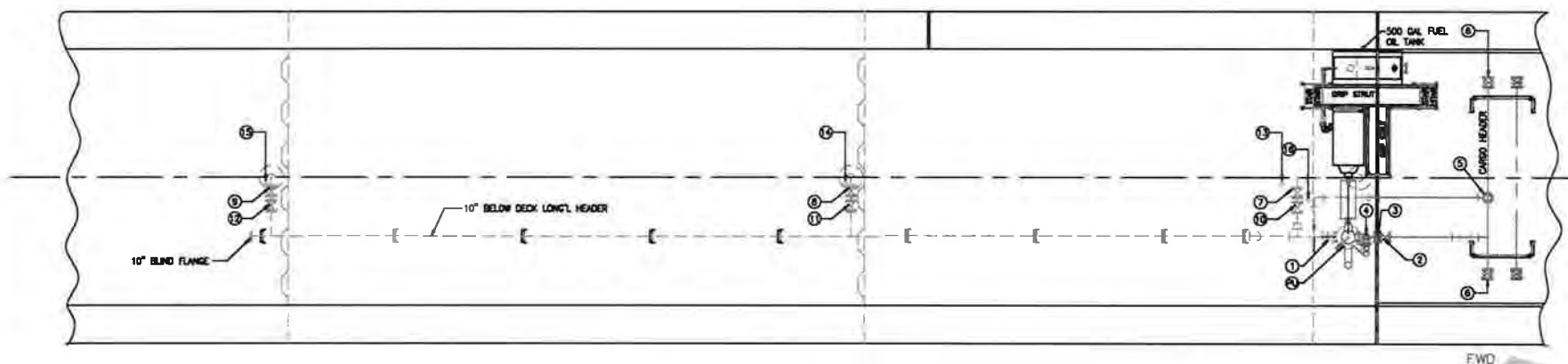




PLAN

TANK VOL. 100% FULL

TANK	GAL.	BBL	CU. FT.
1	147332	3507.90	19695.47
2	170668	4063.52	22815.05
3	151127	3598.26	20202.79
TOTAL	469127	11169.68	62713.31
		98% FULL	10946.29

MAX CAPACITY - BBL (100%)

11169.68	3507.90	4063.52	3598.26
----------	---------	---------	---------

TOTAL CT1 CT2 CT3

MAX CAPACITY - CU. FT. (100%)

62713.31	19695.47	22815.05	20202.79
----------	----------	----------	----------

TOTAL CT1 CT2 CT3

CAPACITIES—SHORT TONS AT VARIOUS DRAFTS				
TANK NUMBER				
DRAFT (FT)	TOTAL (S.T.)	1 (S.T.)	2 (S.T.)	3 (S.T.)
6.00	807.30	258.60	290.80	257.90
6.25	860.20	277.10	311.50	271.60
6.50	913.20	295.80	332.20	285.20
6.75	966.20	314.50	353.00	298.80
7.00	1019.40	333.20	374.00	312.20
7.25	1072.60	352.10	394.90	325.60
7.50	1125.90	371.00	416.00	338.90
7.75	1179.30	390.00	437.10	352.20
8.00	1232.80	409.10	458.40	365.30
8.25	1286.40	428.30	479.60	378.40
8.50	1340.00	447.50	501.00	391.50
8.75	1393.70	466.80	522.50	404.40
9.00	1447.40	486.20	544.00	417.30
9.25	1501.30	505.60	565.50	430.20
9.4167	1537.10	518.50	579.90	438.60
9.50	1555.20	525.10	587.20	442.90
9.75	1609.20	544.60	608.90	455.70
10.00	1663.20	564.20	630.70	468.30
10.25	1717.30	583.90	652.50	480.90
10.50	1771.40	603.60	674.40	493.50

SPECIAL FEATURES

1. CARGO PUMP: BYRON JACKSON
MODEL 11LS14GH-3
AMARILLO GEAR S300
2100 GPM, 253' TDH
● 192 H.P.
2. CARGO PUMP ENGINE: IVECO/FPT
DIESEL MODEL PU-1173

BARGE INFORMATION

YEAR BUILT: 2017
HULL TYPE: I
CARGO GRADE: A & LOWER PRODUCTS PER
SUBCHAPTER "D" AND LIMITED SUBCHAPTER "O"
PRODUCTS.

CANAL BARGE COMPANY	
NAME	HULL #
CBC 1380	9788
CBC 1381	9789
CBC 1382	9770
CBC 1383	9771
CBC 1384	9772
CBC 1385	9773
CBC 1386	9774
CBC 1387	9775
CBC 1388	9776
CBC 1389	9777

REV	DATE	DESCRIPTION	BY
REVISIONS			
MARINE SOLUTIONS, INC.			
MARINE SOLUTIONS, INC. 10000 W. 10TH AVE. SUITE 100 DENVER, CO 80202-1000			
MARINE SOLUTIONS, INC. 10000 W. 10TH AVE. SUITE 100 DENVER, CO 80202-1000			
CANAL BARGE COMPANY, INC.			
2007-01-01 TO 01-01-01 12" x 12" x 12" DOUBLE END TANK BARGE			
CARGO PIPING DIAGRAM (SOUTHWEST SHIPYARD)			
SCALE: 3/16" = 1'-0"	DATE: 01/01/17	DWG NO.	
GROUP BY: MBE	DWG BY: MBE	DATE: 01/01/17	

CARGO LOADING:

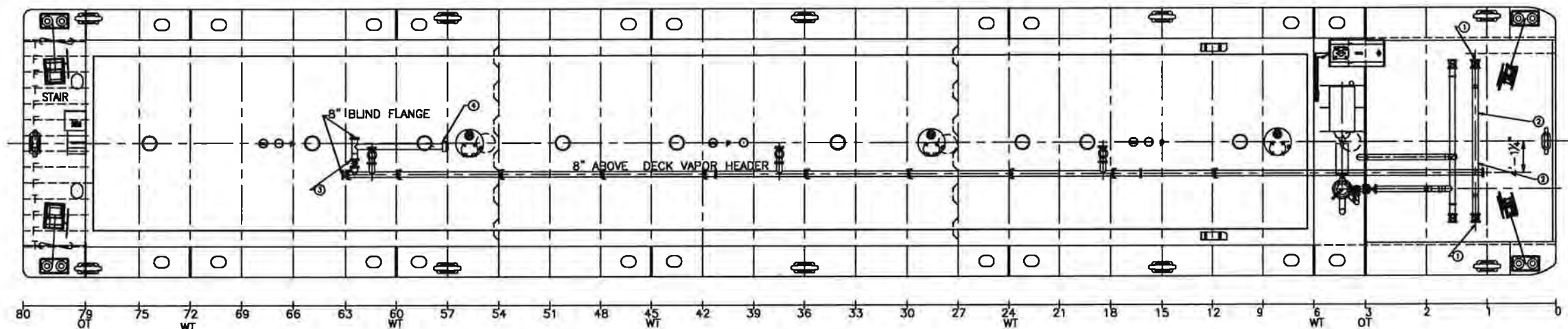
- A OPEN VALVES NO.:5,6,7,8,9,10,11 & 12
B CLOSE VALVES NO.:1,2
C VENT TANKS

CARGO DISCHARGE:

- A OPEN VALVES NO.:1,2,6,7,8,9,10,11, & 12
B CLOSE VALVES NO.: 5
C VENT TANKS

CARGO SYSTEM VALVES

- 1 PUMP SUCTION VALVE
- 2 PUMP DISCHARGE VALVE
- 3 PUMP DISCHARGE CHECK VALVE
- 4 PRESSURE RELIEF VALVE
- 5 CARGO FILL VALVE
- 6 PORT & STBD HEADER VALVES
- 7 TK 1 FILL / SUCTION VALVE
- 8 TK 2 FILL / SUCTION VALVE
- 9 TK 3 FILL / SUCTION VALVE
- 10 TK 1 FILL / SUCTION VALVE
- 11 TK 2 FILL / SUCTION VALVE
- 12 TK 3 FILL / SUCTION VALVE
- 13 #1 STRIPPING VALVE
- 14 #2 STRIPPING VALVE
- 15 #3 STRIPPING VALVE
- PU PUMP
- 16 DEEPWELL CAN STRIPPING VALVE



PLAN

CANAL BARGE COMPANY	
NAME	HULL #
CBC 1390	9788
CBC 1391	9789
CBC 1392	9770
CBC 1393	9771
CBC 1394	9772
CBC 1395	9773
CBC 1396	9774
CBC 1397	9775
CBC 1398	9776
CBC 1399	9777

VAPOR SYSTEM VALVES:

- 1- 8" HEADER VALVES
- 2- 6" BERGAN PV VALVE SET @ 1.5# PSI/ 0.5# VACUUM
- 3- 8" ISOLATION VALVE
- 4- VENT STACK

REV	ITEM	DESCRIPTION	DATE	BY
2	1	EXTENDED HULL APPLICABILITY	3/14/13	SJ
1	1	REVISED VENT STACK	3/26	CK
REVISIONS				
MARINE SOLUTIONS, INC.				
Review these drawings and specifications as a professional trade with an expressed understanding that they will not be used in any manner, used for construction, and, therefore, we accept the liability of said use without release of liability. The recipient further agrees not to release these materials from any other person except for those specific purposes for which this drawing was issued.				
MARINE SOLUTIONS, INC. 7885 BOONE TRACE NASHVILLE, TN, 37221 TEL: 615-381-9388 FAX: 615-852-9508 E-MAIL: MARINESOL@AOL.COM				
CANAL BARGE COMPANY				
200'-0"x35'-0"x12'-6" DOUBLE-SKIN TANK BARGE				
VAPOR PIPING				
(SOUTHWEST SHIPYARD, L.P.)				
SCALE: 1/8"=1'-0"		DATE: 02/28/11		DWG NO.
DRAWN BY: ck	CK'D BY:	APPR. BY:	081002WP-1	
HULL NO. 0		CONTRACT NO. 0		SHT 1 OF 2
				REV. 2