

GENERAL NOTES

1. TANK IS DESIGNED TO BE FILLED TO THE TOP OF THE STRAIGHT SHELL WITH PRODUCT (SpG=1.00) PLUS 0.361 PSIG GAS PRESSURE IN THE HEAD SPACE. THE OPERATING PRESSURE IS WITH THE TANK FILLED TO THE OVERFLOW NOZZLES WITH PRODUCT (SpG=1.00) WITH ATMOSPHERIC PRESSURE IN THE HEAD SPACE.

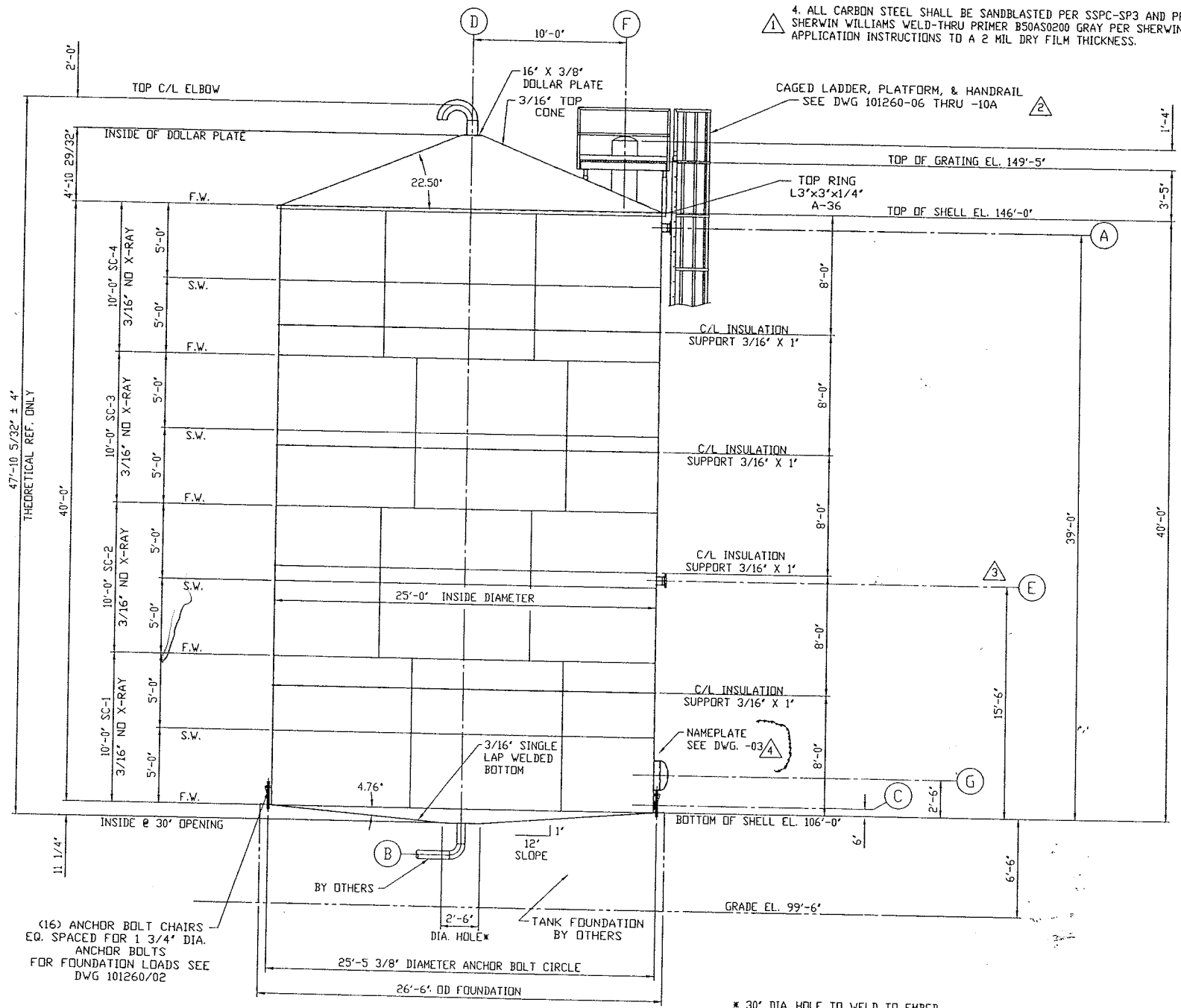
2. THE TANK HYDROTEST WILL BE WITH THE TANK FILLED TO THE TOP OF THE STRAIGHT SHELL WITH WATER AND 0.451 PSIG AIR PRESSURE APPLIED.

3. WIND LOADS, SNOW LOADS & SEISMIC DESIGN SHALL BE THE MOST STRINGENT OF API-650 OR BOCA 96 REQUIREMENTS FOR CANTON, ILLINOIS. FOR WIND, VELOCITY = 80 MPH, IMPORTANCE FACTOR = 1.0, EXPOSURE = C. SNOW LOAD $P_g = 20$ PSF, SEISMIC EFF. VELOCITY $A_v = 0.05$, SEISMIC EFF. PEAK ACCELERATION $A_a = 0.05$.
 HDMT = -20°F

4. ALL CARBON STEEL SHALL BE SANDBLASTED PER SSPC-SP3 AND PRIMED WITH SHERWIN WILLIAMS WELD-THRU PRIMER B50A50200 GRAY PER SHERWIN WILLIAMS APPLICATION INSTRUCTIONS TO A 2 MIL DRY FILM THICKNESS.

NOZZLE SCHEDULE							
MARK	QTY	SIZE	RATING LBS	FLG/CPLG TYPE	WALL THK	DESCRIPTION	REF DWG
A	1	6"	150#	L.J.S.E.	SCH 40S	OVERFLOW	05
B	1	6"	150#	L.J.S.E.	SCH 40S	OUTLET W/ EMBED PLATE (BY OTHERS)	04
C	1	3"	150#	R.F. PAD	-	LEVEL	05
D	1	8"	--	--	SCH 40S	GOOSENECK VENT W/ SCREEN	05
E	1	6"	150#	L.J.S.E.	SCH 40S	PROCESS WATER	05
F	1	20"	-	-	-	TOP MANWAY - KNAPPCD LE3310	04
G	1	24"	75#	-	-	SIDE MANWAY - 24" HP-75 ENERFAB MANWAY	04

SEE DWG 02 FOR TOLERANCE NOTES



(16) ANCHOR BOLT CHAIRS EQ. SPACED FOR 1 3/4" DIA. ANCHOR BOLTS FOR FOUNDATION LOADS SEE DWG 101260/02

GENERAL ARRANGEMENT ELEVATION VIEW
 SEE DWGS 101260-02 FOR PLAN VIEW ORIENTATION

* 30" DIA. HOLE TO WELD TO EMBED PLATE FURNISHED & INSTALLED BY OTHERS

QUALITY ASSURANCE REQUIREMENTS	
CODE: API 650	STAMP REQ'D: NO
RADIOGRAPH BUTT WELDS:	
TOP HEADS: NONE	BTM HEADS: NONE
SHELLS: NONE	
FILLET WELD EXAMINATION:	
VESSEL: NONE	
NOZZLES: NONE	
HYDROTEST: YES	PRESSURE: NOTE 2
MAT'L CERTIFICATION REQ'D: YES	
TEST PROCEDURES:	

MATERIAL SPECIFICATIONS	
HEADS: A240-304	
SHELL: A240-304	
SUPPORTS: SA36	
NOZZLE NECKS: SA312-304	
FLANGES: SA182-304	
LAP JOINT FLANGES: C.STL. SA105	
NOZZLE REINF.: SA240-304	
NUTS & BOLTS: SA193 B7 / SA194 2H	
GASKETS: NEOPRENE	
PIPE: SA312-304	

WELD PREPARATION	INTERIOR		EXTERIOR	
	AS WELDED	WIRE BRUSHED	NO	NO
GRIND SMOOTH ONLY (NOT FLUSH)	YES	YES	NO	NO
GRIND SMOOTH & FLUSH	NO	NO	NO	NO
OTHER:	NO	NO	NO	NO

DESIGN CRITERIA			
PRODUCT:			
SPECIFIC GRAVITY:	1.00		
CORROSION ALLOWANCE:	0		
VESSEL DESIGN PRESS:	NOTE 1 PSIG @ 200 °F		
VESSEL OPERATING PRESS:	NOTE 1 PSIG @ 200 °F		
JACKET/COIL DESIGN PRESS:	N/A PSIG @ °F		
JACKET/COIL TEST PRESS:	N/A PSIG @ °F		
DESIGN VACUUM:	5" OF WATER		
CAPACITY:	NET:	142,365 GALLONS	
	GROSS:	153,300 GALLONS	
WEIGHT:	EMPTY:	36,000 LBS.	
	FULL:	1,261,000 LBS.	
SEISMIC:	NOTE 3		
OTHER:	NOTE 3		
NET VOLUME IS TO INVERT OF OVERFLOW			

SURFACE PREPARATION	INTERIOR		EXTERIOR	
	SANDBLAST (CARBON STEEL)	PRIME PAINT (CARBON STEEL)	NO	NOTE 4
FINISH PAINT (CARBON STEEL)	NO	NO	NO	NO
REMOVE WELD DISCOLORATION	NO	NO	NO	NO
OTHER:				

WELD PROCEDURES					
PROCEDURE	REVISION	APPROVED	PROCEDURE	REVISION	APPROVED

REV.	DATE	BY	DESCRIPTION	CHECKED BY	APPROVED BY
1	1/11 2007	MAC	ADDED NAMEPLATE	DMP	DMP
2	12/18 2006	MAC	REVISED NOZZLE E (SIZE & LOCATION) (WAS 4" & 39'-0")	JSP	
3	10/25 2006	MAC	REVISED PLATFORM & LADDER; REVISED FOUNDATION & ELEVATIONS; UPDATED DATA	CES	CES
4	9/27 2006	MAC	REVISED PER APPROVAL DRAWINGS	CES	CES

ENERFAB, INC.
 CINCINNATI, OHIO

FOR: LURGI PSI, INC.
 CENTRAL ILLINOIS ENERGY
 CANTON, IL

DRAWING TITLE: ASSEMBLY ELEVATION
 (1) 25'-0" COOK WATER TANK
 TAG NO. TF-2101

CONTRACT NO. 101260
 DRAWING NO. 101260/01

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 CIE: ETHANOL
 Canton, Illinois
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FIELD FILE