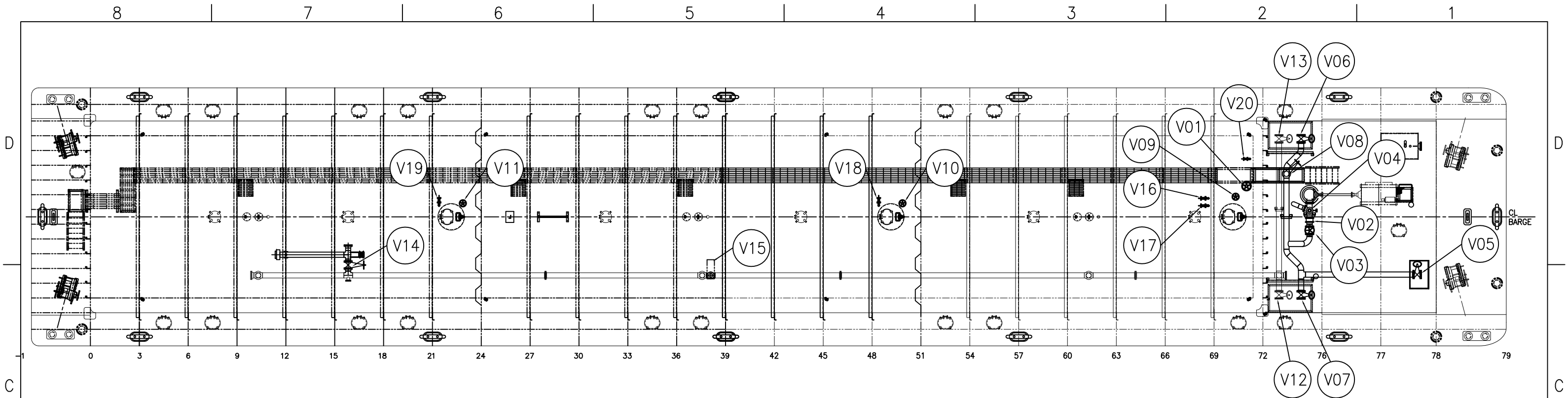


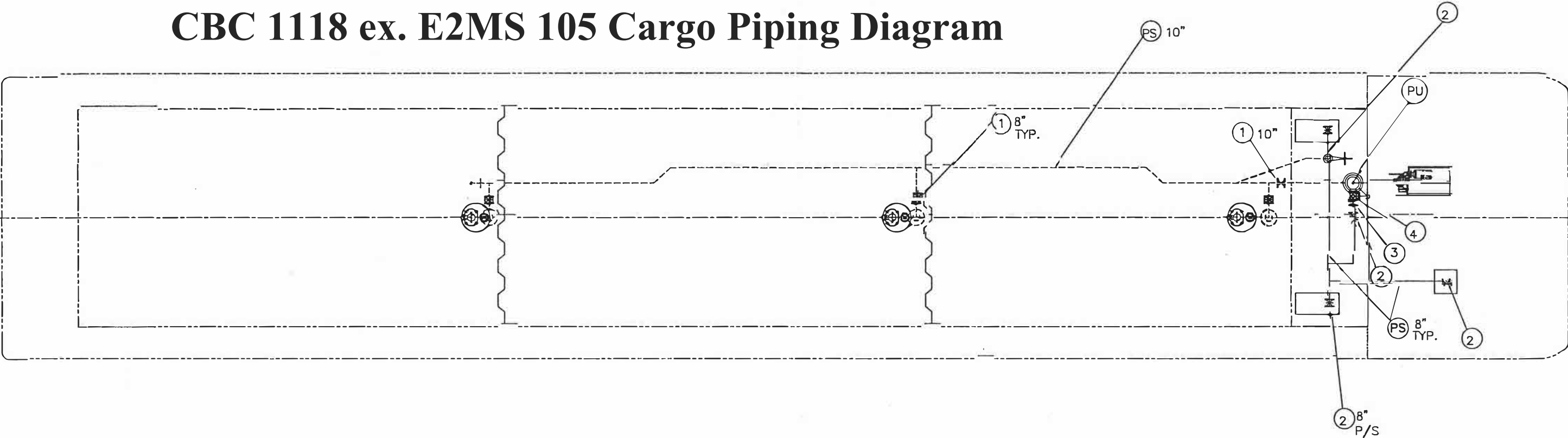


PLAN

- V01 CARGO PUMP SUCTION VALVE
- V02 CARGO PUMP DISCHARGE CHECK VALVE
- V03 CARGO PUMP DISCHARGE VALVE
- V04 CARGO PUMP RELIEF VALVE
- V05 FWD CARGO HEADER VALVE
- V06 PORT CARGO HEADER VALVE
- V07 STBD CARGO HEADER VALVE
- V08 CARGO LOADING VALVE
- V09 CARGO VALVE-TANK 1
- V10 CARGO VALVE-TANK 2
- V11 CARGO VALVE-TANK 3
- V12 STBD VAPOR HEADER VALVE
- V13 PORT VAPOR HEADER VALVE
- V14 VAPOR STACK BLOCK VALVE
- V15 VAPOR P/V VALVE
- V16 CARGO HEADER STRIPPING VALVE
- V17 STRIPPING VALVE-TANK 1
- V18 STRIPPING VALVE-TANK 2
- V19 STRIPPING VALVE-TANK 3
- V20 STRIPPING VALVE-PUMPWELL

REV	DESCRIPTION	BY	DATE
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HUCK FINN BARGE LINE			
VALVE LABEL PLATE DIAGRAM			
DRAWN BY: TA		TAG NO. 75422	DWG NO. P — 01 SHEET 1 OF 1 REV. 0
DATE: 2/20/19			
CK'D BY: TBC			
HULL NO: 6082-1 THR -10			

CBC 1118 ex. E2MS 105 Cargo Piping Diagram



- GENERAL NOTES
- 1. ALL PIPING TO MEET USCG 1 REGULATIONS.
 - 2. BACKING RINGS SHALL BE USED AT BUTT WELD JOINTS 2" AND LARGER
 - 3. PIPES PASSING THROUGH WATER/OIL TIGHT BOUNDARIES TO BE WELDED BOTH SIDES.
 - 4. CARGO SYSTEM:
PRESSURE, WORKING 125 PSI
DESIGN 150 PSI
TEST 225 PSI
RELIEF VALVE 125 PSI
PUMP WELL TEST 15 PSI
 - 5. MATERIAL TO BE AS SPECIFIED OR EQUAL
 - 6. LABELS TO BE INSTALLED ON ALL VALVES WHERE REQUIRED TO IDENTIFY SERVICE.
 - 7. ENGINE SHUT DOWN SHALL BE INSTALLED INCLUDING SIGN (45 CFR 32.50-35)
 - 8. VALVES WHICH ARE LOCATED BELOW DECK WILL BE EQUIPPED WITH SOLID STN STEEL REACH RODS.
 - 9. BARGE IS DESIGNED FOR 6.0f SERVICE.

CARGO PIPING LIST OF MATERIALS

PC. NO.	PART	DESCRIPTION	MFG	NOMINAL SIZE	MATERIAL	RATING	ASTM NO.	ANSI NO.	
PU	CARGO PUMP	11X114GH 3 STAGE PUMP W/RIGHT ANGLE GEAR	BYRON JACKSON						
ENG	ENGINE	MEDO NEF 67 MODEL	LABORDE (OFM)						
1	GATE VALVE	FIG. 15021C, FLD'D NRS	SPACE	ALL	CAST STL/CR13 TRM	150f	A-216 WCB	B16.34	
2	GATE VALVE	FIG. 15011C, FLD'D OS&Y	SPACE	ALL	CAST STL/CR13 TRM	150f	A-216 WCB	B16.34	
3	RELIEF VALVE	FIG. 260PA10L120, SET @ 125 PSI	TELEDYNE/FARRIS	4XPK6	CAST IRON	150f	A-126 CL. B	B16.34	
4	CHECK VALVE	WAFFER STYLE, 150f	DUO CHECK II	8"	CS.	150f	A-216 WCB	B16.34	
PS	PIPE	STD. WT., SEAMLESS		2" & ABOVE	STL.		A-53	B36.10	
	PIPE FLANGE	WN, SO, BLIND & SW		ALL	STL.	150f	A-105	B16.5	
	JOINTS	UNION, COUPLING		2" & BLW	F.S.	3000f	A-105	B16.11	
	PIPE FITTINGS	BUTT WELD		ABV 2"	STL.	STD.WT.	A-234	B16.9	
	PIPE FITTINGS	SCRD, SW		2" & BLW	F.S.	3000f	A-105	B16.11	
	GASKETS	NON-ASBESTOS		ALL	CARLOCK				

gk

REV

ITEM

DESCRIPTION

DATE

BY

REVISIONS

TRINITY MARINE PRODUCTS, INC.

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TRINITY MARINE PRODUCTS, INC.

P.O. BOX 700 - Wadsworth, La. 70467

E SQUARED MARINE

200'-0" X 35'-0" X 12'-6" DOUBLE SKIN TANK BARGE

CARGO PIPING DIAGRAM

SCALE: NTS

DATE: 12/15/16

DWG NO.

DRAWN BY: BP

CK'D BY:

CP-02

YARD:

TAG NO. 96273

SHT 1 OF 1

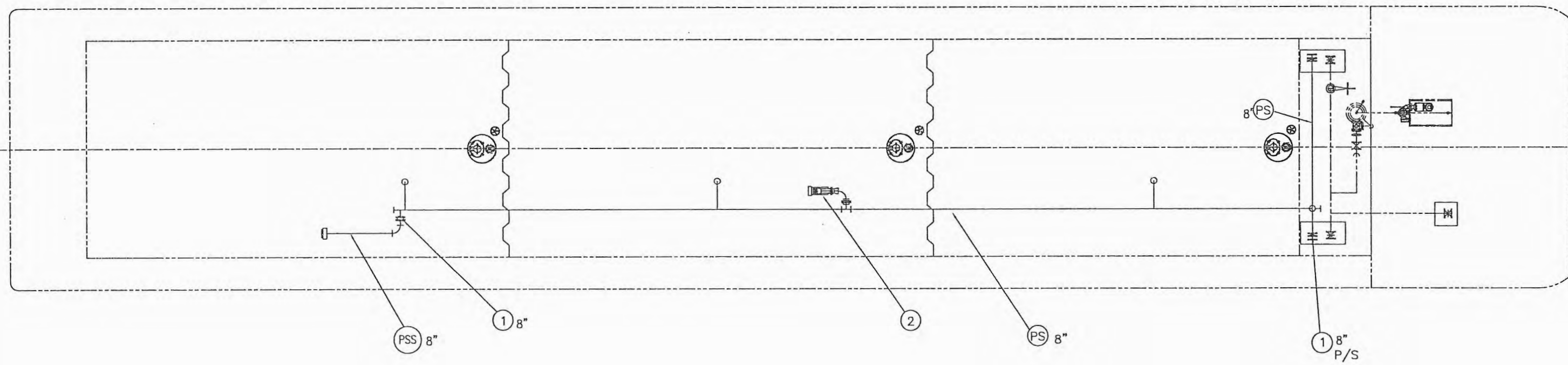
HULL NO. E2MS 105

SHOP ORDER

REV. 0

PL07: 04

CBC 1118 ex. E2MS 105 Vapor Piping Diagram



- GENERAL NOTES
- 1. ALL PIPING TO MEET USCG II REGULATIONS.
 - 2. BACKING RINGS SHALL BE USED AT BUTT WELD JOINTS 2" AND LARGER
 - 3. PIPES PASSING THROUGH WATER/OIL TIGHT BOUNDARIES TO BE WELDED BOTH SIDES.
 - 4. MATERIAL TO BE AS SPECIFIED OR EQUAL
 - 5. VAPOR HEADER EQUIPPED WITH DRAIN AT LOW POINT.
 - 6. BARGE IS DESIGNED FOR 6.0# SERVICE.

LIST OF MATERIALS

PC. NO.	PART	DESCRIPTION	MFG	NOMINAL SIZE	MATERIAL	RATING	ASTM NO.	ANSI NO.	COMMENT
1	GATE VALVE	FIG. 15011C, FLG'D OS&Y	SPACE	ALL	CAST STL/SS TRM	150#	A-216 WCB	B16.34	
2	PRESSURE-VAC. VALVE	SUPER-AC MODEL II	ERL	6"	STN. STL				
PS	PIPE	STD. WT., ERW		8"	STEEL		A-53	B36.10	
PSS	PIPE	SCHEDULE 10, SMLS		8"	STAINLESS		A-53	B36.10	
	PIPE FLANGE	W.N., S.O., BLIND		ALL	STEEL	150#	A-181	B16.5	
	PIPE FLANGE	LAP JOINT FLANGE (SWIVEL FLANGE)		8"	STEEL	150#	A-105	B16.5	
	JOINT STUB	LAP JOINT STUB END, SCHEDULE 10, 8" LONG		8"	STAINLESS STEEL	150#	A-304	B36.10	
	JOINT STUB	LAP JOINT STUB END, STD. WT. 4" LONG		8"	STEEL	150#	A-53	B36.10	
	JOINTS	UNION, CPLG, S.W.		ALL	STEEL	3000#	A-105	B16.11	
	PIPE FITTINGS	BUTT WELD,		ALL	STEEL	STD. WT.	A-234	B16.9	
	PIPE FITTINGS	BUTT WELD,		ALL	STAINLESS STEEL	SCH. 10	A-182-F304L	B16.9	
	GASKET	RING TYPE, X 1/8" THICK FOR 150# FLG.	GARLOCK	ALL		150#			
	PRESS GAUGE	4 1/2 DIA. GLYCERIN FL'D 1/2" NPT LOWER CONN.	ASHCROFT MOD 1279		316 STN. STL.	0-200 PSI			# 45-1279-SSSL 04L-XXX-0/200 PSI

REV		ITEM	DESCRIPTION	DATE	BY
REVISIONS					
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TRINITY MARINE PRODUCTS, INC.					
P.O. BOX 790 - Madisonville, LA 70447					
E SQUARED MARINE					
200'-0" X 35'-0" X 12'-6" DOUBLE SKIN TANK BARGE					
VAPOR PIPING DIAGRAM					
SCALE: NTS		DATE: 12/15/16		DWG NO.	
DRAWN BY: BP		CK'D BY:		CP-06	
YARD: E2MS 105		TAG NO. 96273		SHT 1 OF 1	
HULL NO. 5271		SHOP ORDER:		REV. 0	