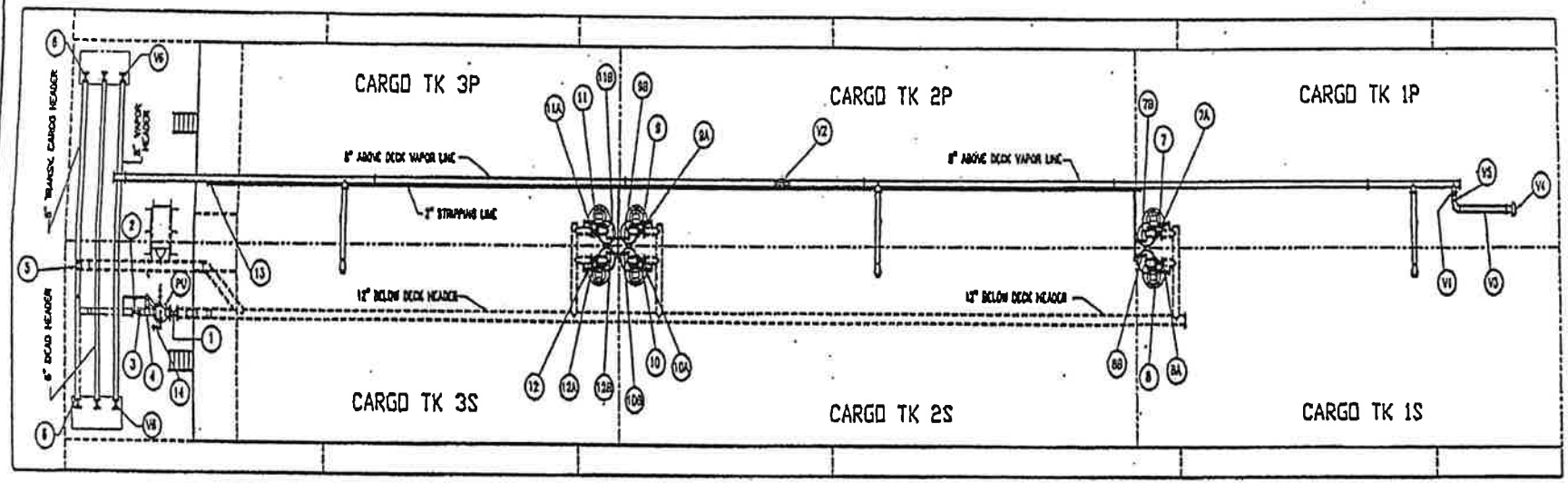

CARGO SYSTEM VALVES

1 PUMP SUCTION VALVE
2 PUMP DISCHARGE VALVE
3 PUMP DISCHARGE CHECK VALVE
4 PRESSURE RELIEF VALVE
5 CARGO FILL/LOAD VALVE
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
V2 PRESS/VACCUM VALVE
V3 VENT STACK
V4 RAIN CAP
V5 VAPOR SWIVEL JOINT
V6 CARGO VAPOR HDR 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:

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

CARGO DISCHARGE

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

FMT 3102

J. RUSSELL FLOWERS, INC.

217'-0" X 54'-0" X 17'-0" DOUBLE SKIN TANK BARGE

CARGO PIPING DIAGRAM & VAPOR SYSTEM DIAGRAM

SCALE: NONE | DATE: 8/21/00 | DWG NO. P-1

DRAWN BY: T.H. | CK'D BY: | APPR BY:

TYPE: BASEMAKLE | LAS NO. 20043 | SHT 1 OF 1

FILE NO. 2002-1 | SHIP ORDER: | REV. 0

C-107-b