

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by: Vernon Mfg. Co. 8375 S. 89 W. Ave. Tulsa, OK 74131
(Name and address of manufacturer)

Manufactured for: Southwest Filter Co. P.O. Box 580608 Tulsa, OK 74158-0608
(Name and address of purchaser)

3. Location of installation Gaint Ind. Grafton, VA
(Name and address)

4. Type: Vert. 072130-9,-10 D-10611 1121, 1122 2007
(Horiz. or vert tank) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 2004
to 2006 -----
(Addenda (Date)) (Code Case Nos) (Special Service per UG-120 (d))

6. Shell SA-312-304L .375 .0625 11.250" 7'-8.625"
(Mat'l Spec. No. Grade) (Nom. Thk (in)) (Corr. Allow (in)) (Diam., I.D. (ft. & in.)) (Length (overall) (ft. & in.))

7. Seams: S ----- 1 Type 1 Spot 1 2
(Long (Welded, Dbl. Singl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (H.T. Temp. (°F)) (Time (hr)) (Girth (Welded, Dbl. Singl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (No. of Courses)

8. Heads: (a) Mat'l SA-182-304L (Bld Flg) (b) Mat'l SA-204-304L
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side/ Pressure (Convex /Concave)
(a)	Top	600#	.0625						22"	Flat
(b)	Btm	.328	.0625			2:1				Concave

If removable, bolts used (describe other fastenings) (20) 1 1/4" x 8 3/4" lg SA-193-B7 Studs w/2 SA-194-2H nuts ea.
(Mat'l Spec. No., Grade, Size, No.)

9. MAWP 712 ----- psi at max temp. 275 ----- °F
(internal) (external) (internal) (external)

Min. design metal temp. 0 °F at 712 psi. Hydro. pneu., or comb. test press. 927 psi

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l	Nom. Thk	Reinforcement Material	How Attached	Location
Inlet/Outlet	2	3" 600#	RFWN	SA-182/SA-312-304L	.300	Integral	UW-16.1(c)	Shell
Drain	1	1 1/2" 600#	RFWN	SA-182/SA-312-304L	.281	Integral	UW-16.1(c)	Btm Hd
Vent/Relief	1	1 1/2" 600#	RFWN	SA-182/SA-312-304L	.281	Integral	UW-16.1(c)	Top Bld.
LG	2	2" 600#	RFWN	SA-182/SA-312-304L	.344	Integral	UW-16.1(c)	Shell
Closure	1	12"	RFWN	SA-182-304L	600#	Integral	UW-16.1(c)	Shell

11. Supports: Skirt NO Lugs Legs 3 Other Wld
(Yes or No) (No.) (No.) (No.) (Describe) (Where and How)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:
(Name of part, item number, Mfg's name and identifying stamp)
Exempt from Impact Testing Per UHA-51 Safety Relief by Others

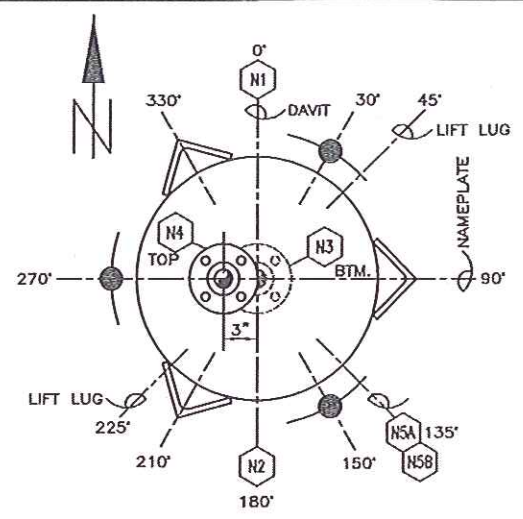
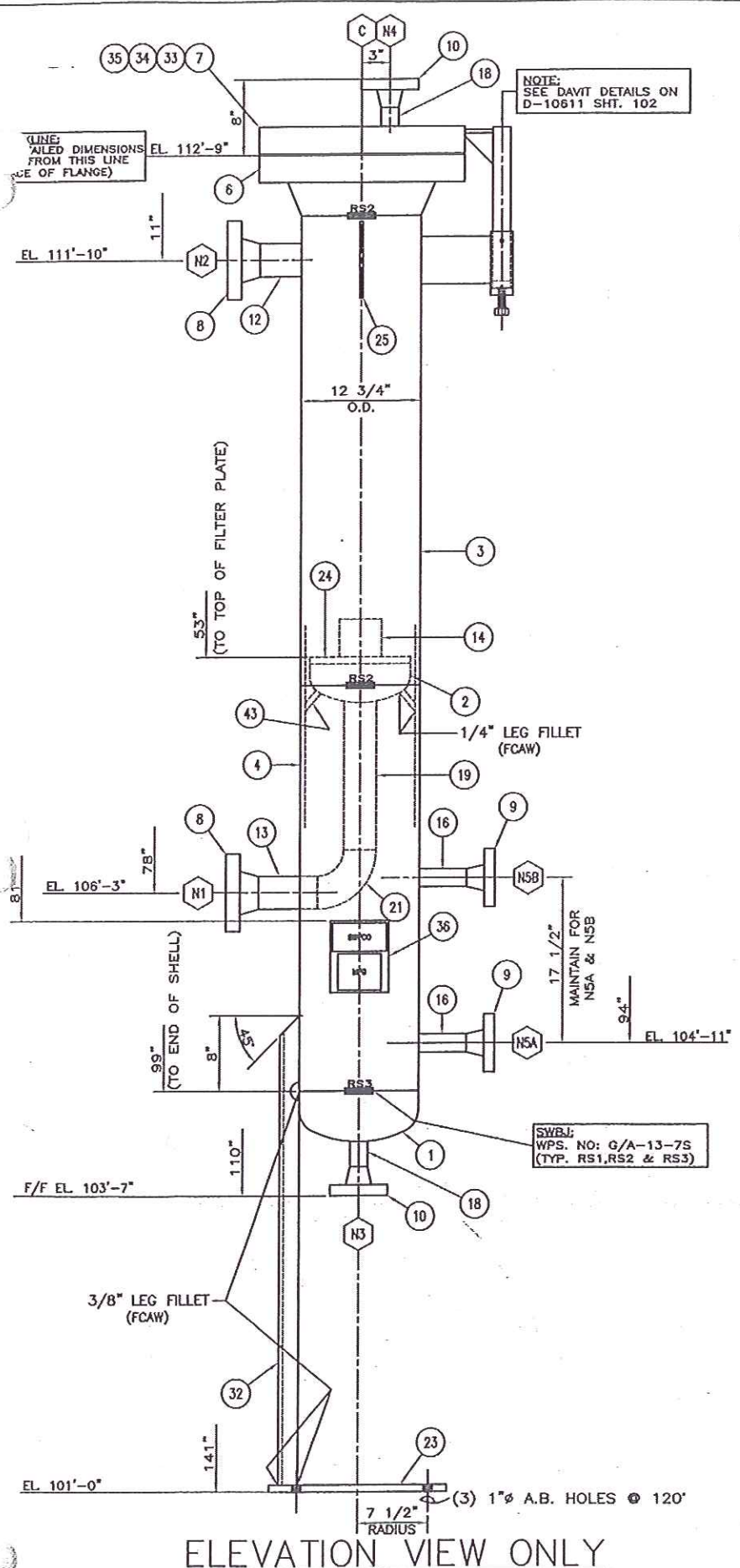
CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. U Certificate of Authorization No. 20654
expires 11-1-09
Date 8-3-2007 Co. Name Vernon MFG. Co. Signed Vernon E. Binkley
(Manufacturer) (Representative)

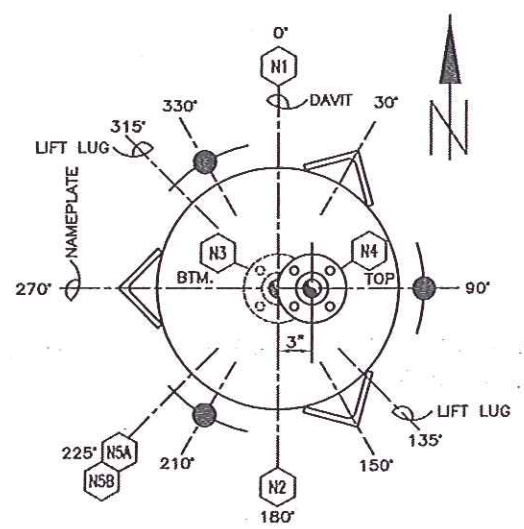
CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Vernon MFG. Co. at Tulsa, OK
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of OKLAHOMA and employed by SENECA INSURANCE COMPANY OF HOUSTON, TEXAS
have inspected the component described in this Manufacturer's Data Report on 8-3-07, and state that,
to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1, and that the undersigned, in signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel this described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Date 8-3-07 Signed Ray Binkley Commissions NB12997A OK939
(Authorized Inspector) (Nat'l Board (incl endorsements) State, Prov. and No.)

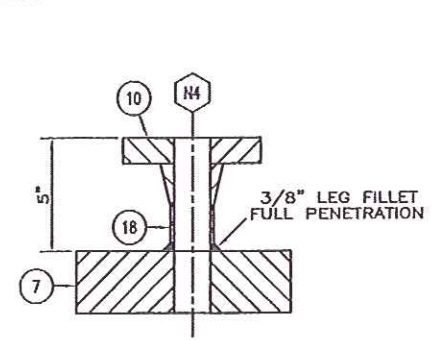




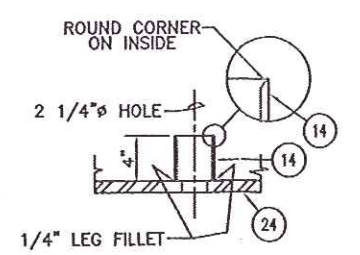
TRUE PLAN VIEW
ITEM: J-686A



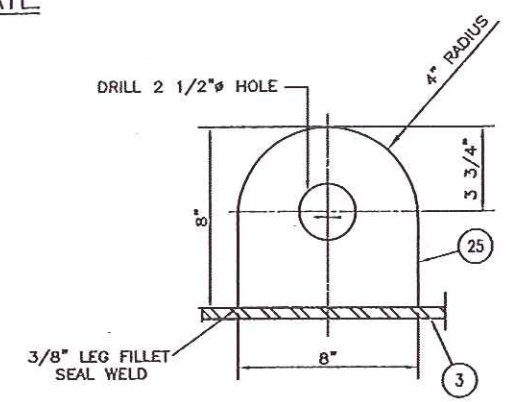
TRUE PLAN VIEW
ITEM: J-686B



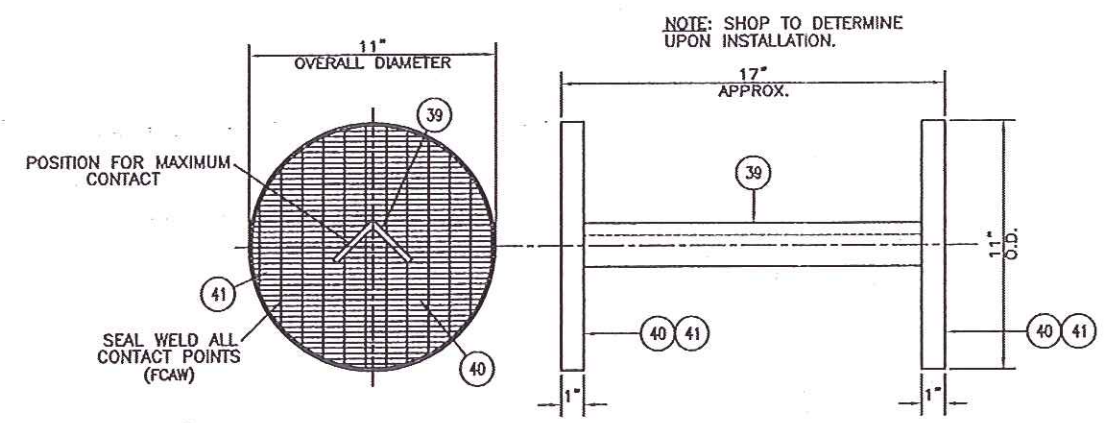
VENT DETAIL



STANDPIPE DETAIL



LIFT LUG VIEW



POSITIONER SPOOL DETAIL
(CARBON STEEL EPOXY COATED)

CERTIFIED
AS BUILT
SOUTHWEST FILTER COMPANY
BY WZ DATE 8/20/07

■ WPS. NO.: G/A-13-7S										● WPS. NO.: F-15-7S										
C	CLOSURE	12"	600#	RFWN		I	SWBJ													W/ BUND,BOLTING, & GASKET
N5A/B	LG	2"	600#	RFWN	FLUSH	8"	I II	SWBJ	●				3/8"	●						
N4	VENT/RELIEF	1.5"	600#	RFWN	SIZE DETAIL	8"	I	II	SWBJ	●			3/8"	●						
N3	DRAIN	1.5"	600#	RFWN	ORND FLUSH	SIZE ELEVAT.	I	II	SWBJ	●			3/8"	●						
N2	OUTLET	3"	600#	RFWN	ORND FLUSH	8"	-I	II	SWBJ	●			3/8"	●						
N1	INLET	3"	600#	RFWN	FLUSH	8"	I	II	SWBJ	●			3/8"	●					SWBJ ●	
		IN	LBS		THK x O.D.	IN	()					LED FILET		LED FILET		LED FILET				
					INSIDE	OUTSIDE	WELD DETAIL		TYPE	WPS NO.	SIZE/TYPE	WPS NO.	SIZE/TYPE	WPS NO.	SIZE/TYPE	WPS NO.	TYPE	WPS NO.	SET BACK	
ITEM	SERVICE	SIZE	RATING	TYPE	ADPAD	PROJECTION	DRAWING NO		WELD "A"		WELD "B"		WELD "C"		WELD "D"		WELD "E"		DIMENSION "H"	REMARKS

BILL OF MATERIAL FOR ONE VESSEL				
ITEM NO.	QTY.	DESCRIPTION - PART	MATERIAL	HEAT NO.
1	1	HEAD: 12 3/4" OD (320" H ₂ O 2:1 ELLIP. W/ 8" R.F.	S218-S304	
2	1	HEAD: 10 3/4" OD (300" H ₂ O 2:1 ELLIP. W/ 2" R.F.	S218-S304	
3	1	SHELL: 12" SCH STD (375" WALL) = 40 5/8" LG.	S218-S304	
4	1	SHELL: 12" SCH STD (375" WALL) = 43" LG.	S218-S304	
5	1	FLANGE: 12" - 800# RFW (SCH STD BORE)	S218-S304	
6	1	FLANGE: 12" - 800# RF BLND	S218-S304	
7	2	FLANGE: 3" - 800# RFW (SCH STD BORE)	S218-S304	
8	2	FLANGE: 2" - 800# RFW (SCH STD BORE)	S218-S304	
9	2	FLANGE: 1 1/2" - 800# RFW (SCH STD BORE)	S218-S304	
10	2	FLANGE: 1 1/2" - 800# RFW (SCH STD BORE)	S218-S304	
11	1	PIPE: 3" SCH 40 (300" WALL) = 8" LG.	S218-S304	
12	1	PIPE: 3" SCH 40 (300" WALL) = 6 5/8" LG.	S218-S304	
13	1	PIPE: 3" SCH 10 (120" WALL) = 4" LG.	304 S.S.	
14	2	PIPE: 2" SCH 40 (154" WALL) = 8" LG.	S218-S304	
15	2	PIPE: 2" SCH 10 (344" WALL) = 8" LG.	S218-S304	
16	1	PIPE: 1 1/2" SCH 40 (145" WALL) = 10 1/4" LG.	S218-S304	
17	1	PIPE: 1 1/2" SCH 10 (361" WALL) = 4" LG.	S218-S304	
18	1	PIPE: 3" SCH 40 (300" WALL) = 16 5/8" LG.	S218-S304	
21	1	ELBOW: 3" - 90° LR (SCH 40)	S218-S304	
23	1	PLATE: 3/4" THK x 12" D x 18" OD	S218-S304	
24	1	PLATE: 3/4" THK x 10" OD	S218-S304	
25	1	PLATE: 3/4" THK x 8" WIDE x 8" LG.	S218-S304	
26	1	PLATE: 3/8" THK x 3" WIDE x 3" LG.	S218-S304	
27	1	PLATE: 3/8" THK x 3" WIDE x 3 5/16" LG.	S218-S304	
28	1	PLATE: 3/8" THK x 8" WIDE x 7 3/8" LG.	S218-S304	
29	1	PLATE: 3/4" THK x 2" O.D. (SHOP TO FIT TO 1 1/2" PIPE)	S218-S304	
30	1	PLATE: 3/4" THK x 2 3/8" O.D. (SHOP TO FIT TO 2" PIPE)	S218-S304	
32	3	ANGLE: 2" x 2" x 1/4" = 40 1/4 LG. (APPROX. SHOP TO DETAIL)	304L	
33	3	CHANNEL: 12" - 800# RF, 1/8" THK, SPWAL WOUND w/3048S INDOORS &	NON-ASSURON FILLER	
34	30	FLAT BARS: 1 1/4" x 8 3/4" LG.	8183-87	
35	60	HEAVY HEX BOLTS: 1 1/4"	8184-89	
37	2	WASHERPLATE: (1) SUPCO & (1) SUPPL. W/ BRACKET	85/CS	
38	1	ORANGE FITTING	R.S.	
39	1	ANGLE: 1 1/2" x 1 1/2" x 1/4" = 15" LG. (APPROX. SHOP TO DETAIL)	C.B.	
40	2	ORWING: 3/16" = 1" x 10 3/4" OD	C.B.	
41	A/R	FLAT BAR: 1/8" THK x 1" WIDE x 28" LG.	C.B.	
42	1	ANCHOR BOLT: 3/4" x 3" LG.	C.B.	
43	2	PLATE: 3/8" THK x A/R	C.B.	

BILL OF MATERIAL FOR (1) VESSEL
(2) REQUIRED.

THIS VESSEL IS IN
HYDROGEN SERVICE.

NOTES CONTINUED:

12. HYDRO CHART REQUESTED
13. PMI VERIFICATION REQUESTED ON THE FOLLOWING:
CR. N. & C.
14. WELD EXAMINABLE BEFORE PMI BEFORE
FABRICATION. (1. TEST FOR HEAT LOT)
PMI EXAMINED:
- RAIL
- NOZZLE H1 - BOTH INSERTION WELD & BURN TO
PIPE WELD
- ALL PMI TEST TO BE TAKEN ON THE OUTSIDE OF
THE WELD BECAUSE INSIDE IS UNACCESSIBLE.
MATCHED TO THE PMI EXAMINED (PREPARE FABRICATION)
- RAIL PIPE
- HEAD
- 10" - SCOE BURN & BURN
- (1) 3" - SCOE BURN
- (1) 3" NOZZLE PIPE
- (1) 3" BURN & NOZZLE PIPE
- (1) 1 1/2" BURN & NOZZLE PIPE
- (1) ANGLE SUPPORT LEG
LOCALIZATION REQUESTED

CUSTOMER: GAINT IND. (D-COK)
ITEM NO.: J-686A/B
P.O. NO.: 56603-P-13-19
LOCATION: GRAFTON, VIRGINIA

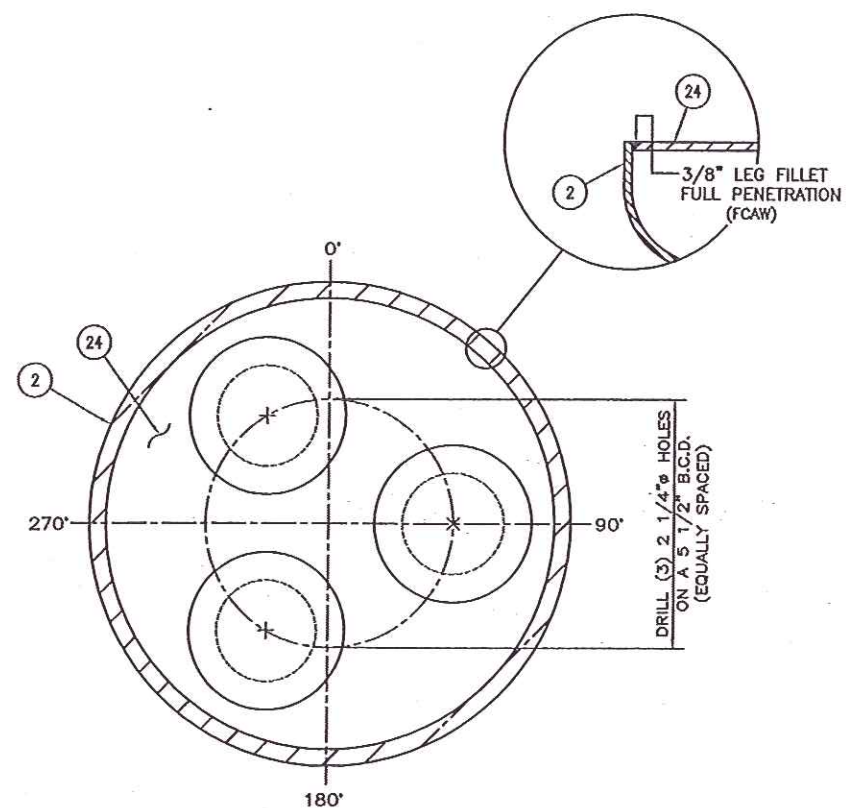
REDUCTION GAS
FILTER/COALESCER

	REVISED PER CUSTOMER COMMENT. (MM) 8-1-07

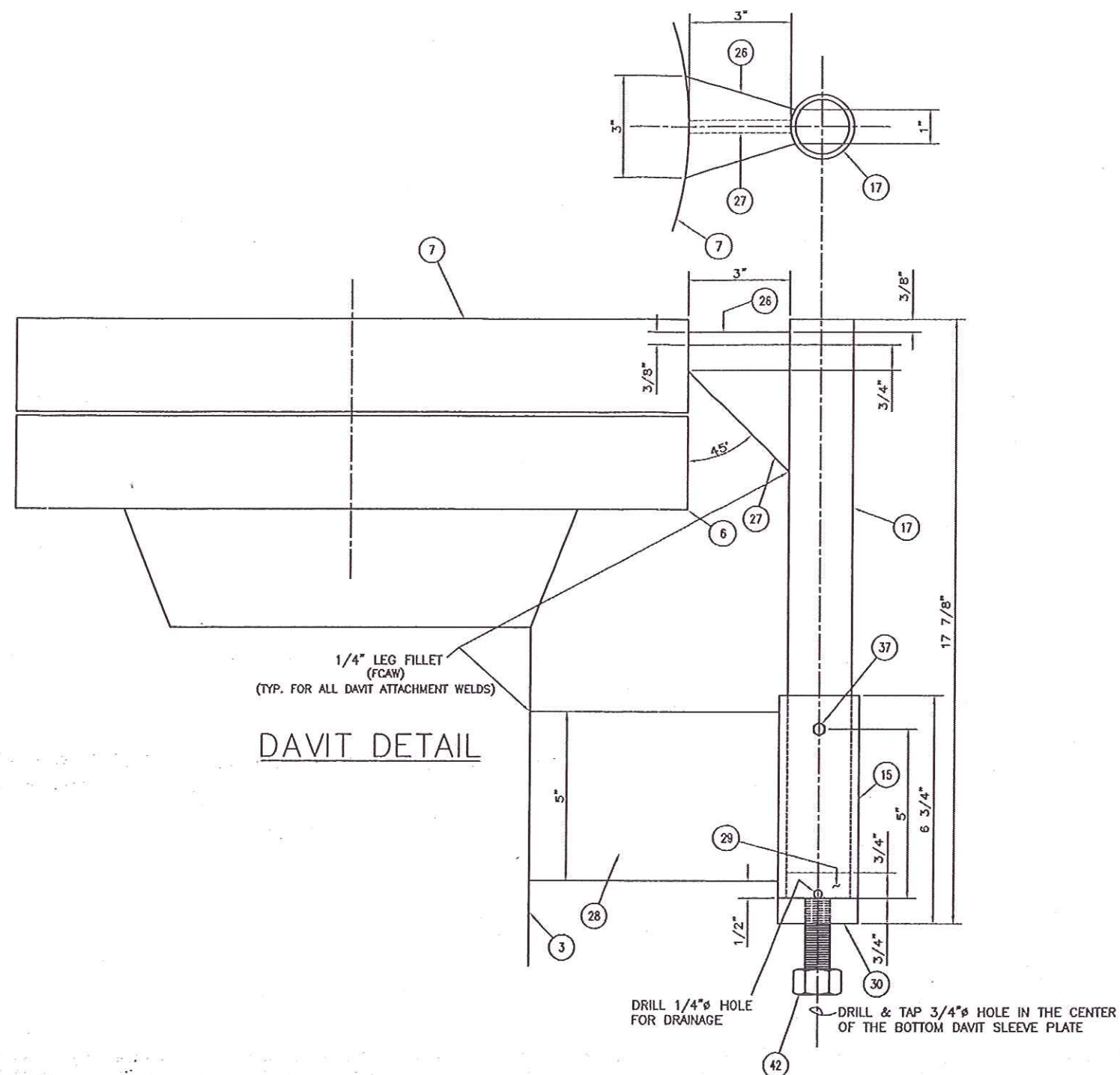
SOUTHWEST FILTER COMPANY
TULSA, OKLAHOMA

MODEL 121VGC COALESCER

10607	SERIAL NO.: 3257/3258	DRG NO.: D-10611	REV. 1 REV. 101
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FILTER PLATE LAYOUT



CERTIFIED
AS BUILT
SOUTHWEST FILTER COMPANY
BY UAB DATE 8/20/07

CUSTOMER: GANT IND. (D-COK)			
ITEM NO.: J-688A/B			
P.O. NO.: 55603-P-13-19			
LOCATION: GRAFTON, VIRGINIA			
DETAILS			
REV.			
REV.			
REV.			
SOUTHWEST FILTER COMPANY TULSA, OKLAHOMA			
DATE	APPROVED BY	DESIGN BY	REVISION
2-14-07		MWM	
JOB NO.	SERIAL NO.	DWG NO.	REV.
J-10607	3257/3258	D-10611	0
			PAGE 102