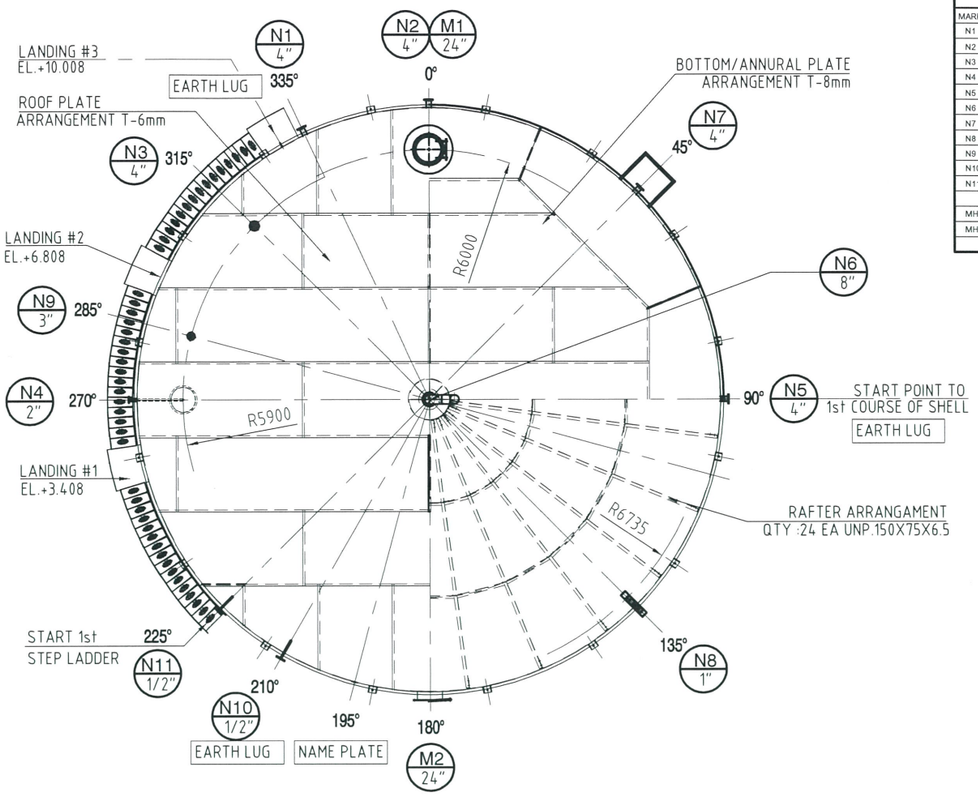
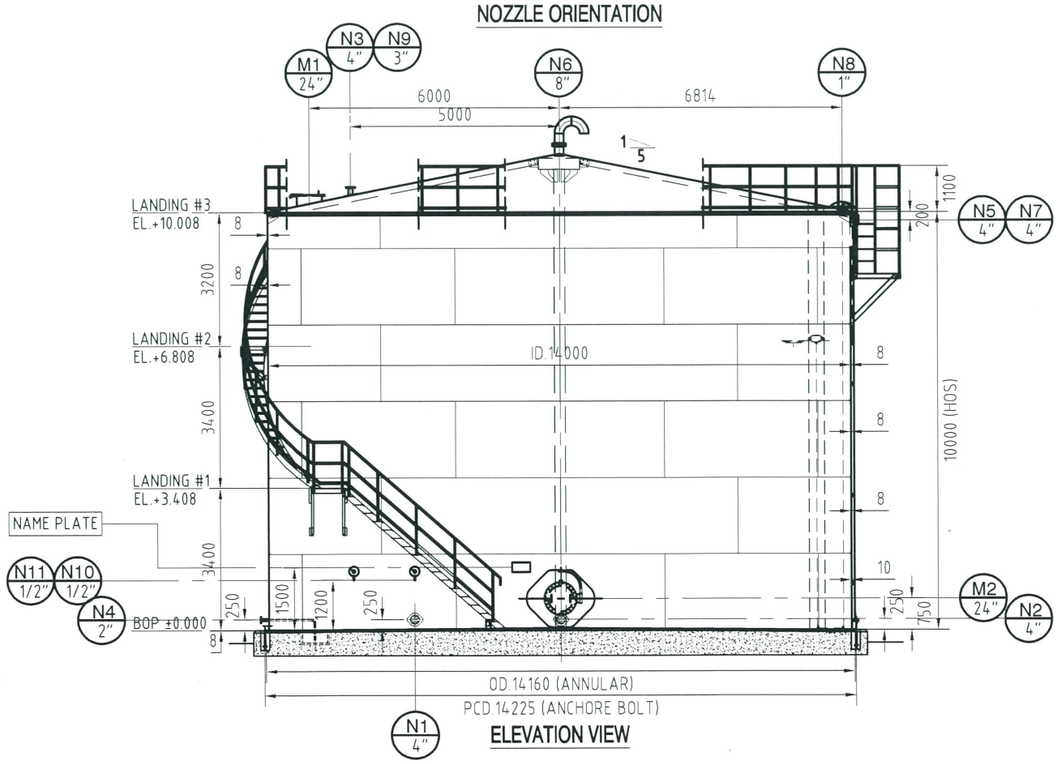


NOZZLE ORIENTATION



ELEVATION VIEW

NOZZLE SCHEDULE					
MARK	QTY	SIZE	SCH	RATING	SERVICE
N1	1	4"	40	ANSI #150 SO.RF	INLET
N2	1	4"	40	ANSI #150 SO.RF	OUTLET
N3	1	4"	40	ANSI #150 SO.RF	RETURN
N4	1	2"	40	ANSI #150 SO.RF	DRAIN
N5	1	4"	40	ANSI #150 SO.RF	OVERFLOW
N6	1	8"	40	ANSI #150 SO.RF	AIR VENT
N7	1	4"	40	ANSI #150 SO.RF	FOAM CHAMBER
N8	1	1	40	-	LEVEL INDICATOR
N9	1	3"	40	ANSI #150 SO.RF	LEVEL SENSOR
N10	1	1/2"	40	COUPLING #1000	TEMPERATURE INDICATOR
N11	1	1/2"	40	COUPLING #1000	PRESSURE INDICATOR
MH2	1	24"	-	FABRICATION	SIDE MANHOLE
MH3	1	24"	-	FABRICATION	SIDE MANHOLE

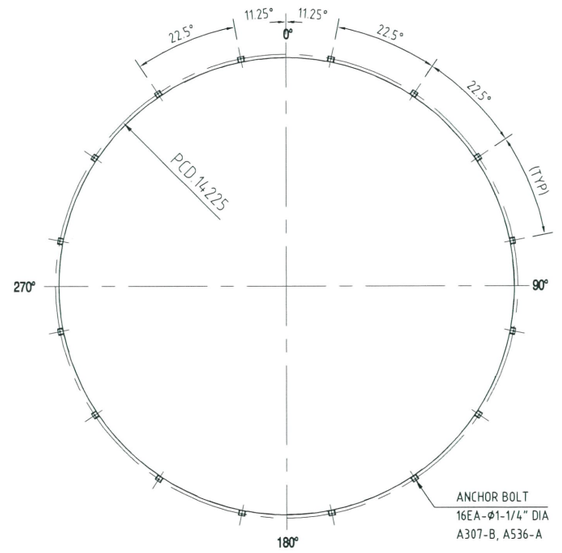
NOTE

DESIGN DATA

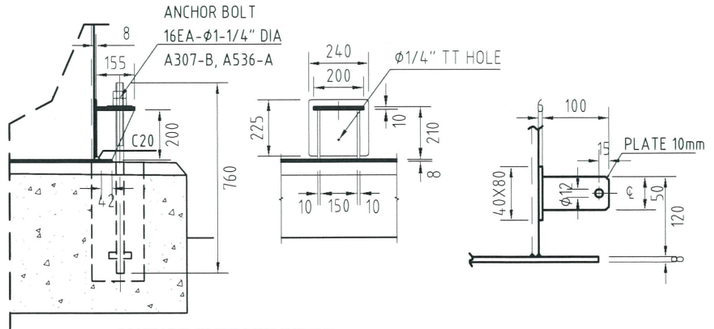
CODE		: API 650			
REGULATION		: NBAS	CONE STAND		: N/A
FLUID NAME		: HSD	TANK DIMENSION		: ϕ 14.000 DIA
DENSITY	DESIGN	: 970+/-02 KG/M3 AT 60	SHELL TANK HEIGHT		: 10.000 (HOS)
	TEMP.	: AMBIENT DEG.C	TANK THICKNESS	ANNULAR/BOTTOM	: 8 mm/8mm
SPECIFIC	DESIGN	: FV		SHELL	: 8/8/8/8/8/8
	TEMP.	: 60 DEG.C		ROOF	: 6 mm
CORROSION ALLOW.	BOTTOM PLATE	: 1 mm	ROOF TYPE		: SUPPORTED CONE ROOF
	ANNULAR PLATE	: 1 mm	FLOW RATE		: N/A
	SHELL PLATE	: 3 mm	FILLING AREA		: N/A
	ROOF PLATE	: 1 mm	WEIGHT	EMPTY	: 614.59 Kg
	ROOF STRUCTURE	: 0 mm		SPECIFIC	: 1334.09 Kg
JOINT EFF.	SHELL	: 0.7 mm		FULL	: 1948.68 Kg
RADIOGRAPHY	SHELL	: AS PER CODE	PAINTING		: SEE PAINTING SPEC.
STRESS RELIEVE		: N/A	FIRE PROOFING		: N/A
P.W.H.T	HEIGHT/COLD Kg/cm2(G)	: FULL OF WATER	INSULATION		: NONE
	HEIGHT/COOL Kg/cm2(G)	: NA	VOLUME		: 14.00 M3
HYDRO.TEST PRES.	Kg/cm2(G)	: FULL OF WATER	BUILT		: -
PNEUMTEST PRES.	Kg/cm2(G)	: 0.1 KG/CM2			
WIND VELOCITY	(V)mph	: 44.7 M/SEC			
SEISMIC ZONE		: N/A			

MATERIALS OF CONSTRUCTION & SPECIFICATIONS

SHELL, HEADS, MANWAY NECKS, PLATE FLANGE, ATTACHMENT BACKING PLATES.	: ASTM A36 CARBON STEEL
VESSEL LEGS	: ASTM A36 CARBON STEEL
BRANCH NECK	: ASTM A36 CARBON STEEL / A106 GR.B
EXTERNAL PAINTING PREPARATION	: SAND BLASTING TO SA 2.5
INTERNAL PAINTING PREPARATION	: SAND BLASTING TO SA 2.5
EXTERNAL PAINTING	: 235 MICRON
INTERNAL PAINTING FOR ROOF	: 248 MICRON
FASTENERS	: A325 BOLT
GASKET	: KLINGERIT 5900 3MM
WELDING	: ARC
FLANGE TYPE	: ANSI B16.5 RF
SOCKET	: CLASS 3000
PIPING	: A 234 GR.B



ANCHOR PLAN

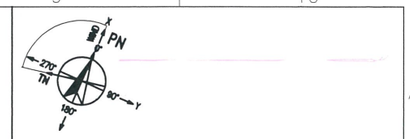


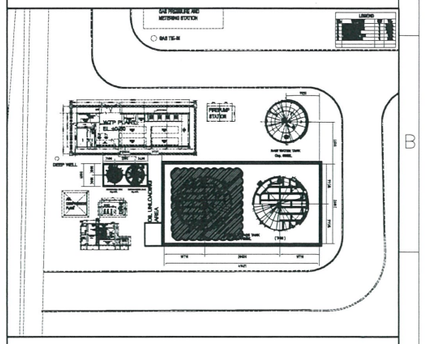
ANCHOR SUPPORT DETAIL

Mat'L : A 36
Qty : 16 Sets

EARTH LUG DETAIL

MAT'L : SUS 304
QTY : 3 UNITS





KEY PLAN

NOTES :

1. ALL DIMENSIONS IN MILLIMETERS AND ELEVATION IN METERS, UNLESS OTHERWISE SPECIFIED.

PLTG GORONTALO (PEAKER) 100MW
CONTRACTOR DOKUMENT REVIEW

LOG IN | DATE | COMM NO

A ☑ APPROVED
C ☐ APPROVED AS NOTED
B ☐ NOT APPROVED
C ☐ INFORMATION

REVIEW: CIVIL ✓ 1; MECHANICAL; ELECTRICAL; I & C; SUPPORT

APPROVED DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR ERROR OR DEVIATION FROM CONTRACT REQUIREMENT

BY DATE :

LOG OUT | DATE | COMM NO

DISTRIBUTION: CONTRACTOR; RECORD; WORKING DOCUMENT

REV	STATUS	MODIFICATION	DATE	PREPD	CHECK	REVIEW	APPR
1	APPROVED	APPROVED REVIEW	2/9/15	ISM	SSI		
0	-	ISSUED FOR APPROVAL					

OWNER: PT PLN (PERSERO)

ENGINEER: PT PLN (PERSERO) PUSAT ENJINIRING KETENAGALISTRIKAN

PROJECT : PLTG GORONTALO (PEAKER) 100MW

PLN DWG No: 1101280-00-M-355-EG-0001-00-0

EPC CONTRACTOR : PP CONSTRUCTION & INVESTMENT

DESIGN INSTITUTE :

PLTG GORONTALO (PEAKER) 100MW			Preliminary Design
APPROVED		TITLE	HSD STORAGE TANK Cap.1400 KL (T-01) GENERAL ARRANGEMENT
RECEIVED			
CHECKED			
DESIGNED			
DRAWN	ISM		
DATE	18/08/15		
SCALE	1 : 150	DWG NO. GTR-M-08-A1-DW-002	REV 1