

GENERAL NOTES

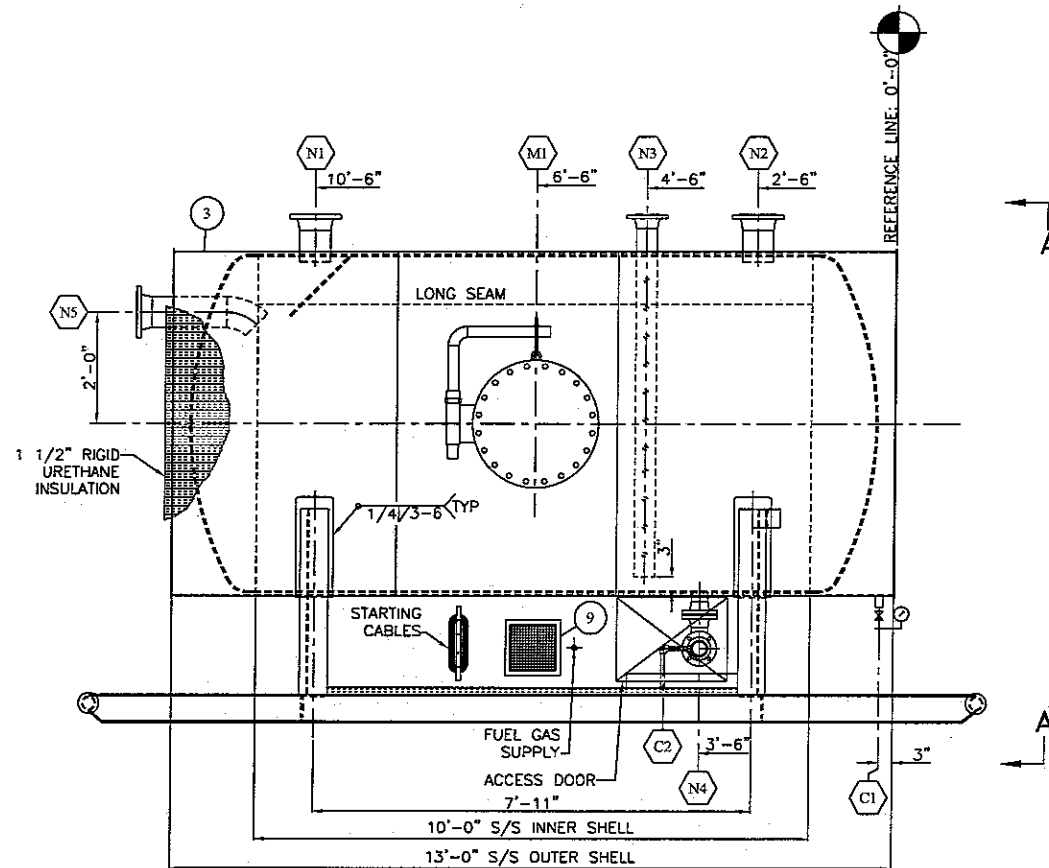
- DESIGN PRESSURE: 50 PSI
DESIGN VACUUM: NIL
MAWP: 14.9 PSI @ 200°F (NON-REGISTERED)
MDMT: -20°F @ 14.9 PSI
CORROSION ALLOWANCE: 1/8"
HYDROTEST PRESSURE: 75 PSI
RADIOGRAPHY: NIL
PWHT: NIL
- INTERNAL SHELL & HEAD MATERIAL: SA-516-70N
- EXTERNAL SHELL & HEAD MATERIAL: SA-36
- FLANGE MATERIAL: SA-105-N
- PIPE MATERIAL: SA-106-B
- BOLTING MATERIAL: SA-193-B7M/SA-194-2HM
- INTERNAL SANDBLAST: SSPC-SP10 (NEAR WHITE)
- INTERNAL COATED: DEVCO 253 AS PER MANUFACTURER'S SPECS
- EXTERNAL SANDBLAST TO SSPC-SP3 (POWER TOOL)
- EXTERNALLY COATED:
ALL AREAS: ONE (1) COAT PRIMER
NON-INSULATED AREAS: ONE (1) COAT INDUSTRIAL ENAMEL (WHITE)
- INSULATION: 1 1/2" THK ALUMINUM CLAD RIGID URETHANE
- ALL OPENINGS SHALL BE COVERED PRIOR TO SHIPPING
- AIR/SOAP LEAK TEST PERFORMED ON CONTAINMENT
- DO NOT OPERATE AT PRESSURES HIGHER THAN MAWP
-DESIGN PRESSURE IS INTENDED FOR SAFETY FACTOR ONLY
- ABSA APPROVED WPS USED FOR VESSEL FABRICATION
REGARDLESS OF NON CODE DESIGN
- SHIPPING WEIGHT: 9,000 LBS
- SHIPPING DIMENSIONS: 16'-6" L x 7'-6" W x 9'-6" HIGH

NOZZLE SCHEDULE

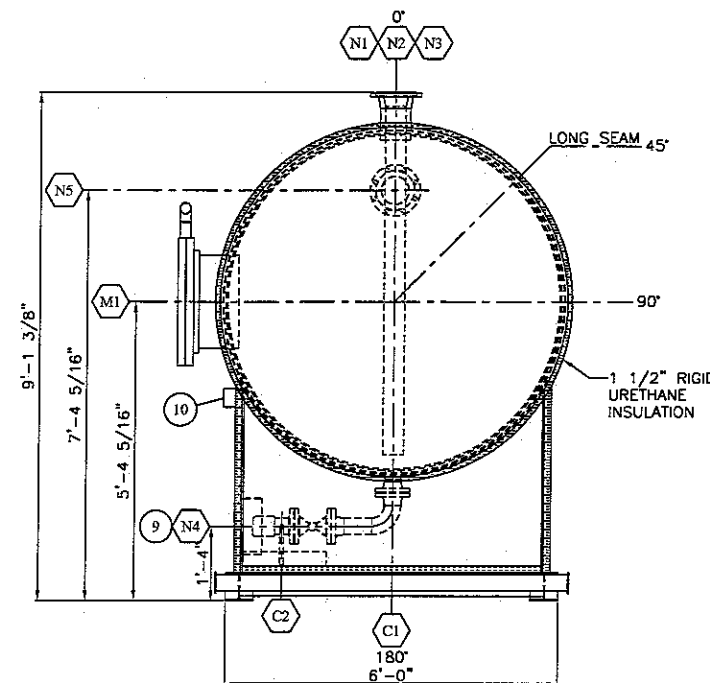
MARK	NO. REQ'D	DESCRIPTION	NPS	CLASS	TYPE	PROJECTION	WELD	WELD	REPAD	BILL OF MATERIALS
						INSIDE	OUTSIDE	DETAIL	A	ITEM NUMBER
N1	1	SPARE	6	150	RFWN	1"	8"	1,4	3/8	11,12,13,53,54,55,56
N2	1	OUTLET	6	150	RFWN	1"	8"	1,4	3/8	11,12
N3	1	GAUGE	4	150	RFWN	SHOWN	8"	1,4	3/8	14,15,16,17,18,19,20,21
N4	1	TRUCKOUT	3	150	RFWN	FLUSH	4"	1,5	3/8	20,21,22,23,24,25,26,27,28,29,30
N5	1	INLET	6	150	RFWN	2"	8"	1,4	3/8	11,31,32
C1	1	VACUUM	1	3000	CPLG	-	-	3	3/8	33,34
C2	1	SUCKOUT	1/2	3000	TOL	-	-	3	1/4	35,36,37,38,39,40
M1	1	MANWAY	20	150	RFSO	1"	8"	2,4	3/8	41,42,43,44,45,46,47

BILL OF MATERIALS

ITEM	REQ'D	PART	DESCRIPTION	MATERIAL	WEIGHT
1	1	INT. SHELL	3/8" THK x 120" W. ROLL TO 72" ID (CIRC=19'-0 9/16")	SA-516-70N	2900#
2	2	INT. HEAD	3/8" THK x 72" ID FLANGED & DISHED HEAD	SA-516-70N	1195#
3	2	EXT. SHELL	3/16" THK x 48" W ROLL TO 73 3/4" ID (CIRC=19'-4 7/8")	SA-36	1190#
4	1	EXT. SHELL	3/16" THK x 60" W ROLL TO 73 3/4" ID (CIRC=19'-4 7/8")	SA-36	745#
5	2	EXT. HEAD	3/16" THK x 75 1/4" OD	SA-36	470#
6	2	SADDLE	SADDLE (SEE DWG B593-2 FOR DETAIL)	SA-36	450#
7	1	SKID	SKID (SEE DWG B593-2 FOR DETAIL)	-	750#
8	1	SPACER	3/8" HRR x 40'-0" LG	SA-36	40#
9	1	HEATER	12" x 12" CATADYNE HEATER, 12 VOLT NATURAL GAS	-	-
10	1	NAMEPLATE	4" x 6" NAMEPLATE BRACKET	SA-36	2#
11	3	N1,N2,N5	6" x CLASS 150 RFWN FLG SCH XH	SA-105-N	75#
12	2	N1,N2	6" PIPE SCH XH x 6 3/4" LG (ROE,BOE)	SA-106-B	30#
13	1	N1	3/8" THK DEFLECTOR PLATE	SA-36	15#
14	1	N3	4" x CLASS 150 RFWN FLG SCH XH	SA-105-N	15#
15	1	N3	4" x CLASS 150 RF BLIND FLG, TAPPED TO 1"	SA-105-N	18#
16	1	N3	4" x CLASS 150 RF FLEX GASKET	304SS	-
17	1	N3	4" PIPE SCH XH x 6'-3 1/8" LG c/w HOLES (ROE,BOE)	SA-106-B	96#
18	1	N3	TGS-5020 LIQUID LEVEL GAUGE (SOUR)	-	-
19	1	N3	PROXIMITY SWITCH (ELECTRIC)	-	-
20	20	N3,N4	5/8" DIA x 3 1/2" LG STUD	SA-193-B7M	-
21	40	N3,N4	5/8" DIA NUT	SA-194-2HM	-
22	3	N4	3" x CLASS 150 RFWN FLG SCH XH	SA-105-N	30#
23	1	N4	3" x CLASS 150 RFTO FLG	SA-105-N	10#
24	1	N4	3" x CLASS 150 RF RP BALL VALVE (NACE)	SA-105-N	-
25	3	N4	3" x CLASS 150 RF FLEX GASKET	304SS	-
26	1	N4	3" x 90° LR BW ELBOW SCH XH	SA-234-WPB	4#
27	1	N4	3" PIPE SCH XH x 2 3/8" LG (BOE,COE)	SA-106-B	2#
28	1	N4	3" PIPE SCH XH x 6" LG (BBE)	SA-106-B	4#
29	1	N4	3" x 4" LG NIPPLE SCH XH	SA-106-B	3#
30	1	N4	3" MALE/FEMALE CAMLOCK c/w CAP	-	2#
31	1	N5	6" PIPE SCH XH x 1'-4" LG (BBE)	SA-106-B	35#
32	1	N5	6" x 45° LR BW ELBOW SCH XH	SA-234-WPB	15#
33	1	C1	1" x CLASS 3000 FULL CPLG	SA-105-N	1#
34	1	C1	VACUUM GAUGE ASSEMBLY (ABOVE GROUND)	-	-
35	1	C2	1/2" x CLASS 3000 TOL	SA-105-N	1#
36	2	C2	1/2" x 1 1/2" LG NIPPLE SCH XH	SA-106-B	1#
37	1	C2	1/2" x CLASS 2000 90° THRD ELBOW	SA-105-N	1#
38	1	C2	1/2" PIPE SCH XH x 7 1/2" LG (TOE,ROE)	SA-106-B	1#
39	1	C2	1/2" x CLASS 2000 THRD BALL VALVE (SOUR)	SA-105-N	-
40	1	C2	12 GAUGE 36" x 24" CONTAINMENT TRAY	-	48#
41	1	M1	20" x CLASS 150 RFSO FLG	SA-105-N	165#
42	1	M1	20" x CLASS 150 RF BLIND FLG	SA-105-N	285#
43	1	M1	20" x CLASS 150 RF FLEX GASKET	304SS	-
44	1	M1	20" x CLASS 150 STANDARD DAVIT ARM	-	-
45	1	M1	20" PIPE SCH STD x 11" LG (COE,ROE)	SA-106-B	82#
46	20	M1	1 1/8" DIA x 6 1/4" LG STUD	SA-193-B7M	-
47	40	M1	1 1/8" DIA NUT	SA-194-2HM	-
48	5	INSULATION	1 1/2" x 13'-6" LG RIGID URETH. CORR & STUCCO EMBOSS ALUM ONE SIDE w/ CUR'S	-	-
49	2	INSULATION	1 1/2" x 12'-6" LG RIGID URETH. CORR & STUCCO EMBOSS ALUM ONE SIDE	-	-
50	3	INSULATION	1 1/2" x 8'-5" LG RIGID URETH. CORR & STUCCO EMBOSS ALUM BOTH SIDES	-	-
51	60 FT	INSULATION	SEA "L" FLASHING	-	-
52	400	INSULATION	SCREWS - #8 - 1/2" STAINLESS STEEL	-	-
53	1	N1	6" x CLASS 150 RF BLIND FLG	SA-105-N	25#
54	1	N1	6" x CLASS 150 RF FLEX GASKET	304SS	-
55	8	N1	3/4" DIA x 4" LG STUD	SA-193-B7M	-
56	16	N1	3/4" DIA NUT	SA-194-2HM	-



ELEVATION VIEW



ORIENTATION VIEW A-A

WELD DETAIL NUMBER	REGISTERED WELDING PROCEDURE NUMBER	BACKWELD/GOUGE
1,2,3,4,5,6	BWM-19 (GMAW) BWM-19 (GMAW) BWM-19 (GMAW)	N/A
1 (6" XH)	BWM-1 (GMAW) BWM-1 (GMAW) BWM-1 (GMAW)	N/A
7	BWM-19 (GMAW) BWM-3 (SAW) BWM-3 (SAW)	N/A

1	WELD NECK FLANGE	2	SLIP ON FLANGE	3	COUPLING	4	NOZZLE NECK	5	NOZZLE NECK	6	EXTERNAL SEAMS	7	INTERNAL SEAMS	8	ATTACHMENTS

REV. NO.	DATE	REVISION	BY	APP'D
A	11/03/05	ISSUED FOR APPROVAL	DSG	JAM
0	11/04/05	ISSUED FOR FABRICATION	DSG	JAM
1	01/23/06	AS BUILT DRAWING	DSG	JAM

BILTON
Welding & Manufacturing Ltd.
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FAX 227-7796

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ADVANTAGE OIL & GAS
60 BBL DOUBLE WALL FLARE KNOCKOUT DRUM
72" ID x 10'-0" S/S x 14.9 PSI MAWP (NON REGISTERED)

DATE: 11/03/05
SCALE: N.T.S.
DRAWN BY: DSG
PURCHASE ORDER: 62435-3520-538
LOCATION: TBA
CRN DWG: N/A
CRN NUMBER: N/A

SHEET: 1 OF 2
JOB NO.: B593
DRAWING NO.: B593-1
REV. 1

FILE_PATH\MAINDATA\CAD\TANKS\B500-B599\B593-2

CERTIFIED
AS BUILT

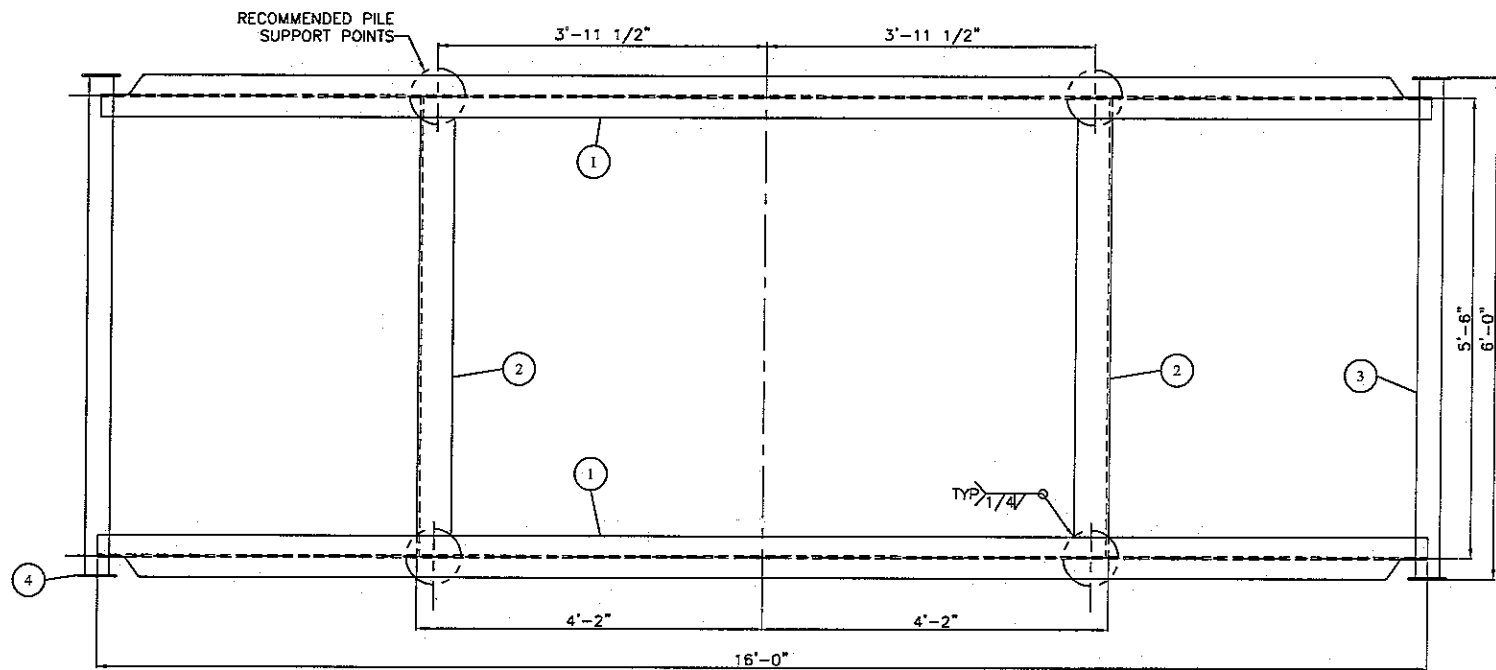
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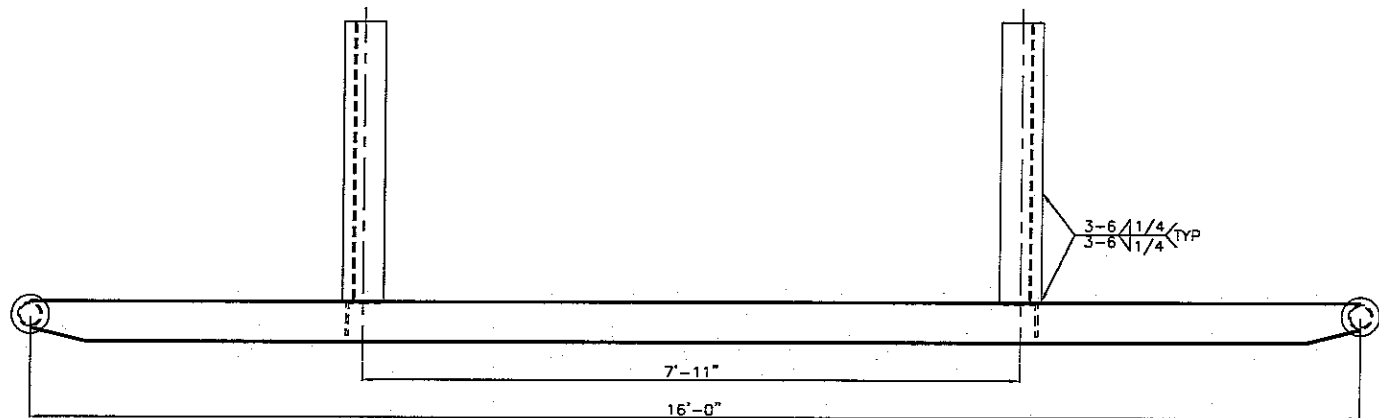
1. ALL WELDS FULL PENETRATION, 1/4" FILLET WELDS (GTSM)
2. PRIME: ONE (1) COAT PRIMER
3. PAINT: ONE (1) COAT INDUSTRIAL ENAMEL (WHITE)
4. APPROXIMATE WEIGHT: 1,250 LBS (SADDLE & SKID ONLY)

BILL OF MATERIALS

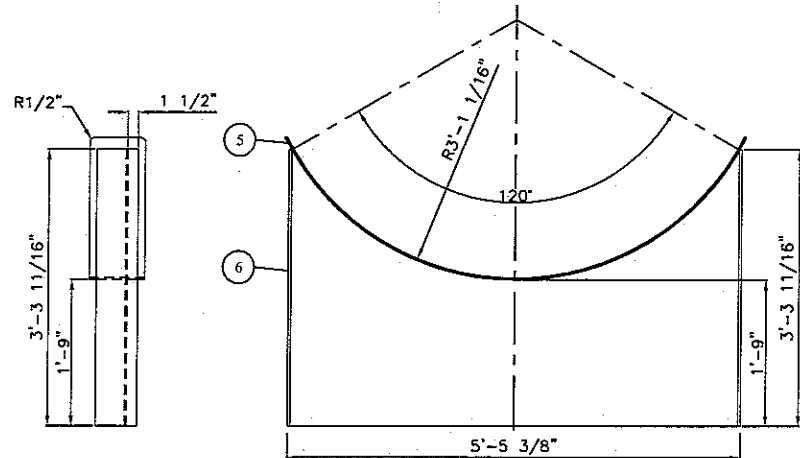
ITEM	REQ'D	PART	DESCRIPTION	MATERIAL	WEIGHT
1	2	RUNNER	W6@15# x 16'-0" LG (ROUGH CUT TO 192 1/2")	SA-36	485#
2	2	CROSSMEM	5" x 5" x 3/8" ANGLE x 5'-5 11/16" LG	SA-36	133#
3	2	PULL	3" STD PIPE x 5'-11 1/2" LG	SA-106-B	90#
4	4	PULLCAP	1/4" THK x 5 1/2" OD	SA-36	5#
5	2	SADDLE	8" x 1/4" FLATBAR x 80" LG ROLL TO 74 1/8" ID	SA-36	91#
6	4	SADDLE	6" x 3/8" FLATBAR x 3'-3 11/16" LG	SA-36	89#
7	2	SADDLE	1/4" THK x 39 11/16" Wx 64 5/8" LG (SEE DETAIL)	SA-36	280#



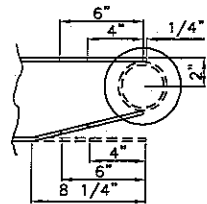
TOP VIEW



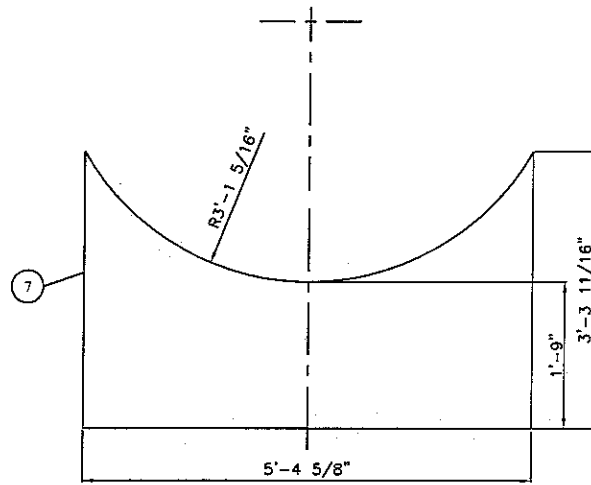
ELEVATION VIEW



SADDLE DETAIL



COPE DETAIL



WEB PLATE DETAIL

REV. NO.	DATE	REVISION	BY	APP'D
A	11/03/05	ISSUED FOR APPROVAL	DSG	
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ADVANTAGE OIL & GAS

60 BBL DOUBLE WALL FLARE KNOCKOUT DRUM
SADDLE & SKID DETAILS

DATE: 11/03/05	SHEET: 2 OF 2
SCALE: N.T.S.	JOB NO.: B593
DRAWN BY: DSG	SIZE: D
PURCHASE ORDER: 62435-3520-538	DRAWING NO.: B593-2
LOCATION: TBA	REV. 1
APP'D BY: JAM	