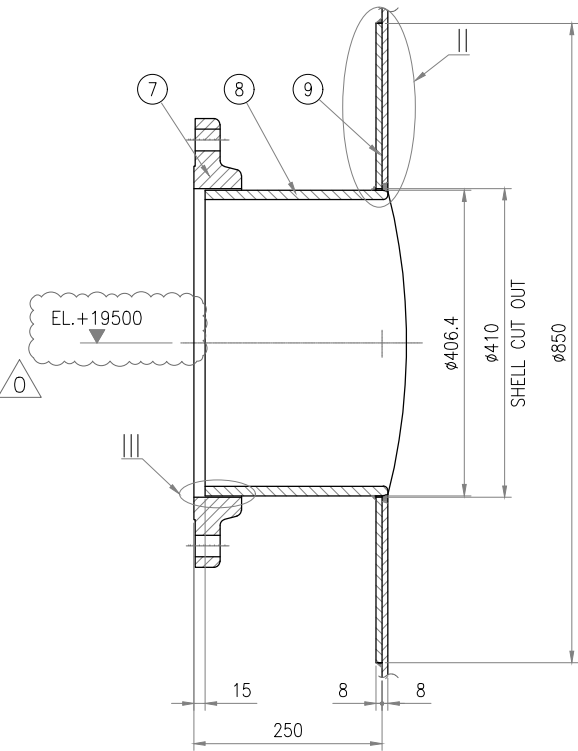
DETAIL OF SHELL NOZZLE N10 (26")



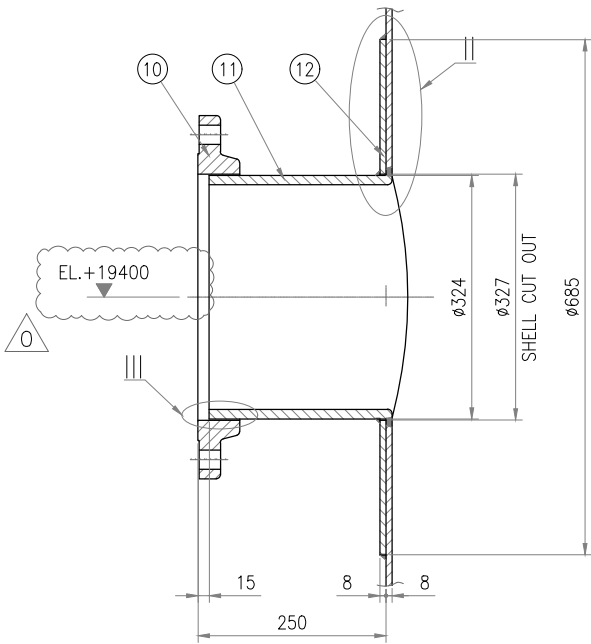
DETAIL OF SHELL NOZZLE N6 (24")
WITH VOTEX BREAKER



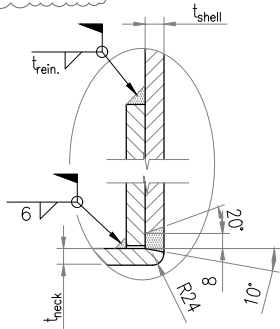
DETAIL I



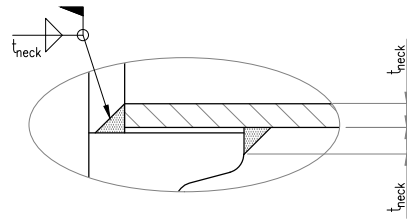
DETAIL OF SHELL NOZZLE N4 (16")



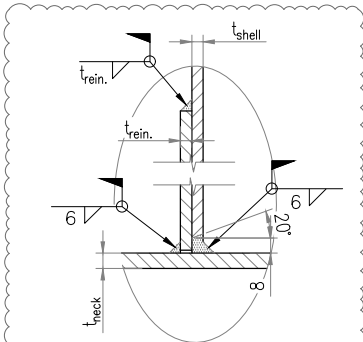
DETAIL OF SHELL NOZZLE N9 (12")



DETAIL II



DETAIL III (TYP.)



DETAIL IV

PART LIST					
PART NO.	DESCRIPTION	DIMENSION	Q'TY (SET)	MATERIAL	REMARK
1	FLANGE	26",WN,RF,SCH.XS,150#	1	A105	
2	PIPE	26",SCH.XS	1	A106 Gr.B	
3	REINFORCING PAD	OD1300xID664x14t	1	A36	
4	FLANGE	24",SO,RF,SCH.XS,150#	1	A105	
5	PIPE	24",SCH.XS	1	A106 Gr.B	
6	REINFORCING PAD	OD1255xID612x14t	1	A36	
7	FLANGE	16",SO,RF,SCH.XS,150#	1	A105	
8	PIPE	16",SCH.XS	1	A106 Gr.B	
9	REINFORCING PAD	OD850xID410x8t	1	A36	
10	FLANGE	12",SO,RF,SCH.XS,150#	1	A105	
11	PIPE	12",SCH.XS	1	A106 Gr.B	
12	REINFORCING PAD	OD685xID327x8t	1	A36	
13	ELBOW 90°	24",SCH.XS	1	A106 Gr.B	
14	TOP PLATE	OD1000xID610x10t	1	A36	
15	BOTTOM PLATE	ø1000x10t	1	A36	
16	REINFORCING PAD	485x280x10t	2	A36	
17	REINFORCING PAD	980x280x10t	1	A36	

GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETER, UNLESS NOTED OTHERWISE.
- TELLTALE HOLES SHALL BE LOCATED PERPENDICULAR TO LONGTUDIAL CENTER OF TANK AT THE LOWEST POINT AND SHALL BE FILLED WITH HIGH TEMPERATURE MELTING GREASE AFTER LEAK TEST.

03	
02	
01	
STT	DOCUMENT NUMBER

DATE	PTSC	DATE	PV GAS PMC

REV.	DATE	DESCRIPTION	ENG.	LEAD	EM	PM	REVIEW	CHKED
0	12/SEP/23	ISSUED FOR CONSTRUCTION	T.C.Thanh	N.V.Phong	N.T.Son	N.K.Dung	N.X.Thanh	B.V.Khod
A	18/AUG/23	ISSUED FOR REVIEW	T.C.Thanh	N.V.Phong	N.T.Son	N.K.Dung	N.X.Thanh	B.V.Khod

PTSC	PV GAS PMC

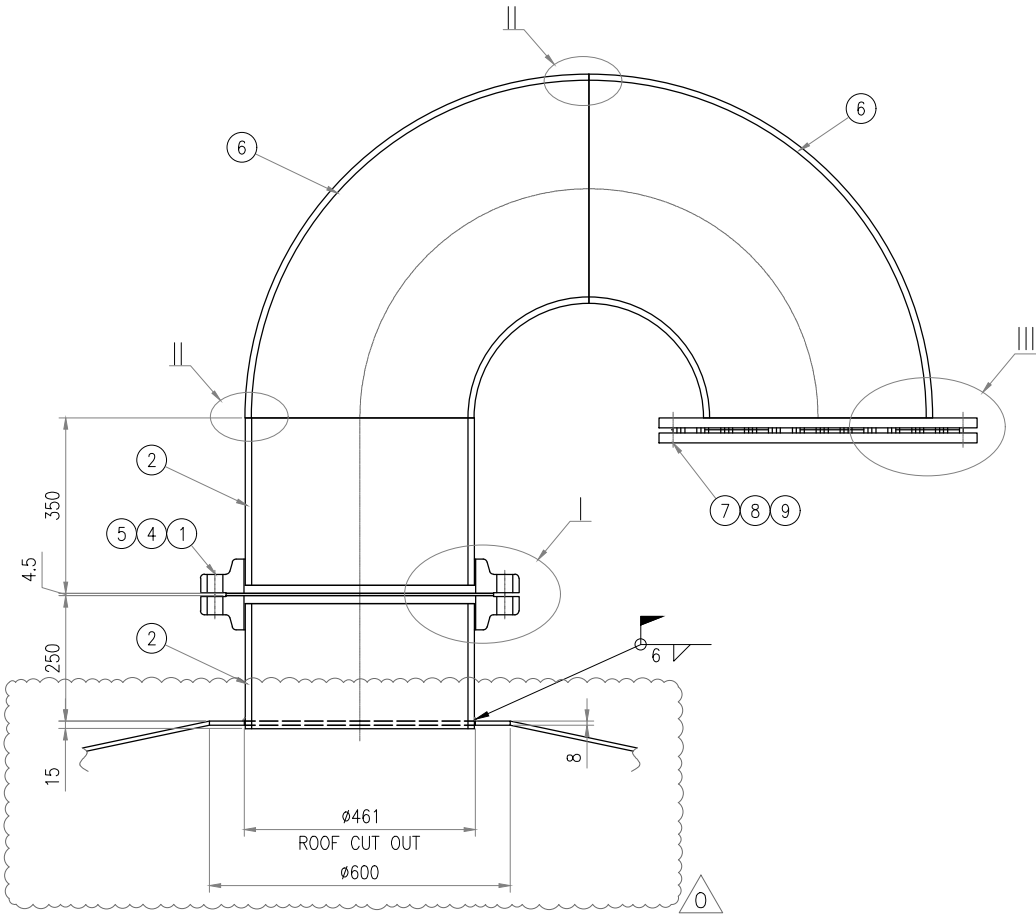
CLIENT:	PTSC
PTSC	PETROVIETNAM GAS JOINT STOCK CORPORATION PV GAS PROJECT MANAGEMENT COMPANY

EPC CONTRACTOR:	PTSC
PTSC	PETROVIETNAM TECHNICAL SERVICES CORPORATION

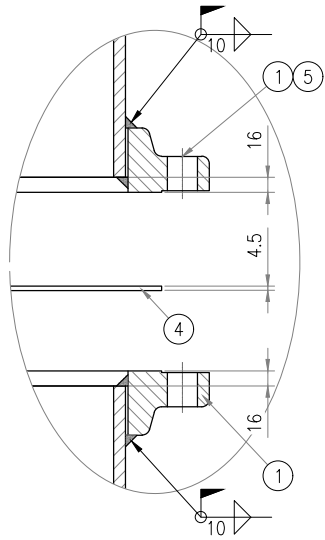
PROJECT:	PV GAS THI VAI LPG STORAGE TANKS
----------	----------------------------------

PACKAGE:	ENGINEERING, PROCUREMENT AND CONSTRUCTION
----------	---

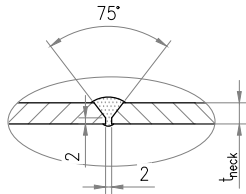
JOB.	SCALE	DWG No.	SHEET	REV.
231375	NTS	231375-ME08A-M26-007	1/4	0



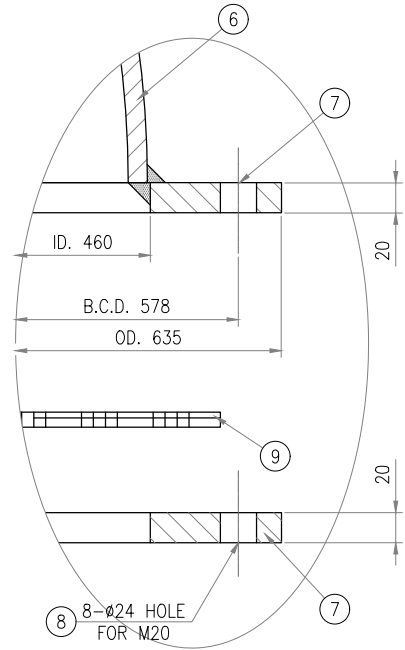
DETAIL OF ROOF NOZZLE N11 (18")



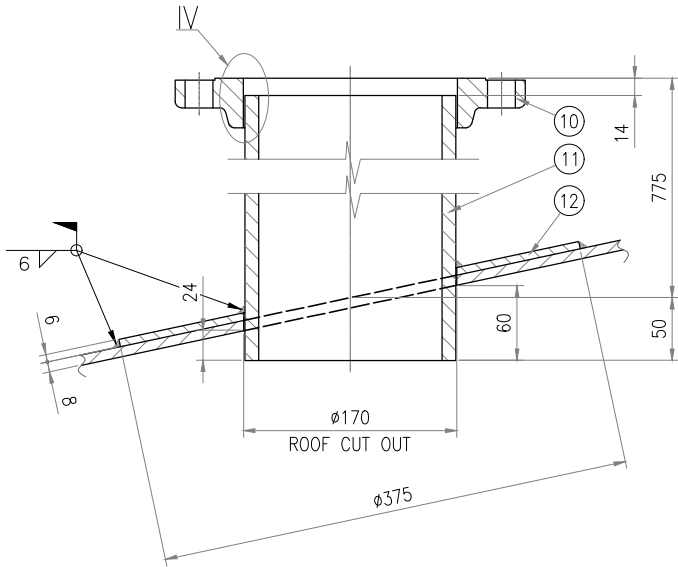
DETAIL I



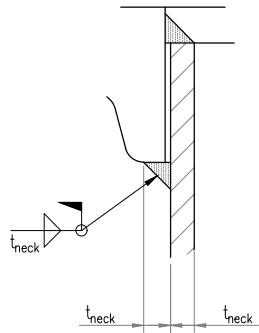
DETAIL II



DETAIL III



DETAIL OF ROOF NOZZLE N5 (6")



DETAIL IV

PART LIST

PART NO.	DESCRIPTION	DIMENSION	Q'TY (SET)	MATERIAL	REMARK
1	FLANGE	18",SO,RF,SCH.XS,150#	2	A105	0
2	PIPE	18",SCH.XS	1	A106 Gr.B	0
4	GASKET	18",RF,150#	1	SPIRAL WOUND	PTFE COATED
5	STUB BOLT & NUTS	1.1/8"x160L	16	A193-B7 A194-2H	PTFE COATED
6	SR ELBOW 90°	18",SCH.XS	2	A106 Gr.B	0
7	PLATE FLANGE	OD635xID460x20t	2	A106 Gr.B	PTFE COATED
8	STUB BOLT & NUTS	3/4"x110L	8	A193-B7 A194-2H	PTFE COATED
9	WIRE NET	10 MESH	1	SUS 304	
10	FLANGE	6",SO,RF,SCH.XS,150#	1	A105	
11	PIPE	6",SCH.XS	1	A106 Gr.B	
12	REINFORCING PAD	OD375xID170x6t	1	A36	

GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETER, UNLESS NOTED OTHERWISE.
- TELLTALE HOLES SHALL BE LOCATED PERPENDICULAR TO LONGTUDIAL CENTER OF TANK AT THE LOWEST POINT AND SHALL BE FILLED WITH HIGH TEMPERATURE MELTING GREASE AFTER LEAK TEST.

03	
02	
01	
STT	DOCUMENT NUMBER

REFERENCE DOCUMENTS

DATE		DATE	
	PTSC		PV GAS PMC

0	12/SEP/23	ISSUED FOR CONSTRUCTION	T.C.Thanh	N.V.Phong	N.T.Son	N.K.Dung	N.X.Thanh	B.V.Khoc	
A	18/AUG/23	ISSUED FOR REVIEW	T.C.Thanh	N.V.Phong	N.T.Son	N.K.Dung	N.X.Thanh	B.V.Khoc	
REV.	DATE	DESCRIPTION	ENG.	LEAD	EM	PM	REVIEW	CHKED	

CLIENT:
PTSC PETROVIETNAM GAS JOINT STOCK CORPORATION
PV GAS PROJECT MANAGEMENT COMPANY

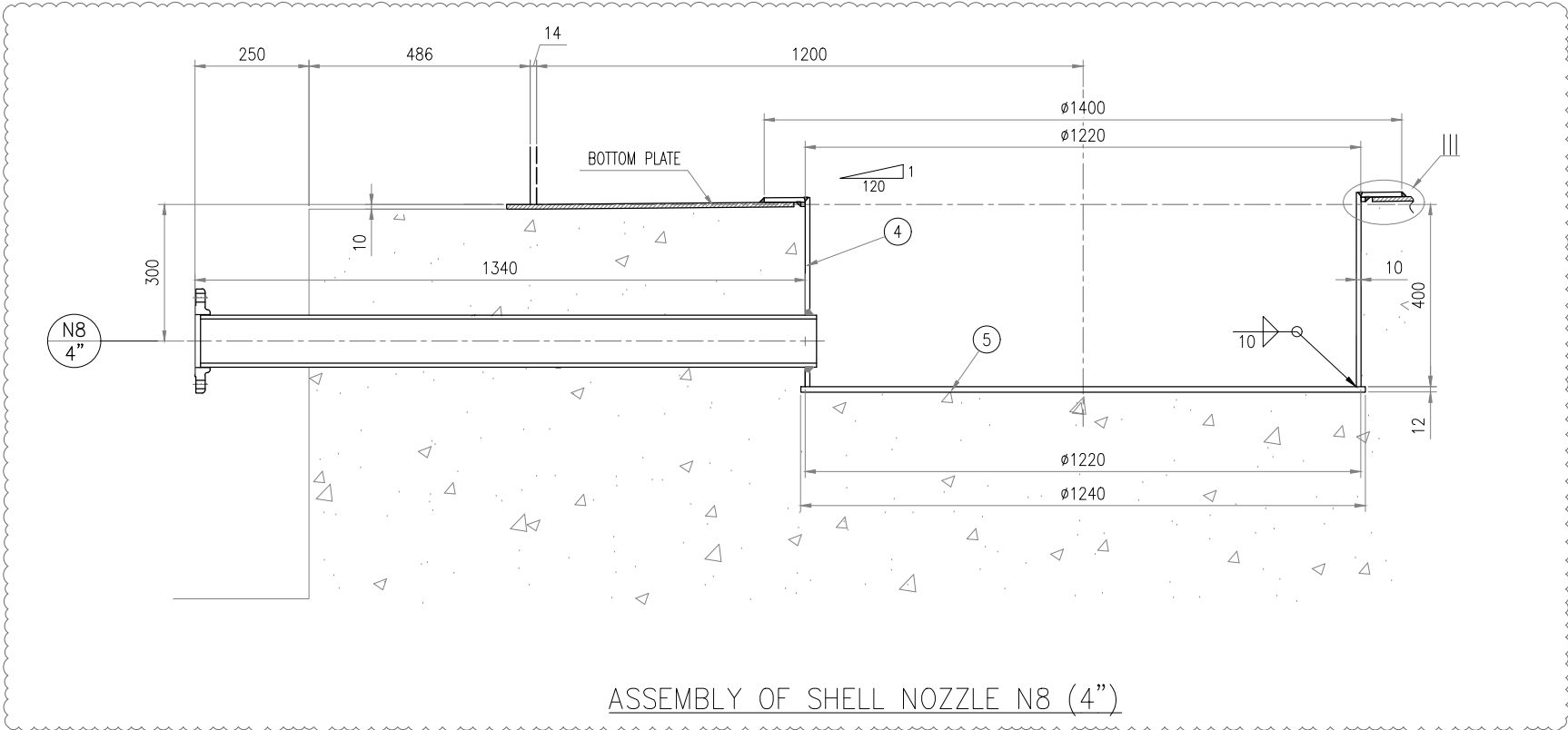
EPC CONTRACTOR:
PTSC PETROVIETNAM TECHNICAL SERVICES CORPORATION

PROJECT:
PV GAS THI VAI LPG STORAGE TANKS

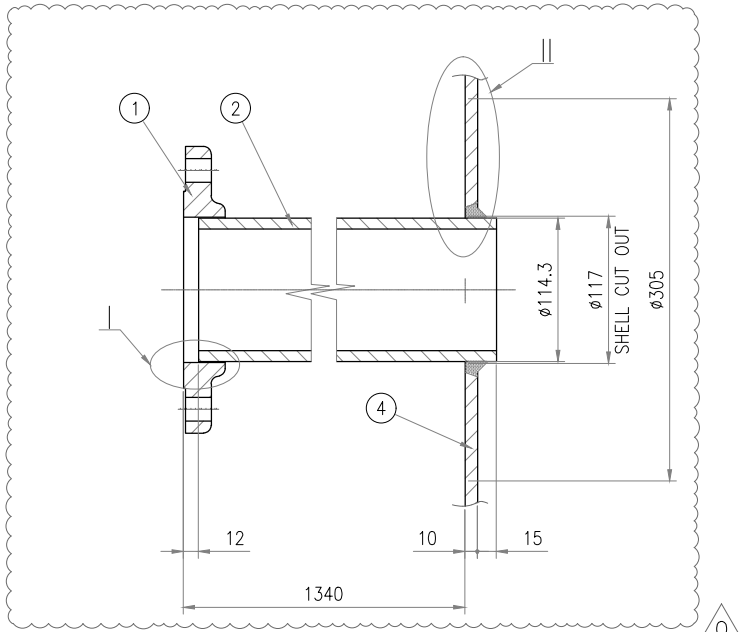
PACKAGE:
ENGINEERING, PROCUREMENT AND CONSTRUCTION

TITLE:
DETAIL ROOF NOZZLE DRAWING FOR FIRE WATER TANK

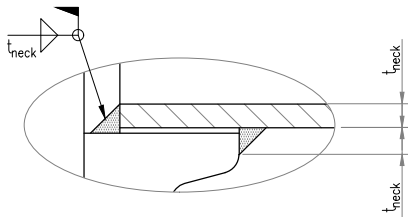
JOB.	SCALE	DWG No.	SHEET	REV.
231375	NTS	231375-ME08A-M26-007	4/4	0



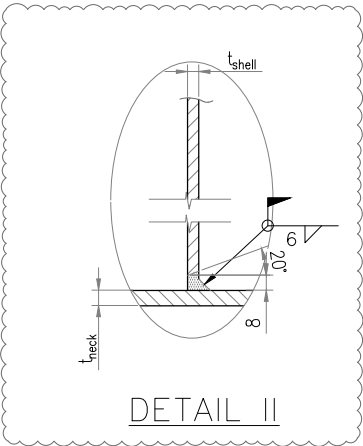
ASSEMBLY OF SHELL NOZZLE N8 (4")



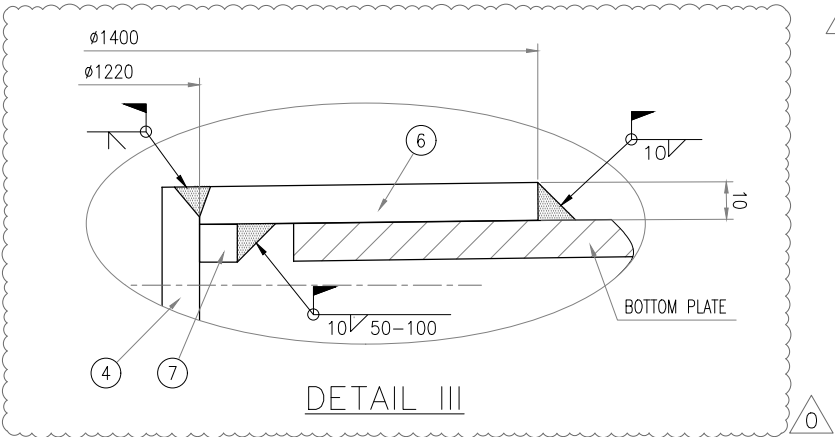
DETAIL OF SHELL NOZZLE N8 (4")



DETAIL I



DETAIL II



DETAIL III

PART LIST					
PART NO.	DESCRIPTION	DIMENSION	Q'TY (SET)	MATERIAL	REMARK
1	FLANGE	4",SO,RF,SCH.XS,150#	1	A105	
2	PIPE	4",SCH.XS	1	A106 Gr.B	
4	SHELL PLATE (SUMP)	ID1200x600Lx10t	1	A36	
5	BOTTOM PLATE (SUMP)	ø1200x12t	1	A36	
6	TOP FLANGE (SUMP)	OD1400xID1220x10t	1	A36	
7	BACKUP BAR (SUMP)	OD1240xID1220x10t	1	A36	

GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETER, UNLESS NOTED OTHERWISE.
- TELLTALE HOLES SHALL BE LOCATED PERPENDICULAR TO LONGTUDIAL CENTER OF TANK AT THE LOWEST POINT AND SHALL BE FILLED WITH HIGH TEMPERATURE MELTING GREASE AFTER LEAK TEST.

03	
02	
01	
STT	DOCUMENT NUMBER

REFERENCE DOCUMENTS

DATE	PTSC	DATE	PV GAS PMC
------	------	------	------------

--	--	--	--	--	--	--	--	--	--

REV.	DATE	DESCRIPTION	ENG.	LEAD	EM	PM	REVIEW	CHKED
0	12/SEP/23	ISSUED FOR CONSTRUCTION	T.C.Thanh	N.V.Phong	N.T.Son	N.K.Dung	N.X.Thanh	B.V.Khod
A	18/AUG/23	ISSUED FOR REVIEW	T.C.Thanh	N.V.Phong	N.T.Son	N.K.Dung	N.X.Thanh	B.V.Khod

CLIENT:
PETROVIETNAM GAS JOINT STOCK CORPORATION
PV GAS PROJECT MANAGEMENT COMPANY

EPC CONTRACTOR:
PTSC **PETROVIETNAM TECHNICAL SERVICES CORPORATION**

PROJECT:
PV GAS THI VAI LPG STORAGE TANKS

PACKAGE:
ENGINEERING, PROCUREMENT AND CONSTRUCTION

TITLE:
DETAIL SHELL NOZZLE DRAWING FOR FIRE WATER TANK

JOB.	SCALE	DWG No.	SHEET	REV.
231375	NTS	231375-ME08A-M26-007	3/4	0



PART LIST					
PART NO.	DESCRIPTION	DIMENSION	Q'TY (SET)	MATERIAL	REMARK
1	FLANGE	6",SO,RF,SCH.XS,150#	2	A105	
2	PIPE	6",SCH.XS	2	A106 Gr.B	
3	REINFORCING PAD	OD1300xID664x14t	1	A36	
4	REINFORCING PAD	OD1300xID664x8t	1	A36	
5	FLANGE	3",SO,RF,SCH.XS,150#	1	A105	
6	PIPE	3",SCH.XS	1	A106 Gr.B	
7	REINFORCING PAD	OD265xID92x8t	1	A36	
8	FLANGE	2",SO,RF,SCH.XS,150#	2	A105	
9	PIPE	2",SCH.XS	2	A106 Gr.B	

1. ALL DIMENSIONS ARE IN MILLIMETER, UNLESS NOTED OTHERWISE.
2. TELLTALE HOLES SHALL BE LOCATED PERPENDICULAR TO LONGTUDIAL CENTER OF TANK AT THE LOWEST POINT AND SHALL BE FILLED WITH HIGH TEMPERATURE MELTING GREASE AFTER LEAK TEST.

03										
02										
01										
STT	DOCUMENT NUMBER									
REFERENCE DOCUMENTS										
DATE						DATE				
PTSC						PV GAS PMC				
0	12/SEP/23	ISSUED FOR CONSTRUCTION	T.C.Thanh	N.V.Phong	N.T.Son	N.K.Dung	N.X.Thanh	B.V.Khoc		
A	18/NOV/23	ISSUED FOR REVIEW	T.C.Thanh	N.V.Phong	N.T.Son	N.K.Dung	N.X.Thanh	B.V.Khoc		
REV.	DATE	DESCRIPTION	ENG.	LEAD	EM	PM	REVIEW	CHKD		
			PTSC					PV GAS PMC		
CLIENT:										
 PETROVIETNAM GAS JOINT STOCK CORPORATION PV GAS PROJECT MANAGEMENT COMPANY										
EPC CONTRACTOR:										
 PETROVIETNAM TECHNICAL SERVICES CORPORATION										
PROJECT:										
PV GAS THI VAI LPG STORAGE TANKS										
PACKAGE:										
ENGINEERING, PROCUREMENT AND CONSTRUCTION										
TITLE:										
DETAIL NOZZLE DRAWING FOR FIRE WATER TANK										
JOB.	SCALE	DWG No.					SHEET	REV.		
231375	NTS	231375-ME08A-M26-007					2/4	0		