

TANK DATA					
D E S I G N	TAG NUMBER:	TK-5103	L2348		
	DESCRIPTION:	THIN STILLAGE TANK	REV. D		
	P&ID NUMBER:	61310-PI-5102			
	FABRICATION TYPE:	FIELD FABRICATED, VERTICAL			
	NAT'L BOARD STAMP:	N/A			
	CODE:	API 650			
	CODE STAMP:	NO			
	EARTHQUAKE FACTOR:	PER DELTA-T SPEC 61310-SITECOND-001			
	BASIC WIND SPEED:	PER DELTA-T SPEC 61310-SITECOND-001			
	OPERATING PRESSURE:	PSIG	0.5		
	OPERATING TEMPERATURE:	°F	170		
	DESIGN PRESSURE:	"H2O VAC / PSIG	3.5" / 0.25		
	DESIGN TEMPERATURE: (MIN/MAX)	°F	-5 / 300		
	VOLUME, NOMINAL	GAL	120,609		
	VOLUME, TOTAL	GAL	134,010		
	FLUID SPECIFIC GRAVITY:	1.01			
EMPTY WEIGHT:	LB.	39,043			
FLOODED WEIGHT:	LB.	1,167,639			
M A T E R I A L	BOTTOM:	A240 TP 304			
	SHELL:	A240 TP 304			
	ROOF:	A240 TP 304			
	INTERNAL STEEL:	A240 TP 304			
	EXTERNAL STEEL:	A 36 CS			
	INTERNAL PIPING:	A240 TP 304			
	NOZZLES: (FLANGES)	A182 TP 304			
	(NECKS)	A312 TP 304			
	MANHOLE NOZZLE:	A312 TP 304			
	MANHOLE COVER:	A182 TP 304			
	COUPLINGS:	A312 TP 304			
	BOLTS NUTS:	A193 GR. B7 / A194 GR. 2H			
	GASKETS:	ANSI B16.5 GASKET, GARLOCK 3000, PTFE OR EQUAL, OR EPDM			
	ELECTRODES:	ER308L / E308L			
CORROSION ALLOWANCE:	NONE				
M I S C	STRESS RELIEF:	N/A			
	GRINDING:	N/A			
	SURFACE PREP. INT.:	N/A			
	SURFACE PREP. EXT.:	N/A			
	PAINT INTERIOR:	N/A			
	PAINT EXTERIOR:	N/A			
	INSULATION:	3" FIBERGLASS OR MINERAL WOOL BY OTHERS			
	CLEANING:	N/A			
D A T A					
T E S T I N G	HYDROSTATIC TESTING:	YES			
	RADIOGRAPHY	NONE			
NOZZLE SCHEDULE					
MK	SIZE	SERVICE	RATING	TYPE	QTY
A	24"	MANWAY	API 650 STD.	S.O.R.F. FLG. W/COVER, HINGE	1
B	20"	HATCH	API 650 STD.	S.O.R.F. FLG. W/COVER, HINGE	1
C	6"	STILLAGE INLET	CLASS 150	S.O.R.F. FLG.	1
D	6"	STILLAGE OUTLET	CLASS 150	S.O.R.F. FLG.	1
E	4"	VENT	CLASS 150	S.O.R.F. FLG.	1
F	3"	LEVEL TRANSMITTER	CLASS 150	S.O.R.F. FLG.	2
G	2"	LEVEL SWITCH	CLASS 150	S.O.R.F. FLG.	1
H	3/4"	TI	3000#	HALF CLPG, NPTF	1
J	3/4"	TE	3000#	HALF CLPG, NPTF	1
L	3"	PSV	CLASS 150	S.O.R.F. FLG.	1
M	12"	AGITATOR	CLASS 150	S.O.R.F. FLG.	1
N	3"	SYRUP INLET	CLASS 150	S.O.R.F. FLG.	1
R	24"x56"	Top Entry	API 650	Bolted Plate	1

1

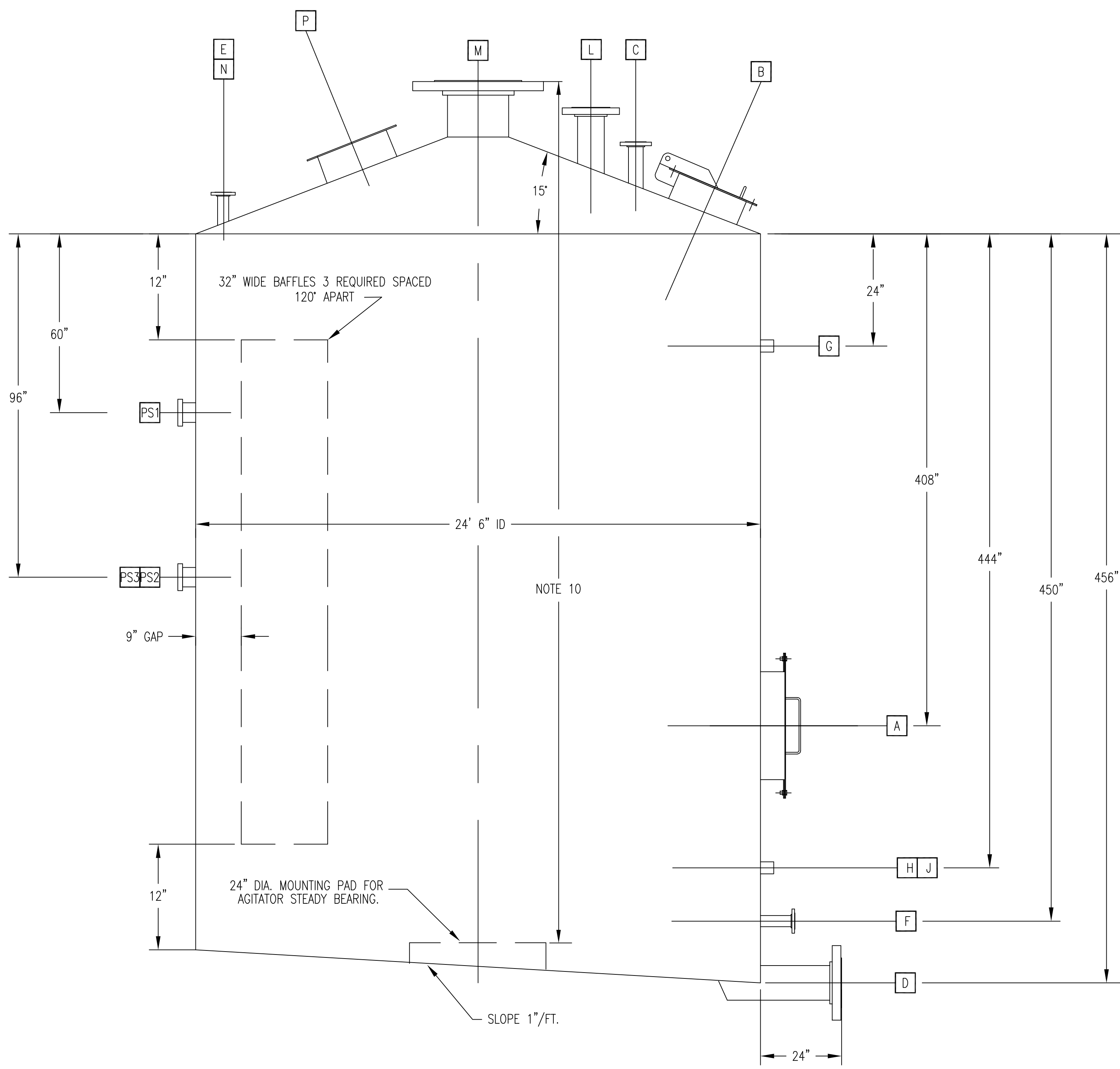
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ELEVATION

NOTES:  
 1. 360° HANDRAIL REQUIRED ON TANK ROOF WITH LADDER TO GRADE.  
 2. TANK FOUNDATION IS 2'-6" ABOVE GRADE.

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	P&ID NUMBER:	61310-PI-5102
	FABRICATION TYPE:	FIELD FABRICATED, VERTICAL
	NAT'L BOARD STAMP:	N/A
	CODE:	API 650
	CODE STAMP:	NO
	EARTHQUAKE FACTOR:	PER DELTA-T SPEC 61310-SITECOND-001
	BASIC WIND SPEED:	PER DELTA-T SPEC 61310-SITECOND-001
	OPERATING PRESSURE:	PSIG 0.5
	OPERATING TEMPERATURE:	°F 170
	DESIGN PRESSURE:	"H2O VAC/PSIG 3.5" / 0.25
DESIGN TEMPERATURE: (MIN/MAX)	°F -5 / 300	
VOLUME, NOMINAL	GAL 120,609	
VOLUME, TOTAL	GAL 134,010	
FLUID SPECIFIC GRAVITY:	1.01	
EMPTY WEIGHT:	LB. N/A	
FLOODED WEIGHT:	LB. N/A	
M A T E R I A L	BOTTOM:	A240 TP 304
	SHELL:	A240 TP 304
	ROOF:	A240 TP 304
	INTERNAL STEEL:	A240 TP 304
	EXTERNAL STEEL:	A 36 CS
	INTERNAL PIPING:	A240 TP 304
	NOZZLES: (FLANGES)	A182 TP 304
	(NECKS)	A312 TP 304
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	MANHOLE COVER:	A182 TP 304
	COUPLINGS:	A312 TP 304
	BOLTS NUTS:	A193 GR. B7 / A194 GR. 2H
GASKETS:	ANSI B16.5 GASKET, GARLOCK 3000, PTFE OR EQUAL, OR EPDM	
ELECTRODES:	ER308L / E308L	
CORROSION ALLOWANCE:	NONE	
M I S C	STRESS RELIEF:	N/A
	GRINDING:	N/A
	SURFACE PREP. INT.:	N/A
	SURFACE PREP. EXT.:	N/A
	PAINT INTERIOR:	N/A
	PAINT EXTERIOR:	N/A
	INSULATION:	3" FIBERGLASS OR MINERAL WOOL BY OTHERS
	CLEANING:	N/A
T E S T I N G	HYDROSTATIC TESTING:	YES
	RADIOGRAPHY	NONE

NOZZLE SCHEDULE

MK	SIZE	SERVICE	RATING	TYPE	QTY
A	24"	MANWAY	API 650 STD.	S.O.R.F. FLG. W/COVER, HINGE	1
B	20"	HATCH	API 650 STD.	S.O.R.F. FLG. W/COVER, HINGE	1
C	6"	STILLAGE INLET	CLASS 150	S.O.R.F. FLG.	1
D	6"	STILLAGE OUTLET	CLASS 150	S.O.R.F. FLG.	1
E	4"	VENT	CLASS 150	S.O.R.F. FLG.	1
F	3"	LEVEL TRANSMITTER	CLASS 150	S.O.R.F. FLG.	2
G	2"	LEVEL SWITCH	CLASS 150	S.O.R.F. FLG.	1
H	3/4"	TI	3000#	HALF CPLG, NPTF	1
J	3/4"	TE	3000#	HALF CPLG, NPTF	1
L	3"	PSV	CLASS 150	S.O.R.F. FLG.	1
M	12"	AGITATOR	CLASS 150	S.O.R.F. FLG.	1
N	3"	SYRUP INLET	CLASS 150	S.O.R.F. FLG.	1
P	24"x56"	TOP ENTRY	API 650	BOLTED PLATE	1

- NOTES:
- ALL MATERIAL TO BE NEW, FREE OF PITS, SCALE OR ANY OTHER FOREIGN MATERIAL.
  - REMOVE ALL BURRS AND BREAK ALL SHARP EDGES 0.01" MAX ON WELDMENTS.
  - ALL WELDS TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASE MATERIAL.
  - ALL WELDS TO BE CONTINUOUS AND AIRTIGHT UNLESS NOTED.
  - WELD ALL SEAMS BOTH SIDES UNLESS NOTED.
  - NOZZLE PROJECTION SHALL BE 6" UNLESS OTHERWISE NOTED.
  - FINAL NOZZLE ELEVATIONS AND ORIENTATIONS TO BE FIXED AT VENDOR DRAWING SUBMITTAL AND PIPING LAYOUT.
  - ALL DIMENSIONS IN FEET & INCHES UNLESS NOTED OTHERWISE
  - NOT FOR FABRICATION.
  - CONTROL DIMENSION FOR AGITATOR SHOWN ON SHOP FABRICATION DWGS.
  - NOZZLE "N" TO PROVIDE AGITATOR SUPPORT. NOZZLE "N" AND BAFFLES ON HOLD PENDING AGITATOR VENDOR SELECTION.

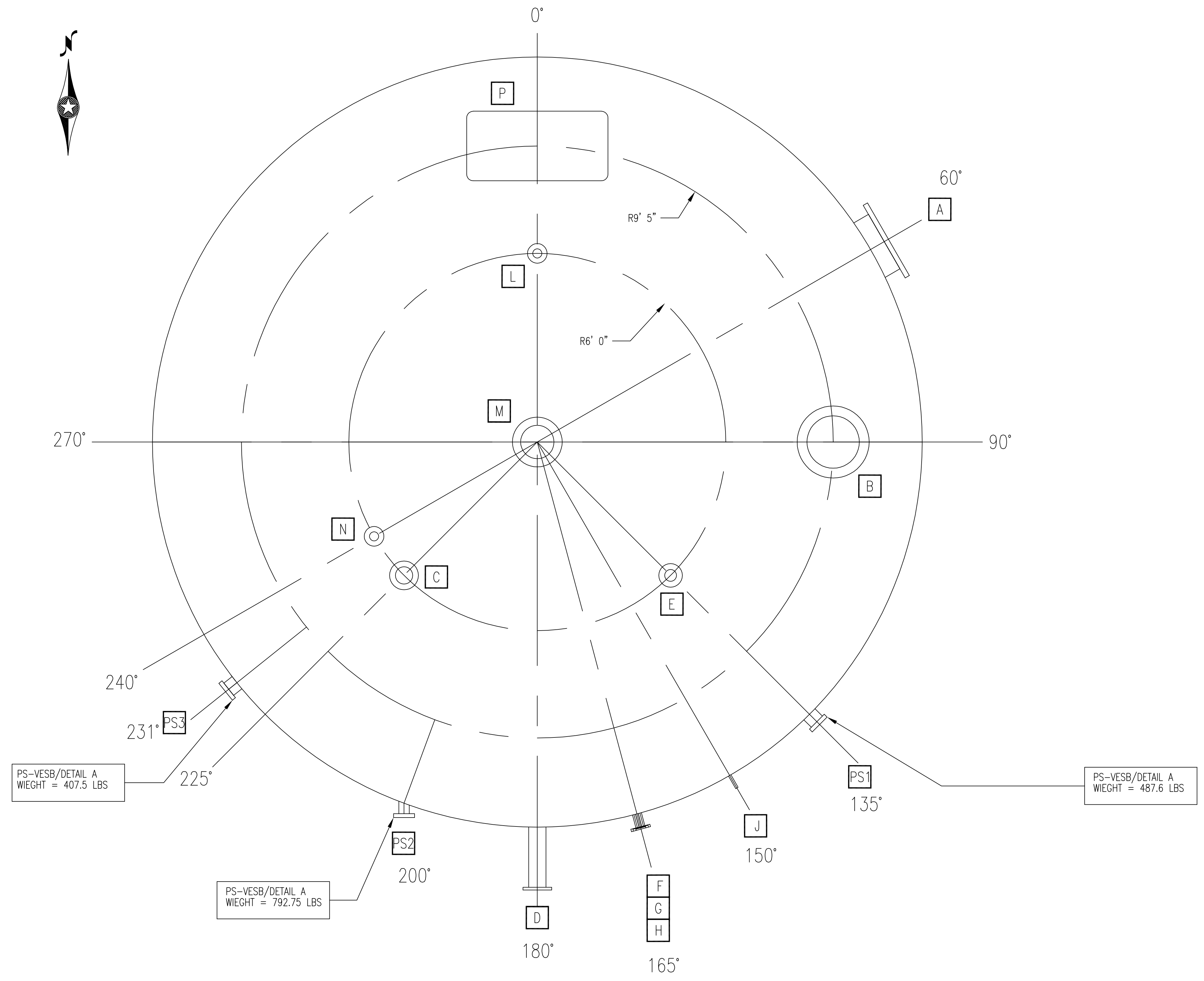
REVISIONS

REV	DATE	DESCRIPTION	BY	CKD	APP
0	19SEP05	ISSUE FOR DESIGN	CE	DP	AS
1	29NOV05	CHANGED PER QUOTED	NS	AC	AQS
2	23AUG06	ASBUILT	NT		
C	24JAN07	ISSUE FOR DESIGN REV	BD		
D	22FEB07	UPDATED DIMS/DESIGN	JT		

www.deltatcorp.com  
 Voice (757)220-2955 ▲ Fax (757)229-1705  
 Drawn By: CE Date: 19SEP05

CONFIDENTIAL

Dwg No. 61310-Q-TK5103-1  
 Title TK-5103 THIN STILLAGE TANK  
 Client Information BUNGE-ERGON VICKSBURG  
 Location VICKSBURG, MS



ORIENTATION PLAN

CONFIDENTIAL

REVISIONS					
REV	DATE	DESCRIPTION	BY	CKD	APP
0	19SEP05	ISSUE FOR DESIGN	CE	DP	AS
1	29NOV05	CHANGED PER QUOTED	NS	AC	AQS
2	23AUG06	ASBUILT	NT		
C	24JAN07	ISSUE FOR DESIGN BEV	BD		
D	22FEB07	UPDATED DIMS/DESIGN	JT		



Voice (757)220-2955 ▲ Fax (757)229-1705  
Drawn By: CE Date: 19SEP05

Dwg No. 61310-Q-TK5103-2
Title TK-5103 THIN STILLAGE TANK NOZZLE ORIENTATION
Client Information BUNGE-ERGON VICKSBURG
Location VICKSBURG, MS