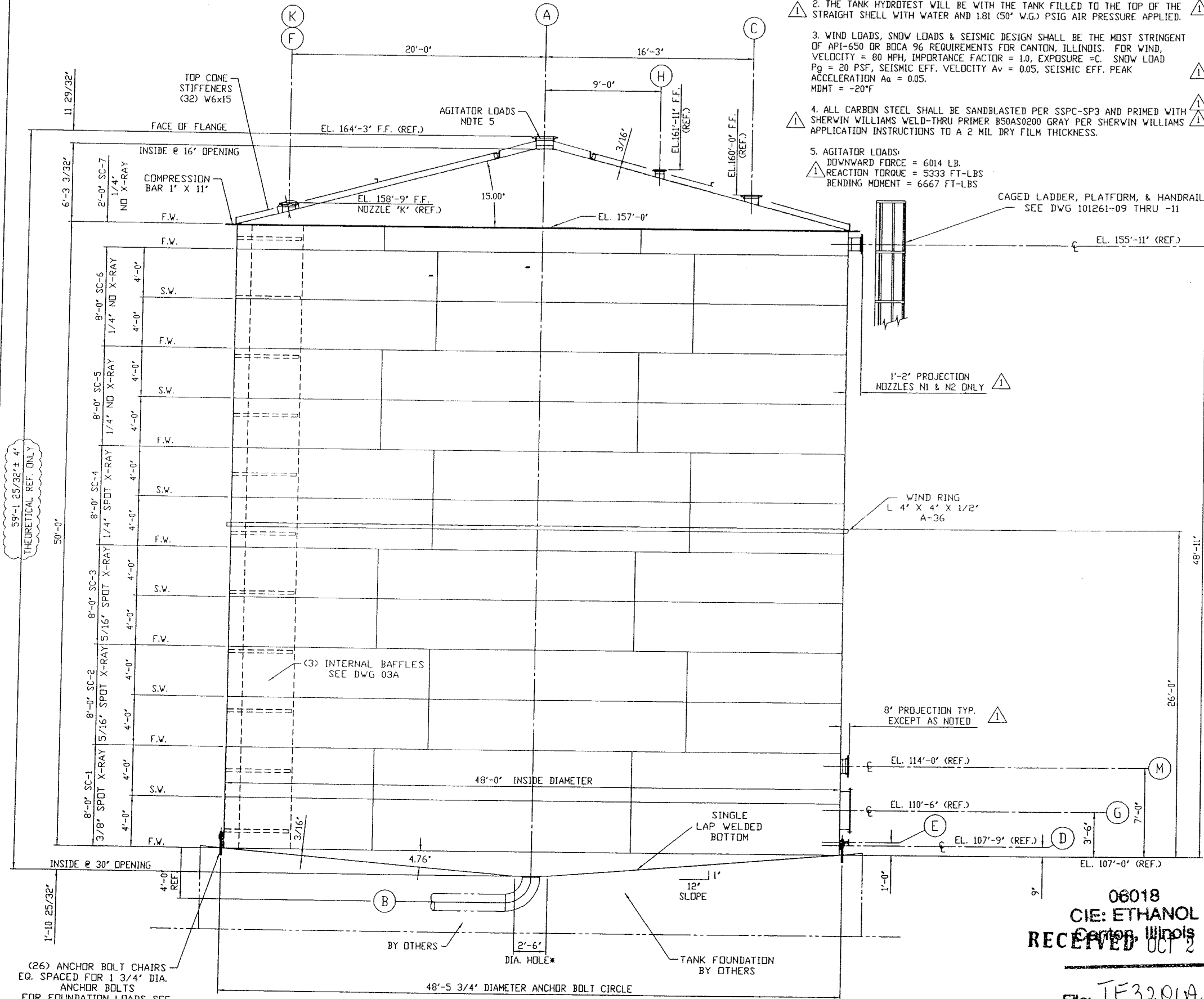


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- GENERAL NOTES**
- TANK IS DESIGNED TO BE FILLED TO THE TOP OF THE STRAIGHT SHELL WITH PRODUCT (SpG=1.09) PLUS 1.45 PSIG (40" W.G.) GAS PRESSURE IN THE HEAD SPACE. THE OPERATING PRESSURE IS WITH THE TANK FILLED TO THE OVERFLOW NOZZLES WITH PRODUCT (SpG=1.09) PLUS 0.72 PSIG GAS PRESSURE ON THE HEAD SPACE.
 - THE TANK HYDROTEST WILL BE WITH THE TANK FILLED TO THE TOP OF THE STRAIGHT SHELL WITH WATER AND 1.81 (50" W.G.) 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 = 6014 LB.
REACTION TORQUE = 5333 FT-LBS
BENDING MOMENT = 6667 FT-LBS

NOZZLE SCHEDULE							REF DWG
MARK	QTY	SIZE	RATING LBS	FLG/CPLG TYPE	WALL THK	DESCRIPTION	
A	1	16"	150#	L.J.S.E.	SCH 40S	AGITATOR	04
B	1	16"	-	-	-	DISCHARGE W/ EMBED PLATE (BY OTHERS)	06
C	1	14"	150#	L.J.S.E.	SCH 40S	VENT	07
D	1	3"	150#	RF. PAD	-	LEVEL	07
E	1	1 1/2"	150#	L.J.S.E.	SCH 80S	TEMP	07
F	1	20"	-	-	-	TOP MANWAY - KNAPPCD KS4220	06
G	1	36"	75#	-	-	SIDE MANWAY - TUBETURN CLASS 75	06
H	3	8"	150#	L.J.S.E.	SCH 40S	CIP NOZZLE	07
K	1	12"	150#	L.J.S.E.	SCH 40S	CONSERVATION VENT	07
M	1	14"	150#	L.J.S.E.	SCH 40S	INLET/RECIRCULATION	07
N	2	12"	150#	L.J.S.E.	SCH 40S	OVERFLOW	07

SEE DWG 02A FOR TOLERANCE NOTES

QUALITY ASSURANCE REQUIREMENTS	
CODE: API 650	STAMP REQ'D: NO
RADIOGRAPH BUTT WELDS:	
TOP HEADS: NONE	BTH HEADS: NONE
SHELLS: SPOT PER API A-5.3	
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:	1.09
CORROSION ALLOWANCE:	0
VESSEL DESIGN PRESS:	NOTE 1 @ 200" F
VESSEL OPERATING PRESS:	NOTE 1 @ 90" F
JACKET/COIL DESIGN PRESS:	N/A
JACKET/COIL TEST PRESS:	N/A
DESIGN VACUUM:	6" OF WATER
CAPACITY:	
NET:	664,425 GALLONS
GROSS:	714,899 GALLONS
EMPTY:	148,000 LBS
FULL:	6,328,000 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. A181
NOZZLE REINF.:	SA240-304
NUTS & BOLTS:	SA193 B7 / SA194 2H
GASKETS:	NEDPRENE
PIPE:	SA312-304

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

SURFACE PREPARATION	INTERIOR EXTERIOR	
	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

REV.	DATE	BY	DESCRIPTION	CHECKED BY	APPROVED BY
△					
△	9/28/2006	MAC	REVISED PER APPROVAL DRAWINGS		
△	8/23/2006	J.PLEAS	FIRST ISSUE		

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ENERFAB, INC.
CINCINNATI, OHIO

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

DRAWING TITLE: ASSEMBLY ELEVATION
(3) 48'-0" FERMENTERS
TAG NO.'S TF-3201A, TF-3201B, TF-3201C

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DRAWING NO. 101261/01

GENERAL ARRANGEMENT ELEVATION VIEW
SEE DWGS 101261-02A, B & C FOR PLAN VIEW ORIENTATION

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