



TANK DESIGN DATA	
CODE	API 650 13TH ED, ANNEX M, ANNEX A
DIAMETER	25'-0"
HEIGHT	32'-0"
NOMINAL CAPACITY	2623 BBL
NET WORKING CAPACITY	2361 BBL
DESIGN SPECIFIC GRAVITY	1.03
DESIGN LIQUID LEVEL	32'-0"
INTERNAL PRESSURE	0 IN H2O
EXTERNAL PRESSURE	1 IN H2O
MAXIMUM DESIGN TEMPERATURE	375°F
DESIGN METAL TEMPERATURE	5°F
WIND CODE	ASCE 7-10 / API 650
WIND DESIGN CRITERIA	115 MPH, RC=II EXP C, I = 1, AS-BUILT
EARTHQUAKE CODE	ASCE 7-10 / API 650
EARTHQUAKE DESIGN CRITERIA	Ss = .112, S1 = .051, SITE CLASS D, I= 1.25

BOTTOM DESIGN DATA	
BOTTOM CORROSION ALLOWANCE	1/16"
BOTTOM SLOPE	1" IN 10' CONE UP

SHELL DESIGN DATA	
SHELL COURSE 1 CORROSION ALLOWANCE	1/16"
SHELL COURSE 2 CORROSION ALLOWANCE	1/16"
SHELL COURSE 3 CORROSION ALLOWANCE	1/16"
SHELL COURSE 4 CORROSION ALLOWANCE	1/16"
SHELL COURSE 5 CORROSION ALLOWANCE	1/16"

ROOF DESIGN DATA	
LIVE LOAD	20 PSF
GROUND SNOW LOAD	20 PSF
ADDITIONAL DEAD LOAD	3 PSF
PLATE CORROSION ALLOWANCE	0"
RAFTER CORROSION ALLOWANCE	0"
COLUMN CORROSION ALLOWANCE	0"

FOUNDATION LOADS	
UPLIFT FROM INTERNAL PRESSURE	0 KIP
PRODUCT WEIGHT	945 KIP
WEIGHT OF SHELL AND ROOF - UNCORRODED	27 KIP
WEIGHT OF SHELL AND ROOF - CORRODED	27 KIP
WEIGHT OF INSULATION	9 KIP
ROOF LIVE LOAD	6 KIP
ROOF SNOW LOAD	6 KIP
WIND SHEAR	12 KIP
WIND OVERTURNING MOMENT (INCLUDING UPLIFT)	338 FT-KIP
SEISMIC SHEAR	51 KIP
SEISMIC MOMENT FOR RINGWALL DESIGN	800 FT-KIP
SEISMIC MOMENT FOR SLAB DESIGN	978 FT-KIP

- NOTES
1. ROOF TO SHELL JOINT IS NOT FRANGIBLE EMERGENCY VENTING REQUIRED
 2. 1-FT METHOD USED FOR SHELL DESIGN, JOINT EFFICIENCY = 0.7

ELEVATION
1/4" = 1'-0"

NO.	REVISION DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			

ISSUED FOR APPROVAL

6945 Crabb Rd., Temperance, MI 48182

TITLE: CONE ROOF TANK DESIGN		JOB NO.:
CUSTOMER: MICHIGAN PAVING & MATERIAL CO		REVISION NO.
LOCATION: MONROE, MI	TANK NO.:	0
DRN. BY: NO	CHK. BY: BL	DIA.: 25'-0"
APVD. BY:	DATE: 09/03/21	HT.: 32'-0"
		DRAWING NO. S1