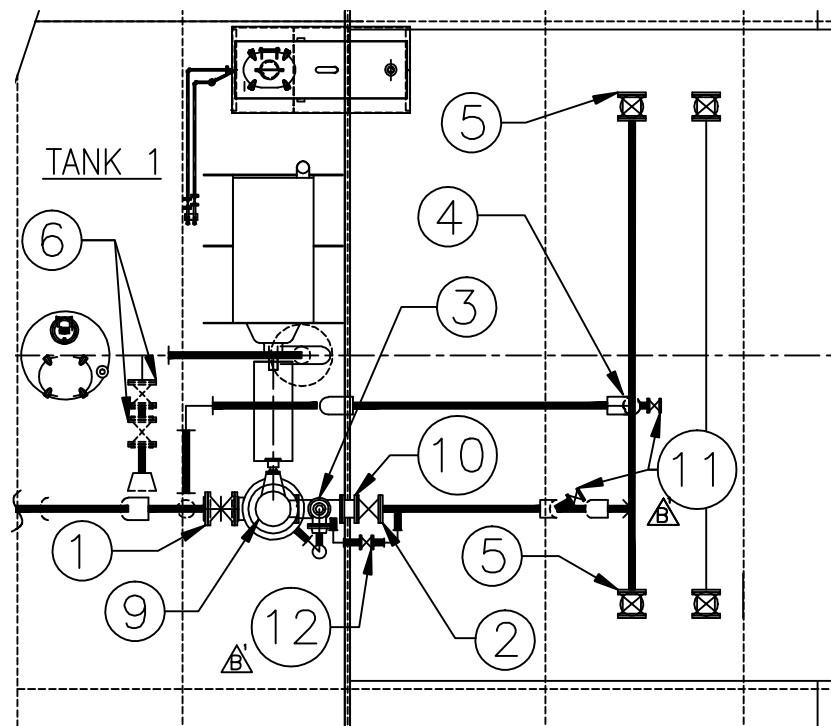
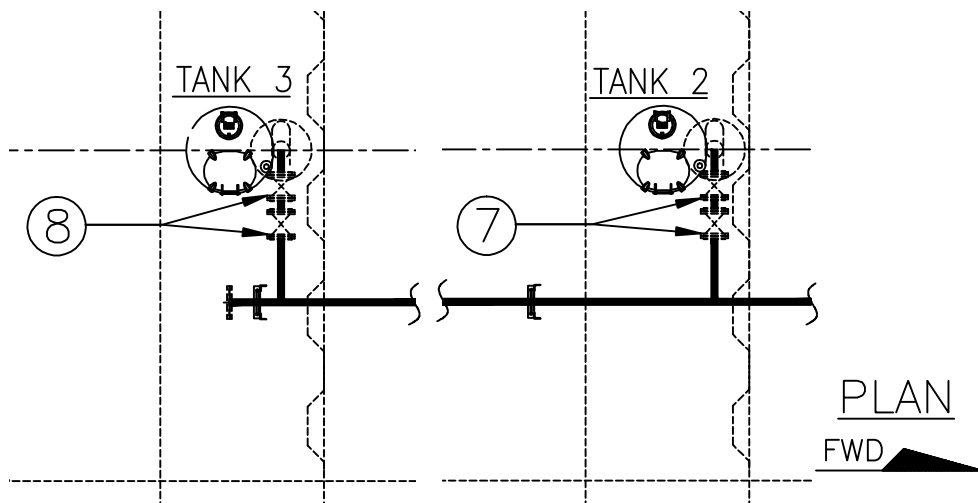


# ABV & BLW DK



△ CAPACITY—SHORT TONS AT VARIOUS DRAFTS

| DRAFT  | TOTAL  | CT1   | CT2   | CT3   |
|--------|--------|-------|-------|-------|
| 6'-0"  | 818.1  | 264.1 | 296.8 | 257.4 |
| 6'-3"  | 871.1  | 282.6 | 317.4 | 271.1 |
| 6'-6"  | 924.0  | 301.2 | 338.1 | 284.7 |
| 6'-9"  | 977.2  | 319.9 | 359.0 | 298.3 |
| 7'-0"  | 1030.2 | 338.7 | 379.9 | 311.7 |
| 7'-3"  | 1083.6 | 357.6 | 400.9 | 325.1 |
| 7'-6"  | 1136.9 | 376.5 | 421.9 | 338.5 |
| 7'-9"  | 1190.2 | 395.5 | 443.1 | 351.7 |
| 8'-0"  | 1243.7 | 414.6 | 464.3 | 364.9 |
| 8'-3"  | 1297.3 | 433.8 | 485.6 | 378.0 |
| 8'-6"  | 1350.9 | 453.0 | 506.9 | 391.0 |
| 8'-9"  | 1404.6 | 472.3 | 528.4 | 404.0 |
| 9'-0"  | 1458.4 | 491.6 | 549.9 | 416.9 |
| 9'-3"  | 1512.2 | 511.1 | 571.5 | 429.7 |
| 9'-6"  | 1566.1 | 530.6 | 593.1 | 442.5 |
| 9'-9"  | 1620.1 | 550.1 | 614.8 | 455.2 |
| 10'-0" | 1674.1 | 569.7 | 636.6 | 467.9 |
| 10'-3" | 1728.2 | 589.4 | 658.4 | 480.4 |
| 10'-6" | 1782.4 | 609.1 | 680.3 | 493.0 |

## CARGO SYSTEM VALVES

- 1— 10"—MASTER SUCTION VALVE
- 2— 8"— DISCHARGE VALVE
- 3— 6"x4"— PRESSURE RELIEF VALVE
- 4— 8"— LOAD VALVE
- 5— 8"— PORT & STBD HEADER VALVES
- 6— 8"— TK 1 FILL / SUCTION VALVE
- 7— 8"— TK 2 FILL / SUCTION VALVE
- 8— 8"— TK 3 FILL / SUCTION VALVE
- 9— PUMP
- 10— 8"— CHECK VALVE
- 11— 2"— DRAIN VALVE
- 12— 2"— BY PASS VALVE

| △ MAX. CAPACITY—BBL (FULL) |         |         |         |
|----------------------------|---------|---------|---------|
| 11186.30                   | 3510.12 | 4064.02 | 3612.26 |

| TOTAL | CT1 | CT2 | CT3 |
|-------|-----|-----|-----|
|-------|-----|-----|-----|

| △ MAX. CAPACITY—CU FT (95%) |          |          |          |
|-----------------------------|----------|----------|----------|
| 59666.25                    | 18721.98 | 21676.95 | 19267.32 |

| TOTAL | CT1 | CT2 | CT3 |
|-------|-----|-----|-----|
|-------|-----|-----|-----|

| NAME     | HULL # |
|----------|--------|
| CBC 1335 | 9628   |
| CBC 1336 | 9629   |
| CBC 1337 | 9630   |
| CBC 1338 | 9631   |

| REV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ITEM         | DESCRIPTION           | DATE    | BY           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------|---------|--------------|
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1            | ADDED 2" VALVES       | 9/9/11  | SSJ          |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1            | ADDED CAPACITY CHARTS | 9/9/11  | SSJ          |
| REVISIONS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |              |                       |         |              |
| <p>MANHOLE SOLUTIONS, INC.</p> <p>MANHOLE SOLUTIONS, INC. is a professional engineering firm. The firm and its employees are not responsible for the design or construction of any structure or equipment unless it is specifically stated in the contract documents that the firm is to provide design or construction services for the project.</p> <p>MANHOLE SOLUTIONS, INC. is a professional engineering firm. The firm and its employees are not responsible for the design or construction of any structure or equipment unless it is specifically stated in the contract documents that the firm is to provide design or construction services for the project.</p> |              |                       |         |              |
| <p><b>MANHOLE SOLUTIONS, INC.</b></p> <p><b>CANAL BARGE COMPANY</b></p> <p><b>200'-0"x35'-0"x12'-6" DOUBLE-SKIN TANK BARGE</b></p> <p><b>CARGO PIPE DIAGRAM</b></p> <p><b>(SOUTHWEST SHIPYARD, L.P.)</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                       |         |              |
| SCALE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NOT TO SCALE | DATE                  | 7/20/11 | DWG NO.      |
| DESIGN BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SSJ          | CHECK BY              | SSJ     | OF-DRAWING   |
| HULL NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SEE CHART    | CONTRACT NO.          | 0       | SHEET 1 OF 1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                       |         | REV. 2       |

