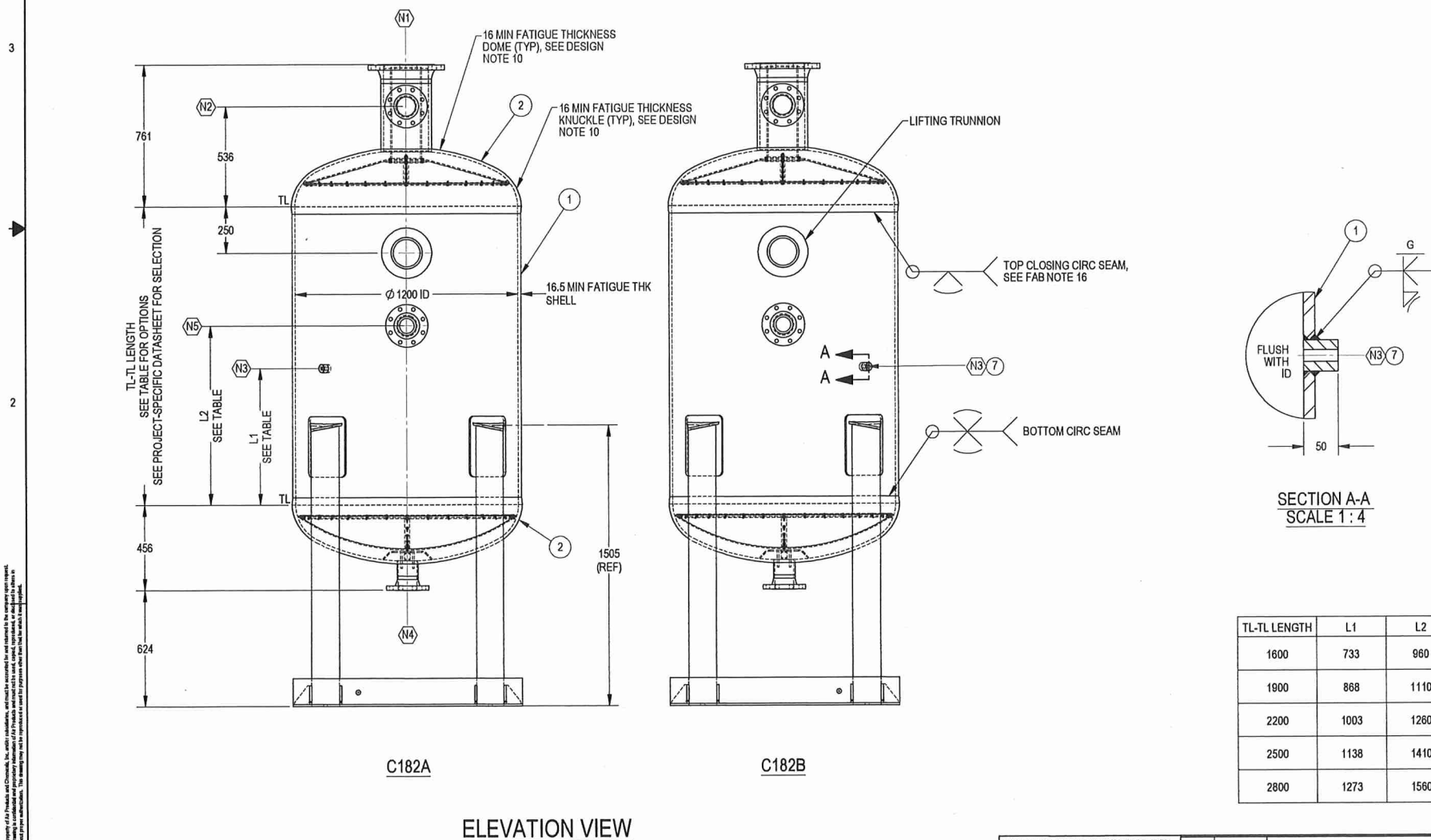
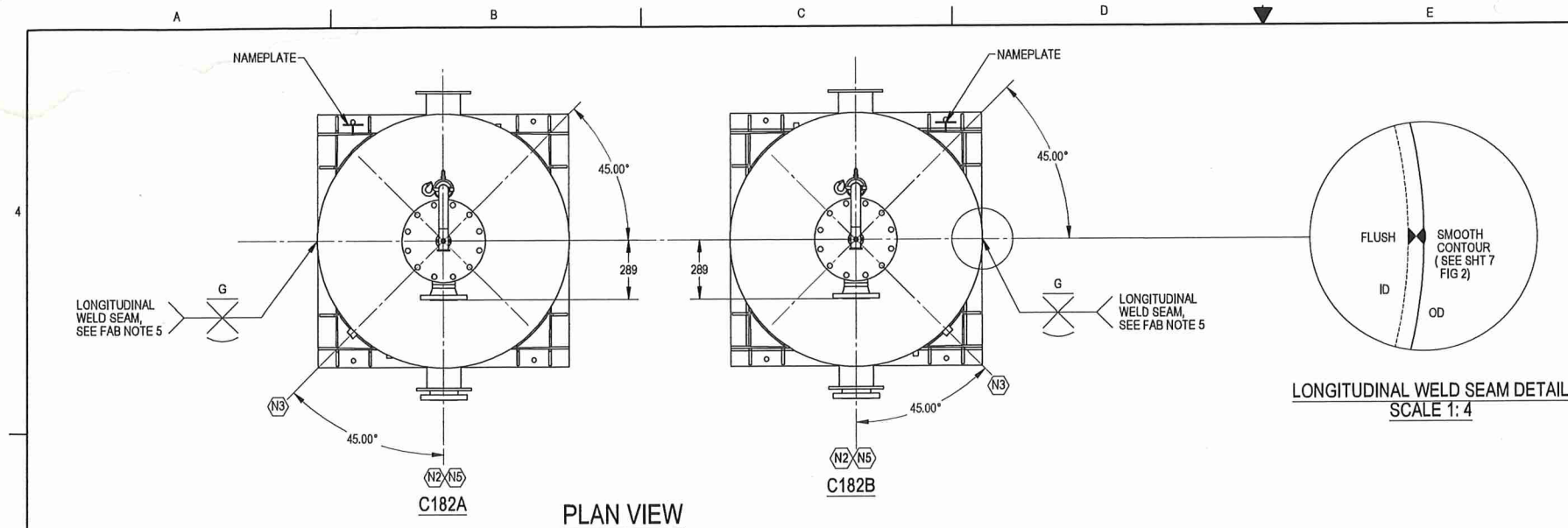


TL-TL LENGTH	L1	L2
1600	733	960
1900	868	1110
2200	1003	1260
2500	1138	1410
2800	1273	1560

F				G		H			
DESIGN DATA				CONSTRUCTION & MATERIALS					
TAG NO.		C182A/B		COMPONENT		MATERIAL			
LOCATION		SEE PROJECT-SPECIFIC DATASHEET		HEAD		SA516 Gr. 70			
SERVICE		N2 PRESSURE SWING ADSORBER (PSA)		SHELL		SA516 Gr. 70			
CONTENTS:		AIR / N2 / CARBON MOLECULAR SIEVE (CMS)		TRUNNIONS		SA106B / SA53B / SA333 GR. 6			
DESIGN CODE			ASME VIII DIV 1, Latest Edition		NOZZLE NECK		SA516 GR. 70 / SA106B / SA53B / SA333 GR. 6		
					NOZZLE FLANGE		SA105 / SA350 LF2		
DESIGN		PRESSURE	barg	10.5	FITTINGS		SA234 WPB		
		TEMPERATURE	°C	65 / -29	STUDS EXTERNAL		SA193 B7		
NORMAL OPERATING		PRESSURE	barg	0-9	NUTS		SA194 2H		
		TEMPERATURE	°C	ambient	SUPPORTS		SA36 or equivalent		
Wind Design (see Design Note 9)			ASCE 7-10		GASKETS		Flexitallic Sigma 511		
Risk Category			II		INTERNALS		AS NOTED		
Wind Exposure			D		INSULATION		N/A- Unless otherwise noted on Project Specific Datasheet		
Basic Wind Speed		m/s(mph)	67[150], 3 SECOND GUST	PAINT		4WEQ-6804, TWO-COAT PAINT SYSTEM FOR UNINSULATED CARBON STEEL (COLOR PURE WHITE (RAL9010))			
Seismic Design (see Design Note 9)			ASCE 7-10						
Seismic Importance Factor			1.0		CLEANING		CLEANING PER 4WPI-SW70002		
Seismic Short Period Spectral Response, Ss			1.5		INSPECTION BY		AIR PRODUCTS, AI		
Seismic Short Period Spectral Response, S1			0.6		CODE STAMP		YES & NATIONAL BOARD REGISTERED		
Seismic Site Class			E		Vessel Weight (see Note 2)		kg	Empty 2500 	Operating (full of CMS) 5167 
Adsorbent Weight		kg	BY VENDOR, SEE DESIGN NOTE 7						
Corrosion Allowance		Shell	mm	0	Wind Base Shear (see Note 2)		kgf	350	350
		Head	mm	0	Wind Overturning Moment (see Note 2)		kg*m	900	900
		Internals	mm	0	Seismic Base Shear (see Note 2)		kgf	600	1300
Head Type			2:1 ELLIPTICAL		Seismic Overturning Moment (see Note 2)		kg*m	1700	3600
Radiography (RT)		%	100,RT-1 (see Fab Note 12)		No. of Vessels Required:		2 UNLESS OTHERWISE SPECIFIED IN PROJECT-SPECIFIC DATASHEET		
Magnetic Particle Testing (MT)		%	see Fab Note 13 & 16d						
Dye Penetrant Testing (PT)		%	see Fab Note 14						
Ultrasonic Testing (UT)		%	see Fab Note 15						
Post-weld Heat Treat (PWHT)			TO CODE		NOTES 1. FOR APPLICABLE SPECIFICATIONS, FABRICATION AND DESIGN NOTES, FINAL DOCUMENTATION REQUIREMENTS, PED, AND OTHER REQUIREMENTS, SEE SHEETS 7 & 8 OF 8 2. VESSEL WEIGHTS AND BASE SHEARMOMENTS ARE REFERENCE ONLY AND BASED ON MINIMUM FATIGUE THICKNESSES OF VESSELS WITH TL-TL LENGTH 2800mm VESSEL VENDOR SHALL PROVIDE ACTUAL WEIGHTS AND BASE SHEARMOMENTS BASED ON FABRICATED VESSEL DESIGN.				
Hydrostatic or Pneumatic Test Pressure		barg	TO CODE						

NOZ MARK	QTY.*	NOZE SIZE (DN)	ANSI RATING	FACE	TYPE	SERVICE
N1	1	250	150	RF	WN	CMS FILL PORT
N2	1	100	150	RF	WN	NITROGEN OUTLET
N3	1	15	6000#	FNPT	COUPLING W/PLUG	INSTRUMENT CONNECTION
N4	1	100	150	RF	WN	FEED AIR INLET
N5**	1	100	150	RF	LWN	MIDBED OUTLET (OPTIONAL)

*QTY is quantity per vessel.
**Nozzle N5 is optional - project-specific datasheet will define if it is required.

CONFIDENTIAL AND PROPRIETARY DATA

NOT FOR MANUFACTURING - FOR DESIGN REFERENCE ONLY

REV	CH NO	REVISION DESCRIPTION	DATE	DEAWN BY	CHKD	APP'D
1		REVISED AS MARKED	9/10/2013	RLH	EMS	IL
0		INITIAL RELEASE	4/8/2013	RLH	EMS	EMS

TOLERANCES, UNLESS OTHERWISE SPECIFIED, SHALL BE PER 4WEQ-1055	LINEAR	HOLE SIZE	ANGLE	HOLE LOCATION	ALL DIMENSIONS IN mm
THIRD ANGLE PROJECTION					
WEIGHT					

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TITLE	USED ON
CARBON ADSORPTION TOWERS PSA-1200 HPPSA-1200	GG Mechanical Eng Design Reference REFERENCE 317664-1200 Doc NNG000 C182 0003-1200 SCALE: 1:15 SHEET 1 of 8