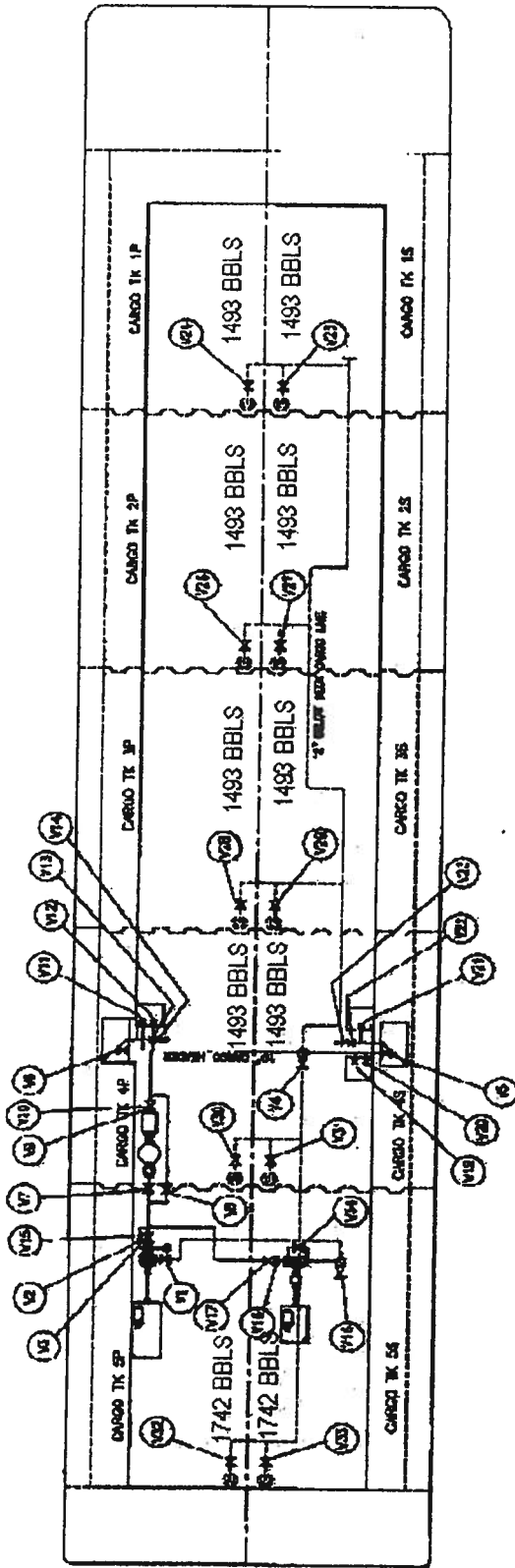


Barge Name: 303



PIPING DIAGRAM & VALVE LABELING

- V1 PORT PUMP SUCTION VALVE
- V2 PORT PUMP DISCHARGE VALVE
- V3 PORT PUMP CHECK VALVE
- V4 CARGO LOADING VALVE
- V5 STBD. TRANSVERSE HEADER VALVE
- V6 PORT TRANSVERSE HEADER VALVE
- V7 DISCHARGE METER VALVE
- V8 DISCHARGE METER BYPASS VALVE
- V9 DISCHARGE METER CHECK VALVE
- V10 DISCHARGE METER VALVE
- V11 PORT TRANSVERSE HEADER BRANCH VALVE
- V12 PORT TRANSVERSE HEADER BRANCH VALVE
- V13 PORT DRIP PAN VALVE
- V14 PORT DRIP PAN CHECK VALVE
- V15 PORT CARGO PUMP BYPASS VALVE
- V16 STBD. PUMP SUCTION VALVE
- V17 STBD. PUMP DISCHARGE VALVE
- V18 STBD. PUMP CHECK VALVE
- V19 STBD. TRANSVERSE HEADER BRANCH VALVE
- V20 STBD. TRANSVERSE HEADER BRANCH VALVE

- V21 STBD. DRIP PAN VALVE
- V22 STBD. DRIP PAN VALVE
- V23 STBD. DRIP PAN CHECK VALVE
- V24 PORT CARGO SUCTION VALVE TK1
- V25 STBD. CARGO SUCTION VALVE TK1
- V26 PORT CARGO SUCTION VALVE TK2
- V27 STBD. CARGO SUCTION VALVE TK2
- V28 PORT CARGO SUCTION VALVE TK3
- V29 STBD. CARGO SUCTION VALVE TK3
- V30 PORT CARGO SUCTION VALVE TK4
- V31 STBD. CARGO SUCTION VALVE TK4
- V32 PORT CARGO SUCTION VALVE TK5
- V33 STBD. CARGO SUCTION VALVE TK5
- V34 PUMP BYPASS VALVE

- CARGO LOADING AND UNLOADING
- ID LOAD:
- OPEN VALVES - V4, V5, V6, V24, V25, V26, V27, V28, V29, V30, V31, V32 & V33
- CLOSE VALVES - V1, V8, V10 & V18
- ID UNLOAD FROM STBD. PUMP:
- OPEN VALVES - V5, V6, V7, V10, V16, V17, V24, V25, V26, V27, V28, V29, V30, V31, V32 & V33
- CLOSE VALVES - V1, V2 & V4
- ID UNLOAD FROM PORT PUMP:
- OPEN VALVES - V1, V2, V5, V6, V7, V10, V24, V25, V26, V27, V28, V29, V30, V31, V32 & V33
- CLOSE VALVES - V4, V18 & V17