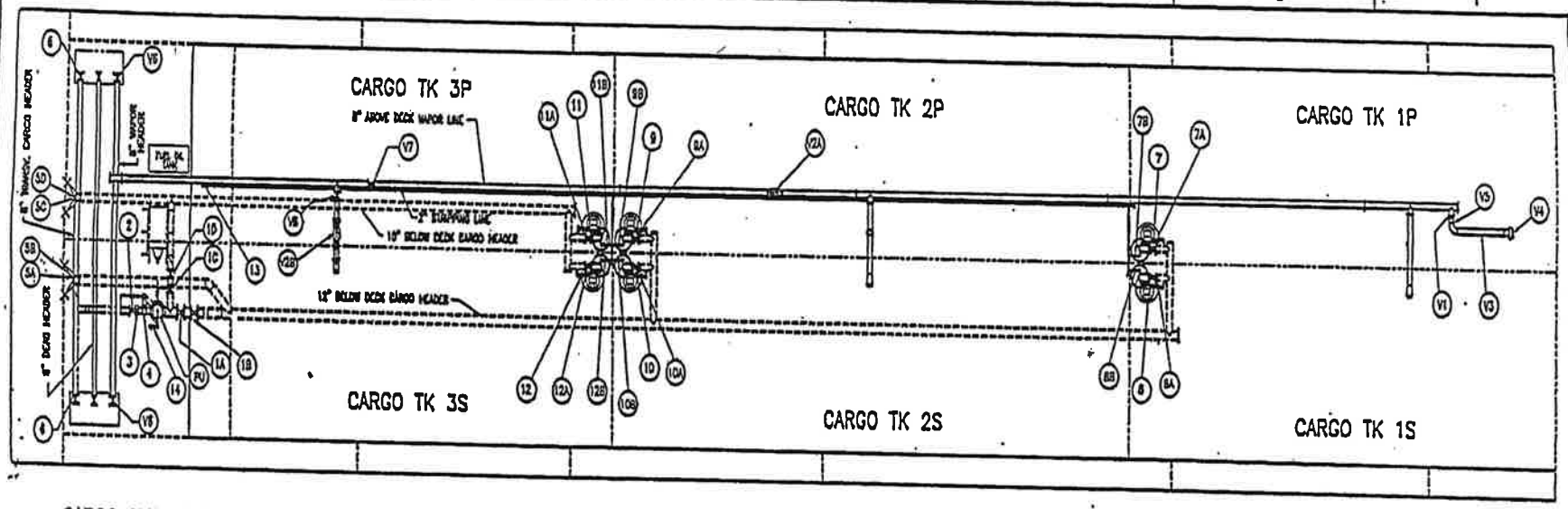

CARGO SYSTEM VALVES

1A	PUMP SUCTION VALVE TANK #1 & #2
1B	PUMP SUCTION VALVE TANK #1 & #2
1C	PUMP SUCTION VALVE, #3 TANK
1D	PUMP SUCTION VALVE, #3 TANK
2	PUMP DISCHARGE VALVE
3	PUMP DISCHARGE CHECK VALVE
4	PRESSURE RELIEF VALVE
5A	CARGO FILL/LOAD VALVE TANKS #1 & #2
5B	CARGO FILL/LOAD VALVE TANKS #1 & #2
5C	CARGO FILL/LOAD VALVE, TANK #3 ONLY
5D	CARGO FILL/LOAD VALVE, TANK #3 ONLY
6	PORT & STBD. HEADER VALVES
7	#1 PORT CARGO FILL/SUCTION VALVE
8	#1 STBD. CARGO FILL/SUCTION VALVE
9	#2 PORT CARGO FILL/SUCTION VALVE
10	#2 STBD. CARGO FILL/SUCTION VALVE
11	#3 PORT CARGO FILL/SUCTION VALVE
12	#3 STBD. CARGO FILL/SUCTION VALVE
PU	PUMP

VAPOR SYSTEM:

V1	VENT STACK VALVE
V2A	PRESS/VACCUM VALVE
V2B	PRESS/VACCUM VALVE TANK #3 ONLY
V3	VENT STACK
V4	RAIN CAP
V5	VAPOR SWIVEL JOINT
V6	CARGO VAPOR HDR VALVE
V7	VAPOR BLOCK VALVE
V8	VAPOR BLOCK VALVE

STRIPPING SYSTEM:

7A	#1 PORT CARGO STRIPPING VALVE
7B	#1 PORT CARGO AUX. STRIPPING VALVE
8A	#1 STBD. CARGO STRIPPING VALVE
8B	#1 STBD. CARGO AUX. STRIPPING VALVE
9A	#2 PORT CARGO STRIPPING VALVE
9B	#2 PORT CARGO AUX. STRIPPING VALVE
10A	#2 STBD. CARGO STRIPPING VALVE
10B	#2 STBD. CARGO AUX. STRIPPING VALVE
11A	#3 PORT CARGO STRIPPING VALVE
11B	#3 PORT CARGO AUX. STRIPPING VALVE
12A	#3 STBD. CARGO STRIPPING VALVE
12B	#3 STBD. CARGO AUX. STRIPPING VALVE
13	AUX. STRIPPING SHUTOFF VALVE
14	PUMPWELL STRIPPING VALVE

CARGO LOADING: TANKS #1 & #2 ONLY

A OPEN VALVES NO. 5A, 5B, 6, 7, 8, 9, 10

B CLOSE VALVES NO. 1A, 1B, 1C, 1D, 5C, 5D, 11, 12

C VENT TANKS

CARGO LOADING: TANK #3 ONLY

A OPEN VALVES NO. 5C, 5D, 6, 11, & 12

B CLOSE VALVES NO. 1A, 1B, 1C, 1D, 2, 5A, 5B

C VENT TANK

CARGO DISCHARGE TANKS #1 & #2 ONLY

A OPEN VALVES NO. 1A, 1B, 2, 6, 7, 8, 9, 10

B CLOSE VALVES NO. 1C 1D, 5A, 5B, 5C, 5D, 11, & 12

C VENT TANKS

CARGO DISCHARGE TANK #3 ONLY

A OPEN VALVES NO. 2, 1C, 1D, 5 11, & 12

B CLOSE VALVES NO. 1A, 1B, 5A, 5B, 5C, 5D, 7, 8, 9, 10

C VENT TANK

FMT 3056

REVISIONS

DIGITY MARINE PRODUCTS, INC.

J. RUSSELL FLOWERS, INC.

297'-6" X 54'-0" X 12'-3" DOUBLE SKIN TANK BARGE

CARGO PIPING DIAGRAM & VAPOR SYSTEM DIAGRAM

SCALE: NONE | DATE: 9/1/03 | DWG NO. F-1

DRAWN BY: DB | CHK'D BY: | APPR BY:

DRAFT: MARSHALL | MS NO. 3001

HULL NO.3000-1 THRU 3000-6 | SHIP INDEX | REV. 0

C-70-b