PERMIT ATTACHMENT

APPENDIX VIII

SPENT CARBON CONTAINER SPECIFICATIONS

This document was not altered from the April 2016 Application.

September 2018

APPENDIX VIII

SPENT CARBON CONTAINER SPECIFICATIONS

FOR

SIEMENS INDUSTRY, INC.

PARKER REACTIVATION FACILITY

PARKER, ARIZONA

Revision 2
April 2012

TABLE OF CONTENTS

Table of Container Volumes

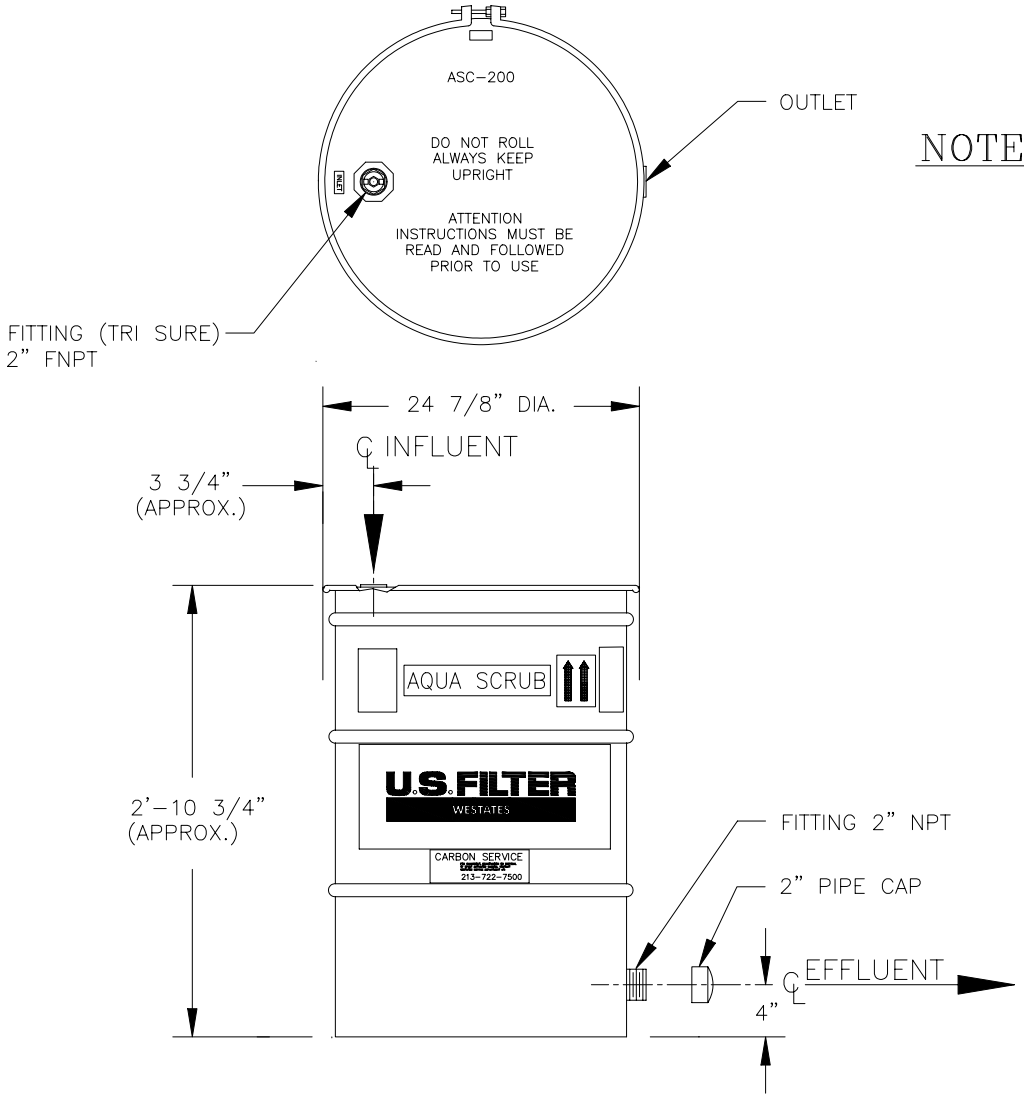
DRAWING NO.	DESCRIPTION
ASC200GENASSY	ASC 200 General Assembly
ASC1000SHEET1	ASC1000 General Assembly
ASC2000SHEET1	ASC2000 General Assembly
PV1000SHEET1	PV1000 General Assembly
PV2000SHEET1	PV2000 General Assembly
RB20 OS A SIZE	RB20 General Assembly
RB10 OSGENASSY	RB10 OS General Assembly
RB12HVGENASSY	RB12HV General Assembly
RB20 8X11	RB20 General Assembly
2220	1800 Cu. Ft Aluminum Pneumatic Semi
VSC200GENASSY	VSC200 General Assembly
VSC400	VSC400 General Assembly
VSC1000SHEET1	VSC1000 General Assembly
VSC2000SHEET1	VSC2000 General Assembly
VSC2000GENASSY	Vapor Scrub Assembly VSC 2000
VSC3000GENASSY	VSC3000 General Assembly

Table of Container Volumes

Container Type	Volume (ft^3)	Volume (US Gallons)
VSC/ASC 200/Drums	7.9	59
VSC/ASC 400	17.5	131
VSC/ASC 1000	44.9	336
VSC/ASC 2000	82.0	614
VSC 3000	164	1228
PV1000	44.9	336
PV2000	82.0	614
“Supersack”	Up to 67	Up to 500

This table represents information for the major types of containers managed at the facility. Other containers of various volume and configuration are also received, however, these miscellaneous containers fall within the range of volumes shown.

STD: 2-0600-8X11A | INTL REF:



NOTES:

1. CARBON:
   AS REQUIRED.
2. MATERIALS OF CONSTRUCTION:
   VESSEL: .....CARBON STEEL
   EXTERNAL COATING: .....HIGH GLOSS PAINT, WESTATES BLUE
   INTERNAL COATING: .....CURED EPOXY
   INTERNAL DISTRIBUTION: .....PVC
3. SPECIFICATIONS:
   FLOW * – GPM (MAX): 10
   PRESSURE – PSIG (MAX): 15
   TEMPERATURE – DEG F (MAX): 140
   CARBON FILL VOLUME – CU FT: 6.9
   CROSS SECTION – SQ FT: 2.8
   SHIPPING WEIGHT – LBS: (APPROX,) 250
   OPERATING WEIGHT – LBS: (APPROX,) 500

* NOTE: ACTUAL DESIGN SHOULD BE BASED ON SUPERFICIAL BED VELOCITY (SBV) AS REQUIRED FOR SPECIFIC CONTAMINANTS.

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DESIGNER	DATE
AJA	2-13-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

TITLE: ASC 200 GENERAL ASSEMBLY

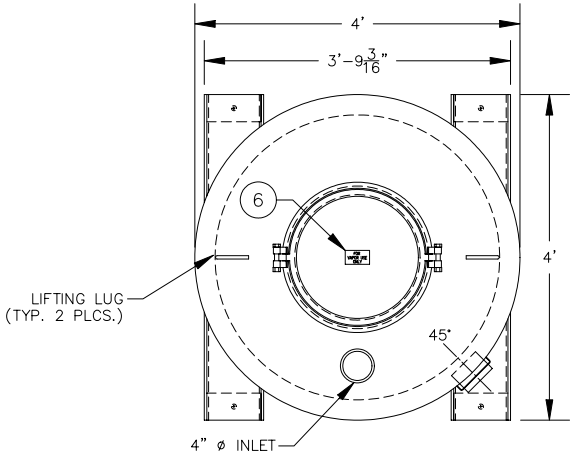
CLIENT

USFilter

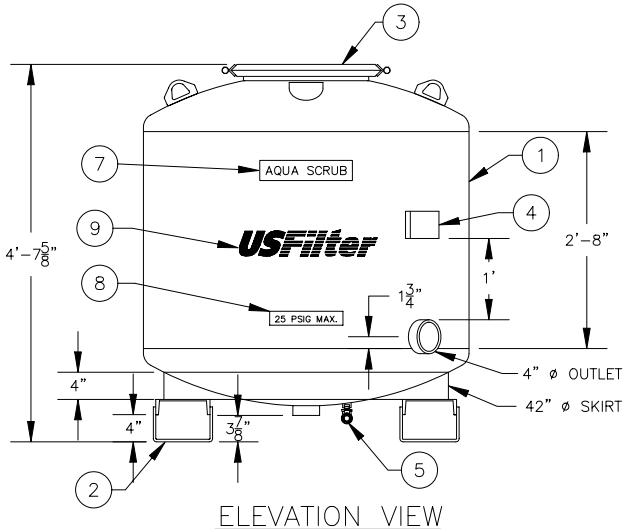
USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	ASC200GENASSY	OF	

STD: 2-0600-8X11A | INTL REF:



PLAN VIEW



ELEVATION VIEW

LIST OF COMPONENTS

ITEM	QTY	DESCRIPTION
1	1	TANK ASSEMBLY
2	1	SKID ASSEMBLY
3	1	MANWAY ASSEMBLY, 18" DIA.
4	1	PLATE, I.D. & SERIAL NUMBER
5	1	BRONZE BALL VALVE, 3/4"
6	1	DECAL, "FOR WATER USE ONLY", 2 1/2" x 4 1/4"
7	2	DECAL, "AQUA-SCRUB", WHITE MYLAR
8	2	DECAL, "25 PSIG MAX", WHITE MYLAR
9	2	DECAL, "USFILTER/WESTATES" WHITE MYLAR W/BLUE LETTERS

NOTES:

1. DESIGN DATA:
   48" DIAMETER PRESSURE VESSEL-25 PSIG(MAX)
   @ 120°F-NOT ASME CODE STAMPED FOR AQUA USE ONLY
   600 CFM
   1000 LBS. ACTIVATED CARBON

2. MATERIAL:
   HEADS - SA 36-HR
   SHELL - SA 36-HR
   SKID - SA 36-HR

3. SURFACE PREPARATION:
   INTERIOR:
   SANDBLAST: SSPC-SP-5 WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   COATING: 3M BRAND SCOTCHKOTE 134
   THICKNESS: 10-15 DFMT - COLOR: GREEN
   EXTERIOR:
   SANDBLAST: SSPC-SP-10 NEAR WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   PRIMER COAT: RUST PREVENTATIVE EPOXY PRIMER (CARBOLINE 893)
   THICKNESS: 4-6 DFMT - COLOR: RED
   FINISH COAT: HIGH BUILD POLYURETHANE (CARBOLINE 134HG)
   THICKNESS: 3-4 DFMT - COLOR: WHITE (FED. I.D.#17925)

4. LIFTING REQUIREMENTS:
   5200 LBS. MINIMUM RATING.
   EST. WEIGHTS:
   890 LBS. - EMPTY VESSEL
   1890 LBS. - WITH CARBON
   4280 LBS. - OPERATING

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DESIGNER	DATE
AJA	10-8-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

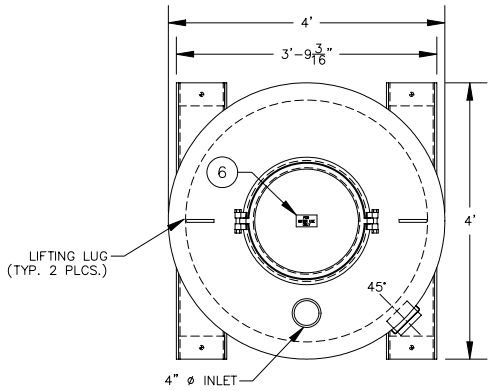
TITLE: ASC1000
GENERAL ASSEMBLY

CLIENT

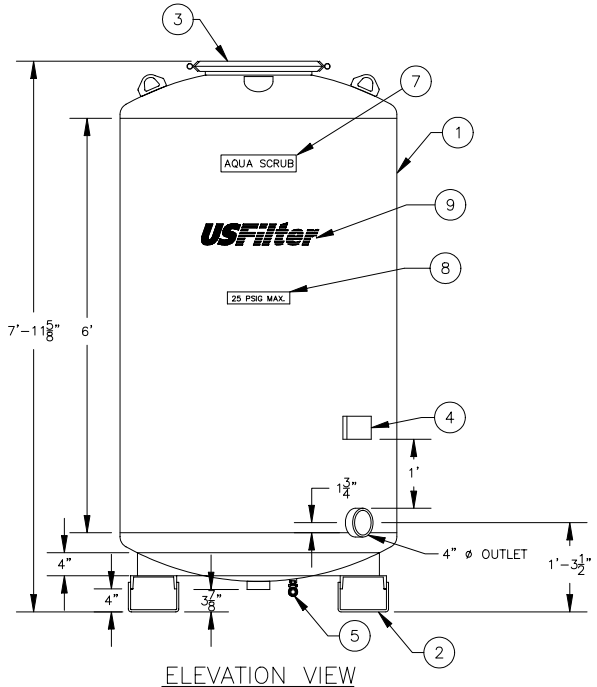
USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	ASC1000SHEET1.DWG	1 OF 3	

STD: 2-0600-8X11A | INTL REF:



PLAN VIEW



ELEVATION VIEW

LIST OF COMPONENTS

ITEM	QTY	DESCRIPTION
1	1	TANK ASSEMBLY
2	1	SKID ASSEMBLY
3	1	MANWAY ASSEMBLY, 18" DIA.
4	1	PLATE, I.D. & SERIAL NUMBER
5	1	BRONZE BALL VALVE, 3/4"
6	1	DECAL, "FOR WATER USE ONLY", 2 1/2" x 4 1/4"
7	2	DECAL, "AQUA-SCRUB", WHITE MYLAR
8	2	DECAL, "25 PSIG MAX", WHITE MYLAR
9	2	DECAL, "USFILTER/WESTATES" WHITE MYLAR W/BLUE LETTERS

NOTES:

1. DESIGN DATA:
   48" DIAMETER PRESSURE VESSEL-25 PSIG (MAX)
   @ 120°F-NOT ASME CODE STAMPED FOR WATER USE ONLY
   50 GPM
   2000 LBS. ACTIVATED CARBON

2. MATERIAL:
   HEADS - SA 36-HR
   SHELL - SA 36-HR
   SKID - SA 36-HR

3. SURFACE PREPARATION:
   INTERIOR:
   SANDBLAST: SSPC-SP-5 WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   COATING: 3M BRAND SCOTCHKOTE 134
   THICKNESS: 10-15 DFMT - COLOR: GREEN
   EXTERIOR:
   SANDBLAST: SSPC-SP-10 NEAR WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   PRIMER COAT: RUST PREVENTATIVE EPOXY PRIMER (CARBOLINE 893)
   THICKNESS: 4-6 DFMT - COLOR: RED
   FINISH COAT: HIGH BUILD POLYURETHANE (CARBOLINE 134HG)
   THICKNESS: 3-4 DFMT - COLOR: WHITE (FED. I.D.#17925)

4. LIFTING REQUIREMENTS:
   5200 LBS. MINIMUM RATING.
   EST. WEIGHTS:
   1190 LBS. - EMPTY VESSEL
   3190 LBS. - WITH CARBON
   7317 LBS. - OPERATING

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DESIGNER	DATE
AJA	10-8-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

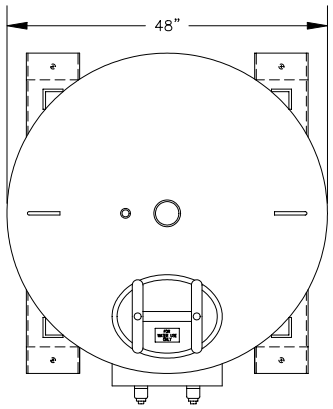
TITLE: ASC2000
GENERAL ASSEMBLY

CLIENT

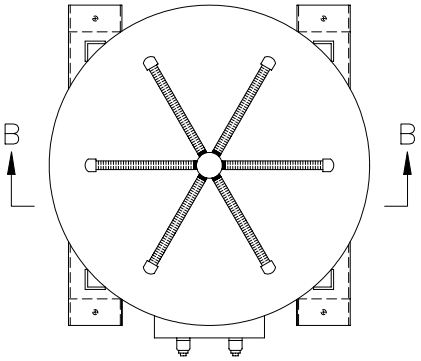
USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	ASC2000SHEET1.DWG	1 OF 5	

STD: 2-0600-8X11A | INTR_REF_NO



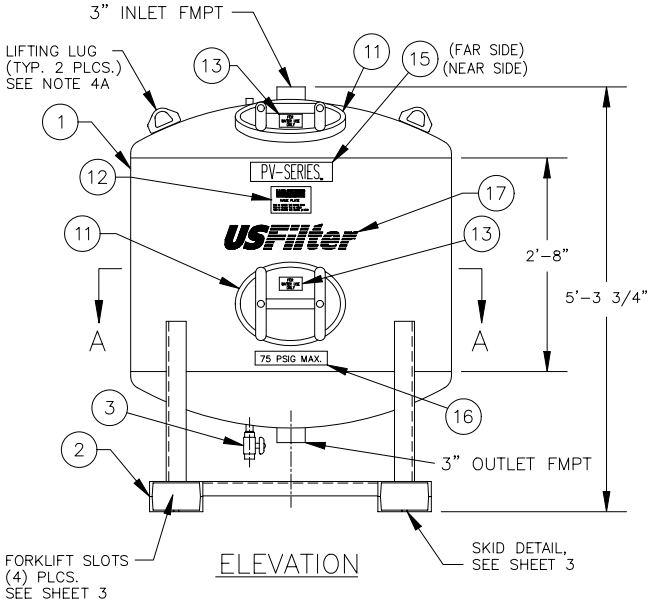
PLAN VIEW



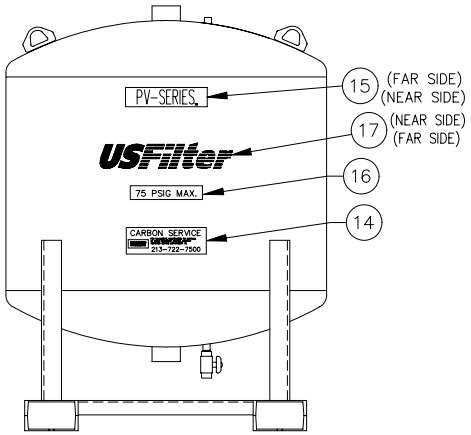
SECTION "A-A"

LIST OF COMPONENTS

ITEM	QTY	DESCRIPTION
1		TANK ASSEMBLY DWG. # PV1000SHEET2
2		SKID ASSEMBLY DWG. # PV1000SHEET3
3	1	BRONZE BALL VALVE, 3/4"
4	1	POLY SCREEN ORTHOS PART# N5 R-3/4", MPT
5	1	CLOSE NIPPLE, SCHD 40 304 SS, 3/4"
6	6	MALE ADAPTER, SCH 80 PVC, 1"
7	6	PIPE, SLOTTED SCH 80 PVC, 1" x 15" LG
8	6	CAP, SCH 80 PVC, SLIP, 1"
9	1	UNDERDRAIN HUB, 3" DIA x 10 1/2" LG, SCH 80 PVC
10	1	CAP, SCH 80 PVC, SLIP, 3"
11	2	MANWAY ASSEMBLY, 11" x 15"
12	1	PLATE, I.D. & SERIAL NUMBER
13	2	DECAL, "FOR WATER USE ONLY", 2 1/2" x 4 1/4"
14	1	DECAL, "CARBON SERVICE" WHITE MYLAR W/BLUE LETTERS, 4" x 12"
15	2	DECAL, "PV-SERIES", WHITE MYLAR
16	2	DECAL, "75 PSIG MAX", WHITE MYLAR
17	2	DECAL, "USFILTER/WESTATES" WHITE MYLAR W/BLUE LETTERS



ELEVATION



REAR ELEVATION

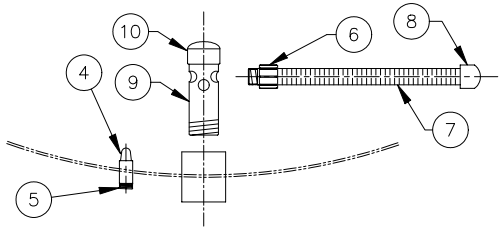
NOTES:

1. DESIGN DATA:
   48" DIAMETER PRESSURE VESSEL-75 PSIG(MAX)
   @ 150°F-NOT ASME CODE STAMPED
   FOR WATER USE ONLY
   MAXIMUM FLOW RATE: 50 GPM
   MAXIMUM CARBON CAPACITY: 1000 LBS. ACTIVATED CARBON

2. MATERIAL:
   HEADS: STD. F & D NON CODE 3/16" THICKNESS C.S.
   SHELL: 3/16" THK. 48" OD x 32" LONG C.S.
   SKID: SA 36-HR

3. SURFACE PREPARATION:
   INTERIOR:
   SANDBLAST: SSPC-SP-5 WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   COATING: 3M BRAND SCOTCHKOTE 134
   THICKNESS: 10-15 DFMT - COLOR: GREEN
   EXTERIOR:
   SANDBLAST: SSPC-SP-10 NEAR WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   PRIMER COAT: RUST PREVENTATIVE EPOXY PRIMER (CARBOLINE 893)
   THICKNESS: 4-6 DFMT - COLOR: RED
   FINISH COAT: HIGH BUILD POLYURETHANE (CARBOLINE 134HG)
   THICKNESS: 3-4 DFMT - COLOR: BLUE (FED. I.D.#15052)

4. LIFTING REQUIREMENTS:
   3,700 LBS. MINIMUM RATING.
   EST. WEIGHTS:
   910 LBS. - EMPTY VESSEL
   1910 LBS. - WITH CARBON
   4300 LBS. - OPERATING



ENLARGED SECTION VIEW B-B
UNDERDRAIN ASSEMBLY-(SEPARATED)

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DESIGNER	DATE
AJA	9-11-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

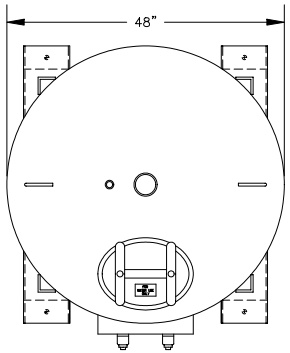
TITLE: PV1000
GENERAL ASSEMBLY

CLIENT

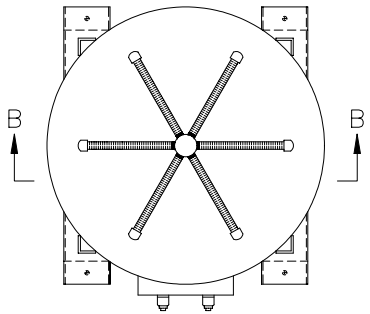
USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	PV1000SHEET1	1 OF 5	

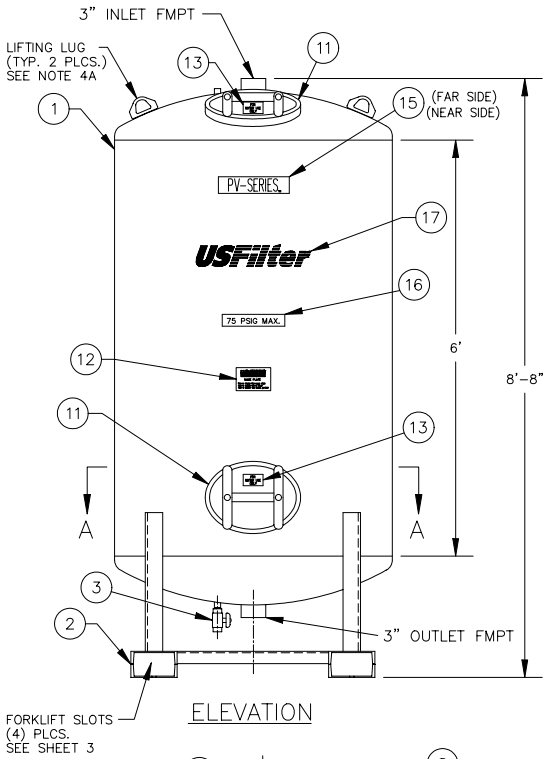
STD: 2-0600-8X11A | INTR_REF_NO



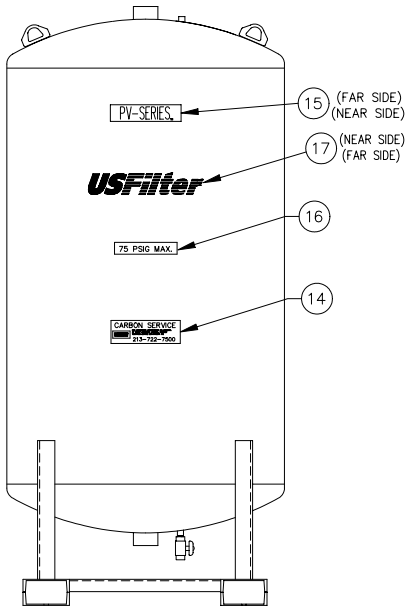
PLAN VIEW



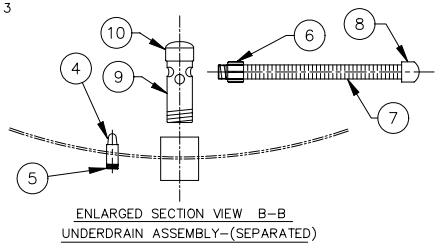
SECTION "A-A"



ELEVATION



REAR ELEVATION



LIST OF COMPONENTS

ITEM	QTY	DESCRIPTION
1		TANK ASSEMBLY DWG. # PV2000SHEET2
2		SKID ASSEMBLY DWG. # PV2000SHEET3
3	1	BRONZE BALL VALVE, 3/4"
4	1	POLY SCREEN ORTHOS PART# N5 R-3/4", MPT
5	1	CLOSE NIPPLE, SCHD 40 304 SS, 3/4"
6	6	MALE ADAPTER, SCH 80 PVC, 1"
7	6	PIPE, SLOTTED SCH 80 PVC, 1" x 15" LG
8	6	CAP, SCH 80 PVC, SLIP, 1"
9	1	UNDERDRAIN HUB, 3" DIA x 10 1/2" LG, SCH 80 PVC
10	1	CAP, SCH 80 PVC, SLIP, 3"
11	2	MANWAY ASSEMBLY, 11" x 15"
12	1	PLATE, I.D. & SERIAL NUMBER
13	2	DECAL, "FOR WATER USE ONLY", 2 1/2" x 4 1/4"
14	1	DECAL, "CARBON SERVICE" WHITE MYLAR W/BLUE LETTERS, 4" x 12"
15	2	DECAL, "PV-SERIES", WHITE MYLAR
16	2	DECAL, "75 PSIG MAX", WHITE MYLAR
17	2	DECAL, "USFILTER/WESTATES" WHITE MYLAR W/BLUE LETTERS

NOTES:

1. DESIGN DATA:
   48" DIAMETER PRESSURE VESSEL-75 PSIG(MAX)
   @ 150°F-NOT ASME CODE STAMPED
   FOR WATER USE ONLY
   MAXIMUM FLOW RATE: 100 GPM
   MAXIMUM CARBON CAPACITY: 2000 LBS. ACTIVATED CARBON

2. MATERIAL:
   HEADS: STD. F & D NON CODE 3/16" THICKNESS C.S.
   SHELL: 3/16" THK. 48" OD x 72" LONG C.S.
   SKID: SA 36-HR

3. SURFACE PREPARATION:
   INTERIOR:
   SANDBLAST: SSPC-SP-5 WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   COATING: 3M BRAND SCOTCHKOTE 134
   THICKNESS: 10-15 DFMT - COLOR: GREEN
   EXTERIOR:
   SANDBLAST: SSPC-SP-10 NEAR WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   PRIMER COAT: RUST PREVENTATIVE EPOXY PRIMER (CARBOLINE 893)
   THICKNESS: 4-6 DFMT - COLOR: RED
   FINISH COAT: HIGH BUILD POLYURETHANE (CARBOLINE 134HG)
   THICKNESS: 3-4 DFMT - COLOR: BLUE (FED. I.D.#15052)

4. LIFTING REQUIREMENTS:
   5,200 LBS. MINIMUM RATING.
   EST. WEIGHTS:
   1190 LBS. - EMPTY VESSEL
   3190 LBS. - WITH CARBON
   7717 LBS. - OPERATING

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DESIGNER	DATE
AJA	9-11-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

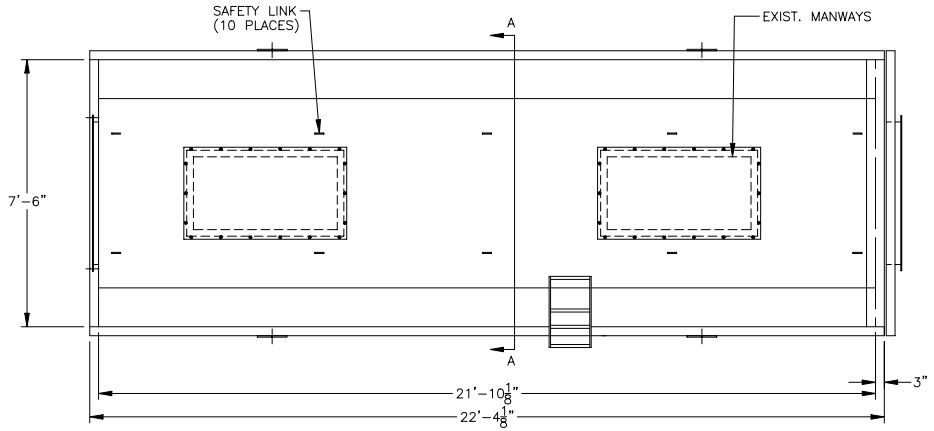
TITLE: PV2000
GENERAL ASSEMBLY

CLIENT

USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	PV2000SHEET1	1 OF 5	

STD: 2-0600-8X11A	INTL REF:	

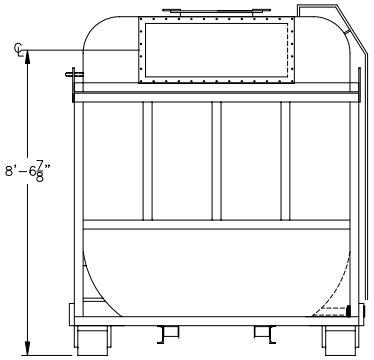


PLAN VIEW

SCALE: 1"=2'-0"

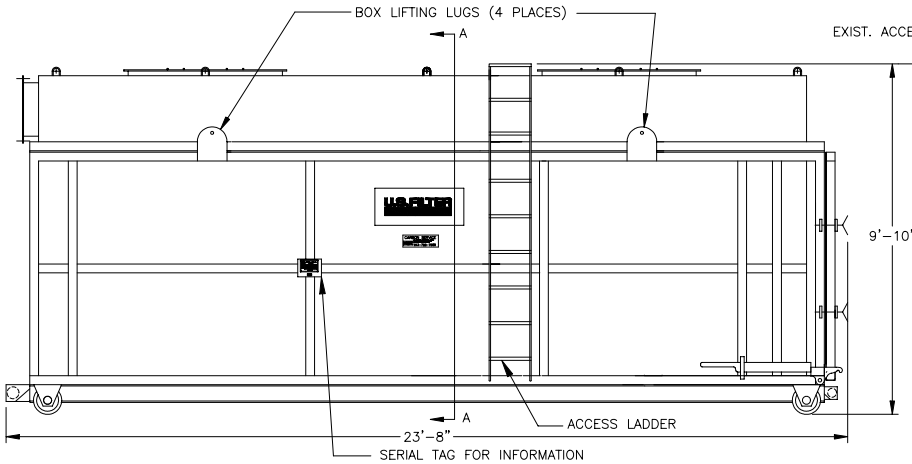
NOTES:

1. DESIGN DATA:
   14 INCHES W.G.
2. MATERIAL:
   CARBON STEEL
3. SURFACE PREPARATION:
   (A) PRIMER: (2) PART EPOXY PRIMER
   (B) FINISH: POLYURETHANE, BLUE
4. APPROXIMATE WEIGHTS:
   EMPTY: (NO CARBON)
   ROOF: ..... 1,400 LBS
   BOX: ..... 8,100 LBS
   TOTAL: ..... 9,500 LBS

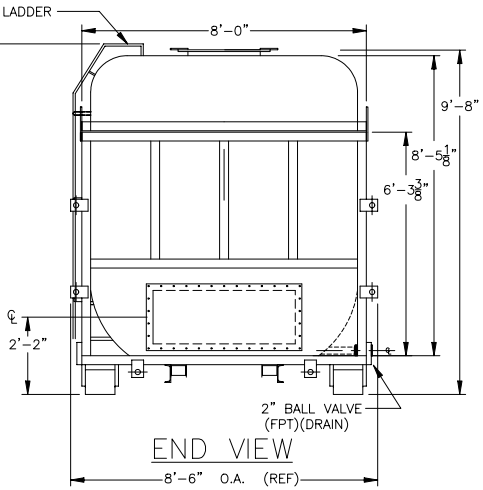


END VIEW

4-1/2"ø HOLE
INSTALL ON BOTH SIDES
OF WALL



SIDE VIEW



END VIEW

ELEVATION VIEWS

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DESIGNER	DATE
LLR	5-21-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

TITLE RB20
GENERAL ASSEMBLY

CLIENT

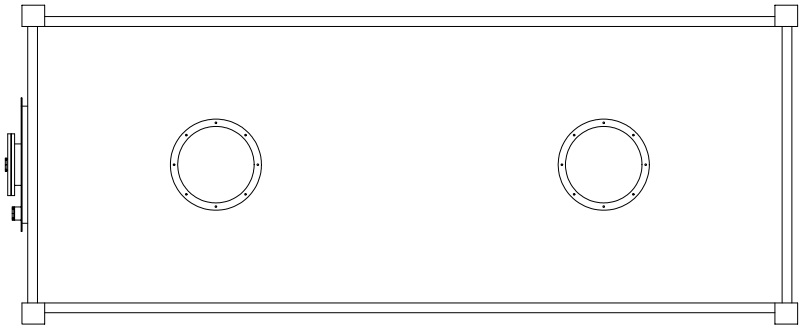
USFilter
USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	RB20 OS A SIZE.DWG	1 OF 1	

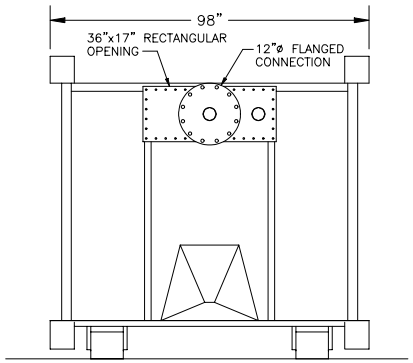
STD: 2-0600-8X11A	INTL REF:	

NOTES:

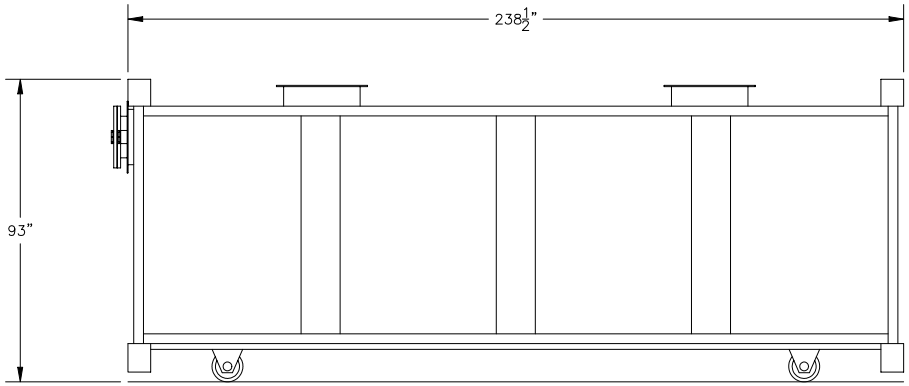
1. CARBON CAPACITY 12000 LB
2. FLOW RATE 8000CFM MAX.
3. MAX. PRESSURE 28 " W.C. / 2" W.C. VACUUM
4. EMPTY WEIGHT 9500 LB.
5. INLET/ OUT LET 12"X36".
6. MAX TEMPERATURE 140°F



TOP VIEW



END VIEW



SIDE VIEW

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DESIGNER	DATE
LLR	5-9-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

TITLE RB10 OS GENERAL ASSEMBLY

CLIENT

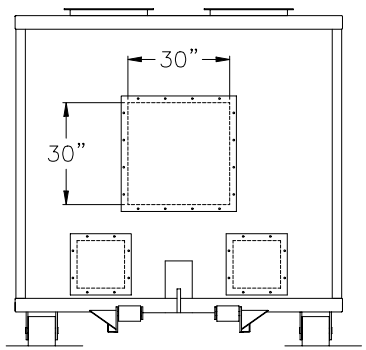
USFilter

USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

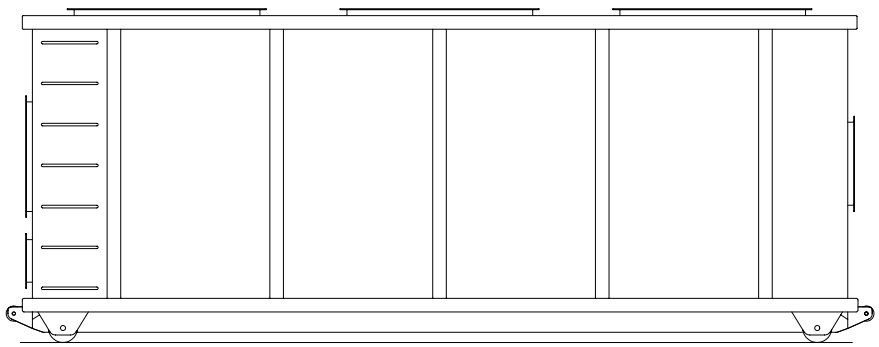
PROJECT	DRAWING	SHEET	REV
	RB10 OSGENASSY	OF	

STD: 2-0600-8X11A	INTL REF:	

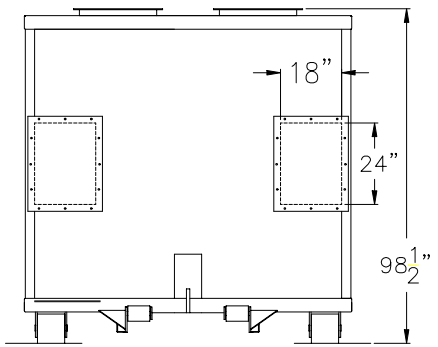
RB12HV



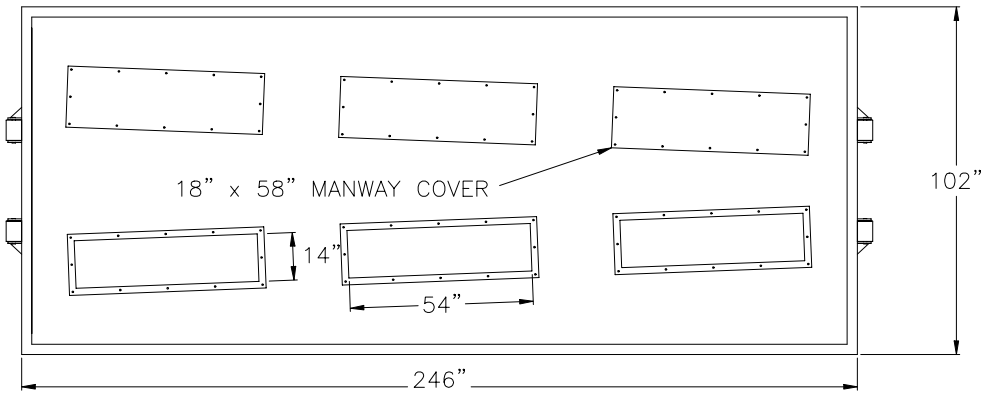
LEFT END VIEW



SIDE VIEW



RIGHT END VIEW



PLAN VIEW

SPECIFICATIONS:

1. 20,000 SCFM MAX FLOW RATE
2. 12,000 LBS ACTIVATED CARBON
3. 30" X 30" INLET, 2-18" X 24" OUTLETS.
4. PRIMED AND PAINTED
5. RIBBED CARBON STEEL CONSTRUCTION
6. 8" GROUND ROLLERS FOR HANDLING EASE
7. 18" x 58" MANWAYS
8. BOXES TO BE GROUNDED BY BRAIDED COPPER #4
9. SHIPPING WEIGHT (WITH CARBON) APPROX.= 22,000 LB
10. PROVIDE SAMPLE PORTS 1/2" BALL VALVE WITH HOSE FITTING.

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DESIGNER	DATE
LLR	4-8-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

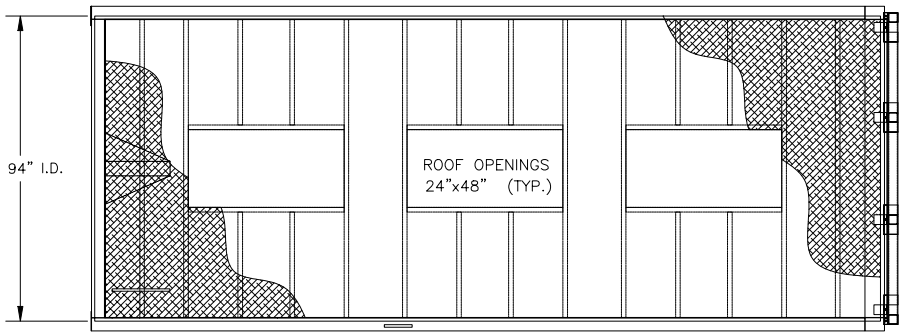
TITLE: RB12HV GENERAL ASSEMBLY

CLIENT

USFilter
USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	RB12HVGENASSY	OF	

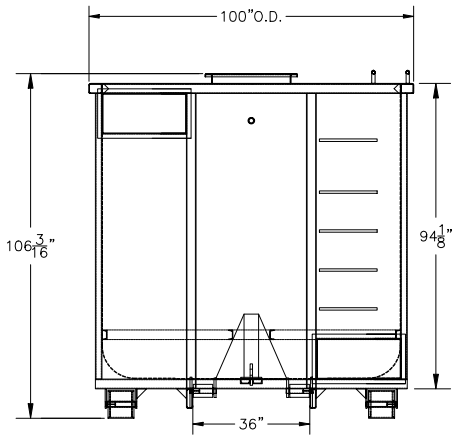
STD: 2-0600-8X11A	INTL REF:	



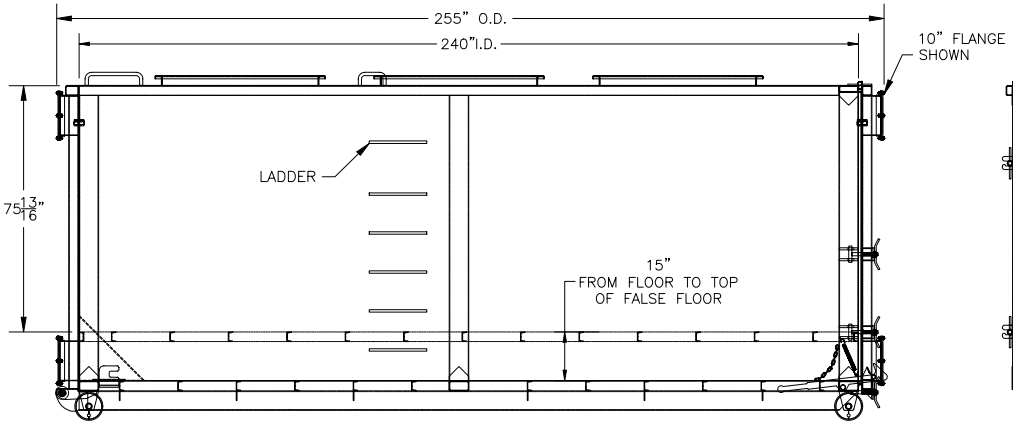
PLAN VIEW

NOTES :

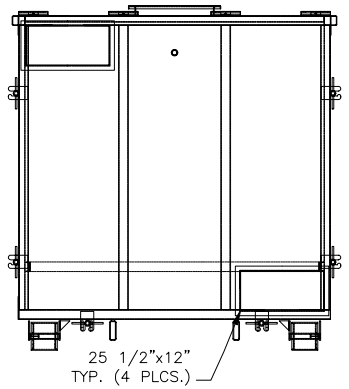
1. CONTINUOUS WELDED CONSTRUCTION.
2. EPOXY PRIMED INTERIOR AND EXTERIOR PRIMED AND FINISHED WITH POLYURETHANE.
3. TOP HINGED TAILGATE.
4. VESSEL WEIGHT: 10,500 LBS.
5. VESSEL WEIGHT W/ CARBON: 30,500 LBS.
7. FLOWRATE 12,000 CFM MAX.



FRONT VIEW



SIDE VIEW



REAR VIEW

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DESIGNER	DATE
ESP	4-9-01
CHECKER	DATE
LLR	4-9-01
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

TITLE: RB20 GENERAL ASSEMBLEY

CLIENT

USFilter

USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

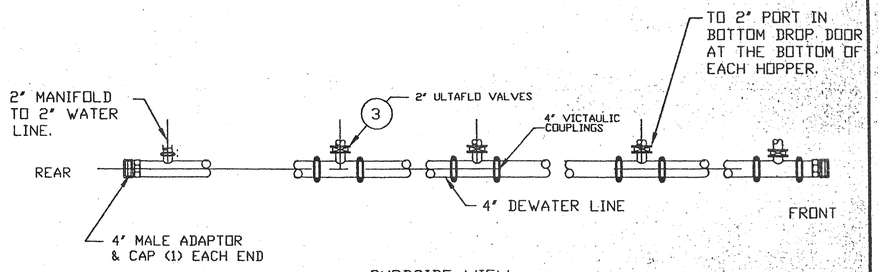
PROJECT	DRAWING	SHEET	REV
	RB20 8X11	OF	

New drawing

ITEM	QTY	DESCRIPTION
1	1	BODY & FRAME SEE DRG. #2220A (BODY MAT-.188/.203)
2	4	KNAPPCO LM20 DOMES W/ BUNA-N GASKETS - HINGE TO
–	–	STREETSIDE
3	11	2" ULTRAFLO VALVES- (7) IN WATER LINE & (4) IN DEWATER
–	–	LINE.- MODEL 400 W/ NITRILE SEATS
4	2	3" ULTRAFLO VALVES- MODEL 400 W/NITRILE SEATS
5	1	2" BAYCO PRESSURE RELIEF VALVE SET AR 15 P.S.I
6	1	3" ALUM. TOP AIR PIPE
7	1	3" COUPLER & PLUG STREETSIDE
8	1	3" MALE ADAPTOR DUMMY CURBSIDE
9	1	HOSE HOOK- ADJUSTABLE
10	2	3" KNAPPCO SWING CHECK VALVES
11	2	4" STL. STEEL LONG RADIUS WELD 90° ELBOWS
12	1	2" MALE ADAPTOR & CAP AT END OF 2" WATER LINE
13	8	2" VICTAULIC COUPLINGS W/ BUNA-N GASKETS
14	–	2" SCH. 40 ALUM. PIPE WATER LINE
15	14	4" VICTAULIC COUPLINGS W/ BUNA-N GASKETS
16	–	4" SCH. 40 ALUM. PIPE
17	1	4" TOP LOAD LINE TO ENTER EACH OF 3-COMPTS. AT
		TOP CURBSIDE (SEE DRWG. #2220C)
18	4	12" BOTTOM DROP ASSY. SEE DRWG. #2220D
19	4	5" ULTRAFLO VALVES W/NITRILE SEATS
20	4	5" X 5" PENTRON TEES W/OUT DOORS - W/ VIC. ENDS
21	7	5" VICTAULIC COUPLERS W/ BUNA-N GASKETS
22	–	5" SCH 40 DISCHARGE PIPE TO REAR UNDER AXLE
23	2	5" X 4" REDUCERS W/ (2) 4" MALE ADAPTORS & CAPS
		(1) EACH FRONT AND REAR ON DISCHARGE LINE.

ITEM	QTY	DESCRIPTION
24	1	2" MANIFOLD ALUM. PIPE SEE DRWG. #2220C
25	4	4" ULTRAFLO VALVES-MODEL 400 W/ NITRILE SEATS
26	4	4" MALE ADAPTORS & CAPS ON END OF 4" LOAD LINE &
		4" DEWATER LINE
27	1	4" ALUM. SCH. 40 PIPE DEWATER LINE SEE VIEW B - B
28	1	LANDING GEAR- 2 SPEED-S/S CRANK #LPR-30-444
29	2	SUSPENSION- HENDRICKSON-TURNER HT-230-17-004
		17" RIDE HT.
30	2	AXLES- DANA 5" RD.- 1/2" WALL- 71 1/2" TRACK
–		W/CHICAGO RAWHIDE OIL SEALS
4		5½" GUNITE AUTOMATIC SLACKS
4		OUTBOARD CENTRIFUSE DRUMS- ALUM. HUBS
4		30/30 COMBO MGM BRAKE CHAMBERS
31	8	WHEELS- ALCOA ALUM.- 8.25 X 24.5
32	8	TIRES- 285/75R24.5 BRIDGESTONE R-194
33	2	ALUM. LIGHT HOUSINGS PER STD.- 605
34	2	TOE RAILS W/ 1" ALUM. PIPE FULL LENGTH
35	–	NON-SLIP PAINT BETWEEN TOE RAILS FULL LENGTH
36	1	ALUM. LADDER W/ 1" PIPE & 4 3/4" GRIP STRUT STEPS
37	1	GRIPSTRUT PLATFORM 24" WIDE X 36" LG. USE (2)
		11 3/4" WIDE GRIPSTRUT PIECES
38	4	HOSE TUBE- 7" X 20'-0", 2 EA. SIDE-DOORS EA. END
39	4	AIR PRESSURE GAUGES (2) 1N (2) ALUM. BOXES W/ LIGHT-
		3½" DIA. LIQUID FILLED. 0 TO 30 P.S.I.(TANK & LINE)
40	1	KINGPIN PLATE PER STD.- 419
41	2	ALUM. FRONT FENDERS W/ RADIUS
42	2	ALUM. TANDEM FENDERS

ITEM	QTY	DESCRIPTION
43	4	TRUCK LITE STOP/TAIL/TURN RED LIGHTS
44	6	TRUCK LITE MARKER LIGHTS (2) RED & (4) AMBER
45	1	TRUCK LITE I. D. CLUSTER
46	3	INTERNAL RINGS - 3" X 3/8" FLAT BARS ON EDGE.
		BARS ARE PERPENDICULAR TO SHELL
47	2	SANITARY BULKHEADS- 0.250" ALUM.
48	1	TOOL BOX- 24" H. X 36" L. X 24" DP. - STREETSIDE
		SEE DRWG. #2220B
49	4	2" N.P.T. NIPPLES INSIDE TANK -EXTEND INTO TANK
		3 TO 4"
50	1	ROCKWELL WABCO 4S/2M ABS KIT W/ STOP LIGHT CONTROL.
51	1	BETTS PS-1 DOCUMENT HOLDER
52	4	PLACARD HOLDERS- SLIDE IN STYLE- LOCATE (1) EACH END
		AND (1) EACH SIDE AT CENTER.
53	1	WIRING HARNES KIT W/ 7-WAY RECEPTACLE USA #602001
54	4	BEALL MUD FLAPS
55	–	PAINT STEEL PARTS WHEELABRATOR BLUE PAINTONE MATCHING
		SYSTEM #286,C 100,M 60, K 6
56	1	3" VICTAULIC COUPLING W/ BUNA-N GASKETS

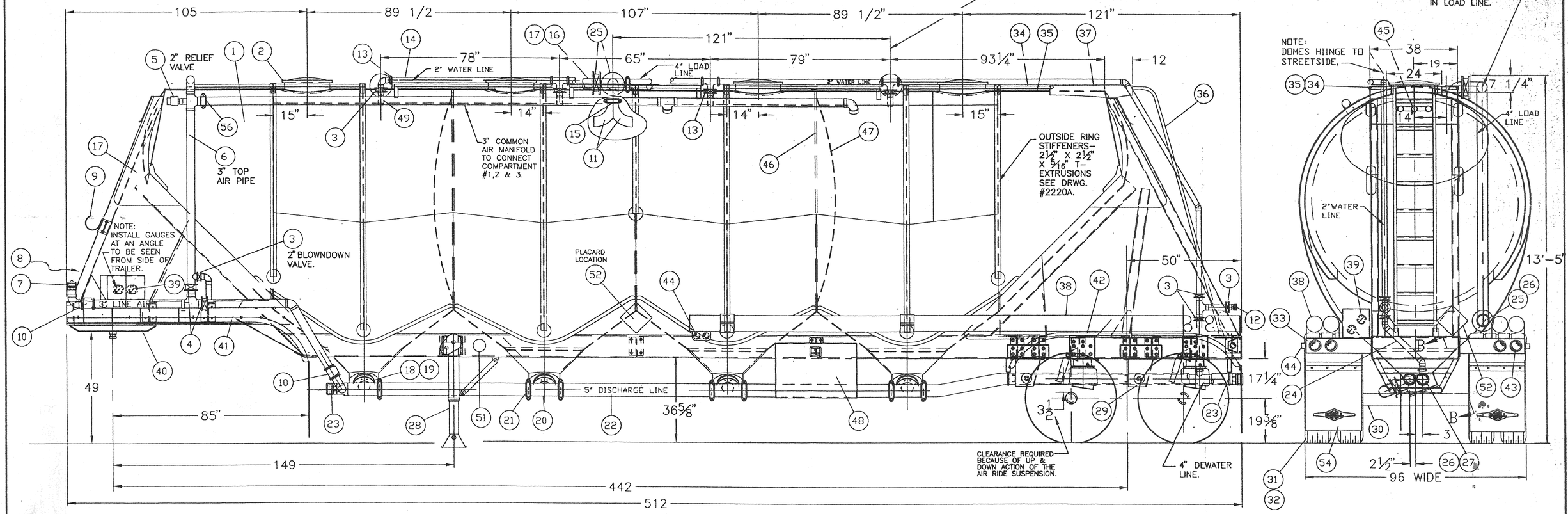


CURBSIDE VIEW

VIEW B - B

NOTE:
FRONT & REAR 4" LOAD LINE INLETS ARE LOCATED ON THE SAME CENTERLINES AS THE FRONT & REAR 2" WATER LINE INLETS SEE DRWG. #2220C.

NOTE:
USE 4" ALUM. SCH. 40 WELD S.R. WELD ELBOWS & TEES IN LOAD LINE.



125° MAXIMUM TEMPERATURE

CUSTOMER APPROVAL
DATE: _____
BY: _____

NOTE:
GRIND ALL INTERIOR BUTT WELDS SMOOTH IN PREPARATION FOR A LINER.

(50) ABS KIT

(53) WIRING HARNESS KIT

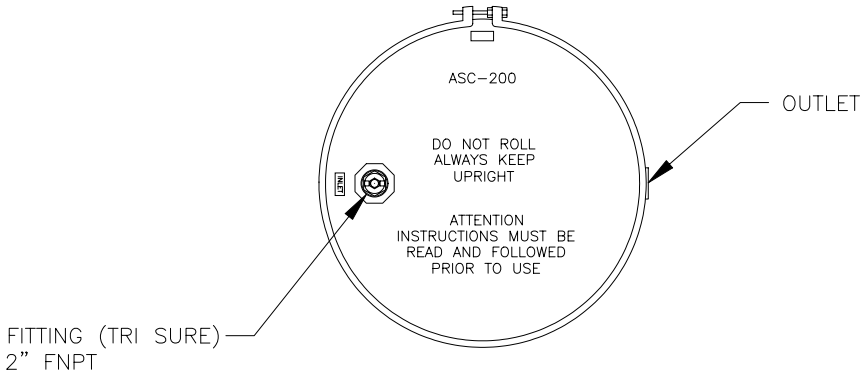
(55) PAINT

DOT SPECIFICATION:	SERIAL NUMBER:	Beall Trailers of Oregon, Inc.
N/A	PS27472 &PS27473	THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION BELONGING TO BEALL TRAILERS, INC. AND SUCH INFORMATION MAY NOT BE DISCLOSED TO OTHERS, REPRODUCED, COPIED OR USED WITHOUT WRITTEN AUTHORITY FROM BEALL TRAILERS, INC.

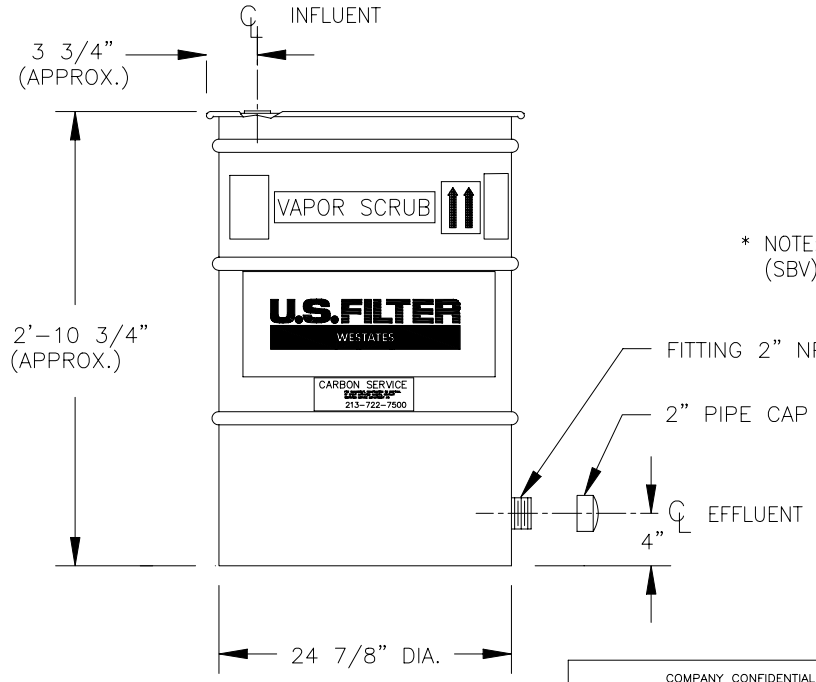
DATE	SYM	REVISION RECORD	BY
	–	THRU CHANGE ORDER #2	LA

WHEELABRATOR CLEAN AIR SYSTEMS F.O. #27472 & 27473-95	SCALE 1:20	DRAWN BY LA	APPROVED BY BM
TITLE 1800 CU. FT. ALUMINUM PNEUMATIC SEMI			
REFERENCE	DATE 10-25-95	DRAWING NUMBER 2220	

STD: 2-0600-8X11A	INTL REF:	



PLAN VIEW



PLAN VIEW

NOTES:

1. CARBON:
   AS REQUIRED.
2. MATERIALS OF CONSTRUCTION:
   VESSEL: .....CARBON STEEL
   EXTERNAL COATING: .....HIGH GLOSS PAINT, WESTATES BLUE
   INTERNAL COATING: .....CURED EPOXY
   INTERNAL DISTRIBUTION: .....PVC
3. SPECIFICATIONS:
   FLOW * - CFM (MAX): 100
   PRESSURE - PSIG (MAX): 10
   TEMPERATURE - DEG F (MAX): 140
   CARBON FILL VOLUME - CU FT: 6.9
   CROSS SECTION - SQ FT: 2.8
   SHIPPING WEIGHT - LBS: (APPROX,) 250
   OPERATING WEIGHT - LBS: (APPROX,) 500

* NOTE: ACTUAL DESIGN SHOULD BE BASED ON SUPERFICIAL BED VELOCITY (SBV) AS REQUIRED FOR SPECIFIC CONTAMINANTS.

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DESIGNER	DATE
LLR	4-8-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

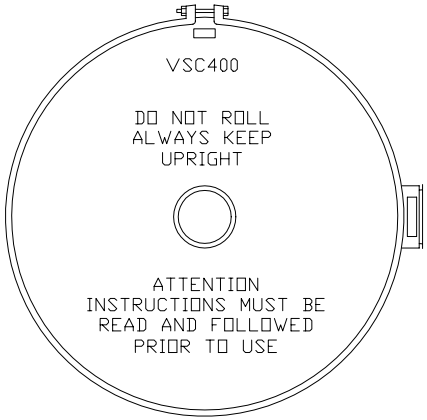
TITLE VSC200 GENERAL ASSEMBLY

CLIENT TBD

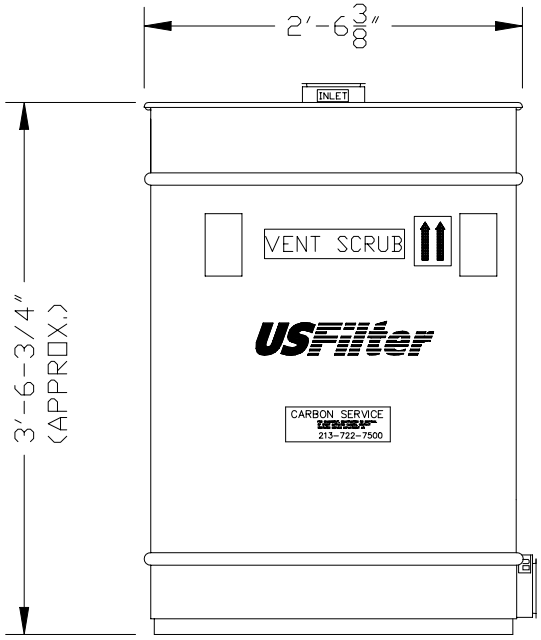
USFilter
USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	VSC200GENASSY	OF	

STD: 2-0600-8X11A	INTL REF:	



PLAN



ELEVATION

NOTES:

1. CARBON:
   AS REQUIRED.
2. MATERIALS OF CONSTRUCTION:
   VESSEL: .....CARBON STEEL
   EXTERNAL COATING: .....HIGH GLOSS PAINT, WESTATES BLUE
   INTERNAL COATING: .....CURED EPOXY
   INTERNAL DISTRIBUTION: .....PVC
3. SPECIFICATIONS:
   FLOW * – CFM (MAX): 300
   PRESSURE – PSIG (MAX): 6
   TEMPERATURE – DEG F (MAX): 140
   CARBON FILL VOLUME – CU FT: 14.0
   CROSS SECTION – SQ FT: 4.9
   SHIPPING WEIGHT – LBS: (APPROX,) 480
   OPERATING WEIGHT – LBS: (APPROX,) 480

* NOTE: ACTUAL DESIGN SHOULD BE BASED ON SUPERFICIAL BED VELOCITY (SBV) AS REQUIRED FOR SPECIFIC CONTAMINANTS.

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DESIGNER	DATE	
AJA	5-2-01	
CHECKER	DATE	
ENGINEER	DATE	
MANAGER	DATE	
FILE:		
SCALE:		

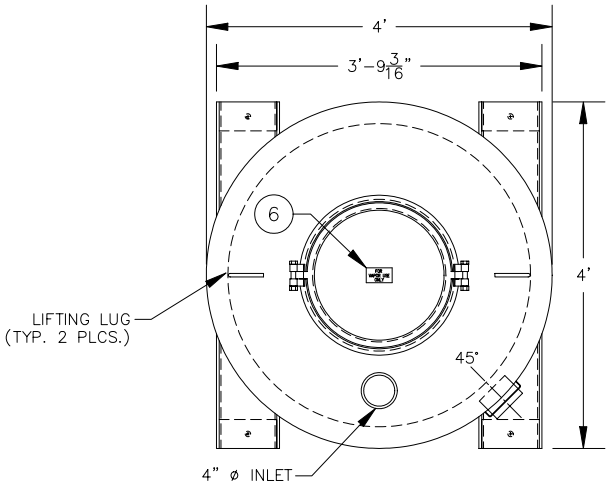
TITLE VSC400
GENERAL ASSEMBLY

CLIENT

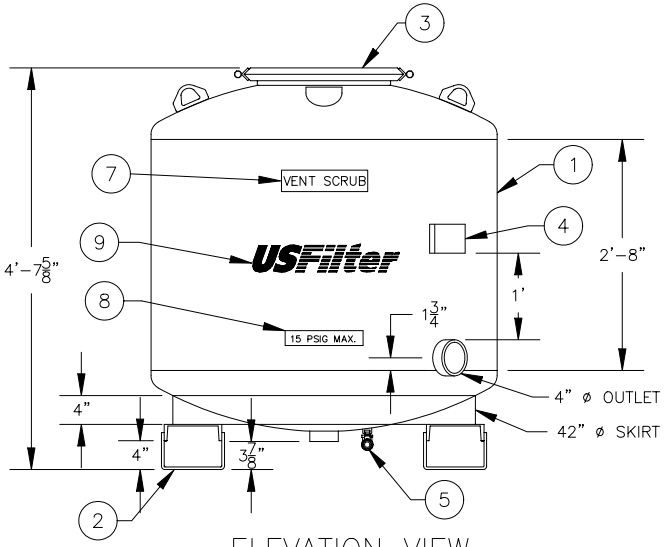
USFilter
USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	VSC400.DWG	1 OF 1	

STD: 2-0600-8X11A | INTL REF:



PLAN VIEW



ELEVATION VIEW

LIST OF COMPONENTS

ITEM	QTY	DESCRIPTION
1	1	TANK ASSEMBLY
2	1	SKID ASSEMBLY
3	1	MANWAY ASSEMBLY, 18" DIA.
4	1	PLATE, I.D. & SERIAL NUMBER
5	1	BRONZE BALL VALVE, 3/4"
6	1	DECAL, "FOR VAPOR USE ONLY", 2 1/2" x 4 1/4"
7	2	DECAL, "VENT-SCRUB", WHITE MYLAR
8	2	DECAL, "15 PSIG MAX", WHITE MYLAR
9	2	DECAL, "USFILTER/WESTATES" WHITE MYLAR W/BLUE LETTERS

NOTES:

1. DESIGN DATA:
   48" DIAMETER PRESSURE VESSEL-15 PSIG(MAX)
   VACUUM RATING - 15" HG
   @ 120°F-NOT ASME CODE STAMPED FOR VAPOR USE ONLY
   600 CFM
   1000 LBS. ACTIVATED CARBON

2. MATERIAL:
   HEADS - SA 36-HR
   SHELL - SA 36-HR
   SKID - SA 36-HR

3. SURFACE PREPARATION:
   INTERIOR:
   SANDBLAST: SSPC-SP-5 WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   COATING: 3M BRAND SCOTCHKOTE 134
   THICKNESS: 10-15 DFMT - COLOR: GREEN
   EXTERIOR:
   SANDBLAST: SSPC-SP-10 NEAR WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   PRIMER COAT: RUST PREVENTATIVE EPOXY PRIMER (CARBOLINE 893)
   THICKNESS: 4-6 DFMT - COLOR: RED
   FINISH COAT: HIGH BUILD POLYURETHANE (CARBOLINE 134HG)
   THICKNESS: 3-4 DFMT - COLOR: WHITE (FED. I.D.#17925)

4. LIFTING REQUIREMENTS:
   5200 LBS. MINIMUM RATING.
   EST. WEIGHTS:
   890 LBS. - EMPTY VESSEL
   1890 LBS. - WITH CARBON

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DESIGNER	DATE
AJA	10-8-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

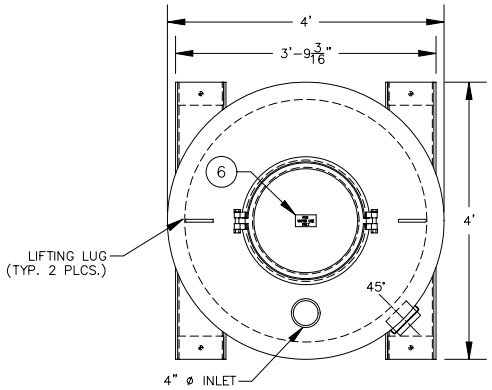
TITLE: VSC1000
GENERAL ASSEMBLY

CLIENT

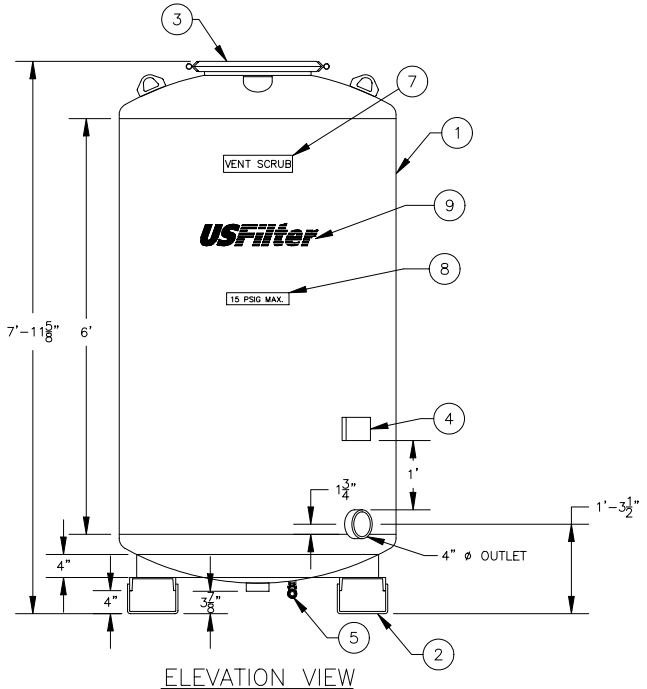
USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	VSC1000SHEET1.DWG	1 OF 2	

STD: 2-0600-8X11A | INTL REF:



PLAN VIEW



ELEVATION VIEW

LIST OF COMPONENTS

ITEM	QTY	DESCRIPTION
1	1	TANK ASSEMBLY
2	1	SKID ASSEMBLY
3	1	MANWAY ASSEMBLY, 18" DIA.
4	1	PLATE, I.D. & SERIAL NUMBER
5	1	BRONZE BALL VALVE, 3/4"
6	1	DECAL, "FOR VAPOR USE ONLY", 2 1/2" x 4 1/4"
7	2	DECAL, "VENT -SCRUB", WHITE MYLAR
8	2	DECAL, "15 PSIG MAX", WHITE MYLAR
9	2	DECAL, "USFILTER/WESTATES" WHITE MYLAR W/BLUE LETTERS

NOTES:

1. DESIGN DATA:
   48" DIAMETER PRESSURE VESSEL-15 PSIG(MAX)
   VACUUM RATING - 15" HG
   @ 120°F-NOT ASME CODE STAMPED FOR VAPOR USE ONLY
   600 CFM
   2000 LBS. ACTIVATED CARBON

2. MATERIAL:
   HEADS - SA 36-HR
   SHELL - SA 36-HR
   SKID - SA 36-HR

3. SURFACE PREPARATION:
   INTERIOR:
   SANDBLAST: SSPC-SP-5 WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   COATING: 3M BRAND SCOTCHKOTE 134
   THICKNESS: 10-15 DFMT - COLOR: GREEN
   EXTERIOR:
   SANDBLAST: SSPC-SP-10 NEAR WHITE METAL
   ABRASIVE: GARNET OR GRIT - PROFILE: 1.5-2 MILS
   PRIMER COAT: RUST PREVENTATIVE EPOXY PRIMER (CARBOLINE 893)
   THICKNESS: 4-6 DFMT - COLOR: RED
   FINISH COAT: HIGH BUILD POLYURETHANE (CARBOLINE 134HG)
   THICKNESS: 3-4 DFMT - COLOR: WHITE (FED. I.D.#17925)

4. LIFTING REQUIREMENTS:
   5200 LBS. MINIMUM RATING.
   EST. WEIGHTS:
   1190 LBS. - EMPTY VESSEL
   3190 LBS. - WITH CARBON

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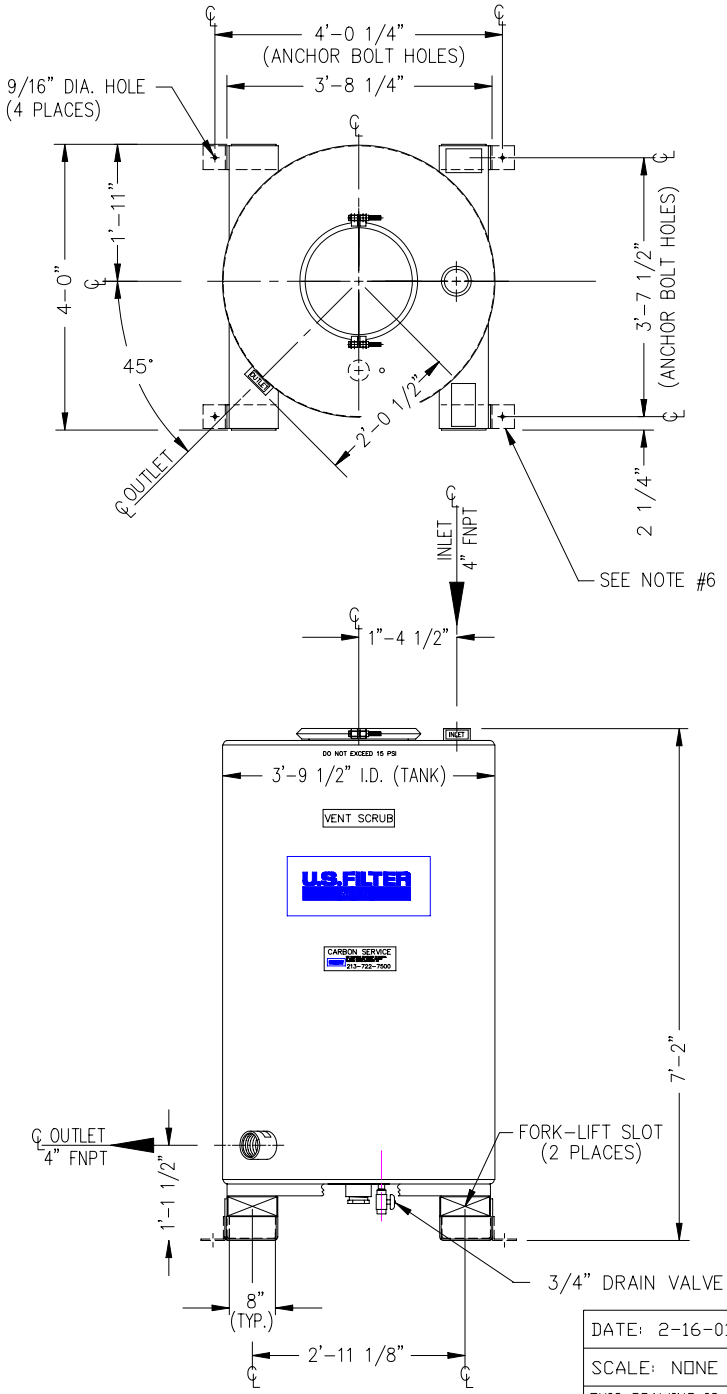
DESIGNER	DATE
AJA	10-8-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

TITLE: VSC2000
GENERAL ASSEMBLY

CLIENT

USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	VSC2000SHEET1.DWG	1 OF 5	



NOTES:

1. DESIGN DATA:
   45 1/2" DIAMETER PRESSURE VESSEL – 15 PSIG (MAX)
   @ 120°F – NOT ASME CODE STAMPED
   FOR VAPOR USE ONLY, MAX. FLOW = 500 CFM
   63 CU. FT. ACTIVATED CARBON
   VACUUM = 6.0 INCH HG

2. MATERIAL:
   HEADS – 7 GA. CARBON STEEL
   SHELL – 10 GA. CARBON STEEL
   SKID – CARBON STEEL

3. SURFACE PREPARATION:
   INTERIOR COATING: FUSION BONDED EPOXY

   EXTERIOR COATING: PRIMER: (2) PART EPOXY PRIMER
   FINISH: ALIPHATIC POLYURETHANE FINISH, WHITE

4. APPROXIMATE WEIGHT:
   EMPTY VESSEL: ..... 740 LBS

5. THIS VESSEL COMPLIES WITH UN 11A.

6. SHOWN WITH OPTIONAL SEIZMIC ZONE 4 HOLD-DOWN LUGS. (PART #A11098)

REV.	DATE	REVISION DESCRIPTION	DRAWN	CHK'D	ENG'R

CUSTOMER:
XXXXXXXXX
XXXXXXXXX

DATE: 2-16-01

LOCATION:

SCALE: NONE

PROJECT No.

DRAWN: AJA

CHK'D:

ENG'R:

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U.S. FILTER
WESTATES

11711 Reading Road
Red Bluff. CA 96080

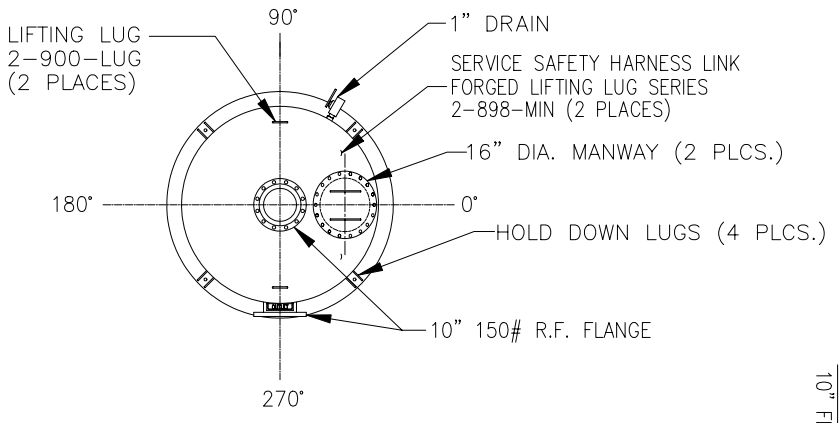
TITLE:

VAPOR SCRUB ASSEMBLY
VSC 2000

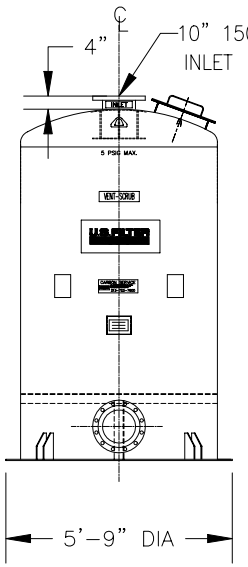
DWG No. VSC2000GENASSY.DWG REV.

STD: 2-0600-8X11A	INTL REF:	

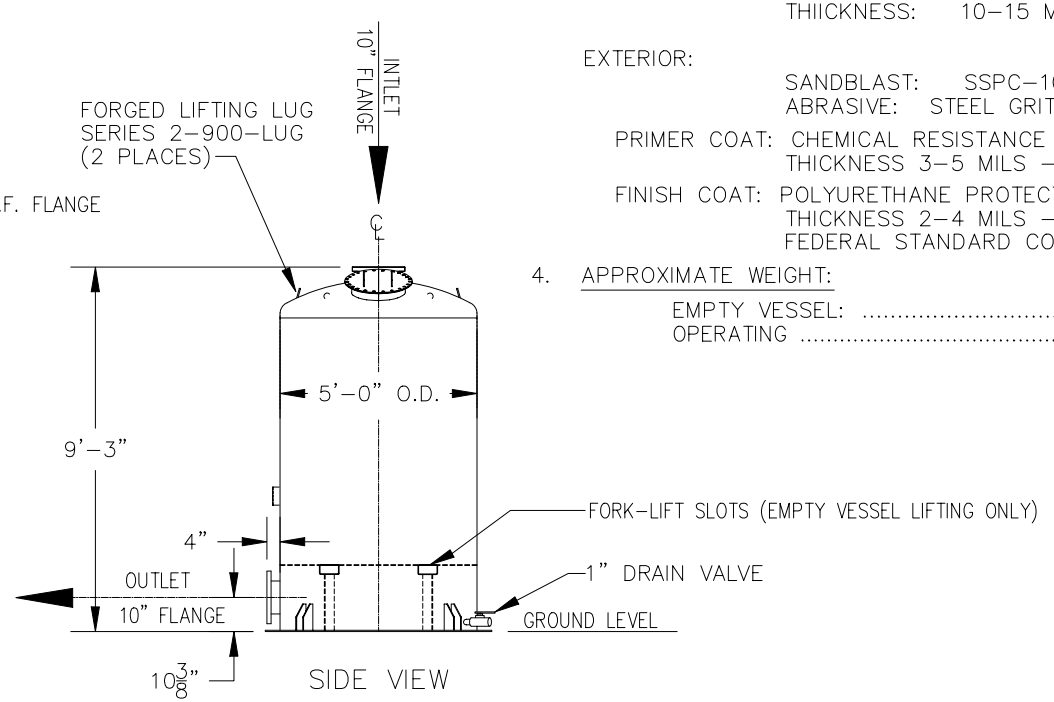
NOTES:



PLAN VIEW



ELEVATION VIEW



SIDE VIEW

1. DESIGN DATA:

   60" DIAMETER PRESSURE VESSEL – 5 PSIG (MAX.)
   @ 120°F – NOT ASME CODE STAMPED
   FOR VAPOR USE ONLY, MAX. FLOW = 1,500 CFM
   102 CU. FT. ACTIVATED CARBON

2. MATERIAL:

   CARBON STEEL

3. SURFACE PREPARATION:

   INTERIOR:
   SANDBLAST: SSPC-5 WHITE METAL
   ABRASIVE: STEEL GRIT – PROFILE 1.5-2.5 MILS
   COATING: CARBOLINE 891
   THIICKNESS: 10-15 MILLS – COLOR: WHITE

   EXTERIOR:
   SANDBLAST: SSPC-10 NEAR WHITE METAL
   ABRASIVE: STEEL GRIT – PROFILE 1.5-2.5 MILS
   PRIMER COAT: CHEMICAL RESISTANCE CATALYZED EPOXY COATING
   THICKNESS 3-5 MILS – COLOR: GREY
   FINISH COAT: POLYURETHANE PROTECTIVE FINISH
   THICKNESS 2-4 MILS – COLOR: WHITE
   FEDERAL STANDARD COLOR 17925

4. APPROXIMATE WEIGHT:

   EMPTY VESSEL: ..... 4,400 LBS
   OPERATING ..... 7,400 LBS

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DESIGNER	DATE
LLR	7-6-01
CHECKER	DATE
ENGINEER	DATE
MANAGER	DATE
FILE:	
SCALE: NONE	

TITLE VSC3000 GENERAL ASSEMBLY

CLIENT

USFilter

USFILTER/WESTATES
RED BLUFF, CA
1-800-795-2664

PROJECT	DRAWING	SHEET	REV
	VSC3000GENASSY	OF	