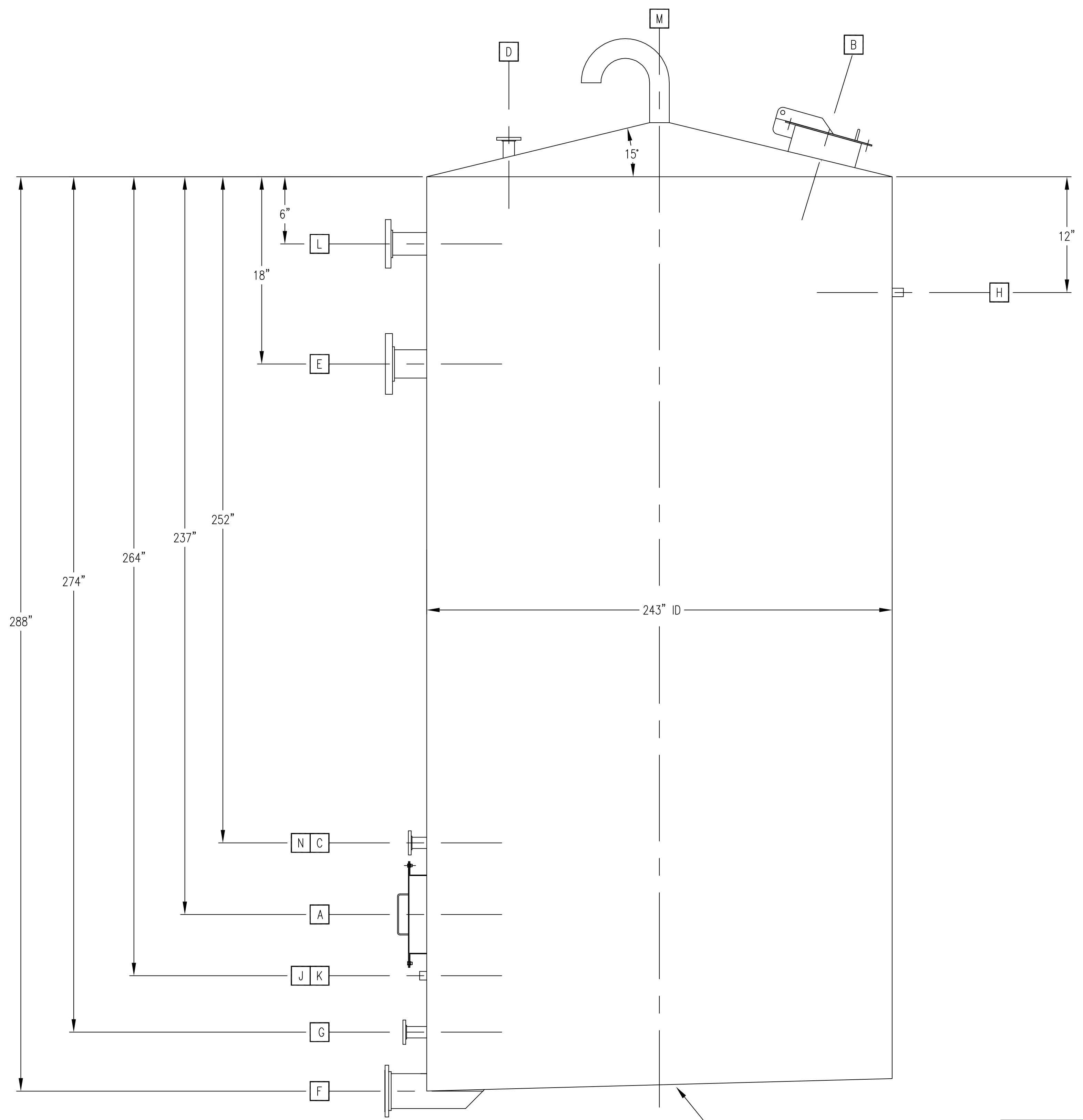


TANK DATA						
DESIGN	TAG NUMBER:		TK-7602	L2348		
	DESCRIPTION:		DILUTE CAUSTIC TANK	REV. D		
	P&ID NUMBER:		61310-PI-7601			
	FABRICATION TYPE:		FIELD FABRICATED, VERTICAL			
	NAT'L BOARD STAMP:		N/A			
	CODE:		API 650			
	CODE STAMP:		NO			
	EARTHQUAKE FACTOR:		PER DELTA-T SPEC 61310-SITECOND-001			
	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	46,256		
	VOLUME, TOTAL		GAL	57,820		
	FLUID SPECIFIC GRAVITY:		1.03			
	EMPTY WEIGHT:		LB.	24,303		
FLOODED WEIGHT:		LB.	518,198			
MATERIAL	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:		N/A				
MISCELLANEOUS	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			
TESTING	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	2"	20% CAUSTIC INLET	CLASS 150	S.O.R.F. FLG	1	
D	3"	H2O INLET	CLASS 150	S.O.R.F. FLG	1	
E	12"	CIP RETURN	CLASS 150	S.O.R.F. FLG	1	
F	14"	CIP OUTLET	CLASS 150	S.O.R.F. FLG	1	
G	3"	LEVEL TRANSMITTER	CLASS 150	S.O.R.F. FLG	1	
H	2"	LEVEL SWITCH	CLASS 150	S.O.R.F. FLG	1	
J	3/4"	TE	3000#	HALF CPLG., NPTF	1	
K	3/4"	TI	3000#	HALF CPLG., NPTF	1	
L	6"	OVERFLOW	CLASS 150	S.O.R.F. FLG	1	
M	6"	VENT	CLASS 150	180° PIPE ASSEMBLY	1	
N	8"	RECIRC INLET	CLASS 150	S.O.R.F. FLG	1	

A B C D E F G H I

1
2
3
4
5
6



SLOPE=1"/FT.

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

ELEVATION

TANK DATA

D E S I G N	TAG NUMBER:	TK-7602
	DESCRIPTION:	DILUTE CAUSTIC TANK
	P&ID NUMBER:	61310-PI-7601
	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 46,256
	VOLUME, TOTAL	GAL 57,820
FLUID SPECIFIC GRAVITY:	1.03	
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
	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:	N/A
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
D A T A	CLEANING:	N/A
	HYDROSTATIC TESTING:	YES
T E S T I N G	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	2"	20% CAUSTIC INLET	CLASS 150	S.O.R.F. FLG	1
D	3"	H2O INLET	CLASS 150	S.O.R.F. FLG	1
E	12"	CIP RETURN	CLASS 150	S.O.R.F. FLG	1
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G	3"	LEVEL TRANSMITTER	CLASS 150	S.O.R.F. FLG	1
H	2"	LEVEL SWITCH	CLASS 150	S.O.R.F. FLG	1
J	3/4"	TE	3000#	HALF CPLG., NPTF	1
K	3/4"	TI	3000#	HALF CPLG., NPTF	1
L	6"	OVERFLOW	CLASS 150	S.O.R.F. FLG	1
M	6"	VENT	CLASS 150	180° PIPE ASSEMBLY	1
N	8"	RECIRC INLET	CLASS 150	S.O.R.F. FLG	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 INCHES UNLESS NOTED OTHERWISE
- NOT FOR FABRICATION.

CONFIDENTIAL

REVISIONS					
REV	DATE	DESCRIPTION	BY	CKD	APP
0	19SEPT05	ISSUE FOR DESIGN	CE	DP	AS
B	26DEC06	UPDATE DIMENSIONS	BD		
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: 19SEPT05

Dwg No.	61310-Q-TK7602-1
Title	TK-7602 DILUTE CAUSTIC TANK
Client Information	BUNGE-ERGON VICKSBURG
Location	VICKSBURG, MS

