

ITEM	QUANTITY	MATERIAL	DESCRIPTION	NORMALIZED	IMPACT TEST	PWHT
1	1	SA-516 70 NORM W/IMPACTS	CYLINDER - 42" ID x 1 3/4" WALL x 5'-0" LG	YES	YES	YES
2	1	SA-516 70 NORM W/IMPACTS	CYLINDER - 42" ID x 1 3/4" WALL x 10'-0" LG	YES	YES	YES
3	2	SA-516 70 NORM W/IMPACTS	2:1 HEAD - 42" ID x 1.65" MIN (1 3/4" NOM) THICK, 2" SF	YES	YES	YES
4	1	SA-105	NOZZLE FLANGE - 2" 600# RFLWN x 12" LG	NO	NO	YES
5	1	SA-105	NOZZLE FLANGE - 3" 600# RFHB (NUT RELIEF) x 10" LG	NO	NO	YES
6	1	SA-105	NOZZLE FLANGE - 3" 600# RFHB (NUT RELIEF) x 13" LG	NO	NO	YES
7	2	SA-105	NOZZLE FLANGE - 2" 600# RFWN, BORE = SCH 160 WITH BLIND FLANGE/GASKET AND BOLTING	NO	NO	YES
8	4	SA-105	NOZZLE FLANGE - 2" 600# RFWN, BORE = SCH 160	NO	NO	YES
9	-	-	DELETED	-	-	-
10	1	SA-105	NOZZLE FLANGE - 2" 600# RFLWN x 12" LG WITH BLIND FLANGE/GASKET AND BOLTING	NO	NO	YES
11	1	SA-105	NOZZLE FLANGE - 4" 600# RFHB (NUT RELIEF) x 12" LG	NO	NO	YES
12	1	SA-105	NOZZLE FLANGE - 6" 600# RFHB (NUT RELIEF) x 12" LG WITH BLIND FLANGE/GASKET AND BOLTING	NO	NO	YES
13	1	SA-105	NOZZLE FLANGE - 6" 600# RFHB (NUT RELIEF) x 14" LG WITH BLIND FLANGE/GASKET AND BOLTING	NO	NO	YES
14	1	SA-105	NOZZLE FLANGE - 8" 600# RFHB (NUT RELIEF) x 12" LG	NO	NO	YES
15	1	SA-105	NOZZLE FLANGE - 8" 600# RFHB (NUT RELIEF) x 14" LG	NO	NO	YES
16	2	SA-105	CPLG - 0.75" 6000# x 4" LG (TOE)	NO	NO	YES
17	7'-7"	SA-106 B SMLS PIPE	NOZZLE NECK - 2" SCH 160	NO	NO	YES
18	-	-	DELETED	NO	NO	YES
19	2	SA-234-WPB	STRAIGHT TEE - 2" SCH 160	NO	NO	YES

MAJOR COMPONENT DESIGN DATA	
VESSEL DESIGNED PER THE 2010 EDITION OF THE ASME CODE SECTION VIII DIVISION 1, A11 ADDENDA.	CODE STAMP: REQ'D SERIAL NO: LATER NATIONAL BOARD NO: LATER
DESIGN PRESSURE INTERNAL: 1440 PSI @ 120 DEG F	DESIGN PRESSURE EXTERNAL: N/A
HYDRO TEST: 1872 PSI @ 70 DEG F	
MAWP: 1440 PSI	
MAP: 1440 PSI	
MDMT: -20 DEG F	PWHT: REQ'D
CORROSION ALLOWANCE: 1/8"	
RADIOGRAPH: HEAD/SHELL: FULL UW-11(g)	JOINT EFFICIENCY: HEAD/SHELL: 1.0
SHELL CIRC: FULL UW-11(g)	SHELL CIRC: 1.0
SHELL LONG: FULL UW-11(g)	SHELL LONG: 1.0
ESTIMATED WEIGHT: FABRICATION: 16,419 LBS	
EMPTY: 16,419 LBS	
TEST: 26,354 LBS	
OPERATING: 26,344 LBS	
INSULATION: NONE	INSPECTION BY:

NATIONAL BOARD No <u>LATER</u>	
CERTIFIED BY SPITZER INDUSTRIES, INC. HOUSTON, TEXAS USA	
U	
W	MAX ALLOWABLE WORKING PRESSURE 1440 PSI AT 120 DEG F
RT-1	MIN DESIGN METAL TEMPERATURE -20 DEG F AT 1440 PSI
HT	MAX EXTERNAL PRESSURE - PSI AT - DEG F
JOB No	J4852-601
YEAR BUILT	2014
ITEM NUMBER	V-100
HYDRO-TEST AT	1872 PSI
C.A.	1/8" EST WEIGHT 16,419 LBS
SERIAL NUMBER	XX
	XX

J4852-01 S#: 14-74

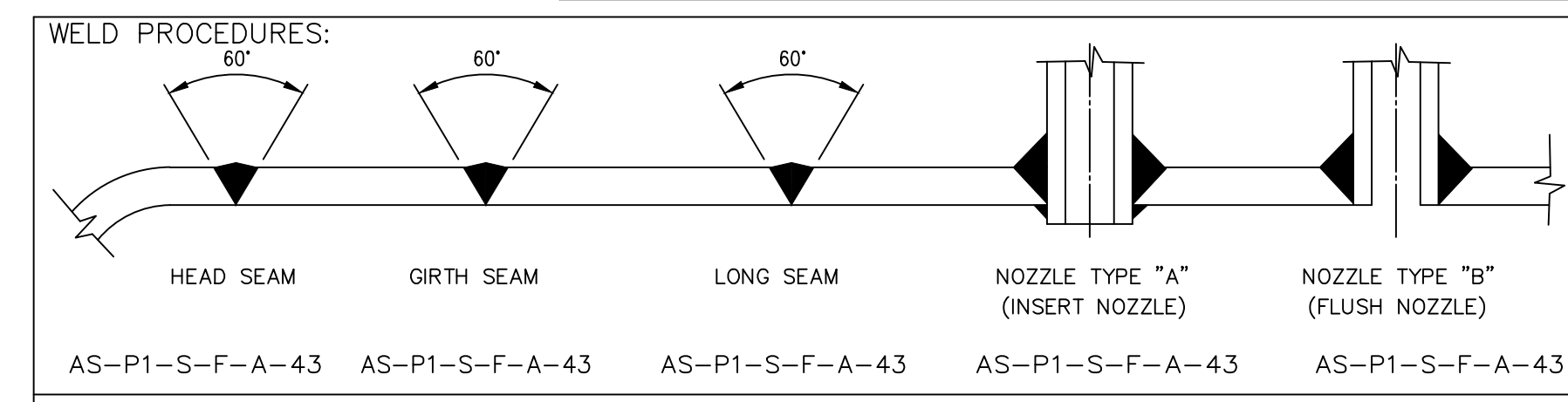
**APPROVED FOR CONSTRUCTION**

Spitzer Industries, Inc.

**PRODUCTION COUPON REQUIRED**

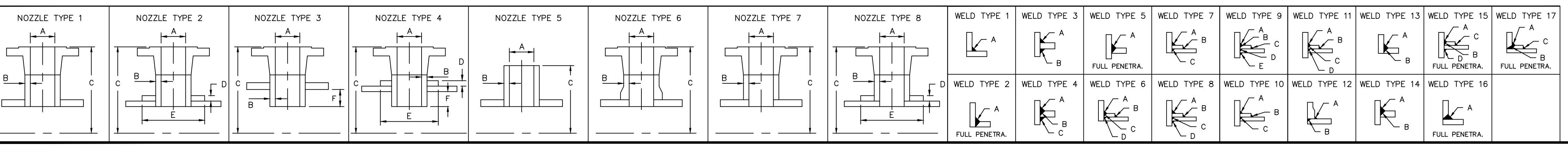
MARK	IDENTIFIER	SIZE	TYPE	CLASS	TYPE	A	B	C	D	E	F	TYPE	A	B	C	D	E
L2B	OIL BRIDLE	2	WN	600#	1	1.687	.344	ELEV	-	-	DET'L	2	.375	-	-	-	-
L2A	OIL BRIDLE	2	WN	600#	1	1.687	.344	30.75	-	-	-	2	.375	-	-	-	-
L1B	WATER BRIDLE	2	WN	600#	1	1.687	.344	ELEV	-	-	-	2	.375	-	-	-	-
L1A	WATER BRIDLE	2	WN	600#	1	1.687	.344	30.75	-	-	-	2	.375	-	-	-	-
N13	TI	0.75	CPLG	6000#	1	1.05	.35	24.75	-	-	-	2	.375	-	-	-	-
N12	PI	0.75	CPLG	6000#	1	1.05	.35	24.75	-	-	-	2	.375	-	-	-	-
N11	HANDHOLE	6	HB	600#	3	5.76	2.06	ELEV	-	-	1.4375	14	.375	1.65	-	-	-
N10	HANDHOLE	6	HB	600#	3	5.76	2.06	30.75	-	-	1.6875	5	.375	-	-	-	-
N9	DRAIN	2	WN	600#	1	1.687	.344	ELEV	-	-	DET'L	2	.375	-	-	-	-
N8	DRAIN	2	WN	600#	1	1.687	.344	ELEV	-	-	-	2	.375	-	-	-	-
N7	DRAIN	2	LWN	600#	1	2	.655	30.75	-	-	-	2	.375	-	-	-	-
N6	DRAIN	2	LWN	600#	1	2	.655	30.75	-	-	-	2	.375	-	-	-	-
N5	PSV	4	HB	600#	1	3.83	1.615	30.75	-	-	-	2	.375	-	-	-	-
N4	OIL OUTLET	3	HB	600#	3	2.9	1.24	30.75	-	-	3	5	.375	-	-	-	-
N3	WATER OUTLET	3	HB	600#	1	2.9	1.24	30.75	-	-	-	2	.375	-	-	-	-
N2	GAS OUTLET	8	HB	600#	3	7.62	2.16	30.75	-	-	1.375	5	.375	-	-	-	-
N1	INLET	8	HB	600#	3	7.62	2.16	ELEV	-	-	1	14	.375	1.65	-	-	-
FLANGE		NOZZLE STYLE						WELD									
NOZZLE SCHEDULE																	

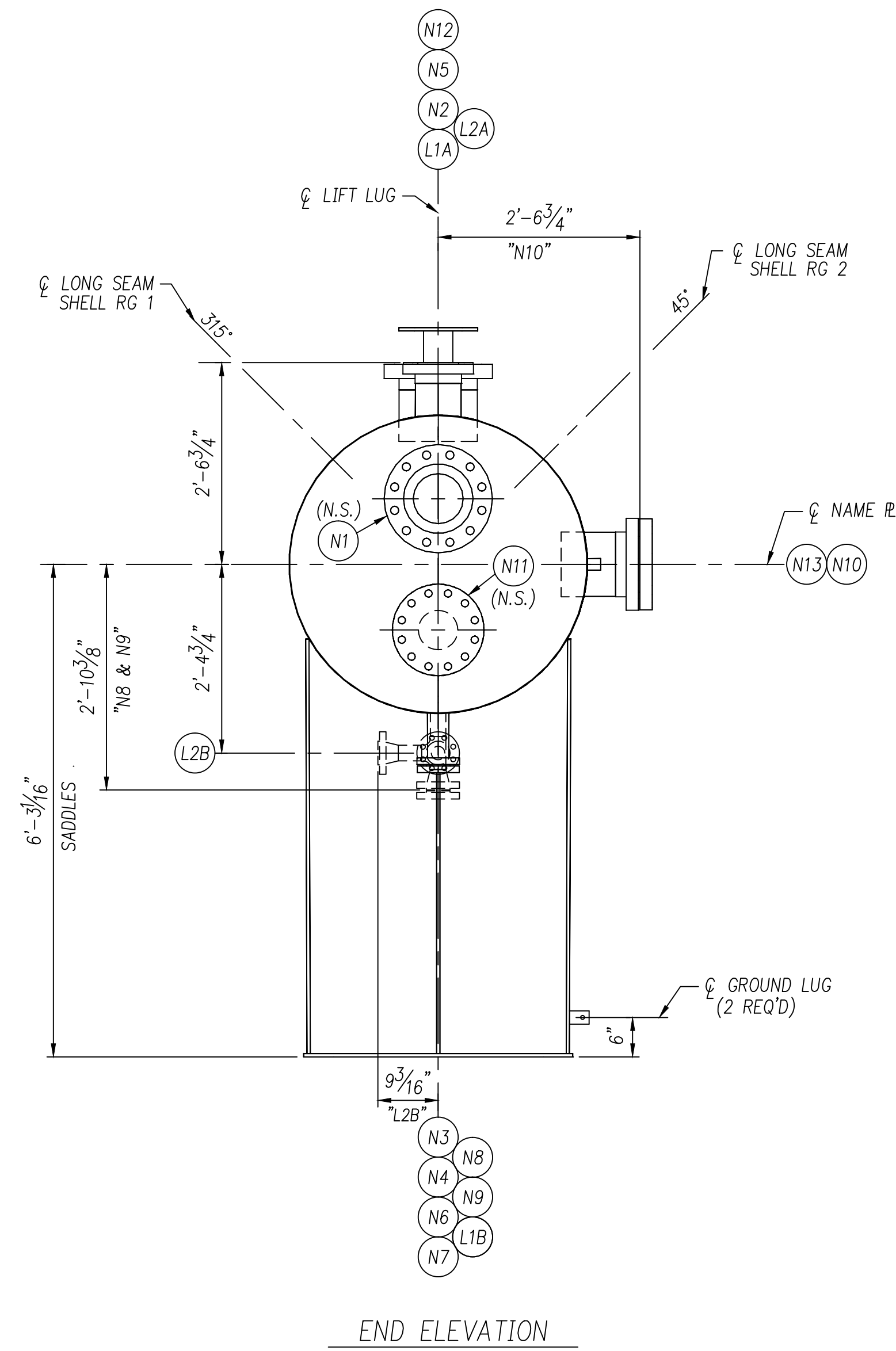
- GENERAL NOTES:
- FLANGE BOLT HOLES SHALL STRADDLE NORMAL VESSEL CENTERLINES UNLESS NOTED.
  - WELDS SHALL BE NEAT IN APPEARANCE, FREE OF SLAG, UNDERCUTS AND OTHER DEFECTS.
  - NOZZLE AND TAIL DIMENSION TOLERANCES SHALL BE +/- 1/8 INCH UNLESS OTHERWISE NOTED.
  - REINFORCING PADS AND PAD SECTIONS SHALL HAVE 1/4 INCH NPT WEEP HOLE LOCATED AS LOW AS POSSIBLE IN THE PAD WHEN THE VESSEL IS IN OPERATING POSITION. PLUG WEEP HOLE WITH HEAVY GREASE.
  - VESSEL SHALL BE CLEANED OF SCALE, OIL, WELD SPATTER AND ALL OTHER FOREIGN MATTER BEFORE HYDROSTATIC TESTING.
  - MAGNETIC PARTICLE EXAMINATION REQUIRED FOR LIFT LUG WELDS.
  - PROTECT ALL MACHINED AND THREADED CONNECTIONS WITH RUST PREVENTATIVE AND INSTALL PROTECTORS BEFORE SHIPMENT.
  - VESSEL TO BE FABRICATED PER NACE MR-01-75.
  - ALL EXTERNAL VESSEL SURFACES PER 008584-001-TS-G-001 SECTION 5.0: SURFACE PREP: SSPC-SP10 PRIMER: SHERWIN WILLIAMS MACROPOXY 646-100, 4.0-6.0 MILS D.F.T., COLOR: WHITE FINISH: SHERWIN WILLIAMS ACROLON 218, 3.0-6.0 MILS D.F.T.



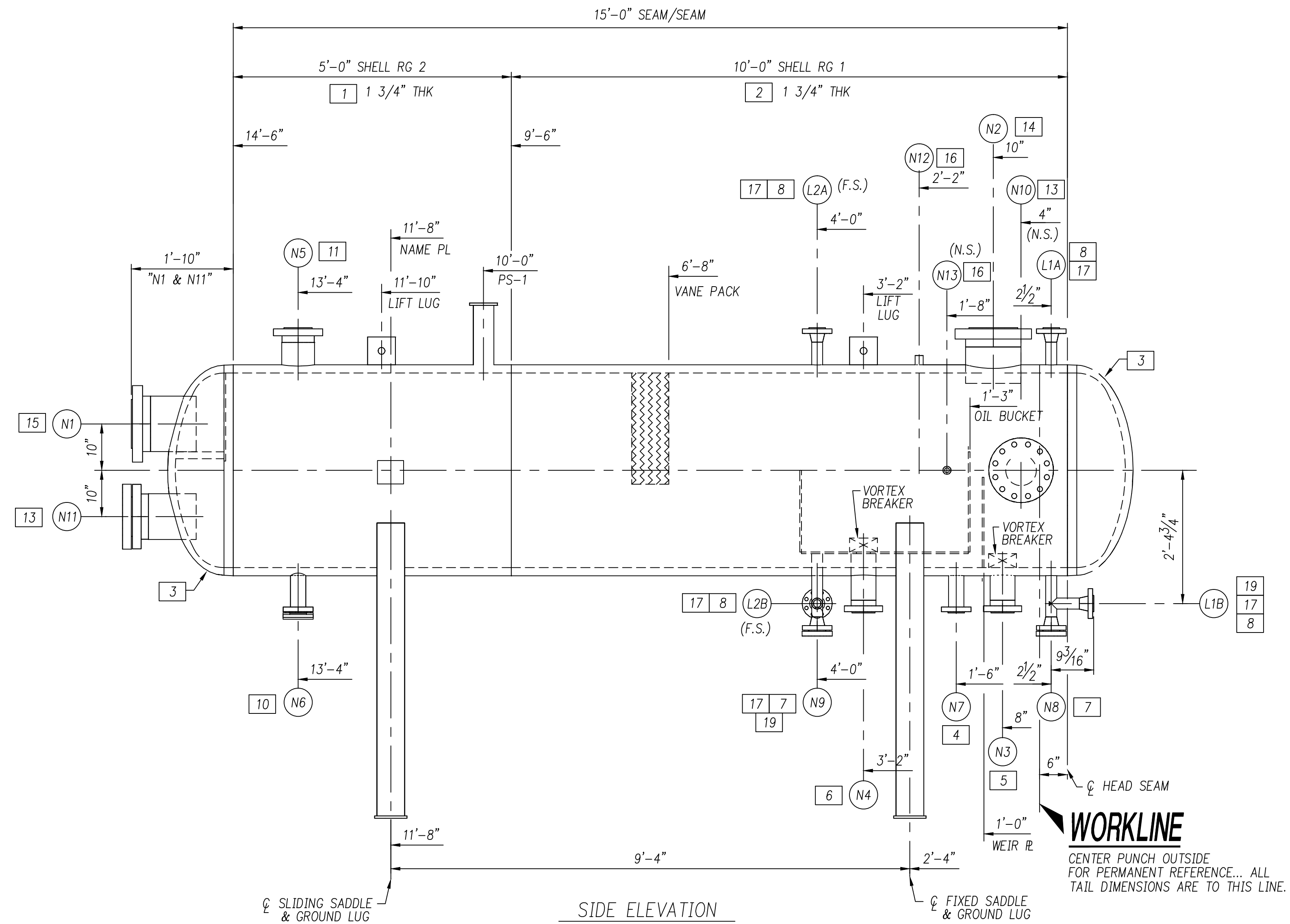
MATERIAL	
HEADS SA-516-70 NORM W/IMPACTS	SHELL SA-516-70 NORM W/IMPACTS
REINF. PAD N/A	SUPPORTS SA-516-70
FLANGES SA-105	CPLGS. N/A
PIPE SA-106B	FITTINGS N/A
STUDS SA-193-B7	NUTS SA-194-2H
GASKETS FLEXITALLIC "CG", 304SS WOUND, NON-ASBESTOS FILLER	

TOLERANCES (EXCEPT AS NOTED)	PROPRIETARY INFORMATION	<p>SPITZER INDUSTRIES, INC. HOUSTON, TEXAS USA</p>
FRACTIONAL ± 1/16"	THIS DRAWING IS THE PROPERTY OF SPITZER INDUSTRIES, INC. AND SHALL NOT BE USED FOR ANY OTHER PURPOSE THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED WITHOUT WRITTEN APPROVAL.	
DECIMAL ± 0.0625"		PROJECT ANADARKO / AUDUBON
ANGULAR SMALLER OF ± 1/2° OR 3/8°		P.O. NUMBER:      ITEM NO. V-100
		TITLE 3-PHASE HORIZONTAL SEPARATOR 42" ID x 15'-0" SEAM/SEAM
ISSUED FOR CONSTRUCTION	1/23/14 JB MAK	DRAWN DATE CHECKED DATE SCALE
ISSUED FOR APPROVAL	12/3/13 MLR MAK	MLR 12/3/13 MAK 12/3/13
		JOB NO. SHEET NO. DRAWING NO. REV
		J4852-601 1 OF 4 J4852-601-1 0





END ELEVATION



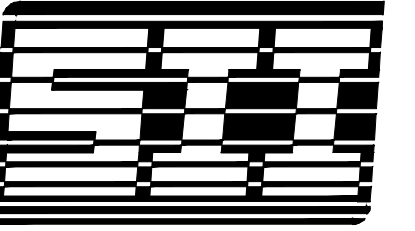
SIDE ELEVATION

**WORKLINE**  
 CENTER PUNCH OUTSIDE  
 FOR PERMANENT REFERENCE... ALL  
 TAIL DIMENSIONS ARE TO THIS LINE.

**PRODUCTION COUPON REQUIRED**

**APPROVED FOR  
CONSTRUCTION**

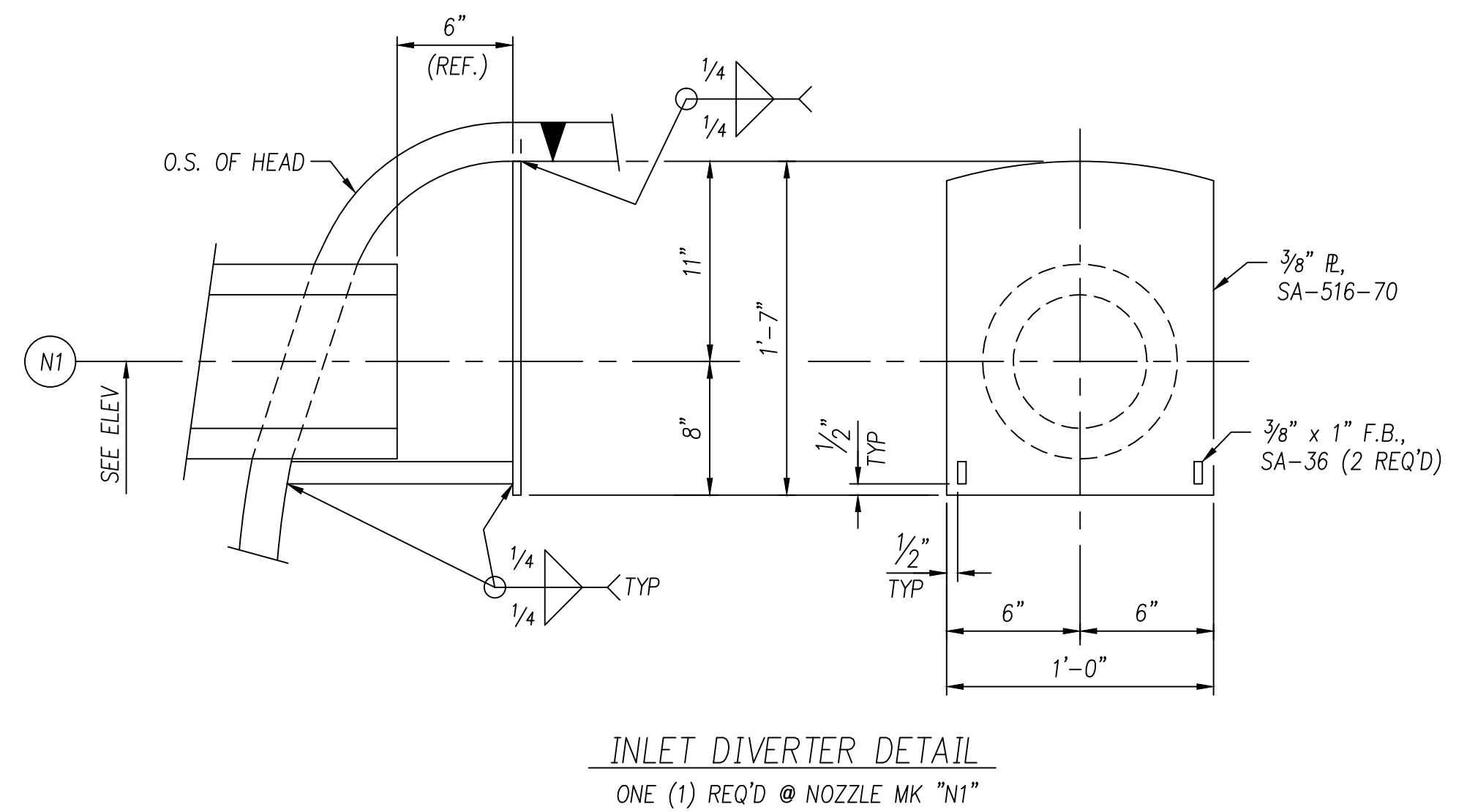
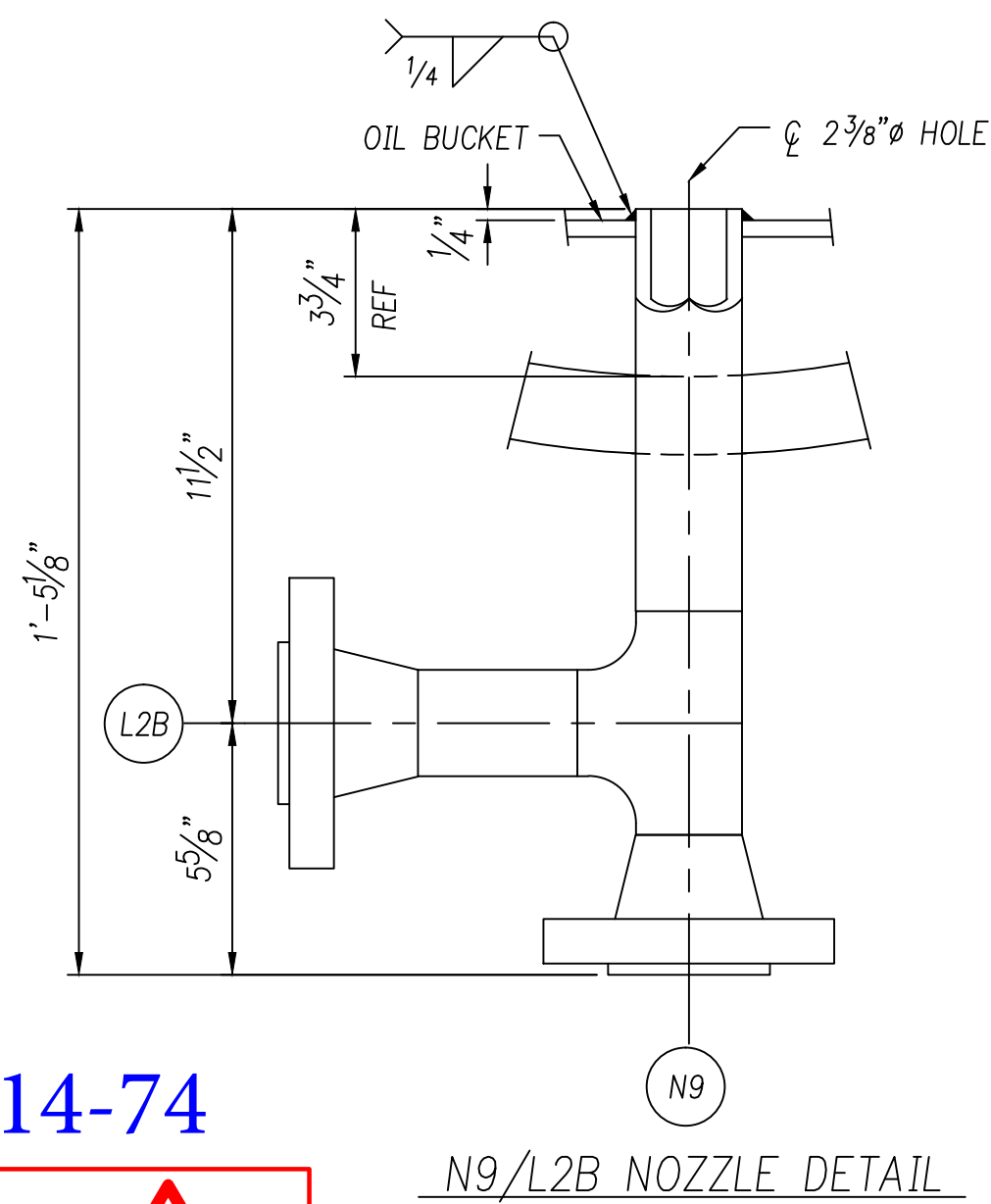
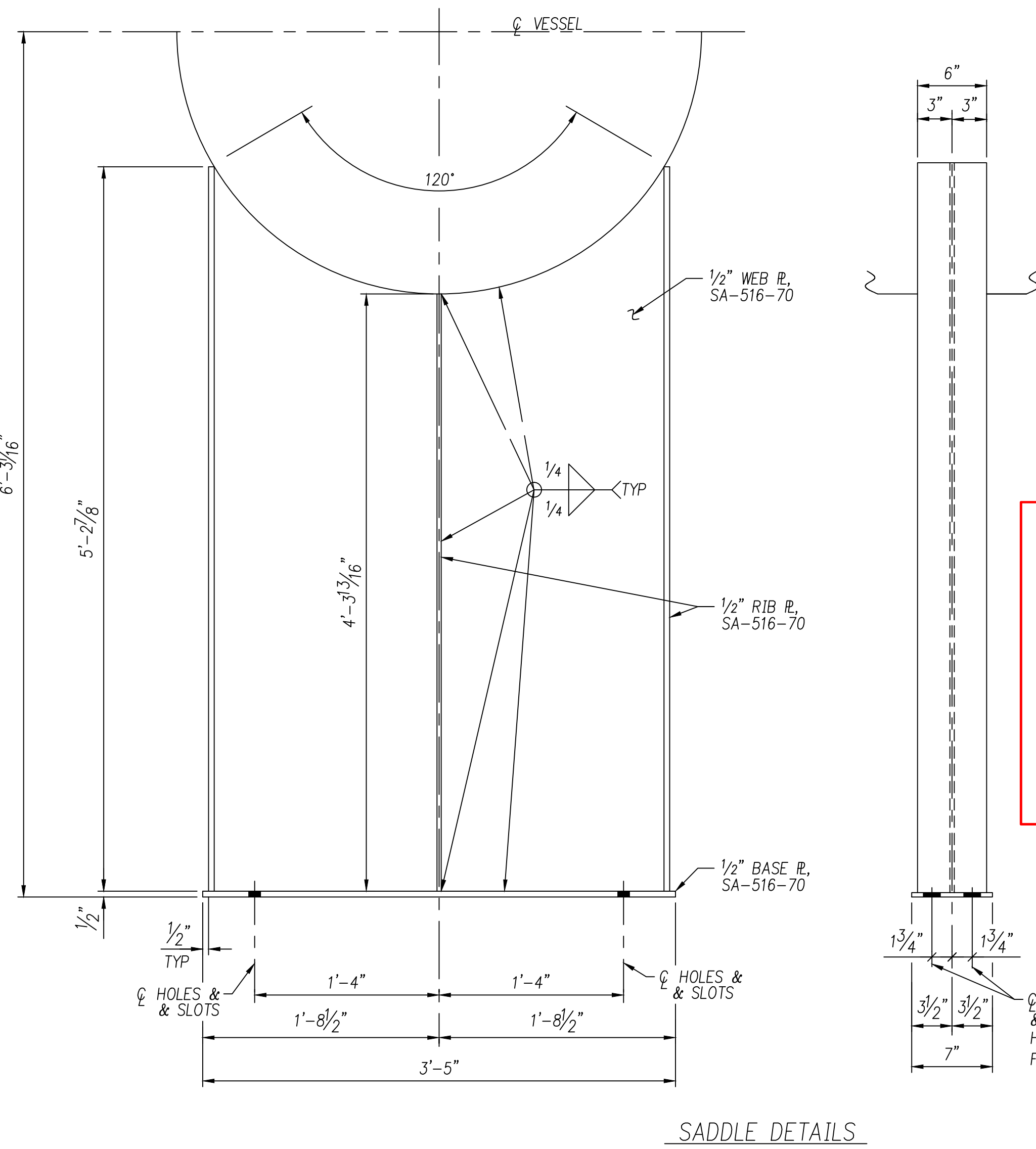
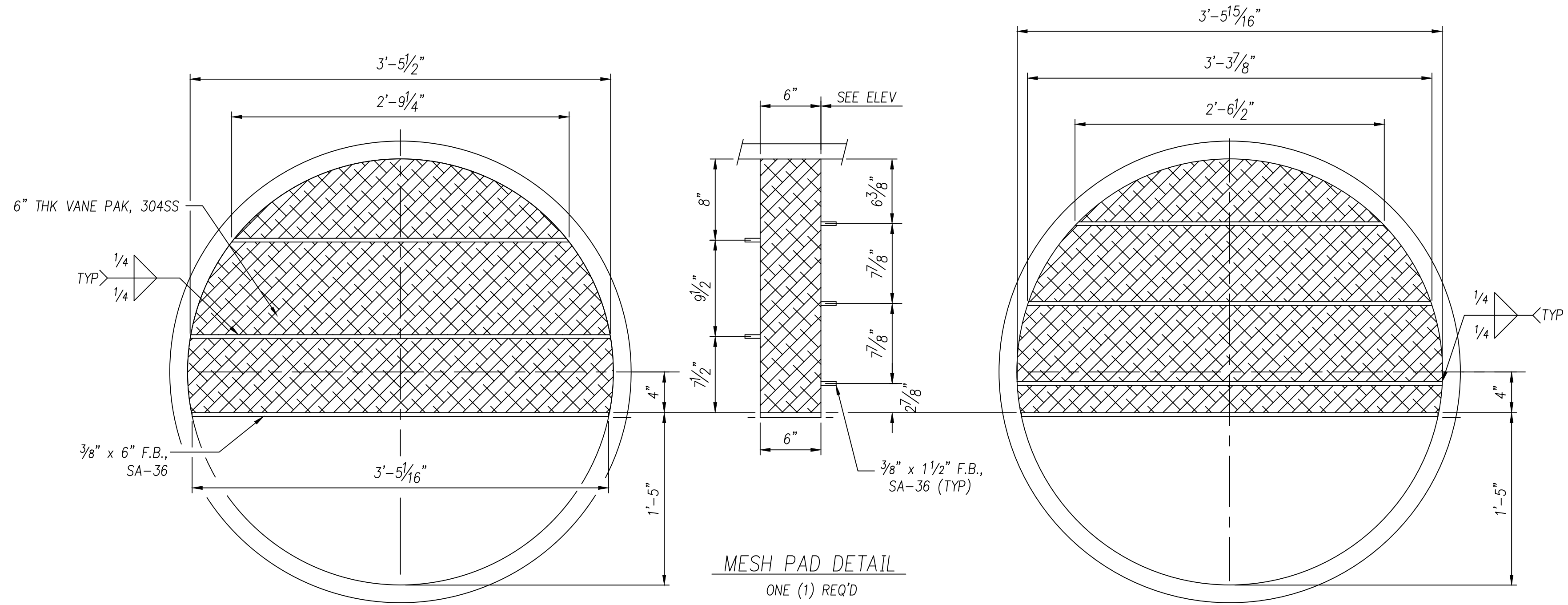
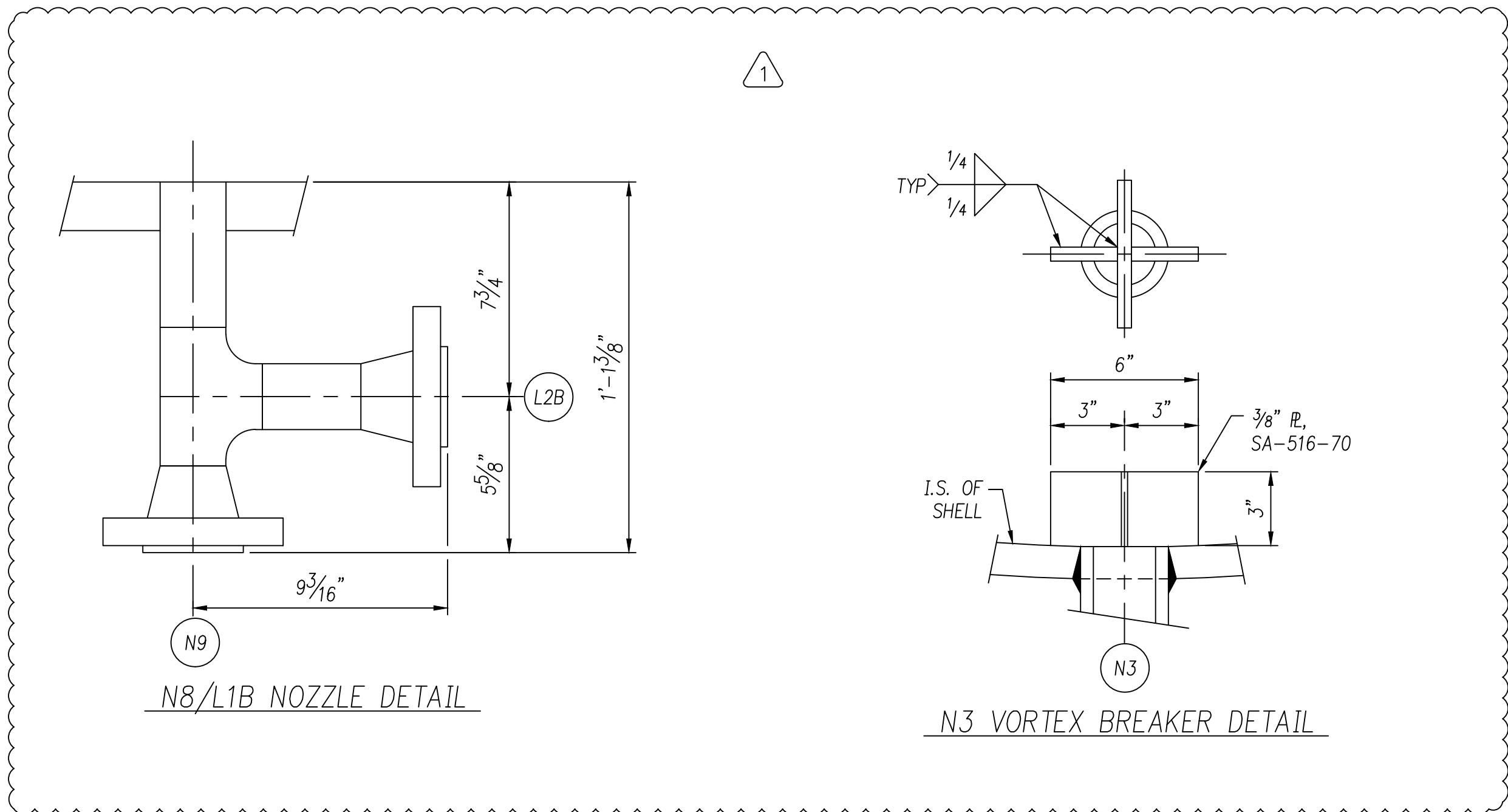
Spitzer Industries, Inc.



**SPITZER INDUSTRIES, INC.**  
HOUSTON, TEXAS USA

PROJECT		ANADARKO / AUDUBON	
P.O. NUMBER:	ITEM NO.	V-100	
TITLE			
3-PHASE HORIZONTAL SEPARATOR 42" ID x 15'-0" SEAM/SEAM			
DRAWN	DATE	CHECKED	DATE
MLR	12/3/13	MAK	12/3/13
JOB NO.		SHEET NO.	DRAWING NO.
J4852-601		2 OF 4	J4852-601-2
REV	NO	DATE	BY
0			CK

NO	REVISION	DATE	BY	CK	JOB NO.	SHEET NO.	DRAWING NO.	REV
					J4852-601	2 OF 4	J4852-601-2	0



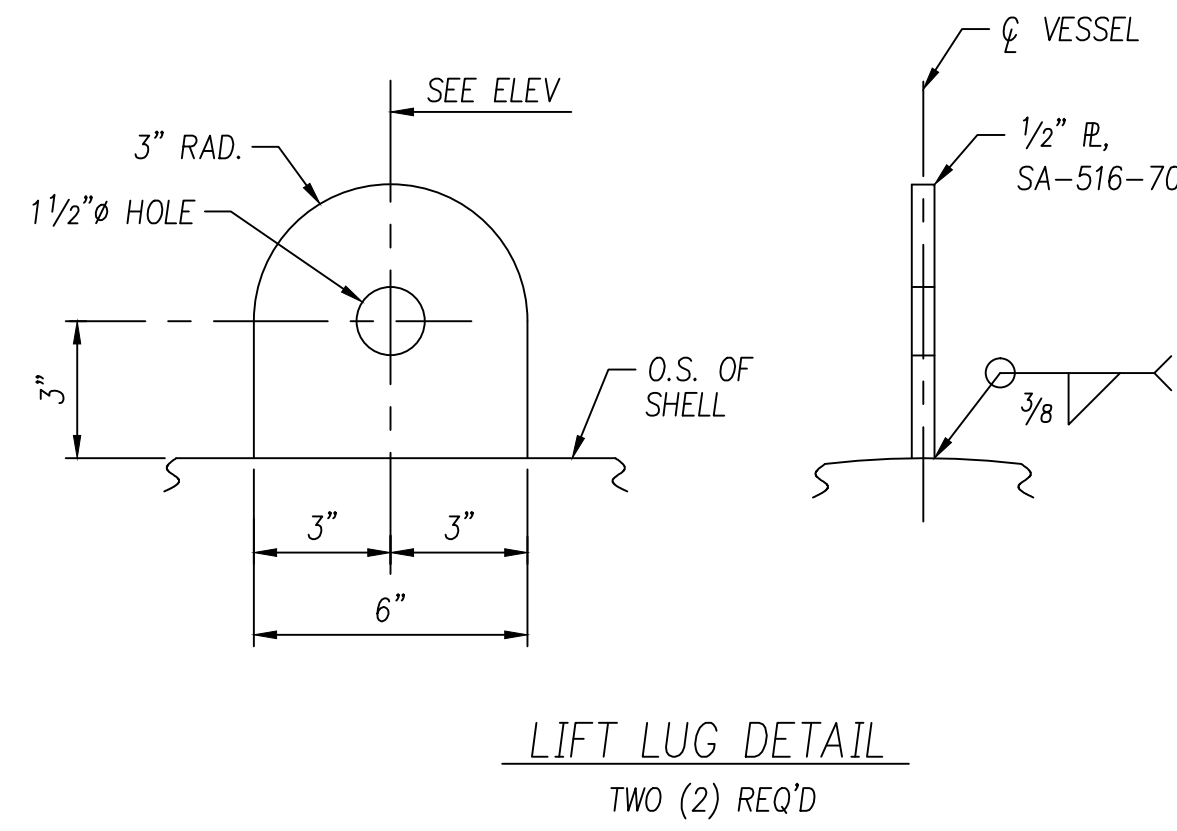
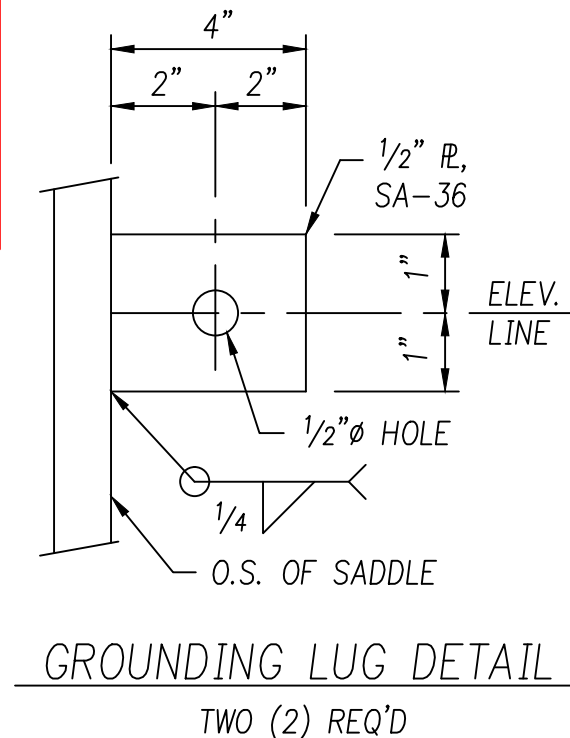
**J4852-01 S#: 14-74**

**Revised Drawing**

**APPROVED FOR CONSTRUCTION**

**4852-JP 1/30/14**

Spitzer Industries, Inc. **JDG**



**PRODUCTION COUPON REQUIRED**

**SPITZER INDUSTRIES, INC.  
HOUSTON, TEXAS USA**

PROJECT: ANADARKO / AUDUBON

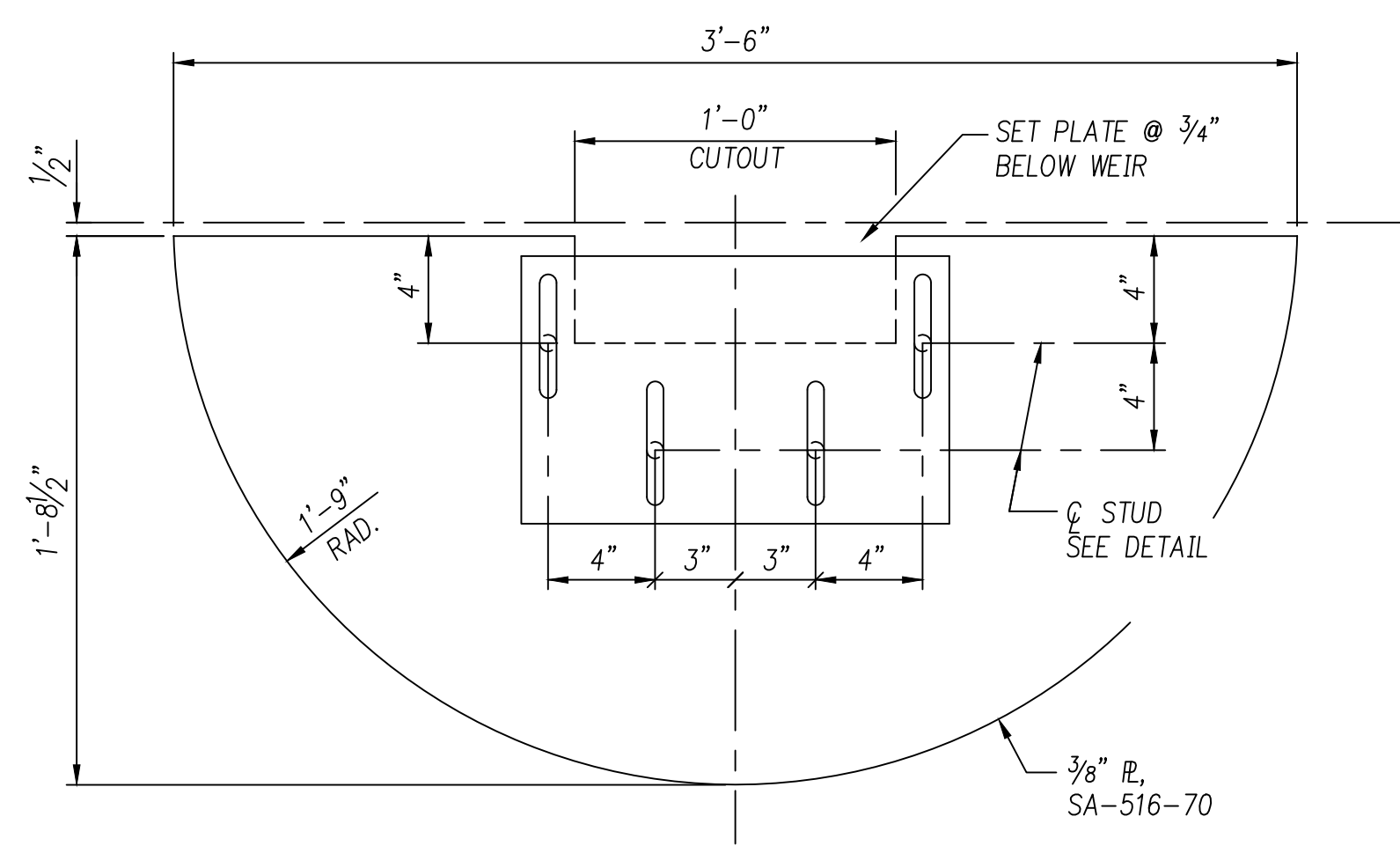
P.O. NUMBER: V-100

ITEM NO. V-100

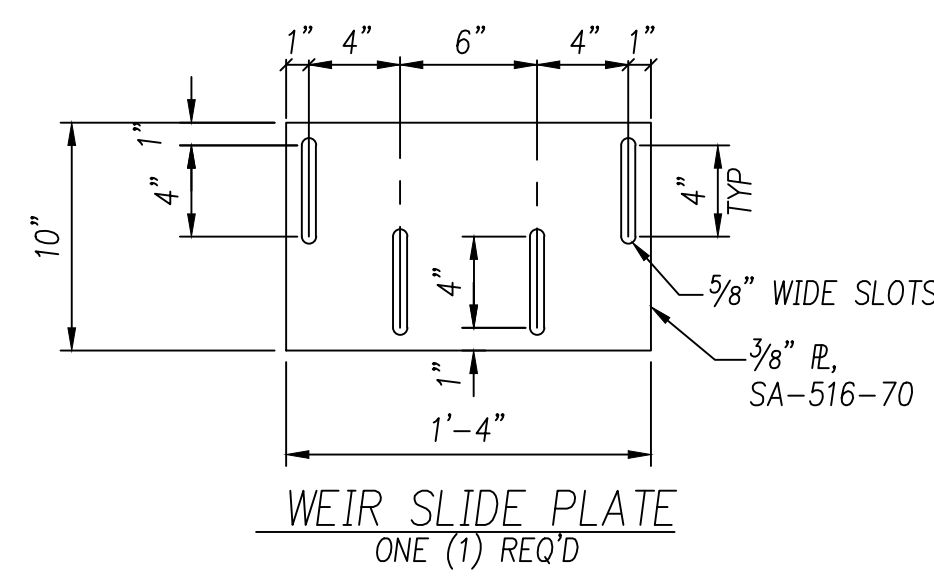
TITLE: 3-PHASE HORIZONTAL SEPARATOR  
42" ID x 15'-0" SEAM/SEAM

DRAWN	DATE	CHECKED	DATE	SCALE
MLR	12/3/13	MAK	12/3/13	
JOB NO.	SHEET NO.	DRAWING NO.	REV	
J4852-601	3 OF 4	J4852-601-3	1	

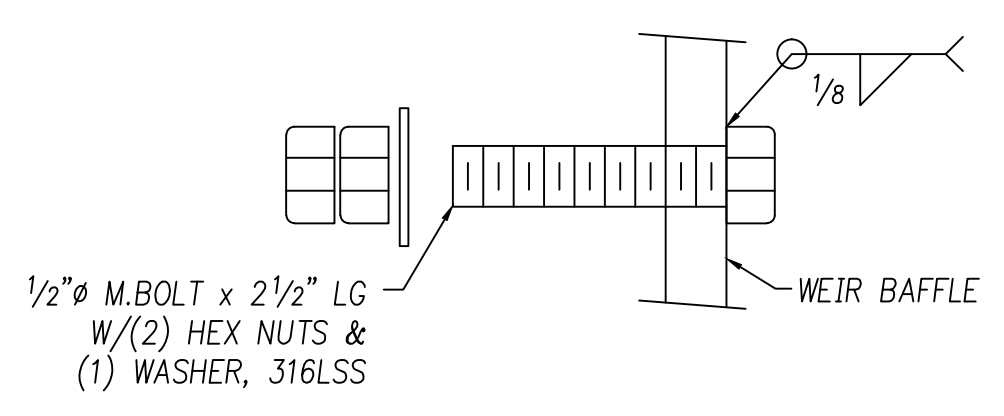
ADDED DETAILS	1/30/14	JB	MAK		
ISSUED FOR CONSTRUCTION	1/23/14	JB	MAK		
ADDED N9/L2B DETAIL	1/13/14	MLR	MAK		
ISSUED FOR APPROVAL	12/3/13	MLR	MAK		
NO	REVISION	DATE	BY	CK	



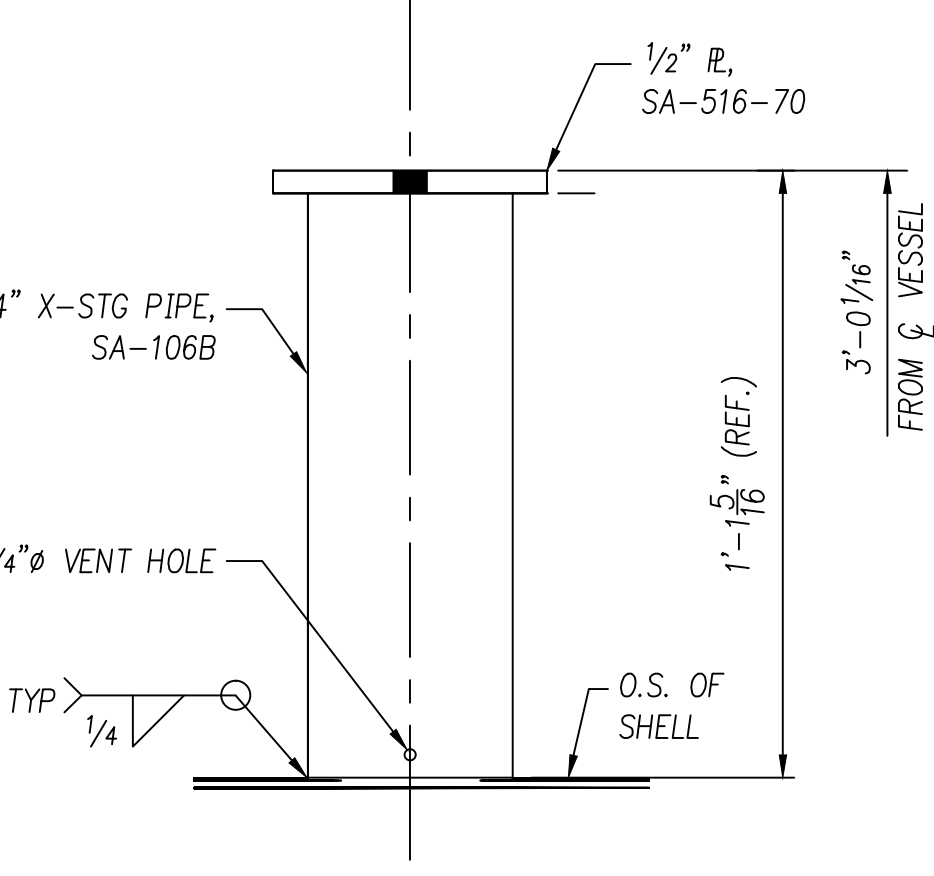
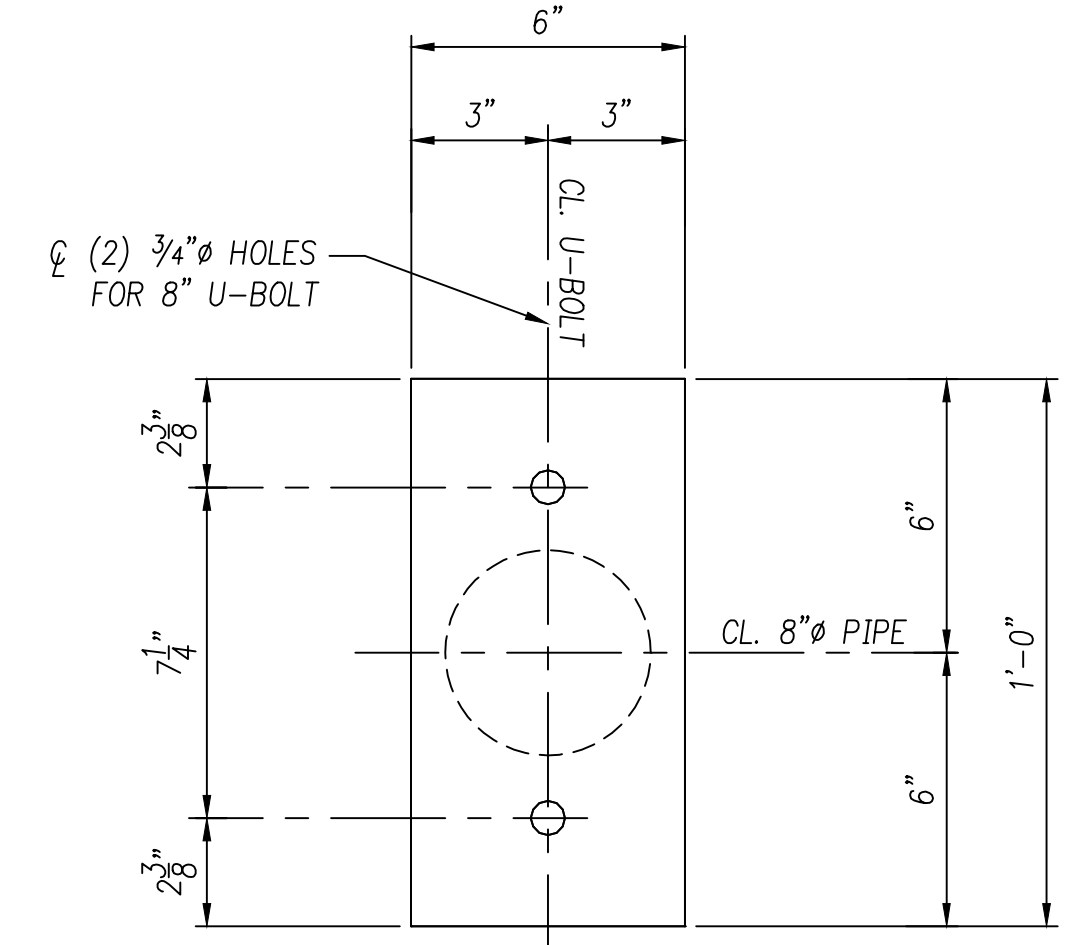
DETAIL OF WEIR PLATE  
ONE (1) REQ'D



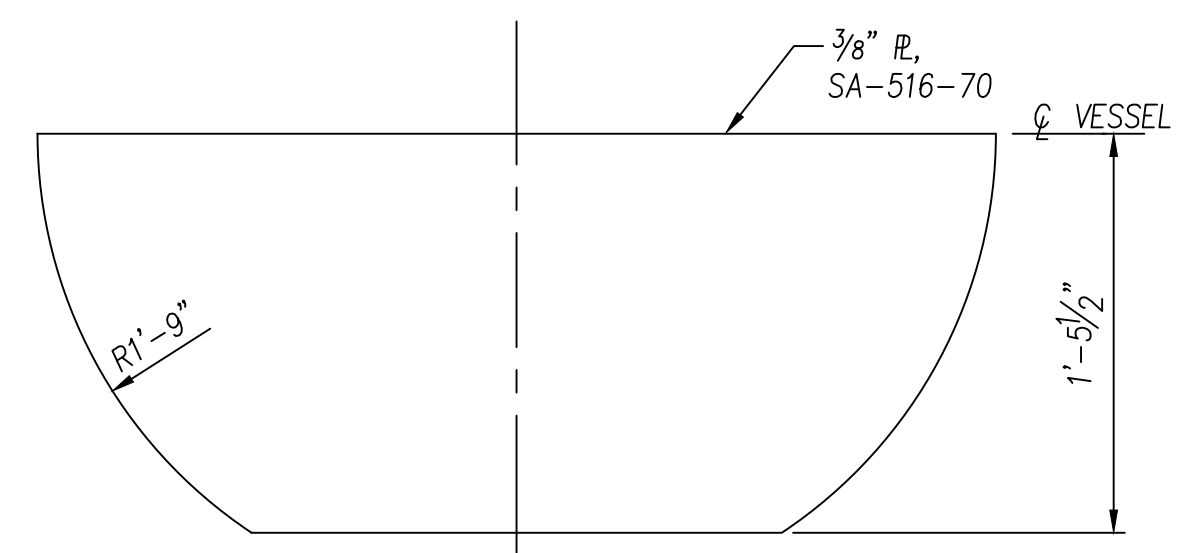
WEIR SLIDE PLATE  
ONE (1) REQ'D



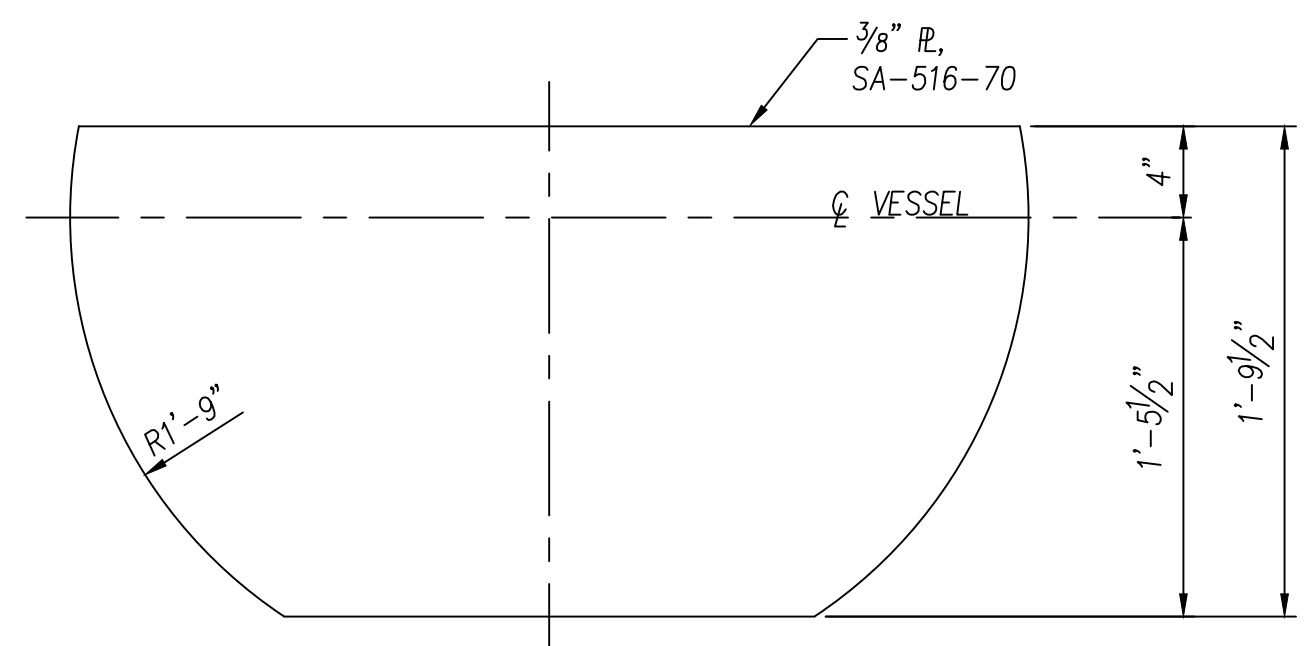
STUD DETAIL  
(4) REQ'D



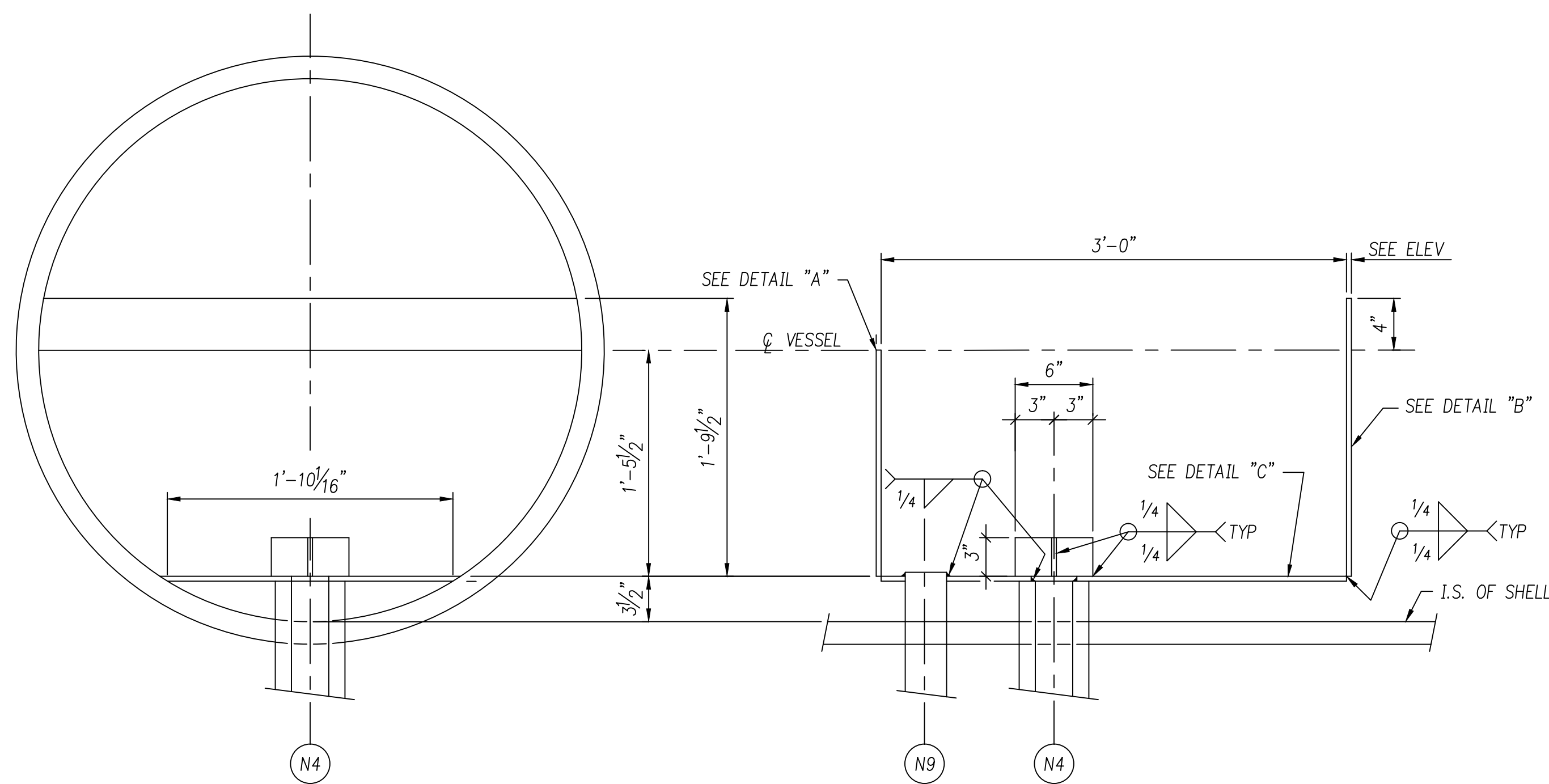
DETAIL OF PIPE SUPPORT MK "PS-1"  
ONE (1) REQ'D



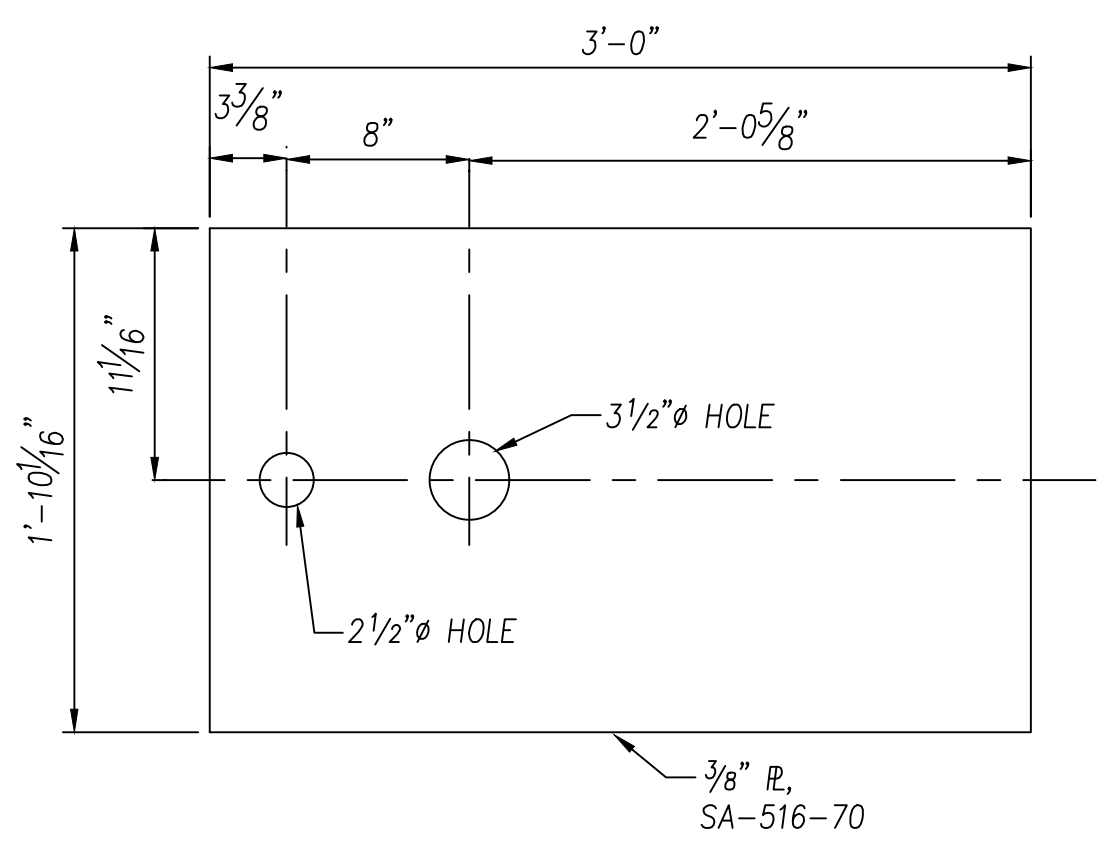
DETAIL "A"



DETAIL "B"



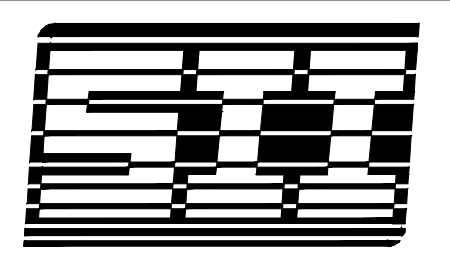
OIL BUCKET ASSEMBLY



DETAIL "C"

**APPROVED FOR  
CONSTRUCTION**

Spitzer Industries, Inc.

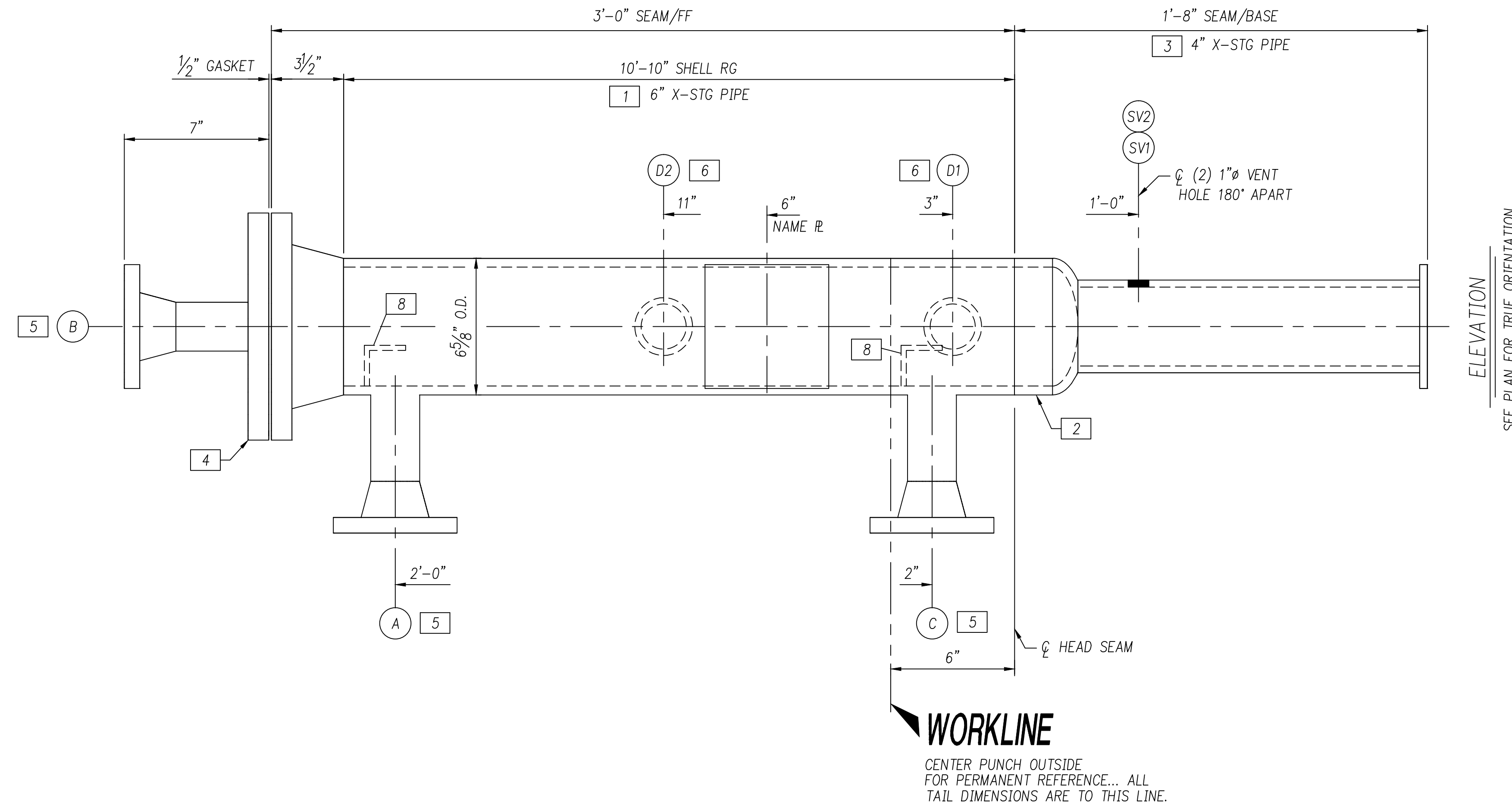
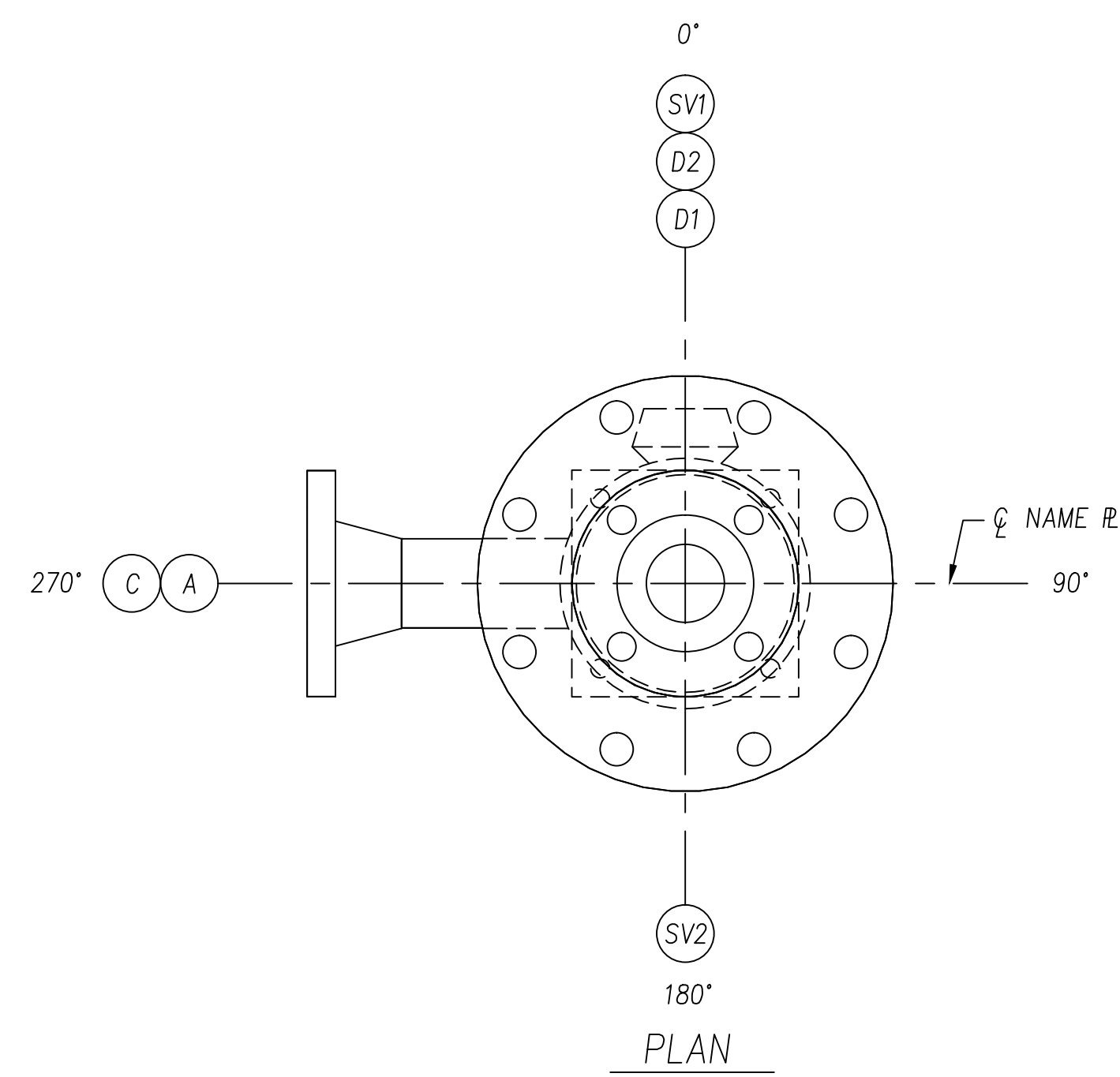


SPITZER INDUSTRIES, INC.  
HOUSTON, TEXAS USA

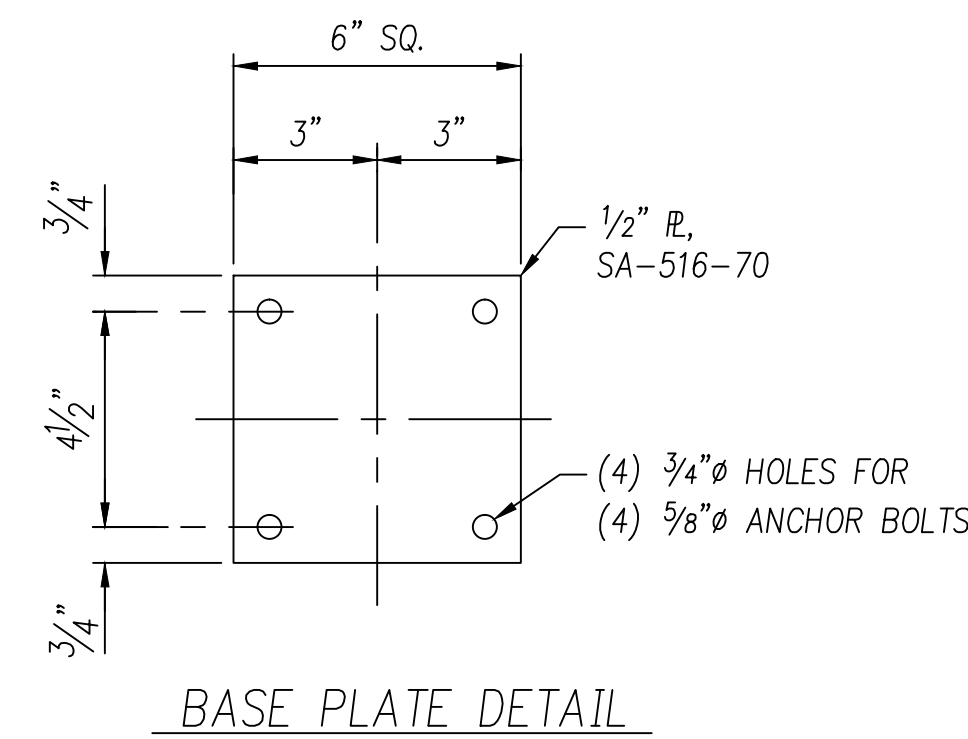
PROJECT		ANADARKO / AUDUBON		
P.O. NUMBER:	ITEM NO.		V-100	
TITLE				
3-PHASE HORIZONTAL SEPARATOR				
42" ID x 15'-0" SEAM/SEAM				
ISSUED FOR CONSTRUCTION	1/23/14	JB	MAK	
ADDED OIL BUCKET DETAILS	1/14/14	MLR	MAK	
ISSUED FOR APPROVAL	12/3/13	MLR	MAK	
NO	REVISION	DATE	BY	CK
			J4852-601	
DRAWN		DATE	CHECKED	DATE
MLR		12/3/13	MAK	12/3/13
JOB NO.		SHEET NO.	DRAWING NO.	REV
J4852-601		4 OF 4	J4852-601-4	0

PRODUCTION COUPON REQUIRED

ITEM	QUANTITY	MATERIAL	DESCRIPTION	NORMALIZED	IMPACT TEST	PWHT
1	1	SA-106 B SMLS PIPE	CYLINDER - 6" X-STG (.432" WALL) x 2'-8 1/2" LG	NO	NO	NO
2	1	SA-234-WPB	PIPE CAP - 6" X-STG	NO	NO	NO
3	1	SA-106 B SMLS PIPE	SKIRT - 4" X-STG x 1'-6" LG	NO	NO	NO
4	1	SA-105	BODY FLANGE - 6" 150# RFWN, BORE = X-STG W/ BLIND, GASKET AND BOLTING	NO	NO	NO
5	3	SA-105	NOZZLE FLANGE - 2" WN SCH 80 150#	NO	NO	NO
6	2	SA-105	TOL - 1" 6000#	NO	NO	NO
7	1'-6"	SA-106 B SMLS PIPE	NOZZLE NECK - 2" SCH 80	NO	NO	NO
8	2	SA-36	ANGLE - 2" x 2" x 1/4" x 2" LG	NO	NO	NO



ELEVATION  
SEE PLAN FOR TRUE ORIENTATION



J4852-02 S#: 14-75

**APPROVED FOR CONSTRUCTION**

Spitzer Industries, Inc.

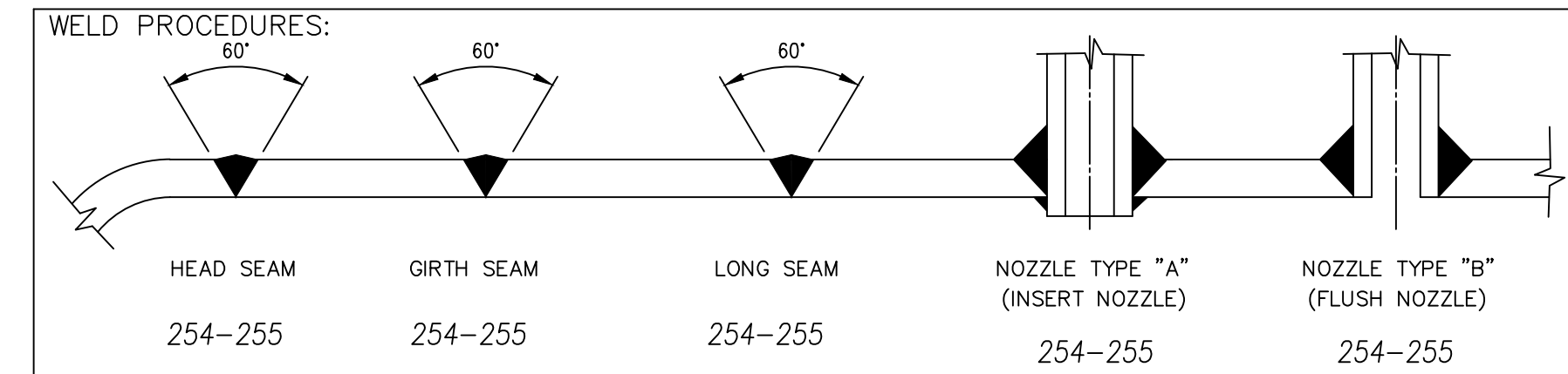
MAJOR COMPONENT DESIGN DATA	
VESSEL DESIGNED PER THE 2010 EDITION OF THE ASME CODE SECTION VIII DIVISION 1, A11 ADDENDA.	CODE STAMP: REQ'D SERIAL NO: LATER NATIONAL BOARD NO: LATER
DESIGN PRESSURE INTERNAL: 200 PSI @ 150 DEG F	DESIGN PRESSURE EXTERNAL: N/A
HYDRO TEST: 260 PSI @ 70 DEG F	MAMP: 200 PSI
	MAP: 200 PSI
	MDMT: -20 DEG F
	PWHT: NOT REQ'D
	CORROSION ALLOWANCE: 1/8"
RADIOGRAPH: HEAD/SHELL: FULL UW-11(g)	JOINT EFFICIENCY: HEAD/SHELL: 1.0
SHELL CIRC: FULL UW-11(g)	SHELL CIRC: 1.0
SHELL LONG: FULL UW-11(g)	SHELL LONG: 1.0
ESTIMATED WEIGHT: FABRICATION: 186 LBS	TEST: 186 LBS
	OPERATING: 224 LBS
	INSULATION: NONE
	INSPECTION BY:

NATIONAL BOARD No LATER	
CERTIFIED BY SPITZER INDUSTRIES, INC. HOUSTON, TEXAS USA	
U	
W	MAX ALLOWABLE WORKING PRESSURE 200 PSI AT 150 DEG F
RT-1	MIN DESIGN METAL TEMPERATURE -20 DEG F AT 200 PSI
	MAX EXTERNAL PRESSURE - PSI AT - DEG F
JOB No	J4852-602
YEAR BUILT	2013
ITEM NUMBER	V-150
HYDRO-TEST AT	260 PSI
C.A.	1/8"
EST WEIGHT	186 LBS
SERIAL NUMBER	XX
	XX

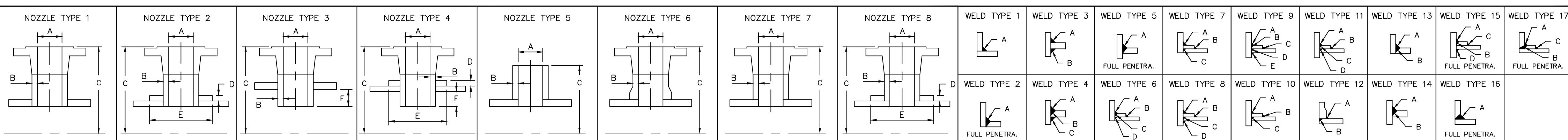
MATERIAL	
HEADS	SA-234-WPB
SHELL	SA-106B
REINF. PAD	N/A
SUPPORTS	SA-106B/SA-516-70
FLANGES	SA-105
CPLGS.	SA-105
PIPE	SA-106B
FITTINGS	N/A
STUDS	SA-193-B7
NUTS	SA-194-2H
GASKETS	FLEXITALLIC "CG", 304SS WOUND, NON-ASBESTOS FILLER

GENERAL NOTES:

- FLANGE BOLT HOLES SHALL STRADDLE NORMAL VESSEL CENTERLINES UNLESS NOTED.
- WELDS SHALL BE NEAT IN APPEARANCE, FREE OF SLAG, UNDERCUTS AND OTHER DEFECTS.
- NOZZLE AND TAIL DIMENSION TOLERANCES SHALL BE +/- 1/8 INCH UNLESS OTHERWISE NOTED.
- REINFORCING PADS AND PAD SECTIONS SHALL HAVE 1/4 INCH NPT WEEP HOLE LOCATED AS LOW AS POSSIBLE IN THE PAD WHEN THE VESSEL IS IN OPERATING POSITION. PLUG WEEP HOLE WITH HEAVY GREASE.
- VESSEL SHALL BE CLEANED OF SCALE, OIL, WELD SPATTER AND ALL OTHER FOREIGN MATTER BEFORE HYDROSTATIC TESTING.
- MAGNETIC PARTICLE EXAMINATION REQUIRED FOR LIFT LUG WELDS.
- PROTECT ALL MACHINED AND THREADED CONNECTIONS WITH RUST PREVENTATIVE AND INSTALL PROTECTORS BEFORE SHIPMENT.
- VESSEL TO BE FABRICATED PER NACE MR-01-75.
- ALL EXTERNAL VESSEL SURFACES PER 008584-001-TS-G-001 SECTION 5.0: SURFACE PREP: SSPC-SP10 PRIMER: SHERWIN WILLIAMS MACROPOXY 646-100, 4.0-6.0 MILS D.F.T., COLOR: WHITE FINISH: SHERWIN WILLIAMS ACROLON 218, 3.0-6.0 MILS D.F.T.



MARK	IDENTIFIER	SIZE	TYPE	CLASS	TYPE	A	B	C	D	E	F	TYPE	A	B	C	D	E
SV1~2	SKIRT VENT	1"Ø															
D2	LIT 150	1	TOL	6000#	7	1.315	.4675	-	-	-	-	16	.375	-	-	-	-
D1	LIT 150	1	TOL	6000#	7	1.315	.4675	-	-	-	-	16	.375	-	-	-	-
C	DRAIN	2	WN	150#	1	1.939	.218	10	-	-	-	2	.375	-	-	-	-
B	OUTLET	2	WN	150#	5	1.939	.218	ELEV	-	-	-	16	.375	-	-	-	-
A	INLET	2	WN	150#	1	1.939	.218	10	-	-	-	2	.375	-	-	-	-
			FLANGE		NOZZLE STYLE						WELD						
NOZZLE SCHEDULE																	



TOLERANCES (EXCEPT AS NOTED)		PROPRIETARY INFORMATION		PROJECT		
FRACTIONAL ± 1/16"		THIS DRAWING IS THE PROPERTY OF SPITZER INDUSTRIES, INC. AND SHALL NOT BE USED FOR ANY OTHER PURPOSE THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED WITHOUT WRITTEN APPROVAL.		ANADARKO / AUDUBON		
DECIMAL ± 0.0625"				P.O. NUMBER:	ITEM NO: V-150	
ANGULAR SMALLER OF ± 1/2° OR 3/8"				TITLE: FUEL GAS SCRUBBER 6 5/8" OD x 3'-0" SEAM/FF		
		DRAWN	DATE	CHECKED	DATE	SCALE
		MLR	12/3/13	MAK	12/3/13	
		ISSUED FOR CONSTRUCTION	1/23/14	JB	MAK	
		ISSUED FOR APPROVAL	12/3/13	MLR	MAK	
		NO	DATE	BY	CK	REV