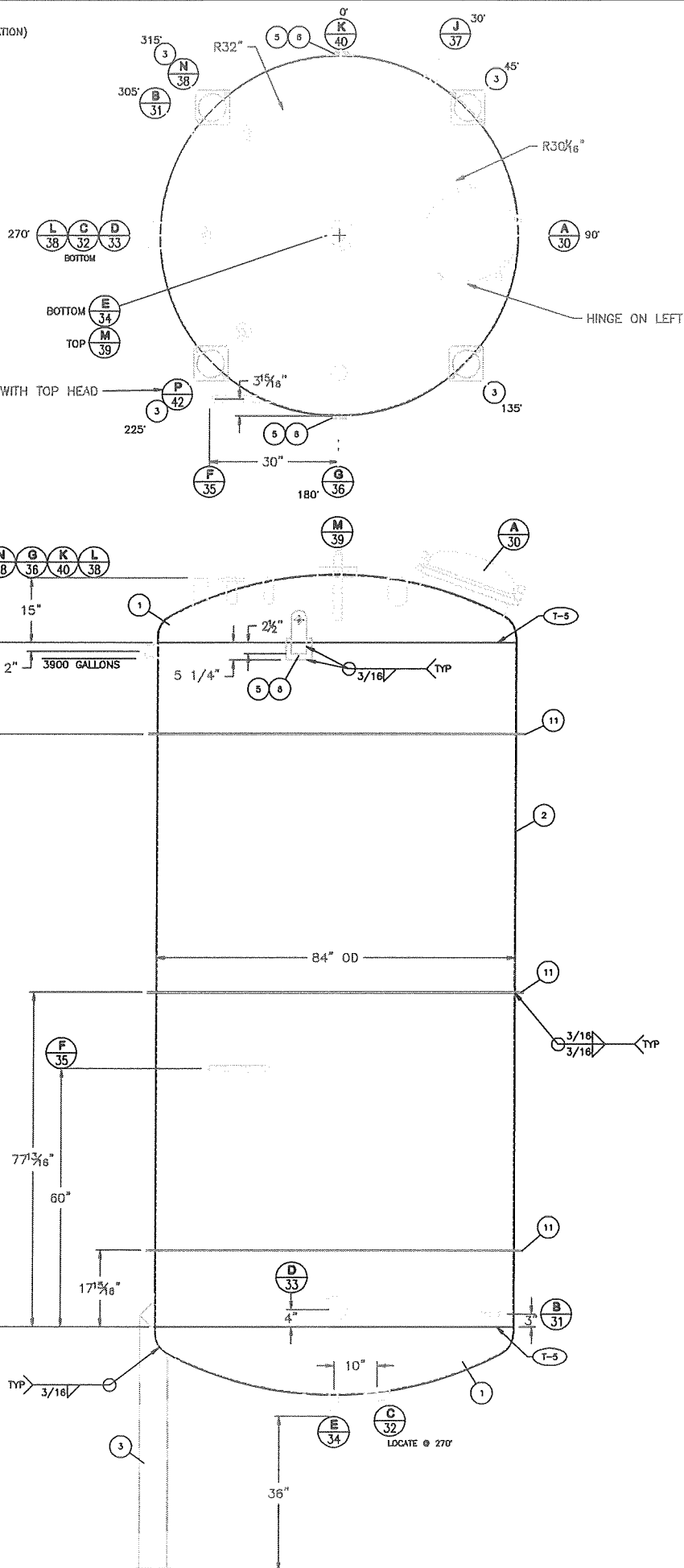
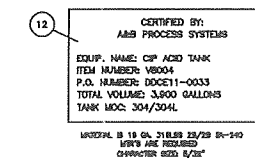
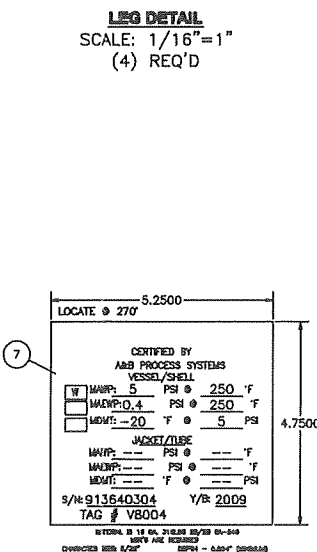
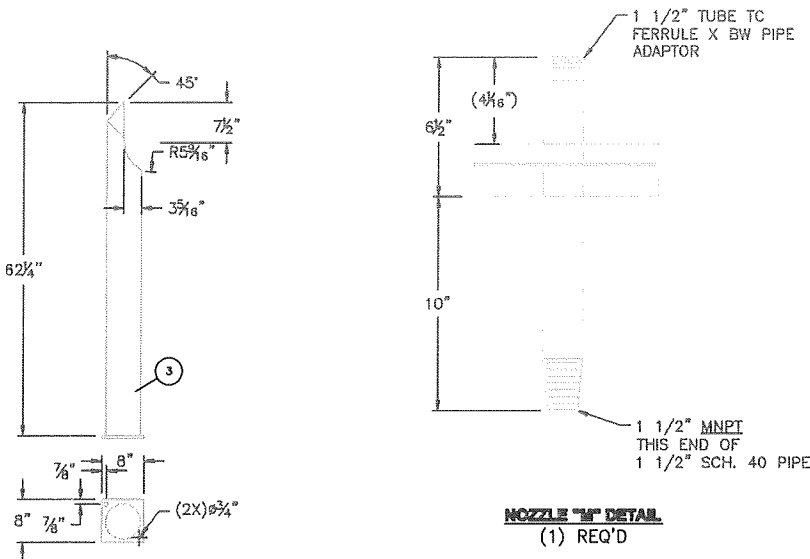


(SHOWS TRUE ORIENTATION)



NOZZLE SCHEDULE													
MARK	SIZE	CONNECTION TYPE	SERVICE	PROJECT ±1/4		DETAIL NO.	WELD SIZE						
				IN	OUT		T1	T2	T3	T4	T5	T6	T7
A	20"	BN	MAINWAY	--	1BNL	N-3	3/16	3/8	--	--	--	--	--
B	1 1/2"	FNPT	THERMOWELL	13 1/2	3	N-4	3/16	3/16	--	--	--	--	--
C	4"	DWV SPUD	LEVEL TRANSMITTER	--	--	N-1	1/8	1/8	--	--	--	--	--
D	8"	BN 0.109	OUTLET	--	5"	N-1	1/8	1/8	--	--	--	--	--
E	2"	BN 0.085	OUTLET	--	5"	N-1	1/8	1/8	--	--	--	--	--
F	1 1/2"	TC FERRULE	REGROCKING	--	SEE DWG	N-1	1/8	1/8	--	--	--	--	--
G	4"	BN 0.083	CP RETURN	--	SEE DWG	N-1	1/8	1/8	--	--	--	--	--
J	3"	BN 0.085	OVERFLOW/VENT	--	5"	N-1	1/8	1/8	--	--	--	--	--
K	2"	BN SCH 10	PROCESS WATER INLET	--	SEE DWG	N-1	3/16	3/16	--	--	--	--	--
L	1"	150# FLANGED	CP CHEMICAL DOSING	--	SEE DWG	N-1 / P-7	1/8	1/8	--	--	--	--	--
M	4"	150# PAD FLG	CP	--	1 1/2"	N-1	1/8	1/8	--	--	--	--	--
N	2"	150# FLANGED	SPARE	--	SEE DWG	N-1 / P-7	1/8	1/8	--	--	--	--	--
P	1"	150# PAD FLANGE	TOP LEVEL	--	--	N-1	1/8	1/8	--	--	--	--	--

STANDARD— NOZZLE PROJECTIONS GIVEN IN SCHEDULE ARE FOR SHORT SIDE LENGTHS MEASURED FROM ID OF VESSEL.
NOZZLE PROJECTION MEASUREMENTS ARE TAKEN FROM THE INSIDE
NOZZLE LENGTHS ON DISHED HEADS OR SIDEWALLS NOT TO EXCEED $1\frac{1}{2}$ PIPE DIAMETERS FROM LONG
SIDE UNLESS NOTED OTHERWISE IN NOZZLE SCHEDULE



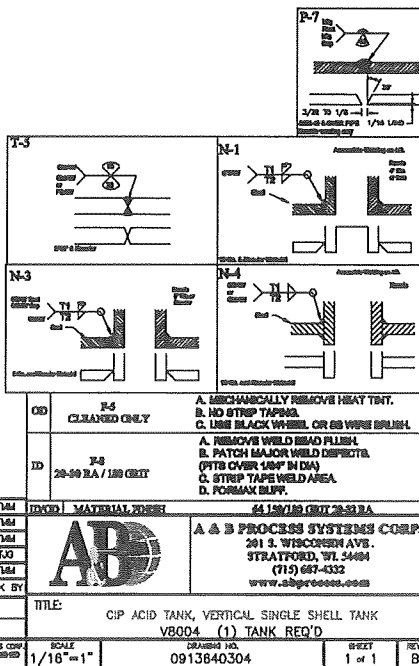
DESIGN DATA		
DESIGN AND DESIGNER: ASME DESIGN BY DESIGN FORM TO CODE NOT SHAPED ED. MAY 01 03		
	BULL.	
DESIGN PRESSURE, PSI	1/-0.4	-
DESIGN TEMPERATURE °F	SS	-
HORIZONTAL PRESSURE, PSI		-
WIND, PSI		-
SEISMIC	SEISMIC	-
COMPRESSION ALLOWANCE, IN	-0.0	-
RESIDUAL STRESS/TEMP	NONE	-
JOINT EFFICIENCY E	.70	-
WIND PRESSURE, LB/IN. FT		-
SEISMIC COEFFICIENT	-	-
DRIFT PULLEY HEIGHT	-	-
TEMPERATURE MEDIA	E	-
DESIGNER: DESIGNED BY: LBS	E LBS	-
DESIGNER: ALL OF WEIGHT, LBS	E LBS	-
DO NOT SIGN OFF UNTIL DESIGNER IS SIGNED		

NOTES:

- 1) UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES.
- 2) DIMENSIONS ENCLOSED WITHIN PARENTHESES INDICATE REFERENCE.
- 3) EQUIVALENT ALTERNATIVE MATERIAL MAY BE USED AFTER A/JA APPROVAL.
- 4) ALL WELDS TO BE CONTINUOUS WELDED PER MANUFACTURER STD UNLESS OTHERWISE NOTED.
- 5) SURF. SHALL BE NEAT IN APPEARANCE, FREE OF SLAG, UNDESIRABLE AND OTHER DEFECTS.
- 6) VESSEL TO BE THOROUGHLY CLEANED AND DRIED WHERE ACCESSIBLE BEFORE SHIPPING.
- 7) PROTECT ALL MACHINED SURFACES, AND ALL CONNECTIONS WITH WOOD OR PLASTIC PROTECTORS BEFORE SHIPMENT.
- 8) LEFT BLANK
- 9) LEFT BLANK
- 10) REINFORCING PADS AND PAD SECTIONS SHALL HAVE 1/8" WEEP HOLE LOCATED AS LOW AS POSSIBLE IN THE PAD WHEN THE VESSEL IS IN OPERATING POSITION.
- 11) LEFT BLANK
- 12) LEFT BLANK
- 13) FLANGE BOLT HOLES SHALL STRADDLE MAJOR VESSEL CENTERLINE UNLESS NOTED.
- 14) IF IN CONTACT WITH MATERIALS CONTAINING SALT, CHLORIDES OR OTHER CORROSIVE MATERIALS, THE CORROSION RESISTANCE OF THIS EQUIPMENT IS NOT THE RESPONSIBILITY OF AAS PROCESS SYSTEMS CORP.
- 15) FABRICATION RECD. $\rightarrow$ NO
- 16) RESOLUTION TESTING RECD. $\rightarrow$ YES
- 17) CRITICAL WELDING RECD. $\rightarrow$ YES
- 18) PIPE WELD MAPPING RECD. $\rightarrow$ NO
- 19) (1) TANKS REQUIRED AS SHOWN
- 20) QUALIFIED WELDERS
- 21) NITRO REQUIRED (USE CODE MATERIALS)
- 22) HYDROTEST TO 8 PSI

B	14SEP09	AS BUILT		TJO	TJM
A	17JUL09	RELEASED FOR FAB		TJC	TJM
2	06JUL08	RESUBMITTED FOR APPROVAL		TJC	TJM
1	27JUN09	RESUBMITTED FOR APPROVAL		TJM	TJO
0	15MAY09	SUBMITTED FOR APPROVAL		TJC	TJM
NO.	DATE	REVISION DESCRIPTION		OWN BY	CHK BY
CLIENT NAME: GENERAL ENERGY, LLC				DRAWN BY: TJO	
CLIENT LOCATION: VONHORE, TN 37885				JOB NUMBER: 091384	

BILL OF MATERIAL			
DESCRIPTION	MAT'L SPEC	DWG/REF	NOTES
Ø HED 3/4" QR 5.25" R 1.5" SF	SA-240-304L	-	
1/2" TAIL	SA-240-304L	0813840304-2	
2" THK X 8" SQ. FOOT PAD	SA-312-304L	-	PLASMA
5"	SA-240-304L	-	PLASMA
2" X 10"	SA-240-304L	-	PLASMA
1" X 8"	SA-240-304L	-	
	SA-240-316L	-	
	VINYL	-	
(PLACE ON HANDBY)	VINYL	-	
(PLACE ON HANDBY)	VINYL	-	
OE (88" OD)	SA-240-304L	-	PLASMA
	SA-240-316L	-	
RY W/ VITON GASKET	SA-240-304L	TC3-01	
135 W38 D10 D R07	SA-479-316L	-	
SEAMOUNT SPUD	SA-479-316L	-	
	SA-240-304L	-	
	SA-240-304L	-	
	SA-479-304L	-	
	SA-240-304L	-	
	SA-240-304L	-	
	SA-240-304L	-	
	SA-240-304L	-	
	SA-182-304L	-	
	SA-312-304L	-	
	SA-182-304L	-	
	SA-182-304L	-	
1/2" SCH 40 PIPE	SA-479-304L	-	
WAPT ONE END	SA-312-304L	-	
	-	-	
	SA-312-304L	-	
	SA-182-304L	-	
	SA-312-304L	-	
	SA-182-304L	-	



PLANT: DUPONT DANISCO CELLULOSIC ETHANOL, LLC
PROJECT: MARATHON
DDCE ORDER NO.: DDCE11-0033
EQUIPMENT NUMBER: 6001-V03 (V8004)

WORKING TOLERANCES (UNLESS NOTED OTHERWISE)	FABRICATION TOLERANCES (UNLESS NOTED OTHERWISE)
$XXX = \pm .005$ $XX = \pm .010$ $X = \pm .020$ $X \text{ OR FRACT.} = \pm .030$	$X \text{ OR FRACT.} = \pm 1/4$ $\text{HOLE DIAMETERS} = \pm 1/8$ $\text{HOLD DIM'S} = \pm 1/8"$ $X \text{ DEGREE} = \pm 1 \text{ DEGREE}$ $\text{TOLERANCES DO NOT APPLY TO LISTED REF. DIM'S}$

TITLE:			
CIP ACID TANK, VERTICAL SINGLE SHELL TANK			
V8004 (1) TANK REQ'D			
SCALE	DRAWING NO.	SHEET	REV.
1/16" = 1"	0913840304	1 of 1	8