

**CARGO SYSTEM**

- CV1 PUMP SUCTION VALVE
- CV2 PUMP DISCHARGE VALVE
- CV3 PUMP DISCHARGE CHECK VALVE
- CV4 PRESSURE RELIEF VALVE
- CV5 CARGO FILL/LOAD VALVE
- CV6 STBD HEADER VALVE
- CV7 PORT HEADER VALVE
- CV8 #1 PORT CARGO FILL/SUCTION VALVE
- CV9 #1 STBD CARGO FILL/SUCTION VALVE
- CV12 #2 PORT CARGO FILL/SUCTION VALVE
- CV13 #2 STBD CARGO FILL/SUCTION VALVE
- CV16 #3 PORT CARGO FILL/SUCTION VALVE
- CV17 #3 STBD CARGO FILL/SUCTION VALVE
- CV20 TRANSVERSE HEADER BLOCK VALVE
- CV21 PUMP DISCHARGE BYPASS
- CV22 PUMP DISCHARGE HEADER DRAIN
- CV23 PUMP LINE VALVE
- CV24 PUMP BURP LINE CHECK VALVE
- CV25 PORT DRIP TRAY WATER DRAIN
- CV26 STBD DRIP TRAY WATER DRAIN

**LOADING/UNLOADING PROCEDURE**

(FOR LEVEL LOADING/UNLOADING OF A SINGLE PRODUCT)

- TO LOAD:**  
 OPEN  
 CV6 OR CV7, CV5, CV8, CV9, CV12, CV13, CV16, CV17, CV20.
- CLOSE**  
 CV1, CV2, CV21, CV22, CV23, CV24, CV25, CV26.

**TO DISCHARGE:**

- OPEN  
 CV6 OR CV7, CV1, CV2, CV8, CV9, CV12, CV13, CV16, CV17, CV20.
- CLOSE  
 CV5, CV21, CV22, CV23, CV24, CV25, CV26.

**TANK VOL. 100% FULL**

TANK	GAL.	BBL.	CU. FT.
1P	220110	5241	29426
1S	220110	5241	29426
2P	215040	5120	28747
2S	215040	5120	28747
3P	206262	4911	27573
3S	206262	4911	27573
TOTAL	1282824	30,544	171492
		98% FULL	29,933

**MAX CAPACITY - BBL (100%)**

TANK NUMBER	1	2	3
TOTAL	10482	10240	9822

**MAX CAPACITY - CU. FT. (100%)**

TANK NUMBER	1	2	3
TOTAL	58852	57494	55146

**FOR LEVEL LOADING OF A SINGLE PRODUCT**

DRAFT (FT)	TOTAL (S.T.)	TANK NUMBER		
		3	2	1
2.5	218.48	65.37	21.68	22.19
3.0	447.74	101.87	60.29	61.71
3.5	678.69	138.88	99.07	101.40
4.0	911.23	175.76	138.30	141.55
4.5	1145.22	212.28	178.07	182.26
5.0	1380.60	248.18	218.50	223.63
5.5	1617.27	283.74	259.40	265.49
6.0	1855.19	318.66	300.93	308.00
6.5	2094.26	353.24	342.91	350.97
7.0	2334.48	387.49	385.35	394.40
7.5	2575.76	421.11	428.35	438.42
8.0	2818.09	454.31	471.83	482.91
8.5	3061.42	487.14	515.73	527.85
9.0	3305.71	519.69	560.00	573.16
9.5	3550.94	551.68	604.79	619.00
10.0	3797.06	583.44	649.91	665.18
10.5	4044.06	614.69	695.50	711.84
11.0	4291.89	645.56	741.48	758.90
11.5	4540.55	676.15	787.81	806.32

\*VALUES FOR LEVEL TRIM WITH FUEL TANK AT 98% FULL

**SPECIAL FEATURES**

1. CARGO PUMP: BYRON JACKSON MODEL 111S14GH-3 AMARILLO S200A GEAR 1:1 RATIO 2200 GPM, 250' TDH @ 180 H.P.
2. CARGO PUMP ENGINE: CUMMINS 6 CTA 8.3 ENGINE

**BARGE INFORMATION**

HULL NO.	2207-1	2207-2	2207-3	2207-4
NAME:	CBC 313	CBC 314	CBC 315	CBC 316
OFF. #	1244509	1244510	1244511	1244512

YEAR BUILT: 2012/2013  
 HULL TYPE: III  
 CARGO GRADE: A & CERTAIN  
 SUBCHAPTER "O" PRODUCTS

REV. ITEM	DESCRIPTION	DATE	BY

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TRINITY MARINE PRODUCTS, INC.  
 1800 Third Road - Amarillo, TX, 79135

CANAL BARGE COMPANY, INC.

297'-0" X 54'-0" X 12'-0" DOUBLE SKIN TANK BARGE

CARGO PIPING DIAGRAM

SCALE:	N/A	DATE:	10/30/12	DWG NO.:	P-01C
DRAWN BY: PGC	CK'D BY: SDB	APPR BY:		SHT 1 OF 1	
YARD: MADISONVILLE	TAG NO.:	38201			
HULL NO. 2207-1	THRU 4	SHOP ORDER:		REV. 0	

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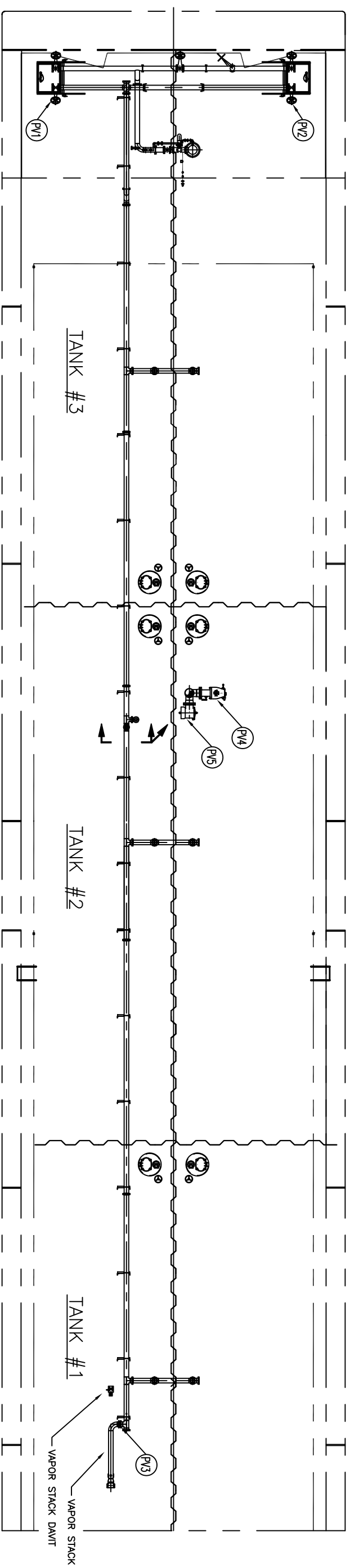
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VAPOR SYSTEM:

- PV1 STBD TRANSVERSE HEADER VALVE
- PV2 PORT TRANSVERSE HEADER VALVE
- PV3 VENT STACK BLOCK VALVE
- PV4 PRESSURE RELIEF VALVE
- PV5 VACUUM RELIEF VALVE

REV	ITEM	DESCRIPTION	DATE	BY
REVISIONS				

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**TRINITY MARINE PRODUCTS, INC.**  
TANK BARGE DIVISION  
1600 Trinity Road - Mobile, Ok., 73515

CANAL BARGE COMPANY, INC.

297'-0" X 54'-0" X 12'-0" DOUBLE SKIN TANK BARGE

VAPOR PIPING  
DIAGRAM

SCALE:	N/A	DATE:	10/8/12	DWG NO.:	P-01V
DRAWN BY:	FGC	CK'D BY:	SMB	APPR BY:	
YARD:	MADISONVILLE	TAG NO.:	38201	SHT. 1 OF 1	
HULL NO. 2207-1 THRU 4	SHOP ORDER:			REV. 0	