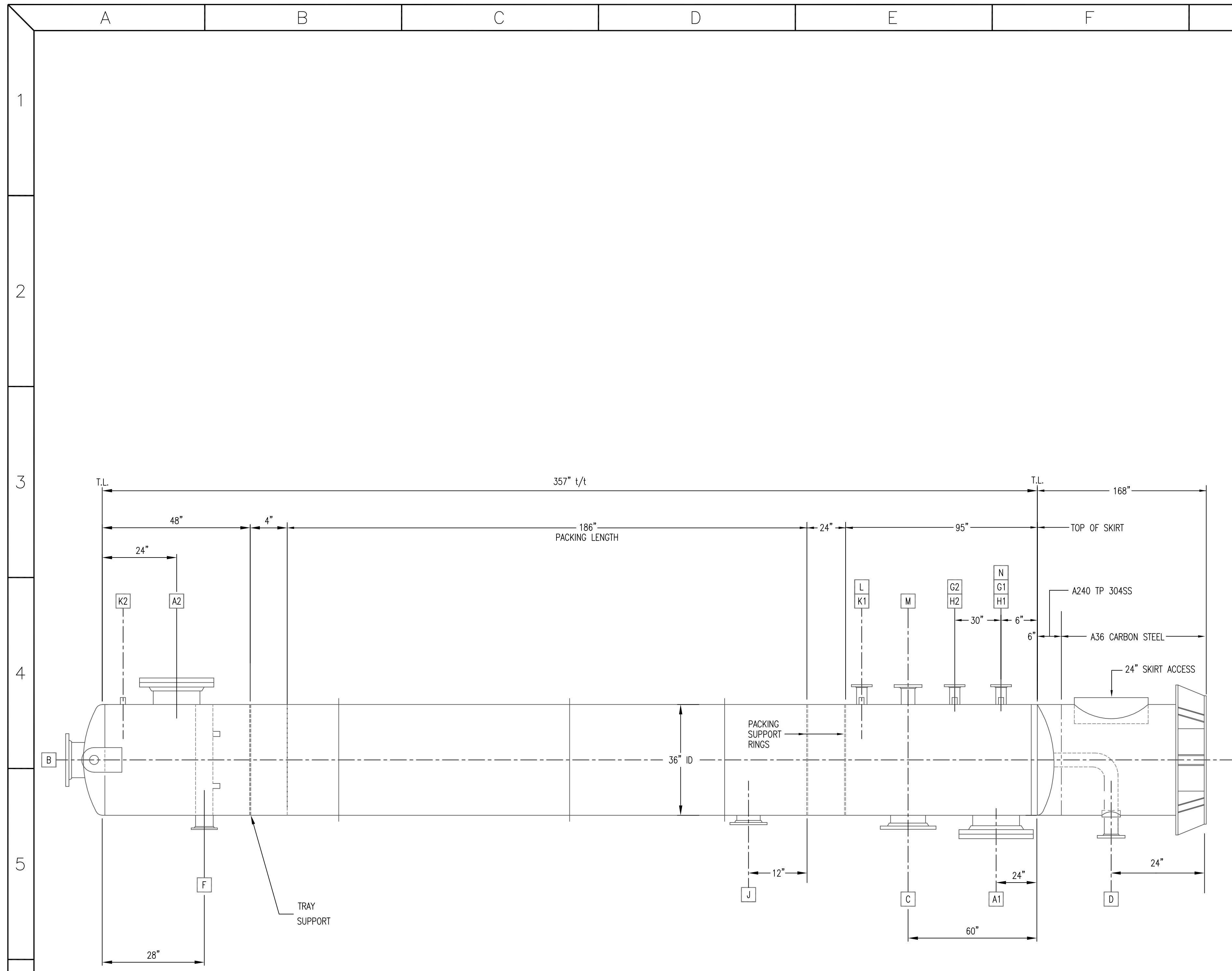


**PRESSURE VESSEL DATA**

<b>D E S I G N</b>	TAG NUMBER:	C-4401	L2348
	DESCRIPTION:	ACID REDUCTION COLUMN	Rev A
	P&ID NUMBER:	61310-PI-4401	
	FABRICATION TYPE:	SHOP FABRICATED, VERTICAL	
	NATL BOARD STAMP:	YES	
	CODE:	ASME SECTION VIII DIV. 1	
	CODE STAMP:	YES	
	SEISMIC	PER DELTA-T SPEC 61310-SITECOND-001	
	BASIC WIND SPEED:	PER DELTA-T SPEC 61310-SITECOND-001	
	OPERATING PRESSURE:	PSIG -9	
	OPERATING TEMPERATURE:	°F 140	
	DESIGN PRESSURE:	PSIG FV / 50	
	DESIGN TEMPERATURE:	°F -5 / 250	
	VOLUME, NOMINAL:	GAL. 225	
	VOLUME TOTAL:	GAL. 1,573	
FLUID SPECIFIC GRAVITY:	0.75		
EMPTY WEIGHT:	LB. 2,198		
FLOODED WEIGHT:	LB. 15,310		
<b>M A T E R I A L</b>	BOTTOM:	A240 TP 304	
	SHELL:	A240 TP 304	
	ROOF:	A240 TP 304	
	INTERNAL STEEL:	A240 TP 304	
	EXTERNAL STEEL:	SA 36	
	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 EP	
	ELECTRODES:	ER308L / E308L	
	CORROSION ALLOWANCE:	N/A	
<b>M I S C</b>	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
<b>D A T A</b>	CLEANING:	N/A	
<b>T E S T I N G</b>	HYDROSTATIC TESTING:	YES	
	RADIOGRAPHY	NONE	

**NOZZLE SCHEDULE**

MK	SIZE	SERVICE	RATING	TYPE	QTY
A1, A2	24"	MANWAY	CLASS 150	S.O.R.F. FLG w/BLIND, DAVIT	2
B	18"	VAPOR OUTLET	CLASS 150	S.O.R.F. FLG	1
C	8"	VAPOR INLET	CLASS 150	S.O.R.F. FLG	1
D	4"	LIQUID OUTLET	CLASS 150	S.O.R.F. FLG	1
E	3/4"	TI	3000#	HALF CPLG, NPTF	1
F	6"	LIQUID INLET	CLASS 150	S.O.R.F. FLG	1
G1, G2	3"	LEVEL TRANSMITTER	CLASS 150	S.O.R.F. FLG	2
H1, H2	3/4"	LEVEL GAUGE	3000#	HALF CPLG, NPTF	2
J	12"	PACKING DUMP	CLASS 150	S.O.R.F. FLG w/BLIND	1
K1, K2	1/2"	PT, PI	3000#	HALF CPLG, NPTF	2
L	3"	SPARE	CLASS 150	S.O.R.F. FLG w/BLIND	1
M	3"	PSV	CLASS 150	S.O.R.F. FLG	1



ELEVATION

2 PLATFORMS REQUIRED  
 1-360" X 42" WIDE AT LOWER T.L.  
 1-360" X 42" WIDE AT TOP OF PACKING  
 WITH LADDERS FROM GRADE  
 AND FROM PLATFORM TO PLATFORM

PRESSURE VESSEL DATA

DESIGN	TAG NUMBER:	C-4401
	DESCRIPTION:	ACID REDUCTION COLUMN
	P&ID NUMBER:	61310-PI-4401
	FABRICATION TYPE:	SHOP FABRICATED, VERTICAL
	NAT'L BOARD STAMP:	YES
	CODE:	ASME SECTION VIII DIV. 1
	CODE STAMP:	YES
	SEISMIC:	PER DELTA-T SPEC 61310-SITECOND-001
	BASIC WIND SPEED:	PER DELTA-T SPEC 61310-SITECOND-001
	OPERATING PRESSURE:	PSIG-9
MATERIAL	OPERATING TEMPERATURE:	°F 140
	DESIGN PRESSURE:	PSIG FV / 50
	DESIGN TEMPERATURE:	°F -5 / 250
	VOLUME, NOMINAL:	GAL. 225
	VOLUME TOTAL:	GAL. 1,573
	FLUID SPECIFIC GRAVITY:	0.75
	EMPTY WEIGHT:	LB. N/A
	FLOODED WEIGHT:	LB. N/A
	BOTTOM:	A240 TP 304
	SHELL:	A240 TP 304
ROOF:	A240 TP 304	
DETAIL	INTERNAL STEEL:	A240 TP 304
	EXTERNAL STEEL:	SA 36
	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
MISC DATA	ELECTRODES:	ER308L / E308L
	CORROSION ALLOWANCE:	N/A
	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
A1, A2	24"	MANWAY	CLASS 150	S.O.R.F. FLG w/BLIND, DAVIT	2
B	18"	VAPOR OUTLET	CLASS 150	S.O.R.F. FLG	1
C	8"	VAPOR INLET	CLASS 150	S.O.R.F. FLG	1
D	4"	LIQUID OUTLET	CLASS 150	S.O.R.F. FLG	1
E	3/4"	TI	3000#	HALF CPLG. NPTF	1
F	6"	LIQUID INLET	CLASS 150	S.O.R.F. FLG	1
G1, G2	3"	LEVEL TRANSMITTER	CLASS 150	S.O.R.F. FLG	2
H1, H2	3/4"	LEVEL GAUGE	3000#	HALF CPLG. NPTF	2
J	12"	PACKING DUMP	CLASS 150	S.O.R.F. FLG w/BLIND	1
K1, K2	1/2"	PT, PI	3000#	HALF CPLG. NPTF	2
L	3"	SPARE	CLASS 150	S.O.R.F. FLG w/BLIND	1
M	3"	PSV	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 .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.
- DESIGN TO BE IN ACCORDANCE WITH DATA SHEET C-4202 AND TECHNICAL SPECIFICATION 169-S-VS-001.
- NOZZLE PROJECTION SHALL BE 6" UNLESS OTHERWISE NOTED.
- NOZZLE ELEVATIONS AND ORIENTATIONS WILL BE SET UPON INITIAL VENDOR DRAWING SUBMITTAL.
- NOT FOR FABRICATION.
- INTERNAL SUPPORT RINGS PROVIDED & INSTALLED BY VESSEL MANUFACTURER. FOR ESTIMATING PURPOSES ASSUME 1 1/2" WIDE x 1/4" THK. (QTY: 3)

CONFIDENTIAL

REVISIONS				
REV	DATE	DESCRIPTION	BY	CHKD APP
D	03OCT05	ISSUED FOR DESIGN	GDB	CE AS

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 Voice (757)220-2955 Fax (757)229-1705  
 Drawn By: GDB Date: 29SEP05

Dwg No.	61310-Q-C4401
Title	C4401 ACID REDUCTION COLUMN
Client Information	BUNGE-ERGON VICKSBURG
Location	VICKSBURG, MS

Oct 21, 2005 - 15:01:23 DWG Name: G:\51683 MIDWEST GRAN PROCESSING\2D Drawings\Working\Q-Equipment Detail\169-Q-C4401.dwg Updated By: gbyrant