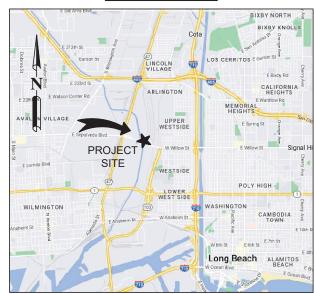


**ATTACHMENT NO. 1** 

#### VICINITY MAP





## **OLYMPUS TERMINALS TANK 15001** NOMINAL 15,000 BBL WELDED STEEL TANK CARSON, CA Ø41'-0" X 64'-0" HIGH

# **CONE ROOF TANK**

#### INDEX OF DRAWINGS:

- COVER SHEET
- 2. STANDARD ABBREVIATIONS
- 3. GENERAL WELDING INFORMATION
- 4. FOUNDATION SHOT RECORD
- ORIENTATION 5.

1.

- FOUNDATION 6.
- ANCHOR CHAIR DETAILS 7.
- TANK ELEVATION 8.

2365 E SEPULVEDA BLVD PROJECT LOCATION: LONG BEACH, CA 90810

#### TANK INFORMATION:

- Ø41'-0" INSIDE DIA X 64'-0" NOMINAL HEIGHT
- DESIGN LIQUID LEVEL: 64'-0"
- NOMINAL CAPACITY: 15,000 BBL

## **DESIGN CODES & STANDARDS:**

- API 650 13TH EDITION
- OWNER'S SPECIFICATIONS

## **GENERAL NOTES:**

- PIPE COATING & LINING SHALL BE PER OWNER'S SPECIFICATIONS.
- PIPE FLANGES SHALL BE PER ASTM A105/ASME B16.5 RAISED FACE CLASS 150, UNLESS OTHERWISE SPECIFIED.
- FLANGE BOLT HOLE TO STRADDLE FLANGE VERTICAL CENTERLINE, UNLESS OTHERWISE SPECIFIED.
- THE OWNER'S CONTRACT DRAWINGS PROVIDED THE PIPE SIZES. PRT HAS NOT CHECKED THE SIZES FOR HYDRAULICS AND IS PROVIDING THE SIZES AS SHOWN IN THE CONTRACT DRAWINGS.

#### MATERIALS:

- STEEL PLATES TO ASTM STANDARD A36 & A573-70.
- STRUCTURAL SHAPES TO ASTM STANDARD A36 & A992.
- PIPING TO ASTM STANDARD A106-B & A53-B.
- GUARDRAIL TO ASTM STANDARD A53-B.

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## **DESIGN CRITERIA:**

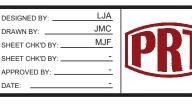
INTERNAL PRESSURE	$0.00 \text{ OZ/IN}^2$			
INTERNAL VACUUM		0.00 OZ/IN <sup>2</sup>		
• DESIGN TEMPERATURE		20	)0 °F	
• DESIGN METAL TEMPER	ATURE (DMT)	50	°F	
ROOF DEAD LOAD		10	0.21 PSF	
ROOF LIVE LOAD	20.00 PSF			
• DESIGN WIND VELOCITY	72 MPH			
EISMIC:				
• S <sub>S</sub>	1.719g	•	Fa	1.000
• S <sub>1</sub>	0.652g	•	Fv	1.700
• SEISMIC USE GROUP	Ι	•	R <sub>wi</sub>	4.0
• SITE CLASS	D	•	R <sub>wc</sub>	2.0
•   <sub>F</sub>	1.00	•	T,	8

• ROOF TYPE AND SLOPE: CONE ROOF WITH 1" IN 12" SLOPE

- 0.54g Avert
- CORROSION ALLOWANCE:

• DESIGN SPECIFIC GRAVITY:1.00

- CA roof 1/16"
- CA shell 1/16"
- CA<sub>bottom</sub> 1/16"



PASO ROBLES TANK. INC. 825 26th Street, Paso Robles, CA 93446 Ph: (805) 227-1641 • Fax: (805) 238-9654 3883 Wentworth Drive, Hemet, CA 92545 Ph: (951) 925-5022 • Fax: (951) 925-6822

**OLYMPUS TERMINALS TANK 15001** NOMINAL 15,000 BBL WELDED STEEL TANK CARSON, CA

TYPE: API 65

- SEISM • Ss • S1 SEISM SITE
  - |<sub>E</sub>

DRAWN BY

DATE:



50 MAT'L: - JOB: 41413-CF-02A OF: 8	со	VER SHEET			SH	1 1
	50	MAT'L: -	JOB:	41413-CF-02A	OF:	8

#### STANDARD ABBREVIATIONS

	ALUM	ALUMINUM	NO	NUMBER
	BC	BOLT CIRCLE	NOM	NOMINAL PIPE SIZE
	BNG	BOLT, NUT & GASKET KIT	NS	NEAR SIDE
	BOE	BEVEL ONE END	OD	OUTSIDE DIAMETER
	BW	BUTT WELD	PL	PLATE
	С	CHANNEL	PSF	POUNDS PER SQUARE FOOT
	c/c	CENTER TO CENTER	PSI	POUNDS PER SQUARE INCH
	CL	CENTER LINE	PT	DYE PENETRANT TEST
	CON	CONCENTRIC	QTY	QUANTITY
	CONC	CONCRETE	R	RADIUS
	CS	CARBON STEEL	RAD	RADIUS
	DIA	DIAMETER	RB	ROUND BAR
	DWG	DRAWING	REQ'D	REQUIRED
	ECC	ECCENTRIC	REV	REVISION
	EL	EPOXY LINED	RF	RAISED FACE
	ELEV	ELEVATION	RFSO	RAISED FACE SLIP ON
	F	FAHRENHEIT	RFWN	RAISED FACE SLIP ON
				STANDARD BEAM
	FB	FLAT BAR FLAT FACE	S	STANDARD BEAM
	FF		SB	
	FFSO		SCH	SCHEDULE
	FFWN	FLAT FACE WELD NECK	SHT	SHEET
	FRP	FIBERGLASS REINFORCED PLASTIC	SR	SHELL RING
	FS	FAR SIDE	SS	STAINLESS STEEL
	FT	FOOT	STD WT	STANDARD WEIGHT
	GALV	GALVANIZED	T	THICKNESS
	GA	GAGE OR GAUGE	TBD	TO BE DETERMINED
	HDG	HOT DIP GALVANIZED	TBE	THREAD BOTH ENDS
	HEX	STANDARD HEX	THK	THICK
	HOR	HORIZONTAL	THRD	THREADED
	ID	INSIDE DIAMETER	TOE	THREAD ONE END
	IN	INCHES	TS	TUBE STEEL
	L	ANGLE	TYP	TYPICAL
	LLH	LONG LEG HORIZONTAL	VERT	VERTICAL
	LLV	LONG LEG VERTICAL	WPG	WELD PROCEDURE GROUP
	LBS	POUNDS	W	WIDE FLANGE
	LR	LONG RADIUS	WPS	WELD PROCEDURE SPECIFICAT
	KSI	KIPS PER SQUARE INCH	XH WT	EXTRA HEAVY WEIGHT
	MATL	MATERIAL	XXH WT	DOUBLE EXTRA HEAVY WEIGHT
	MIN	MINIMUM	>	GREATER THAN
	MR	MID RAIL	>=	GREATER THAN OR EQUAL
	MT	MAGNETIC PARTICLE TEST	<	LESS THAN
	NDE	NON DESTRUCTIVE EXAMINATION	<=	LESS THAN OR EQUAL
	NPT	NATIONAL PIPE THREAD	#	NUMBER OR POUND
s document ormation des med commer rformed by RK performe	IS THE PROPE SCRIBING TECH RCIALLY SENSIT PRT. REPROD ED BY PRT IS	ERTY OF PASO ROBLES TANK, INC. ("PRT"). IT MAY CONTAIN INDLORY AND INTELLECTUAL PROPERTY OWNED BY PRT AND VE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK USER IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN EXPRESSLY FORBIDEN EXCEPT BY FRIGH WRITTEN PERSON OR NEWTY THAT IS GRAVIED ACCESS TO THIS	±	PLUS OR MINUS
		PERSON OR ENTITY THAT IS GRANTED ACCESS TO THIS ONSIBILITY TO SAFEGUARD IT AGAINST BOTH DELIBERATE AND ANY THIRD PARTY.	Copyright PRT,	Inc. 2023
EV D/	ATE	BY REMARKS		DESIGNED BY:

#### COATING ABBREVIATIONS

- CML CEMENT MORTAR LINED
- FUSION BOND EPOXY LINED FBEL
- EPOXY LINED\*\* EL
- ΟP OUTSIDE PAINTED\*\*
- N/A NOT APPLICABLE (NO APPLICATION REQ'D)

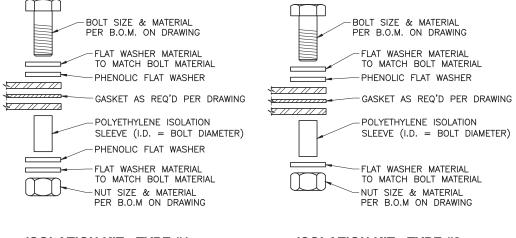
\*\*PAINT/COATING APPLICATION(S) TO BE IN COMPLIANCE WITH CUSTOMER SPECIFICATIONS OR WITH CUSTOMER APPROVED EQUAL.

#### LEGEND

DWG#	– APPURTENANCE MARK LISTING – DRAWING SHEET NUMBER
	FINISHED GRADE
	CONCRETE
	SAND
	AGGREGATE BASE
	CENTERLINE
	HIDDEN LINE
	PHANTOM LINE (INDICATES WORK BE PROVIDED BY OTHERS)

ΤO

	PIPE TO FLANGE WELD HOLDBACK DIMENSION				
		DIMENSION 'A'			
- <b>A</b> -	NOMINAL PIPE Ø	STD WT PIPE	XH WT PIPE		
	2"	5/16"	3/8"		
	2 1/2"	3/8"	7/16"		
	3"	3/8"	7/16"		
	3 1/2"	3/8"	1/2"		
	4"	3/8"	1/2"		
<u>├<u> </u> </u>	5"	7/16"	1/2"		
- <u></u>	6"	7/16"	9/16"		
<u> </u>	8" & ABOVE	1/2"	5/8"		



#### **ISOLATION KIT - TYPE #1** NTS

INAD\	ERTENT DISCLOSURE	TO ANY TH	HRD PARTY.	copyright FRI, inc. 2025		
RE	/ DATE	BY	REMARKS	DESIGNED BY:         LJA           DRAWN BY:         JMC           SHEET CHK'D BY:         MJF           SHEET CHK'D BY:         SHEET CHK'D BY:           APPROVED BY:         SHEET	PASO ROBLES TANK, INC. OLYMPUS TERMINALS	ſANK
				DATE	—	

**ISOLATION KIT - TYPE #2** 

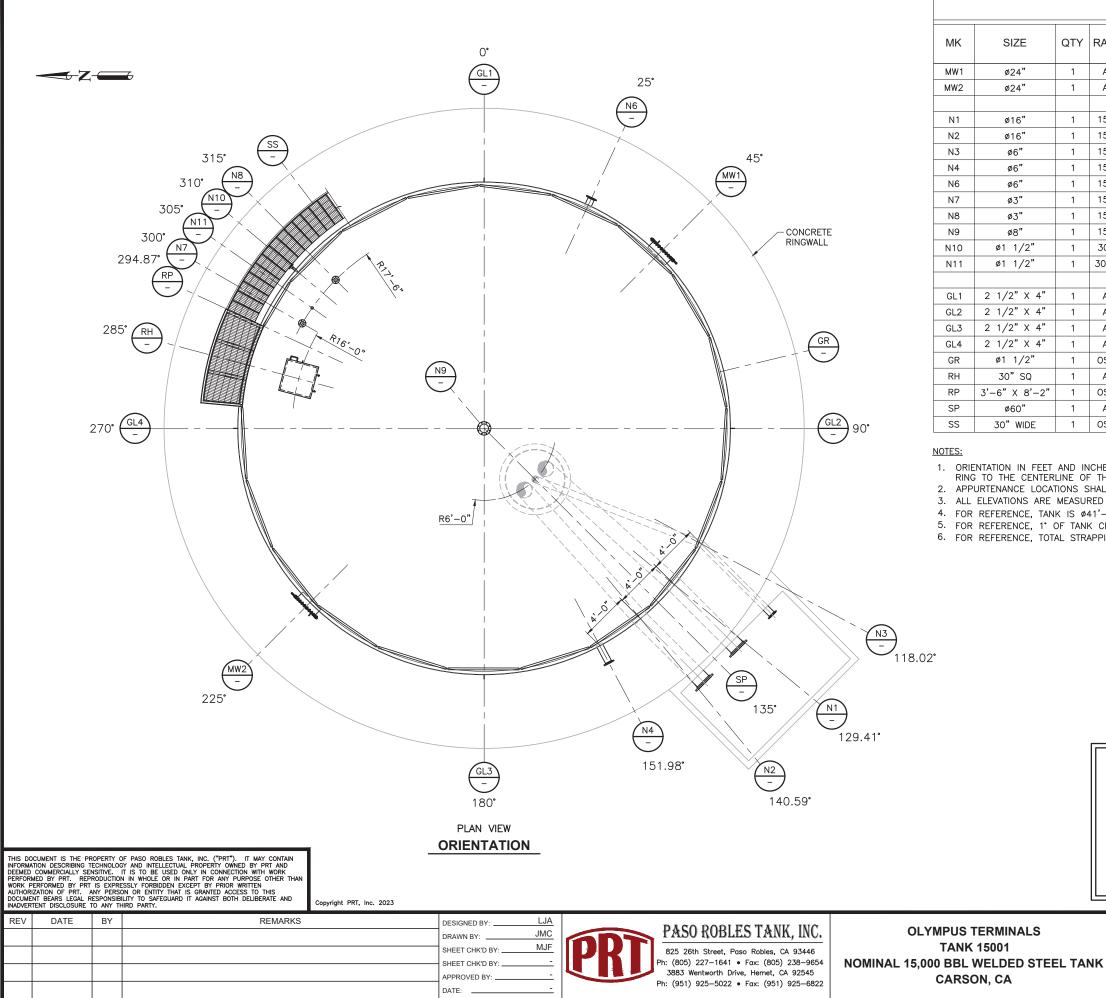
NTS



SHEET No.

STANDARD ABBREVIATIONS	
------------------------	--

STAN	DARD ABBREV	IATIONS	5		2
туре: АРІ 650	MAT'L: -	JOB:	41413-CF-02A	OF:	8



	0175	OTV	DATIO				ORIENTATION		DECODIDITION
MK	SIZE	QTY	RAT'G	PROJ	ELEV	DEG	DIMENSION	FROM	DESCRIPTION
MW1	ø24"	1	API	6"	2'-6"	45°	16'-1 5/8"	+0	MULTI-BOLT SHELL MANWA
WW2	ø24"	1	API	6"	2'-6"	225 <b>°</b>	16'-1 5/8"	+180	MULTI-BOLT SHELL MANWAY
N1	ø16"	1	150#	_	FLOOR	129.41°	14'-1 9/16"	+90	SUCTION
N2	ø16"	1	150 <b>#</b>	_	FLOOR	140.59*	18'-1 5/8"	+90	INLET
N3	ø6"	1	150#	-	FLOOR	118.02*	10'-0 9/16"	+90	LOW SUCTION
N4	ø6"	1	150#	-	1'-0"	151.98°	22'-2 5/8"	+90	SPARE
N6	ø6"	1	150#	1'-0"	63'-6"	25°	8'-11 9/16"	+0	FIRE FOAM CONNECTION
N7	ø3"	1	150#	1'-0"	ROOF	300°	10'-9 1/16"	+270	INSTRUMENTATION
N8	ø3"	1	150#	1'-0"	ROOF	315°	16'-1 5/8"	+270	INSTRUMENTATION
N9	ø8"	1	150#	1'-0"	ROOF	-	CENTER	-	VENT
v10 ø	1 1/2"	1	300#	6"	2'-0"	310°	14'-4 1/16"	+270	THERMOWELL CONNECTION
N11 Ø	1 1/2"	1	3000#	-	ROOF	305*	12'-6 9/16"	+270	TAPE CARRIER
GL1 2 1	/2" X 4"	1	API	_	1'-0"	0.	0"	+0	GROUNDING LUG 1
GL2 2 1	/2" X 4"	1	API	-	1'-0"	90°	0"	+90	GROUNDING LUG 2
GL3 2 1	/2" X 4"	1	API	_	1'-0"	180°	0"	+180	GROUNDING LUG 3
GL4 2 1	/2" X 4"	1	API	_	1'-0"	270°	0"	+270	GROUNDING LUG 4
GR Ø	1 1/2"	1	OSHA	3'-6"	ROOF	_	AS SHOWN	_	ROOF GUARDRAIL
RH .	30" SQ	1	API	6"	ROOF	285*	5'-4 9/16"	+270	ROOF HATCH
RP 3'-6	5" X 8'-2"	1	OSHA	_	64'-4 1/4"	294.87*	8'-11"	+270	ROOF PLATFORM
SP	ø60"	1	API	_	FLOOR	135*	16'-1 5/8"	+90	SUMP
SS 3	O" WIDE	1	OSHA	6"	SHELL	-	AS SHOWN	-	STAIRWAY

RING TO THE CENTERLINE OF THE APPURTENANCE.

2. APPURTENANCE LOCATIONS SHALL BE FIELD VERIFIED BY OWNER, PRIOR TO INSTALLATION.

4. FOR REFERENCE, TANK IS Ø41'-0" I.D.

5. FOR REFERENCE, 1° OF TANK CIRCUMFERENCE = 4 5/16" 6. FOR REFERENCE, TOTAL STRAPPING CIRCUMFERENCE AROUND BOTTOM RING = 129'-0 13/16"

> LOCATIONS NAME (PRINT) COMPANY SIGN

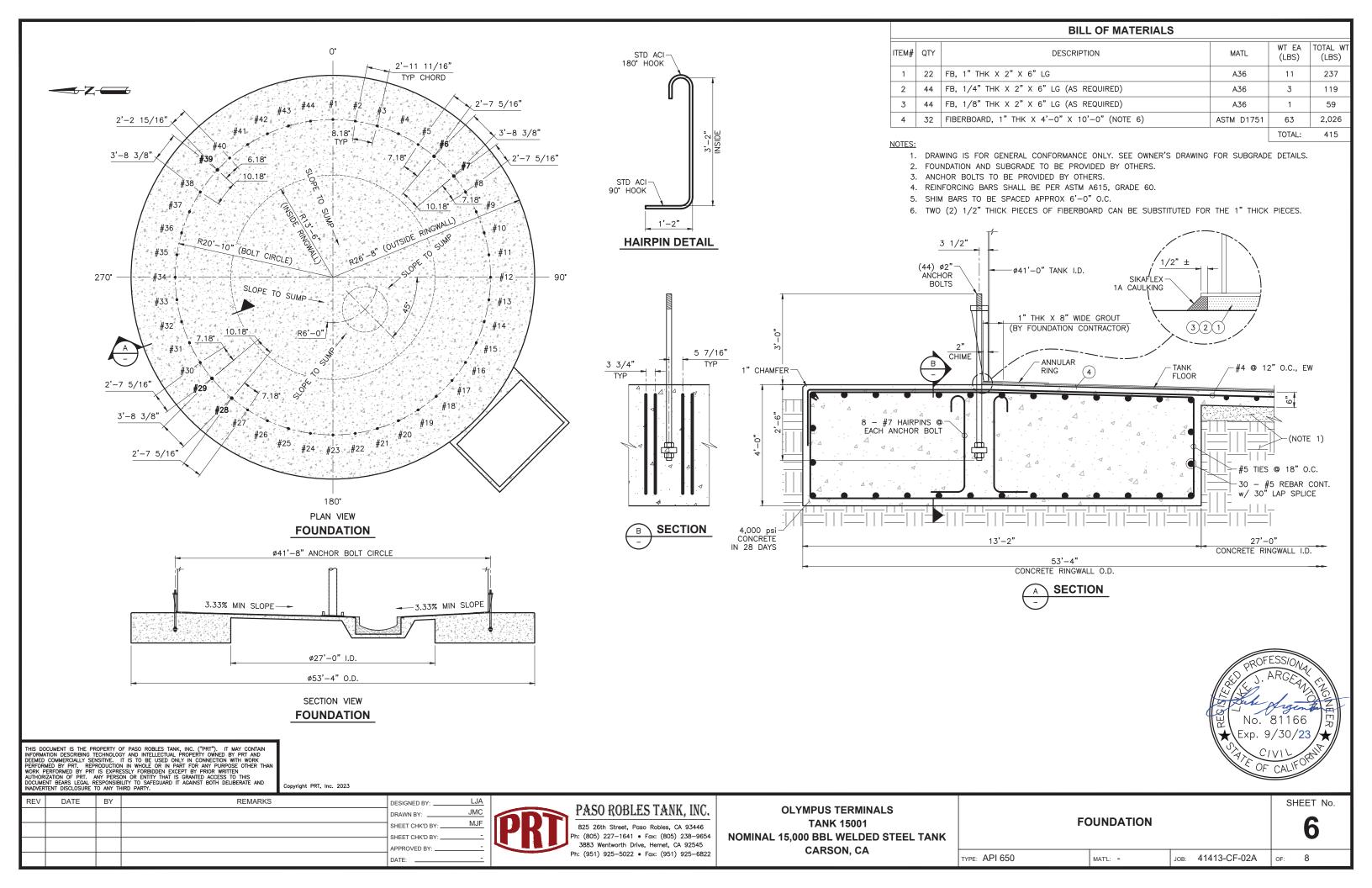
## TYPE: API 650

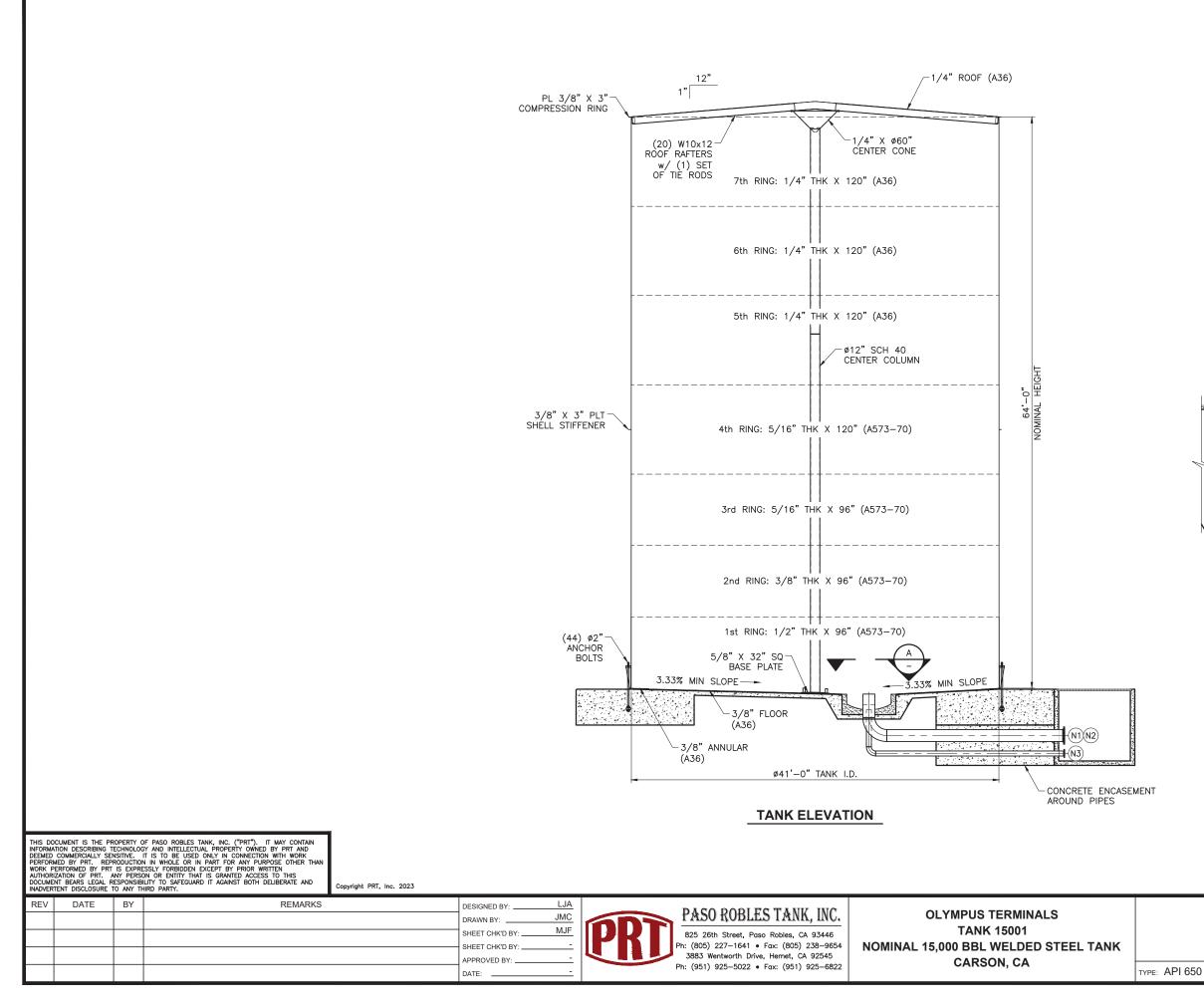
3. ALL ELEVATIONS ARE MEASURED FROM THE TOP OF THE TANK FLOOR AND AT THE OUTSIDE FACE OF THE SHELL.

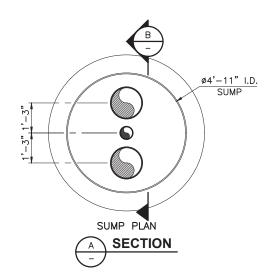
&	ELEVATIONS	VERIFIED BY:	
		DATE	

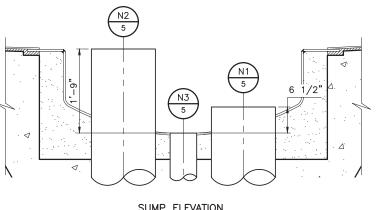


				SH	EET No.
OF	RIENTATION				5
	MAT'L: -	JOB:	41413-CF-02A	OF:	8







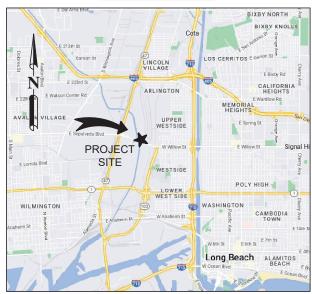


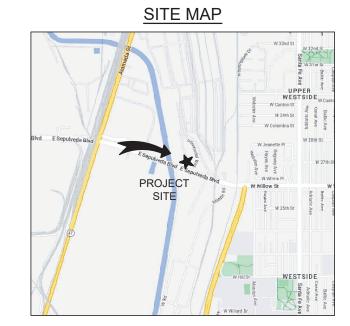




# TANK ELEVATION SHEET No. 0 MATL: JOB: 41413-CF-02A OF: 8

#### VICINITY MAP





#### 2365 E SEPULVEDA BLVD PROJECT LOCATION: LONG BEACH, CA 90810

#### TANK INFORMATION:

- Ø78'-0" INSIDE DIA X 64'-0" NOMINAL HEIGHT
- DESIGN LIQUID LEVEL: 64'-0"
- NOMINAL CAPACITY: 54,000 BBL

#### **DESIGN CODES & STANDARDS:**

- API 650 13TH EDITION
- OWNER'S SPECIFICATIONS

#### **GENERAL NOTES:**

- PIPE COATING & LINING SHALL BE PER OWNER'S SPECIFICATIONS.
- PIPE FLANGES SHALL BE PER ASTM A105/ASME B16.5 RAISED FACE CLASS 150, UNLESS OTHERWISE SPECIFIED.
- FLANGE BOLT HOLE TO STRADDLE FLANGE VERTICAL CENTERLINE, UNLESS OTHERWISE SPECIFIED.
- THE OWNER'S CONTRACT DRAWINGS PROVIDED THE PIPE SIZES. PRT HAS NOT CHECKED THE SIZES FOR HYDRAULICS AND IS PROVIDING THE SIZES AS SHOWN IN THE CONTRACT DRAWINGS.

#### MATERIALS:

- STEEL PLATES TO ASTM STANDARD A36 & A573-70.
- STRUCTURAL SHAPES TO ASTM STANDARD A36 & A992.
- PIPING TO ASTM STANDARD A106-B & A53-B.
- GUARDRAIL TO ASTM STANDARD A53-B.

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#### **DESIGN CRITERIA:**

		0		12
<ul> <li>INTERNAL PRESSURE</li> </ul>		0.0	00 OZ/IN	4
INTERNAL VACUUM		0.0	00 OZ/IN	2 <sup>2</sup>
DESIGN TEMPERATURE		20	0°F	
DESIGN METAL TEMPER	ATURE (DMT)	50	•F	
ROOF DEAD LOAD		10	.21 PSF	
ROOF LIVE LOAD		20.00 PSF		
DESIGN WIND VELOCITY	/	72	MPH	
SEISMIC:				
• Ss	1.719g	•	Fa	1.000
• S <sub>1</sub>	0.652g	•	Fv	1.700
SEISMIC USE GROUP	Ι	•	R <sub>wi</sub>	4.0
SITE CLASS	D	•	R <sub>wc</sub>	2.0
• I <sub>E</sub>	1.00	•	ΤL	8

0.54g Avert

# **TANK 55001** CARSON, CA Ø78'-0" X 64'-0" HIGH

# **OLYMPUS TERMINALS** NOMINAL 54,000 BBL WELDED STEEL TANK

# **CONE ROOF TANK**

## INDEX OF DRAWINGS:

#### COVER SHEET

- 2. STANDARD ABBREVIATIONS
- 3. GENERAL WELDING INFORMATION
- 4. FOUNDATION SHOT RECORD
- ORIENTATION 5.

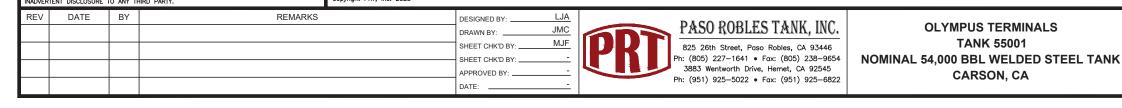
1.

- FOUNDATION 6.
- ANCHOR CHAIR DETAILS 7.
- 8. TANK ELEVATION

• ROOF TYPE AND SLOPE: CONE ROOF WITH 1" IN 12" SLOPE

#### CORROSION ALLOWANCE:

- CA roof 1/16"
- CA shell 1/16"
- CA<sub>bottom</sub> 1/16"



TYPE: API 65

							vver
•	DESIG	n spe	CIFIC	GRAVITY:	1.00		
•	ROOF	TYPE	AND	SLOPE:	CONF	ROOF	WITH



COVER SHEET					EET No.
50	MAT'L: -	JOB:	41413-CF-02B	OF:	8

#### STANDARD ABBREVIATIONS

KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN OR EQUAL         MT       MAGNETIC PARTICLE TEST       <       LESS THAN         NDE       NON DESTRUCTIVE EXAMINATION       <=       LESS THAN OR EQUAL         NPT       NATIONAL PIPE THREAD       #       NUMBER OR POUND         SUMENT IS THE PROPERTY OF PASO ROBLES TANK, INC. ("PRT"). IT MAY CONTAIN TON DESCRIBING TECHNOLOGY AND INTELLECTUAL PROPERTY OWNED BY PRT AND OND DESCRIBING TECHNOLOGY AND INTELLECTUAL PROPERTY OWNED BY PRT AND TON DESCRIBING TECHNOLOGY AND INTELLECTUAL PROPERTY OWNED BY PRT AND TON DESCRIBING TECHNOLOGY AND INTELLECTUAL PROPERTY OWNED BY PRT AND DATE ON OF PRT., REPRODUCTION IN MART FOR ANY PURPOSE OTHER THAN AND OF PRT., REPRODUCTION IN MART FOR ANY PURPOSE OTHER THAN TO DESCRIBING TECHNOLOGY AND INTELLECTUAL PROPERTY DATE ACCESS TO THIS THE DESCLOSURE TO ANY THIRD PARTY.       ±       PLUS OR MIINUS				
BNG     BOLT, NUT & GASKET KIT     NS     NEAR SIDE       BOE     BUVEL ONE END     OD     OUTSIDE DIAMETER       BW     BUTT WELD     PL     PLATE       C     CHANNEL     PSF     POUNDS PER SQUARE FOOT       C/C     CENTER TO CENTER     PSF     POUNDS PER SQUARE INCH       CL     CENTER TO CENTER     PT     DYE PENETRANT TEST       CON     CONCENTRIC     OTY     QUANTITY       CON     CONCENTRIC     RADIUS       CS     CARBON STEEL     RAD     RADIUS       DIA     DIAMETER     RB     ROUND BAR       DWG     DRAWING     REQ'D     REQUENTRIC       ELE     ECONNECTINC     REV     REVSION       ELE     ELEVATION     RFSO     RAISED FACE       ELE     ELEVATION     RFSO     RAISED FACE       FB     FLAT FACE     S     STANDARD BEAM       FFS     FLAT FACE     S     STANDARD BEAM       FFS     FLAT FACE     S     STANDARD BEAM       FFN     FLAT FACE     S     STANDARD MECHT       FFN     FLAT FACE     S     STANDARD MECHT       FFN     FLAT FACE     S     STANDARD MECHT       FFN     FLAT FACE     S     STANDARD MECHT<	ALUM	ALUMINUM	NO	NUMBER
BOE     BEVEL ONE END     OD     OUTSIDE DIAMETER       BW     BUIT WELD     PL     PLATE       C     CHANNEL     PSF     POUNDS PER SQUARE FOOT       C/C     CENTER TO CENTER     PSI     POUNDS PER SQUARE INCH       CL     CENTER LINE     PT     DYE PENETRANT TEST       CON     CONCENTRIC     OTY     QUANTITY       CONC     CONCENTRIC     OTY     QUANTITY       CONC     CONCENTRIC     RADIUS       CARBON STEEL     RAD     RADIUS       DIA     DIAMETER     RAD     REQ'D       DWG     DRAWING     REQ'D     REQUIRED       ELC     ECCENTRIC     REY     REUSION       EL     EPOXY LINED     RF     RASED FACE       EL     EPOXY LINED     RF     RASED FACE       FF     FLAT FACE     SB     SQUARE BAR       FF     FLAT FACE     SB     SQUARE BAR       FFS     FLAT FACE     SB     SQUARE BAR       FF     FLAT FACE SLIP ON     SH     SHELT       FF     FLAT FACE WELD NECK     SH     SHELT       FFN     FLAT FACE SLIP ON     SH     SHELT       FF     FLAT FACE SLIP ON     SH     SHELT       FFN     FLAT F	BC	BOLT CIRCLE	NOM	NOMINAL PIPE SIZE
BW     BUTT WELD     PL     PLATE       C     CHANNELL     PSF     POUNDS PER SQUARE FOOT       C/C     CENTER TO CENTER     PSI     POUNDS PER SQUARE INCH       CL     CENTER LINE     PT     DYE PENTRANT TEST       CON     CONCENTRIC     QTY     QUANTITY       CONC     CONCENTRIC     QTY     QUANTITY       CONC     CONCENTRIC     QTY     QUANTITY       CONC     CONCENTRIC     QTY     QUANTITY       CONC     CONCENTRIC     RADIUS       CS     CARBON STEEL     RAD     RADIUS       DIA     DIAMETER     RB     ROUND BAR       DWG     DRAWING     RECO'D     RECO'D       ELC     ECCENTRIC     RF     RAISED FACE       ELE     EDXY LINED     RF     RAISED FACE       ELEV     ELEVATION     RFSO     RAISED FACE       FF     FAHRENHEIT     RFWN     RAISED FACE       FF     FATAFACE     SB     SQUARE BAR       FFSO     FLAT FACE     SB     SQUARE BAR       FFSO     FLAT FACE     SB     STANDARD WELCHT       FF     FARSIDE     STATIARS SEEL     STANDARD WELCHT       GA     GACE OR GAUGE     TBD     TO BE DETERMINED	BNG	BOLT, NUT & GASKET KIT	NS	NEAR SIDE
C     CHANNEL     PSF     POUNDS PER SQUARE FOOT       C/C     CENTER TO CENTER     PSI     POUNDS PER SQUARE INCH       CL     CENTER LINE     PT     DVE PENETRANT TEST       CON     CONCENTRIC     QTY     QUANTTY       CONC     CONCENTRIC     QTY     QUANTTY       CONC     CONCENTRIC     R     RADIUS       CS     CARBON STEEL     RAD     RADIUS       DIA     DAMETER     RE     REQUIRED       DWG     DRAWING     REV     REVISION       EL     EPOXY LINED     RF     RASED FACE       ELV     ELEVATION     RFSO     RAISED FACE       FB     FLAT FACE     S     STANDARD BEAM       FF     FLAT FACE     S     STANDARD BEAM	BOE	BEVEL ONE END	OD	OUTSIDE DIAMETER
C/C     CENTER TO CENTER     PSI     POUNDS PER SQUARE INCH       CL     CENTER LINE     PT     DYE PENETRANT TEST       CON     CONCENTRIC     OTY     QUANTITY       CONC     CONCETE     R     RADIUS       CS     CARBON STEEL     RD     RADIUS       DIA     DUMETER     RB     ROUND BAR       DWG     DRAWING     REQ'D     REQUIRED       ECC     ECCENTRIC     RF     RASED FACE VELD       ELL     EPOXY LINED     RF     RASED FACE VELD       ELL     ELVATION     RFO     RASED FACE VELD NECK       FB     FLAT BAR     S     STANDARD BEAM       FF     FLAT FACE     SB     SOUARE BAR       FFS     FLAT FACE SUP ON     SCH     SCHEDULE       FFW     FLAT FACE SUP ON	BW	BUTT WELD	PL	PLATE
CL     CENTER LINE     PT     DVE PENETRANT TEST       CON     CONCENTRIC     GTY     QUANTTY       CONC     CONCRETE     R     RADIUS       CIA     DIAMETER     RB     ROUND BAR       DWG     DRAWING     REQ'D     REQUIRED       ECC     ECCENTRIC     RF     RAISED FACE       EL     EPOXY LINED     RF     RAISED FACE       ELL     EPOXY LINED     RF     RAISED FACE       FB     FLAT BAR     S     STANDARD BEAM       FF     FARENHEIT     RFWN     RAISED FACE       FB     FLAT FACE     SB     SOUARE BAR       FF     FAT BAR     S     STANDARD BEAM       FF     FAT SIDE     SS     STANDARD MEX       FF     FAR SIDE     SS     STANDARD WEIGHT       GALV     GALVANIZED     T     THICKNESS       GA     GAGE OR GAUGE     TBD     TO BE DETERMINED       HDG     HOT DF GALVANIZED     TS     TUBE STANDARD MEX       HDK     HORIZONTAL     THRC     THREAD BOTH ENDS <td>С</td> <td>CHANNEL</td> <td>PSF</td> <td>POUNDS PER SQUARE FOOT</td>	С	CHANNEL	PSF	POUNDS PER SQUARE FOOT
CONCENTRIC     QUANTITY     QUANTITY       CONC     CONCERTE     R     RADIUS       CS     CARBON STEEL     RAD     RADIUS       DIA     DUMETER     RB     ROUND BAR       DWG     DRAWING     REQ'     REQUIRED       ECC     ECCENTRIC     REV     REVISION       EL     EPOXY LINED     RF     RAISED FACE       ELEV     ELEVATION     RFSO     RAISED FACE       FE     FARRENHEIT     RFWN     RASED FACE       FF     FLAT FACE     SB     SQUARE BAR       FF     FAT SIDE     ST     STANDARD BEAM       FF     FLAT FACE     SB     SQUARE BAR       FF     FLAT FACE     SB     SQUARE BAR       FF     FAT SIDE     ST     STANDARD WEICHT       GA     GAGE OR GAUGE     TBD     TO BE DETERMINED       HC     AGAUANZED     T	c/c	CENTER TO CENTER	PSI	POUNDS PER SQUARE INCH
CONC     CONCETE     R     RADIUS       CONC     CONCETE     RAD     RADIUS       DIA     DIAMETER     RB     ROUND BAR       DWG     DRAWING     REQ'D     REQUIRED       ECC     ECCENTRIC     REV     REVINO       EL     EPOXY LINED     RF     RAISED FACE       ELLE     ELEVATION     RFSO     RAISED FACE       FF     FAHRENHEIT     RFWN     RAISED FACE       FF     FLAT BAR     S     STANDARD BEAM       FF     FLAT FACE     SB     SQUARE BAR       FFSO     FLAT FACE     SB     SQUARE BAR       FFSO     FLAT FACE SLIP ON     SCH     SCHELL       FFW     FLAT FACE SLIP ON     SCH     SCHELL       FFN     FLAT FACE SLIP ON     SCH     SCHELL <tr< td=""><td>CL</td><td>CENTER LINE</td><td>PT</td><td>DYE PENETRANT TEST</td></tr<>	CL	CENTER LINE	PT	DYE PENETRANT TEST
CS     CARBON STEEL     RAD     RADIUS       DIA     DIAMETER     RB     ROUND BAR       DWG     DRAWING     REQ'D     REQUIRED       ECC     ECCENTRIC     REV     REVISION       ELC     EDOXY LINED     RF     RAISED FACE       ELL     EPOXY LINED     RF     RAISED FACE       ELLEV     ELEVATION     RFSO     RAISED FACE SLIP ON       F     FAHRENHEIT     RTWN     RISED FACE WELD NECK       FB     FLAT BAR     S     STANDARD BEAM       FFSO     FLAT FACE SLIP ON     SCH     SCHEDULE       FFWN     FLAT FACE WELD NECK     SH     SHELL RING       FFS     FLAT FACE WELD NECK     SH     SHELL RING       FS     FAR SIDE     SS     STANDARD WEIGHT       GA     GACE OR GAUGE     SS     STANLESS STEEL       FT     FOOT     STD WT     STANDARD WEIGHT       GA     GACE OR GAUGE     TBD     TO BE DETERMINED       HDG     HOT DIP GALVANIZED     TBE     THREAD BOTH ENDS       HEX     STANDARD HEX     THK     THICK       HDG     HORIZONTAL     TRAD     THEADED       ID     INSIDE DIAMETER     TOE     THREADED       ID     INSIDE DIAMETER<	CON	CONCENTRIC	QTY	QUANTITY
Diametre     RB     ROUND BAR       Diam     Diametre     REQ'D     REQUIRED       Diametre     REV     REVISION       ELC     ECCENTRIC     REV     REVISION       EL     EPOXY LINED     RF     RAISED FACE       ELLV     ELEVATION     RFSO     RAISED FACE       FL     FAHRENHEIT     RFWN     RAISED FACE       FB     FLAT BAR     S     STANDARD BEAM       FF     FLAT FACE     SB     SQUARE BAR       FFSO     FLAT FACE     SB     SQUARE BAR       FFSO     FLAT FACE     SB     SQUARE BAR       FFS     FAR SIDE     SS     STANDARD BEAM       FF     FLAT FACE     SB     SQUARE BAR       FFS     FAR SIDE     SS     STANDARD BEAM       FF     FLAT FACE     SB     SQUARE BAR       FF     FOOT     SCH     SCHEDULE       FRP     FIBERGLASS REINFORCED PLASTIC     SR     SHELL RING       GA     GACE OR GAUGE     TD     THICKNESS       GA     GACE OR GAUGE     TD     TO BE DETERMINED       HDG     HOT DIP GALVANIZED     THE     THREAD ONE END       ID     INSIDE DIAMETER     TOE     THREAD ONE END       ID	CONC	CONCRETE	R	RADIUS
DWG     DRAWING     REQ'D     REQURED       DWG     DRAWING     REQ'D     REQURED       ECC     ECCENTRIC     REV     REVISION       EL     EPOXY LINED     RF     RAISED FACE       ELEV     ELEVATION     RFSO     RAISED FACE       FB     FLAT BAR     S     STANDARD BEAM       FF     FLAT FACE     SB     SQUARE BAR       FFSO     FLAT FACE SUIP ON     SCH     SCHEDULE       FFWN     FLAT FACE WELD NECK     SHT     SHEET       FRP     FIBERGLASS REINFORCED PLASTIC     SR     SHELL RING       FS     FAR SIDE     SS     STAINLESS STEEL       FT     FOOT     STD WT     STANDARD WEIGHT       GALV     GALVANIZED     T     THICKNESS       GA     GACE OR GAUGE     TBD     TO BE DETERMINED       HDG     HOT IDIP GALVANIZED     TBE     THREAD BOTH ENDS       HEX     STANDARD HEX     THK     THICK       HOR     HORIZONTAL     THREAD ONE END       IN     INCHES     TS     TUBE STEEL       L     ANGLE     TYP     TYPICAL       LLH     LONG LEG HORIZONTAL     VERT VERTICAL       LLH     LONG LEG HORIZONTAL     VERT VERTICAL	CS	CARBON STEEL	RAD	RADIUS
ECC       ECCENTRIC       REV       REVISION         EL       EDOXY LINED       RF       RAISED FACE         ELEV       ELEV       ELEVATION       RFSO       RAISED FACE         FB       FLAT BAR       S       STANDARD BEAM         FF       FLAT FACE       SB       SQUARE BAR         FFF       FLAT FACE       SB       SQUARE BAR         FFFWN       FLAT FACE SLIP ON       SCH       SCHEDULE         FFFWN       FLAT FACE       ST       SHELL RING         FF       FOOT       STD WT       STANDARD WEIGHT         GA       GACE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT IDIP GALVANIZED       THERAD ONE END       THERAD ONE END         HDG       HOT IDIP GALVANIZED       TS	DIA	DIAMETER	RB	ROUND BAR
EL       EPOXY LINED       RF       RAISED FACE         ELEV       ELEVATION       RFSO       RAISED FACE SLIP ON         F       FAHRENHEIT       RFWN       RAISED FACE WELD NECK         FB       FLAT BAR       S       STANDARD BEAM         FF       FLAT FACE       SB       SQUARE BAR         FFSO       FLAT FACE       SB       SQUARE BAR         FFWN       FLAT FACE       SB       SQUARE BAR         FFWN       FLAT FACE       SB       SQUARE BAR         FFWN       FLAT FACE WELD NECK       SHT       SHEET         FRP       FIBERGLASS REINFORCED PLASTIC       SR       SHELL RING         FS       FAR SIDE       SS       STAINLESS STEEL         FT       FOOT       STD WT       STANDARD WEIGHT         GALV       GALVANIZED       T       THICKNESS         GA       CAGE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HEX       STANDARD HEX       THK       THICK         HDR       HORIZONTAL       THR       THICK         LL       ANGLE       TYP       TYPICAL         LL	DWG	DRAWING	REQ'D	REQUIRED
ELEV       ELEVATION       RFSO       RAISED FACE SLIP ON         F       FAHRENHEIT       RFWN       RAISED FACE WELD NECK         FB       FLAT FACE       SB       SQUARE BAR         FF       FLAT FACE       SB       SQUARE BAR         FRP       FLAT FACE SLIP ON       SCH       SCHEDULE         FFWN       FLAT FACE WELD NECK       SHT       SHEET         FRP       FIBERGLASS REINFORCED PLASTIC       SR       SHELL RING         FS       FAR SIDE       SS       STANDARD WEIGHT         GALV       GALVANIZED       T       THICKNESS         GA       GACE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HEX       STANDARD HEX       THK       THICK         HOR       HORIZONTAL       THRE       THERD         ID       INSIDE DIAMETER       TOE       THREAD ONE END         IN       INCHES       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG FADIUS       WPS       WELD PROCEDURE GROUP         KSI       KIPS PER SQUARE INCH       XH WT       COUDURE STRAIN ONE EQUAL <td>ECC</td> <td>ECCENTRIC</td> <td>REV</td> <td>REVISION</td>	ECC	ECCENTRIC	REV	REVISION
F       FAHRENHEIT       RFWN       RAISED FACE WELD NECK         FB       FLAT FACE       SB       SQUARE BAR         FF       FLAT FACE       SB       SQUARE BAR         FFS0       FLAT FACE SLIP ON       SCH       SCHEDULE         FFWN       FLAT FACE WELD NECK       SHT       SHEET         FRP       FIBERGLASS REINFORCED PLASTIC       SR       SHELL RING         FS       FAR SIDE       SS       STAINLESS STEEL         FT       FOOT       STD WT       STANDARD WEIGHT         GALV       GALVANIZED       T       THICKNESS         GA       GAGE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HEX       STANDARD HEX       THK       THICK         HOR       HORIZONTAL       THE       THREAD ONE END         ID       INSIDE DIAMETER       TOE       THREAD ONE END         IL       ANGLE       TYP       TYPICAL         LLH       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WDE FLANGE         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT </td <td>EL</td> <td>EPOXY LINED</td> <td>RF</td> <td>RAISED FACE</td>	EL	EPOXY LINED	RF	RAISED FACE
FB       FLAT BAR       S       STANDARD BEAM         FF       FLAT FACE       SB       SQUARE BAR         FFSO       FLAT FACE SLIP ON       SCH       SCHEDULE         FFWN       FLAT FACE WELD NECK       SHT       SHEET         FRP       FIBERGLASS REINFORCED PLASTIC       SR       SHELL RING         FS       FAR SIDE       SS       STAINLESS STEEL         FT       FOOT       STD WT       STANDARD WEIGHT         GALV       GALVANIZED       T       THICKNESS         GA       GAGE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HCR       HORIZONTAL       THR       THREAD ONE END         HDG       HORIZONTAL       THR       THREAD ONE END         ID       INSIDE DIAMETER       TS       TUBE STEEL         L       ANGLE       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         KSI       KIPS PER SQUARE INCH       XH WT       EXTERA HEAVY WEIGHT	ELEV	ELEVATION	RFSO	RAISED FACE SLIP ON
FF       FLAT FACE       SB       SQUARE BAR         FFS0       FLAT FACE SLIP ON       SCH       SCHEDULE         FFWN       FLAT FACE WELD NECK       SHT       SHEET         FRP       FIBERGLASS REINFORCED PLASTIC       SR       SHELL RING         FS       FAR SIDE       SS       STAINLESS STEEL         FT       FOOT       STD WT       STANDARD WEIGHT         GALV       GALVANIZED       T       THICKNESS         GA       GAGE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HEX       STANDARD HEX       THK       THICK         HOR       HORIZONTAL       THRD       THREAD ONE END         ID       INSIDE DIAMETER       TOE       THREAD ONE END         IL       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE       SECEDURE GROUP         KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT       SECEDURE GROUP         MATL       MATERIAL <td>F</td> <td>FAHRENHEIT</td> <td></td> <td>RAISED FACE WELD NECK</td>	F	FAHRENHEIT		RAISED FACE WELD NECK
FFS0       FLAT FACE SLIP ON       SCH       SCHEDULE         FFWN       FLAT FACE WELD NECK       SHT       SHEET         FRP       FIBERGLASS REINFORCED PLASTIC       SR       SHELL RING         FS       FAR SIDE       SS       STAINLESS STEEL         FT       FOOT       STD WT       STANDARD WEIGHT         GALV       GALVANIZED       T       THICKNESS         GA       GAGE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HEX       STANDARD HEX       THK       THICK         HOR       HORIZONTAL       THRD       THREAD ONE END         ID       INSIDE DIAMETER       TOE       THREAD ONE END         ID       INSIDE DIAMETER       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE       SREATER THAN         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MATL       MATERIAL <td< td=""><td>FB</td><td>FLAT BAR</td><td>S</td><td>STANDARD BEAM</td></td<>	FB	FLAT BAR	S	STANDARD BEAM
FFWN       FLAT FACE WELD NECK       SHT       SHEET         FRP       FIBERGLASS REINFORCED PLASTIC       SR       SHELL RING         FS       FAR SIDE       SS       STAINLESS STEEL         FT       FOOT       STD WT       STANDARD WEIGHT         GALV       GALVANIZED       T       THICKNESS         GA       GAGE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HEX       STANDARD HEX       THK       THICK         HOR       HORIZONTAL       THRD       THREAD ONE END         ID       INSIDE DIAMETER       TOE       THREAD ONE END         IN       INCHES       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG RADIUS       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XH WT       CELD RE	FF	FLAT FACE	SB	SQUARE BAR
FFWN       FLAT FACE WELD NECK       SHT       SHEET         FRP       FIBERGLASS REINFORCED PLASTIC       SR       SHELL RING         FS       FAR SIDE       SS       STAINLESS STEEL         FT       FOOT       STD WT       STANDARD WEIGHT         GALV       GALVANIZED       T       THICKNESS         GA       GAGE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HEX       STANDARD HEX       THK       THICK         HOR       HORIZONTAL       THRD       THREAD ONE END         ID       INSIDE DIAMETER       TOE       THREAD ONE END         IN       INCHES       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG RADIUS       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XH WT       CELD RE	FFSO	FLAT FACE SLIP ON	SCH	SCHEDULE
FS       FAR SIDE       SS       STAINLESS STELL         FT       FOOT       STD WT       STANDARD WEIGHT         GALV       GALVANIZED       T       THICKNESS         GA       GAGE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HEX       STANDARD HEX       THK       THICK         HOR       HORIZONTAL       THRD       THREAD BOTH ENDS         ID       INSIDE DIAMETER       TOE       THREAD ONE END         IN       INCHES       TS       TUBES STELL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG RADIUS       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       WPS       WELD PROCEDURE SPECIFICATIO         KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XKH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN			SHT	SHEET
FT     FOOT     STD WT     STANDARD WEIGHT       GALV     GALVANIZED     T     THICKNESS       GA     GAGE OR GAUGE     TBD     TO BE DETERMINED       HDG     HOT DIP GALVANIZED     TBE     THREAD BOTH ENDS       HEX     STANDARD HEX     THK     THICK       HOR     HORIZONTAL     THRD     THREAD BOTH ENDS       ID     INSIDE DIAMETER     TOE     THREAD ONE END       IN     INCHES     TS     TUBES STEEL       L     ANGLE     TYP     TYPICAL       LLH     LONG LEG HORIZONTAL     VERT     VERTICAL       LLV     LONG RADIUS     WPG     WELD PROCEDURE GROUP       LBS     POUNDS     W     WDE FLANGE       LR     LONG RADIUS     WPS     WELD PROCEDURE SPECIFICATIO       KSI     KIPS PER SQUARE INCH     XH WT     EXTRA HEAVY WEIGHT       MATL     MATERIAL     XKH WT     DOUBLE EXTRA HEAVY WEIGHT       MIN     MINIMUM     >     GREATER THAN       MR     MID RAIL     >=     GREATER THAN       NDE     NON DESTRUCTIVE EXAMINATION     <=	FRP	FIBERGLASS REINFORCED PLASTIC	SR	SHELL RING
GALV       GALVANIZED       T       THICKNESS         GA       GAGE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HEX       STANDARD HEX       THK       THICK         HOR       HORIZONTAL       THRD       THREAD BOTH ENDS         ID       INSIDE DIAMETER       TOE       THREAD ONE END         ID       INSIDE DIAMETER       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG RADIUS       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       DOUBLE EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       <=	FS	FAR SIDE	SS	STAINLESS STEEL
GA       GAGE OR GAUGE       TBD       TO BE DETERMINED         HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HEX       STANDARD HEX       THK       THICK         HOR       HORIZONTAL       THRD       THREADED         ID       INSIDE DIAMETER       TOE       THREAD ONE END         ID       INSIDE DIAMETER       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN         NDE       NON DESTRUCTIVE EXAMINATION       <=	FT	FOOT	STD WT	STANDARD WEIGHT
HDG       HOT DIP GALVANIZED       TBE       THREAD BOTH ENDS         HEX       STANDARD HEX       THK       THICK         HOR       HORIZONTAL       THRD       THREADED         ID       INSIDE DIAMETER       TOE       THREAD ONE END         ID       INSIDE DIAMETER       TOE       THREAD ONE END         IN       INCHES       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MATL       MATERIAL       SES THAN       >=         MR<	GALV	GALVANIZED	т	THICKNESS
HEX       STANDARD HEX       THK       THICK         HOR       HORIZONTAL       THRD       THREADED         ID       INSIDE DIAMETER       TOE       THREAD ONE END         IN       INCHES       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN OR EQUAL         MT       MAGENETIC PARTICLE TEST       <	GA	GAGE OR GAUGE	TBD	TO BE DETERMINED
HOR       HORIZONTAL       THRD       THREAD EDD         ID       INSIDE DIAMETER       TOE       THREAD ONE END         IN       INCHES       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN OR EQUAL         MT       MAGNETIC PARTICLE TEST       <	HDG	HOT DIP GALVANIZED	TBE	THREAD BOTH ENDS
ID       INSIDE DIAMETER       TOE       THREAD ONE END         IN       INCHES       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MR       MID RAIL       >=       GREATER THAN         MR       MID RAIL       >=       GREATER THAN OR EQUAL         MT       MAGNETIC PARTICLE TEST       <	HEX	STANDARD HEX	ТНК	THICK
IN       INCHES       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN OR EQUAL         MT       MAGNETIC PARTICLE TEST       <	HOR	HORIZONTAL	THRD	THREADED
IN       INCHES       TS       TUBE STEEL         L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN OR EQUAL         MT       MAGNETIC PARTICLE TEST       <			TOE	THREAD ONE END
L       ANGLE       TYP       TYPICAL         LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN         MT       MAGNETIC PARTICLE TEST       <				
LLH       LONG LEG HORIZONTAL       VERT       VERTICAL         LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATION         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN         MT       MAGNETIC PARTICLE TEST       <				
LLV       LONG LEG VERTICAL       WPG       WELD PROCEDURE GROUP         LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATIO         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN OR EQUAL         MT       MAGNETIC PARTICLE TEST       <				
LBS       POUNDS       W       WIDE FLANGE         LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATION         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN OR EQUAL         MT       MAGNETIC PARTICLE TEST       <				
LR       LONG RADIUS       WPS       WELD PROCEDURE SPECIFICATION         KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN         MT       MAGNETIC PARTICLE TEST       <				
KSI       KIPS PER SQUARE INCH       XH WT       EXTRA HEAVY WEIGHT         MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN OR EQUAL         MT       MAGNETIC PARTICLE TEST       <				WELD PROCEDURE SPECIFICATION
MATL       MATERIAL       XXH WT       DOUBLE EXTRA HEAVY WEIGHT         MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN         MT       MAGNETIC PARTICLE TEST       <				
MIN       MINIMUM       >       GREATER THAN         MR       MID RAIL       >=       GREATER THAN OR EQUAL         MT       MAGNETIC PARTICLE TEST       <				
MR     MID RAIL     >=     GREATER THAN OR EQUAL       MT     MAGNETIC PARTICLE TEST     <				
MT     MAGNETIC PARTICLE TEST     <				
NDE       NON DESTRUCTIVE EXAMINATION       <=       LESS THAN OR EQUAL         NPT       NATIONAL PIPE THREAD       #       NUMBER OR POUND         SUMENT IS THE PROPERTY OF PASO ROBLES TANK, INC. ("PRT"). IT MAY CONTAIN       ±       PLUS OR MINUS         COMMERCIALLY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK       ±       PLUS OR MINUS         DB BY PRT. ARP PORTON IN WHOLE OR IN PART FOR ANY PUROPSE OTHER THAN       ±       Copyright PRT, Inc. 2023         Copyright       PRT, Inc. 2023       Copyright PRT, Inc. 2023				
NPT     NATIONAL PIPE THREAD     #     NUMBER OR POUND       CUMENT IS THE PROPERTY OF PASO ROBLES TANK, INC. ("PRT"). IT MAY CONTAIN TON DESCRIBING TECHNOLOGY AND INTELLECTUAL PROPERTY OWNED BY PRT AND COMMERCIALLY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK ED BY PRT. REPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN RFORMED BY PRT. SEXPRODUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN ATION OF PRT. ANY PERSON OR ENTITY THAT IS GRANTED ACCESS TO THIS TBEAKS LEAR. RESPONSIBILITY TO SAFEGUARD IT AGAINST BOTH DELIBERATE AND ENT DISCLOSURE TO ANY THIRD PARTY.     Copyright PRT, Inc. 2023				
DUMENT IS THE PROPERTY OF PASO ROBLES TANK, INC. ("PRT"). IT MAY CONTAIN       ±       PLUS OR MINUS         DION DESCRIBING TECHNOLOGY AND INTELLECTUAL PROPERTY OWNED BY PRT AND       ±       PLUS OR MINUS         COMMERCIALLY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK       ±       PLUS OR MINUS         DE BY PRT. REPRODUCTION IN WHOLD CR IN PART FOR ANY PURPOSE OTHER THAN       ±       Commercially sensitive. IT IS EXPRESSLY FORBIDDEN EXCEPT BY PRIOR WRITEN         TROOMED BY PRT. IS EXPRESSION OR ENTITY THAT IS GRANTED ACCESS TO THIS       THIS       Copyright PRT, Inc. 2023         TOTO OF PRT. INP PARTY.       DESLOSURE TO ANY THIRD PARTY.       DESLOSURE TO ANY THIRD PARTY.				
ION DESCRIBING TECHNOLOGY AND INTELLECTUAL PROPERTY OWNED BY PRT AND COMMERCIALLY SENSITIVE. IT IS TO BE USED ONLY IN CONNECTION WITH WORK DB YPRT. REPRODUCTION IN WHOLE OR IN PART FOR ANY PUROSE OTHER THAN REFORMED BY PRT IS EXPRESSLY FORBIDDEN EXCEPT BY PRIOR WRITEN ATION OF PRT. ANY PERSON OR ENTITY THAT IS GRANTED ACCESS TO THIS IT BEARS LEGAL RESPONSIBILITY TO SAFEGUARD IT AGAINST BOTH DELIBERATE AND ENT DISCLOSURE TO ANY THIRD PARTY.				
	ED BY PRT. REPROL REFORMED BY PRT IS ATION OF PRT. ANY IT BEARS LEGAL RESE	UTEN IN IS TO BE USED ONLY IN CONNECTION WITH WORK JUCTION IN WHOLE OR IN PART FOR ANY PURPOSE OTHER TH. EXPRESSLY FORBIDDEN EXCEPT BY PRIOR WRITTEN PERSON OR ENTITY THAT IS GRANTED ACCESS TO THIS "ONSIBILITY TO SAFEGUARD IT AGAINST BOTH DELIBERATE AND	AN	
		ANY THIRD PARTY. BY REMARK		DESIGNED BY:

## COATING ABBREVIATIONS

CML C	EMENT	MORTAR	LINED
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FBEL	FUSION	BOND	EPOXY	LINED	
1 DEE	1 001011	00110	E. 0/(1		

EL EPOXY LINED**	
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OP	OUTSIDE	PAINTED**

N/A NOT APPLICABLE (NO APPLICATION REQ'D)

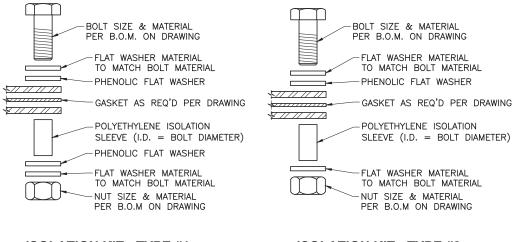
\*\*PAINT/COATING APPLICATION(S) TO BE IN COMPLIANCE WITH CUSTOMER SPECIFICATIONS OR WITH CUSTOMER APPROVED EQUAL.

#### LEGEND

MK DWG#	– APPURTENANCE MARK LISTING – DRAWING SHEET NUMBER
	FINISHED GRADE
4	CONCRETE
	SAND
	AGGREGATE BASE
	CENTERLINE
	HIDDEN LINE
	PHANTOM LINE (INDICATES WORK BE PROVIDED BY OTHERS)

ΤO

	PIPE TO FLANGE WELD HOLDBACK DIMENSION				
		DIMENSION 'A'			
<b>—</b>	NOMINAL PIPE Ø	STD WT PIPE	XH WT PIPE		
	2"	5/16"	3/8"		
	2 1/2"	3/8"	7/16"		
	3"	3/8"	7/16"		
	3 1/2"	3/8"	1/2"		
	4"	3/8"	1/2"		
<u>   </u>	5"	7/16"	1/2"		
	6"	7/16"	9/16"		
	8" & ABOVE	1/2"	5/8"		



#### **ISOLATION KIT - TYPE #1** NT

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INFORMA DEEMED PERFORI WORK P AUTHOR DOCUME	TION DESCRIBING T COMMERCIALLY SE MED BY PRT. REP ERFORMED BY PRT ZATION OF PRT.	ECHNOLOG NSITIVE. RODUCTIOI IS EXPRE ANY PERSO ESPONSIB	OF PASO ROBLES TANK, INC. ("PRT"). IT MAY CONTAIN SY AND INTELLECTUAL PROPERTY OWNED BY PRT AND IT IS TO BE USED ONLY IN CONNECTION WITH WORK N IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN SSLY FORBIDEN EXCEPT BY PRIOR WRITEN ON OR ENTITY THAT IS GRANTED ACCESS TO THIS LITY TO SAFEGUARD IT AGAINST BOTH DELIBERATE AND INCD PARTY.	± PLUS OR MIN Copyright PRT, Inc. 2023	JS			
REV	DATE	BY	REMARKS		DESIGNED BY:         LJA           DRAWN BY:         JMC           SHEET CHK'D BY:         MJF           SHEET CHK'D BY:         -           APPROVED BY:         -           DATE:         -	PRT	PASO ROBLES TANK, INC. 825 26th Street, Paso Robles, CA 93446 Ph: (805) 227–1641 • Fax: (805) 238–9654 3883 Wentworth Drive, Hernet, CA 92545 Ph: (951) 925–5022 • Fax: (951) 925–6822	OLYMPUS TERMINALS TANK 55001 NOMINAL 54,000 BBL WELDED STEEL TANK CARSON, CA

**ISOLATION KIT - TYPE #2** 

NTS

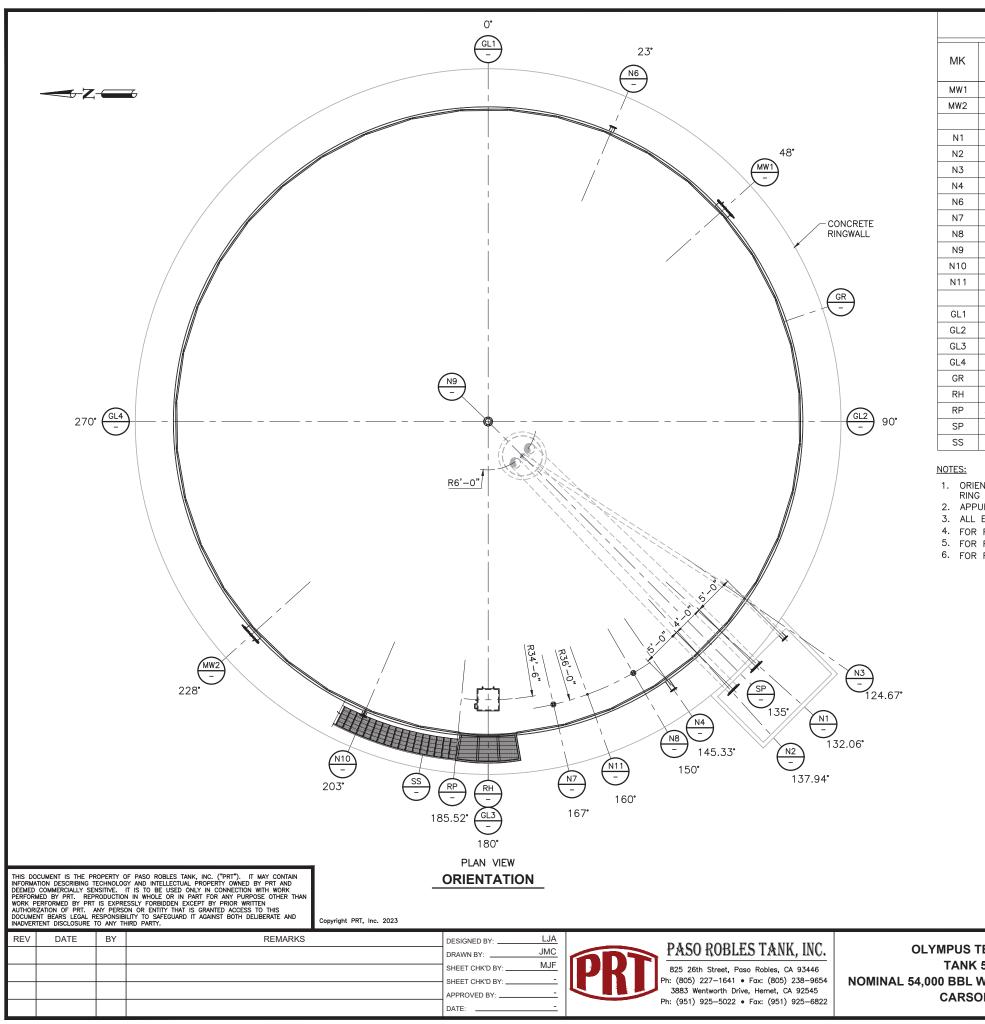


STANDAR	IONS	2

MAT'L: -

OF: 8

SHEET No.



#### SIZE QTY RAT'G PROJ API 6" ø24" 1 ø24" 1 API 6" ø16" 1 150# \_ 150# 1 \_ ø16" 150# ø6" 1 \_ 150# ø6" 1 \_ 150# 1'-0" ø8" 1 150# 1'-0" ø3" 1 ø3" 1 150# 1'-0" 1'-0" ø8" 1 150# ø1 1/2" 1 300# 6" ø1 1/2" 1 3000# \_ 2 1/2" X 4" 1 API \_ ø1 1/2" 3'-6" 1 OSHA 30" SQ 1 API 6" 3'-6" X 8'-2" 1 OSHA \_ ø60" 1 API \_

1. ORIENTATION IN FEET AND INCHES ARE MEASUR RING TO THE CENTERLINE OF THE APPURTENAN

1

OSHA

2. APPURTENANCE LOCATIONS SHALL BE FIELD VER

3. ALL ELEVATIONS ARE MEASURED FROM THE TOP

4. FOR REFERENCE, TANK IS Ø78'-0" I.D.

30" WIDE

5. FOR REFERENCE, 1° OF TANK CIRCUMFERENCE

6. FOR REFERENCE, TOTAL STRAPPING CIRCUMFERE

LOCATIONS
NAME (PRINT)
COMPANY
SIGN

6"

#### OLYMPUS TERMINALS **TANK 55001** NOMINAL 54,000 BBL WELDED STEEL TANK CARSON, CA

TYPE: API 65

	ROOF		AS SHOWIN	_	ROOF GUA	NDINAIL	
	ROOF	180°	0"	+180	ROOF HAT	СН	
	32'-4 1/4"	185.52 <b>°</b>	3'-9 1/8"	+180	ROOF PLA	TFORM	
	FLOOR	135°	30'-8"	+90	SUMP		
	SHELL	-	AS SHOWN	-	STAIRWAY		
	E. IFIED BY OWNE OF THE TANK = 8 3/16"	ER, PRIOR FLOOR AI BOTTOM RI	IE OUTSIDE FACE TO INSTALLATION. ND AT THE OUTSI NG = 245'-4 1/ FIED BY:	DE FACE OF	THE SHELL		
		DATE		REGIST	- 1	8116 9/30/1 1VIL CALIF	
		ORIE	NTATION				5
50	)	MAT	L: -	JOB: 41413	-CF-02B	OF:	8
		I					

	ELEV	ORIENTATION		DESCRIPTION		
		DEG	DEG DIMENSION FROM		DESCRIPTION	
	2'-6"	48 <b>°</b>	32'-8 9/16"	+0	MULTI-BOLT SHELL MANWAY	
	2'-6"	228°	32'-8 9/16"	+180	MULTI-BOLT SHELL MANWAY	
	FLOOR	132.06*	28'-7 15/16"	+90	SUCTION	
	FLOOR	137.94°	32'-8 1/16"	+90	INLET	
	FLOOR	124.6	23'-6 15/16"	+90	LOW SUCTION	
	1'-0"	145.33°	37'-8 1/2"	+90	SPARE	
	63'-6"	23°	15'-8 1/16"	+0	FIRE FOAM CONNECTION	
	ROOF	167°	52'-5 11/16"	+90	INSTRUMENTATION	
	ROOF	150°	40'-10 11/16"	+90	INSTRUMENTATION	
	ROOF	-	CENTER	-	VENT	
	2'-0"	203°	15'-8 1/16"	+180	THERMOWELL CONNECTION	
	ROOF	160°	47'-8 7/16"	+90	TAPE CARRIER	
	1'-0"	0°	0"	+0	GROUNDING LUG 1	
	1'-0"	90°	0"	+90	GROUNDING LUG 2	
	1'-0"	180°	0"	+180	GROUNDING LUG 3	
	1'-0"	270°	0"	+270	GROUNDING LUG 4	
	ROOF	-	AS SHOWN	-	ROOF GUARDRAIL	
	ROOF	180°	0"	+180	ROOF HATCH	
	32'-4 1/4"	185.52*	3'-9 1/8"	+180	ROOF PLATFORM	
	FLOOR	135°	30'-8"	+90	SUMP	
	SHELL	-	AS SHOWN	-	STAIRWAY	

