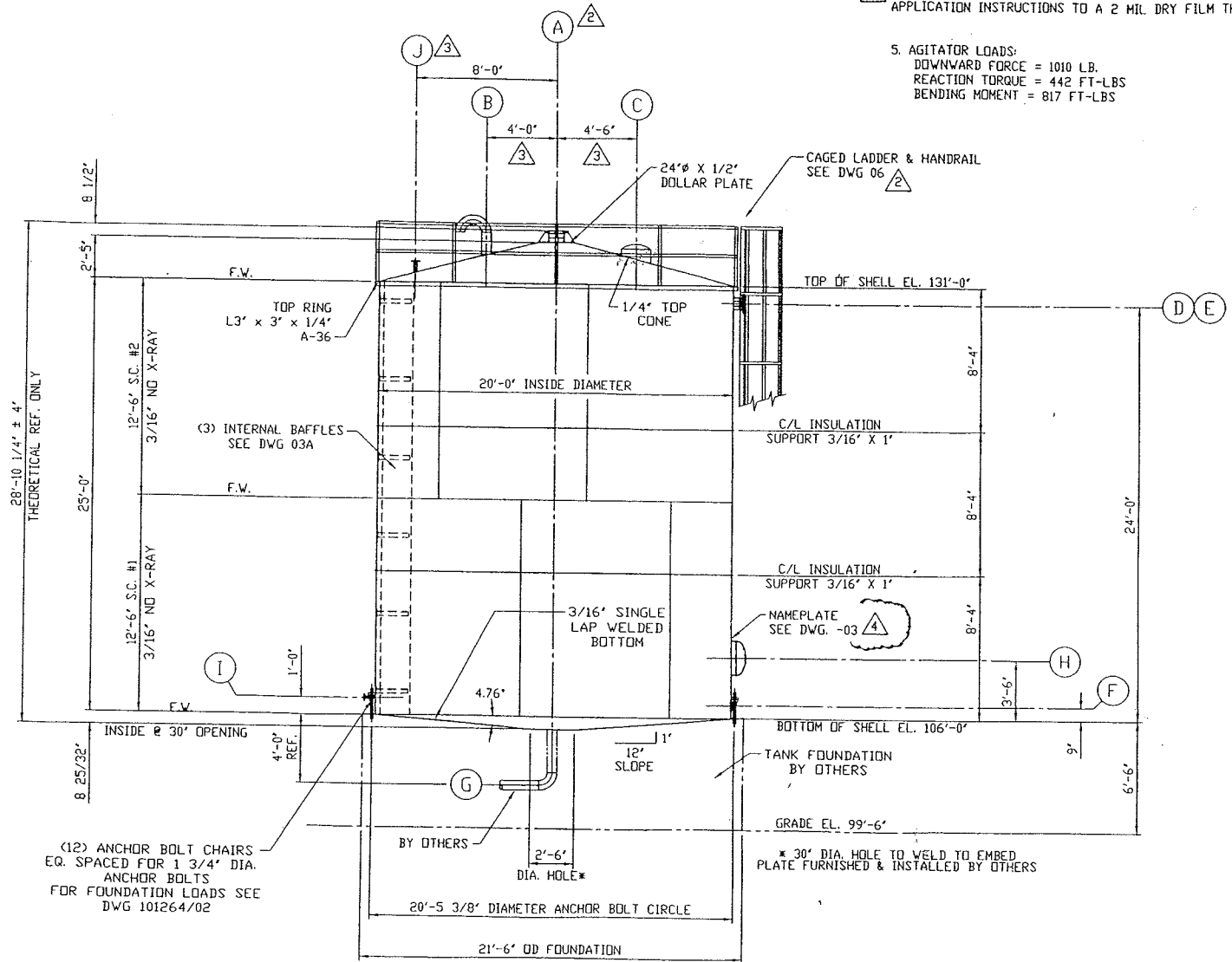


- GENERAL NOTES**
- TANK IS DESIGNED TO BE FILLED TO THE TOP OF THE STRAIGHT SHELL WITH PRODUCT (SpG=1.20) PLUS 0.361 PSIG GAS PRESSURE IN THE HEAD SPACE. THE OPERATING PRESSURE IS WITH THE TANK FILLED TO THE OVERFLOW NOZZLES WITH PRODUCT (SpG=1.20) WITH ATMOSPHERIC PRESSURE IN THE HEAD SPACE.
 - THE TANK HYDROTEST WILL BE WITH THE TANK FILLED TO THE TOP OF THE STRAIGHT SHELL WITH WATER AND 0.451 PSIG AIR PRESSURE APPLIED.
 - 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 $A_a = 0.05$, MDMT = -20°F
 - ALL CARBON STEEL SHALL BE SANDBLASTED PER SSPC-SP3 AND PRIMED WITH SHERWIN WILLIAMS WELD-THRU PRIMER B50AS0200 GRAY PER SHERWIN WILLIAMS APPLICATION INSTRUCTIONS TO A 2 MIL DRY FILM THICKNESS.

- AGITATOR LOADS:
DOWNWARD FORCE = 1010 LB.
REACTION TORQUE = 442 FT-LBS
BENDING MOMENT = 817 FT-LBS

NOZZLE SCHEDULE							
MARK	QTY	SIZE	RATING LBS	FLG/CPLG TYPE	WALL THK	DESCRIPTION	REF DWG
A	1	10"	150#	L.J.S.E.	SCH 40S	AGITATOR	05
B	1	6"	--	--	SCH 40S	GOOSENECK VENT W/ SCREEN	05
C	1	20"	--	--	--	TOP MANWAY - KNAPPCO LE3310	04
D	1	6"	150#	L.J.S.E.	SCH 40S	OVERFLOW	05
E	1	3"	150#	L.J.S.E.	SCH 80S	INLET	05
F	1	3"	150#	R.F. PAD	--	LEVEL	05
G	1	6"	150#	L.J.S.E.	SCH 40S	OUTLET W/ EMBED PLATE (BY OTHERS)	04
H	1	24"	75#	--	--	SIDE MANWAY - 24" HP-75 ENERFAB MANWAY	04
I	1	1 1/2"	150#	L.J.S.E.	SCH 80S	TEMPERATURE TRANSMITTER	04
J	1	2"	150#	L.J.S.E.	SCH 40S	DRYER EXHAUST CONDENSATE	04

SEE DWG 02 FOR TOLERANCE NOTES



GENERAL ARRANGEMENT ELEVATION VIEW
SEE DWGS 101264-02 FOR PLAN VIEW ORIENTATION

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

DESIGN CRITERIA	
PRODUCT:	
SPECIFIC GRAVITY:	1.20
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 @
JACKET/COIL TEST PRESS:	N/A PSIG @ °F
DESIGN VACUUM:	5' OF WATER
CAPACITY:	
NET:	57,905 GALLONS
GROSS:	61,500 GALLONS
EMPTY:	25,000 LBS.
WEIGHT:	
FULL:	610,000 LBS.
SEISMIC:	NOTE 3
OTHER:	NOTE 3
NET VOLUME IS TO INVERT OF OVERFLOW	

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	NO	NO
VIRE BRUSHED	YES	YES
GRIND SMOOTH ONLY (NOT FLUSH)	NO	NO
GRIND SMOOTH & FLUSH	NO	NO
OTHER:	NO	NO

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

WELD PROCEDURES					
PROCEDURE	REVISION	APPROVED	PROCEDURE	REVISION	APPROVED

4	1/11 2007	MAC	ADDED NAMEPLATE	DHP	DMP
3	11/30 2006	MAC	ADDED NOZZLE 'J' & TOP HEAD NOZZLE DIMENSIONS	Mt	Mt
2	10/27 2006	MAC	ADDED LADDER & HANDRAIL REVISED NOZZLE A	CES	CES
1	9/28 2006	MAC	REVISE PER APPROVAL DRAWINGS	CES	CES
REV.	DATE	BY	DESCRIPTION	CHECKED BY	APPROVED BY

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ENERFAB, INC.
CINCINNATI, OHIO

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

DRAWING TITLE: **ASSEMBLY ELEVATION
(1) 20'-0" SYRUP TANK
TAG NO. TF-5301**

CONTRACT NO. 101264 DRAWING NO. 101264/01

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Canton, Illinois
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