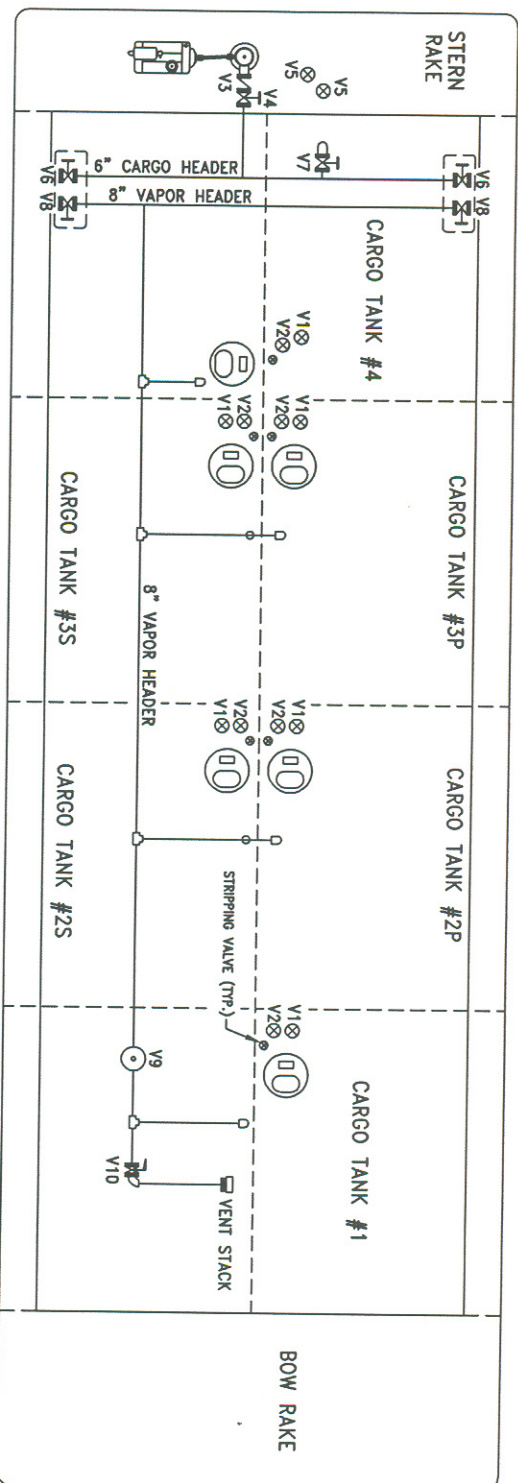


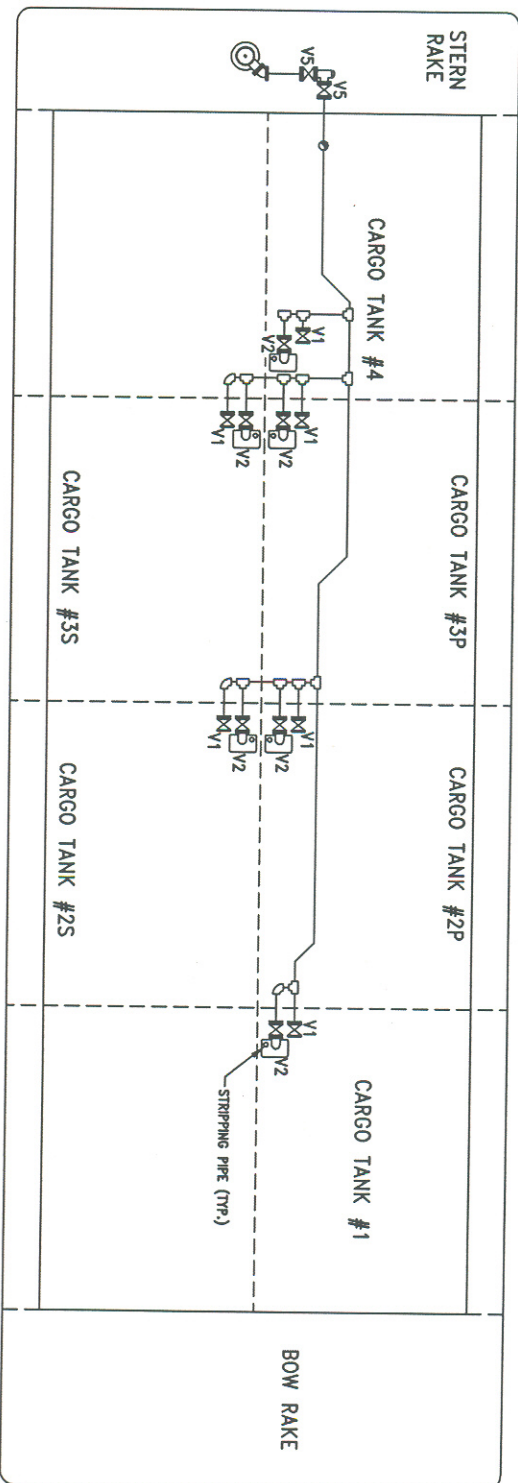
CAPACITIES - SHORT TONS AT VARIOUS DRAFTS

| DRAFT (FEET) | TOTAL S.T. | TANK NUMBERS | | | |
|---|------------|--------------|------------|------------|------------|
| | | CT #1 S.T. | CT #2 S.T. | CT #3 S.T. | CT #4 S.T. |
| 2.0' | 58.60 | 14.66 | 14.92 | 14.92 | 14.10 |
| 2.5' | 211.20 | 52.83 | 53.79 | 53.79 | 50.80 |
| 3.0' | 364.70 | 91.23 | 92.88 | 92.88 | 87.72 |
| 3.5' | 519.00 | 129.83 | 132.17 | 132.17 | 124.83 |
| 4.0' | 674.20 | 168.63 | 171.70 | 171.70 | 162.16 |
| 4.5' | 830.10 | 207.64 | 211.40 | 211.40 | 199.66 |
| 5.0' | 985.70 | 248.81 | 251.28 | 251.28 | 237.32 |
| 5.5' | 1143.90 | 288.14 | 291.32 | 291.32 | 275.13 |
| 6.0' | 1301.70 | 325.61 | 331.50 | 331.50 | 313.09 |
| 6.5' | 1460.10 | 365.23 | 371.84 | 371.84 | 351.18 |
| 7.0' | 1619.10 | 403.00 | 412.33 | 412.33 | 389.43 |
| 7.5' | 1778.60 | 444.90 | 452.95 | 452.95 | 427.79 |
| 8.0' | 1938.70 | 484.93 | 483.75 | 483.75 | 468.30 |
| 8.5' | 2099.40 | 523.15 | 534.85 | 534.85 | 504.95 |
| 9.0' | 2280.70 | 565.49 | 575.73 | 575.73 | 543.75 |
| 9.5' | 2422.50 | 605.97 | 616.94 | 616.94 | 582.88 |
| 10.0' | 2584.90 | 648.59 | 658.29 | 658.29 | 621.72 |
| 10.5' | 2747.80 | 687.34 | 699.78 | 699.78 | 660.30 |
| 11.0' | 3446.30 | 862.07 | 877.67 | 877.67 | 828.91 |
| MAXIMUM CAPACITY - BBL (96%) | | | | | |
| 16560.0 | 4142.0 | 4217.0 | 4217.0 | 3984.0 | |
| MAXIMUM CAPACITY - CU. FT. (96%) | | | | | |
| 92984.0 | 23257 | 23678 | 23678 | 22371 | |

ABOVE DECK PIPING



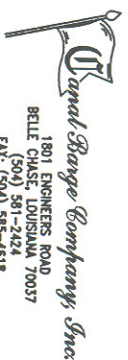
BELOW DECK PIPING



LOAD AND DISCHARGE VALVING

- | | |
|--|--|
| TO LOAD | TO PUMP |
| A. OPEN V7, #1V1, #2P V1, #2S V1, #3P V1, #3S V1, #4V1 | A. OPEN #1V2, #2P V2, #2S V2, #3P V2, #3S V2, #4V2 |
| B. OPEN V6 TO DOCK. | B. OPEN V5 AND V4 TO DOCK. |
| C. CLOSE V4 AND V5 | C. CLOSE V7 |

ORIGINAL



HULL NUMBER - TWCP 1399
NAME - CBC 198
OFFICIAL NUMBER - 9999771
YEAR BUILT - 1994
HULL TYPE - II & III
CARGO GRADE - A & LOWER
SUBCH, "O" CARGO - SOLVENTS/LIGHT CHEM.
GROSS TONS - 1061

BARGE SPECIAL FEATURES

- COMMON VAPOR HEADER
- BARGE IS EQUIPPED WITH 2" STRIPPING SYSTEM.
- BRITRON JACKSON, 3 STAGE DEEPWELL PUMP WITH HYDROSTARTER
- DETROIT DIESEL CARGO PUMP, 6-7IN PRESSURE - 1 PSI VACUUM
- P/V VALVE, 4" SE-WON HRY, 3 PSI
- ALL TANKS HAVE HEATING COILS

VALVE IDENTIFICATION

- V1 - CARGO TANK HIGH SUCTION VALVE
- V2 - CARGO TANK SUMP SUCTION VALVE
- V3 - PUMP DISCHARGE CHECK VALVE
- V4 - PUMP DISCHARGE BLOCK VALVE
- V5 - PUMP SUCTION BLOCK VALVES
- V6 - DISCHARGE HEADER VALVES
- V7 - LOADING HEADER VALVES
- V8 - VAPOR HEADER VALVES
- V9 - PRESSURE/VACUUM VALVE
- V10 - VAPOR BUTTERFLY VALVE



CBC 198 PIPING DIAGRAM

| | | |
|-----------------------------|----------------------------|-----------|
| SECTION: CARGO PIPING | SCALE: NOT TO SCALE | REVISION: |
| DRAWING NO.: CBC198PIPING | DRAWN BY: BETTI WOJBRINK | |
| FILE NAME: CBC198PIPING.DWG | CHECKED BY: BETTI WOJBRINK | |