

PART	NO.	QTY.	DESCRIPTION	
HEADS	1	2	0750" MIN THK 2:1 SE HEADS x 96" I.D. x 2" S.F.	SA516-70
SHELL	2	5	0.7550" THK x 96" I.D. x 303 $\frac{1}{16}$ " LG	SA516-70
SADDLES	3	1	PAIR OF SADDLES	DWG 8410-210
G ₂	4	2	3" U. Bolt	
DATA R	5	1	WESTERN DATA RATE	DWG 7802-1A
DATA R BRKT	6	1	DATA R BRACKET	DWG 6812-8A
GROUND STRAP	7	1	F/BAR 1" x $\frac{1}{2}$ " x 6" LG	SA 516
M	8	1	24" CL 150 XS RFWN FLG	SA105
M	9	1	24" CL 150 RF BLIND FLG	SA105
M	10	1	$\frac{1}{16}$ " COMP. ASBESTOS GASKET, JM-60 TO SUIT 24" CL 150 RF FLG	SA105
M	11	20	1 $\frac{1}{2}$ " DIA UNC STUD x 7" LG	SA193-B7
N	12	40	1 $\frac{1}{4}$ " DIA UNC HEX NUTS	SA194-2H
M	13	1	0.7550" THK R x 24 $\frac{1}{2}$ " ID x 46" OD	SA516-70
M	14	1	24" XS SMLS PIPE x 6 $\frac{5}{16}$ " LG	SA105B
B,F	15	2	4" CL 150 SCH 80 RFWN FLG	SA105
B,F	16	2	4" SCH 80 SMLS PIPE x 5 $\frac{1}{16}$ " LG	SA105B
B,F	17	2	0.7550" THK R x 43 $\frac{3}{4}$ " I.D. x 8 $\frac{1}{2}$ " O.D.	SA516-70
E ₂ , G ₂	18	4	3" CL 150 SCH 80 RFWN FLG	SA105
E ₂	19	2	3" SCH 80 SMLS PIPE x 6 $\frac{1}{16}$ " LG	SA105B
E ₂ , G ₂	20	4	0.7550" THK R x 3 $\frac{1}{2}$ " ID x 7 $\frac{1}{2}$ " O.D.	SA516-70
A ₂ , C ₂ , D ₂ , L	21	5	2" CL 150 SCH 160 RFWN FLG	SA105
A ₂ , C ₂ , D ₂ , L	22	5	2" SCH 160 SMLS PIPE x 4 $\frac{5}{16}$ " LG	SA105B
G ₂	23	2	3" SCH 80 SMLS PIPE x 3 $\frac{1}{2}$ " LG	SA105B
J	24	1	$\frac{1}{2}$ " CL 6000 THR'D FULL CPLG	SA105
K	25	1	$\frac{3}{4}$ " CL 6000 THR'D FULL CPLG	SA105
DAVIT	26	1	24" MANWAY DAVIT	DWG 8410-230
LIFTING LUG	27	2	LIFTING LUGS	DWG 8410-24A
BRIDLE	28	1	BRIDLE	DWG 8410-22B
SAND	29	37	BAGS OF SAND	
PAINT (PRIME)	30	7	GALLONS OF SHOP PRIMER	
PAINT (FINISH)	31	16	GALLONS OF GLOSSY WHITE FINISH PAINT	
G ₂	32	2	3" SCH 80 SR WELD ELL	SA 234 WPB
J	33	1	$\frac{1}{2}$ " CL 6000 F.S. HEX PLUG	SA105
K	34	1	$\frac{3}{4}$ " CL 6000 F.S. HEX PLUG	SA105
C ₂ , L	35	3	2" CL 150 RF BLIND FLG	SA105
C ₂ , L	36	3	$\frac{1}{16}$ " THK COMP. ASBESTOS GASKET, JM-60, TO SUIT 2" CL 150 RF FLG	SA105
C ₂ , L	37	12	$\frac{5}{8}$ " DIA. UNC STUDS x 3 $\frac{1}{2}$ " LG	SA193-B7
C ₂ , L	38	24	$\frac{3}{8}$ " DIA UNC HEX NUTS	SA194-2H
LUG LADDER	39	2	$\frac{3}{8}$ " F/BAR, 3" x 6" LG	SA-36
G ₂	40	2	3" SCH 80 SMLS PIPE x 15 $\frac{1}{4}$ " LG	SA105B
G ₂	41	2	L 3x3 x 3/8 x 12" LB	SA-36

- SHOP NOTES
- 1) FLANGE BOLT HOLES TO STRADDLE NATURAL ϵ , EXCEPT WHERE NOTED
 - 2) FLANGE SURFACE TO BE PROTECTED FROM WELD SPATTER
 - 3) PADS TO BE RADIUS ON ALL CORNERS. ALL INSIDE CONNECTIONS TO BE ROUNDED TO $\frac{1}{8}$ " MIN. RADIUS
 - 4) SERVICE BOLTS & GASKETS NOT TO BE USED FOR HYDROTESTING.
 - 5) AFTER FINAL HYDROTEST, VESSEL TO BE COMPLETELY DRAINED & DRIED PRIOR TO COVERING AND PROTECTING ALL OPENINGS
 - 6) VESSEL TO BE SHIPPED WITH SERVICE BLIND, GASKET & BOLTING IN PLACE
 - 7) NO EXPOSED OPENINGS ALLOWED WHILE IN SERVICE OR TRANSIT
 - 8) ALL FLANGE FACES TO BE PROTECTED. FIT PLASTIC HP. PLUG IN THREADED CONNECTIONS AS REQUIRED.
 - 9) ALL NOZZLES TO BE GROUND FLUSH WITH INTERNAL VESSEL WALL.
 - 10) PAINT ONE COAT GREY ZINC CHROMATE PRIMER, AND TWO COATS 'GUERTIN' WHITE ENAMEL FINISH (1.5 MIL DRY)
 - 11) CUSTOMER TO BE NOTIFIED BEFORE HYDROTESTING OF VESSEL.

SCHEDULE OF OPENINGS

ITEM NO.	NO.	SIZE	TYPE	FLANGE MATERIAL	NECK MATERIAL	SERVICE
8, 9, 11, 12, 14, 26	M	1 24"	CL 150 RFWN XS	SA105	SA105B	MANWAY BLIND
21, 22	A	1 2"	CL 150 RFWN SCH 160	SA105	SA105B	INLET
15, 16, 17	B	1 4"	CL 150 RFWN SCH 80	SA105	SA105B	OUTLET
21, 22, 23, 34, 37, 38	C	2 2"	CL 150 RFWN SCH 80	SA105	SA105B	DEAN W/BLIND
21, 22	D	1 2"	CL 150 RFWN SCH 160	SA105	SA105B	BLONDDOWN
18, 19, 20	E	2 3"	CL 150 RFWN SCH 80	SA105	SA105B	PSV (RELIEF)
15, 16, 17	F	1 4"	CL 150 RFWN SCH 80	SA105	SA105B	VAPOUR RETURN
41	G	2 3"	CL 150 RFWN SCH 80	SA105	SA105B	BRIDLE
21, 22, 23, 34, 37, 38	L	1 2"	CL 150 RFWN SCH 160	SA105	SA105B	SPARE W/BLIND
24, 33	J	1 $\frac{1}{2}$ "	CL 6000 F.CPLG	SA105	SA105	P.I. W/PLUG
25, 34	K	1 $\frac{3}{4}$ "	CL 6000 F.CPLG	SA105	SA105	T.W. W/PLUG

PART	NO.	QTY.	DESCRIPTION	
PLAT ^m LUGS	42	4	$\frac{3}{8}$ " x 3" PLAT x 9" LG	SA 36

CERTIFIED AS-BUILT PRINT

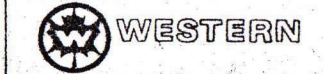
Per Kelly Baroque

ENGINEERING DEPT
MAY 16 1985
ISSUED

DESIGN DATA

CODE	ASME SEC VIII DIV I	EDN B3	SYMBOL	UW12 (1) (a)
Des Pres. Int	250 PSIG (1724 KPa)		Diam	96" I.D. x Length 52'2"
Design Temp	120 °F (49 °C)		Capacity	72.7 Cu. Ft.
Corr Allow. Head	$\frac{1}{16}$ " Shell $\frac{1}{16}$ "		Head Type	2:1 SE
Radiographed Head	SMLS Shell 100% FULL CIRC. PARTIAL		Head Material	SA516-70
Joint Eff. Head	100% Shell 100%		Head Thickness	0.7501 MIN.
Stress Relieved	NO		Shell Material	SA516-70
Hydro Test Now & Cold	375 PSIG (2585.5 KPa)		Shell Thickness	0.7550"
Hydro Test Limited by	SHELL		Studs SA193-B7 Nuts SA194-2H	
SURFACE AREA	1405 SQFT (130.5 SQM)		Man. Capable JM-60, 10" COMP. ASB	
Standard	SSPC-SP6		Flanges & Pads See Sched & Dwg	
Paint	PRIMER & FINISH - SEE NOTE #9		Support Mt. - See Dwg	
Est Shipping Weight	46,500 LBS		Reinforcing Mt. SA516-70	

CR No. E8283.2



19200 USWG LPG STORAGE TANK
96" I.D. V-1000

NO.	DATE	BY	DESCRIPTION	SCALE	DATE	BY	DESCRIPTION
2	10/12/84	MD	PLAT LUGS - ITEM 42 ADDED, QTY CHANGED FROM 4 TO 42. DIM'S ADDED TO LOCATIONS				
1	10/12/84	MD	NOZZLES, BRIDLE, LADDER & PLATFORM				

DATE: OCT 12/1984
SCALE: 3/8" = 1'-0"
DETAILS: NTS