



**KIRBY INLAND MARINE**  
**CARGO, VAPOR & NITROGEN**  
**PIPING FLOW DIAGRAM**

SCALE: NONE  
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**CC 133**

- NOTE: TYPICAL ROVERG IN EACH TANK (P66)
- |     |                                     |     |                              |
|-----|-------------------------------------|-----|------------------------------|
| 10  | 4" CARGO TANK VALVE                 | 71  | 3" HEADER VALVE              |
| 20  | 6" HEADER VALVE                     | 111 | GAUGE STICK                  |
| 30  | 2" RELIEF VALVE                     | 229 | PRESSURE GAUGE               |
| 40  | 6" CARGO HEADER                     | 203 | TEMPERATURE GAUGE            |
| 50  | 4" CARGO PIPELINE                   | 204 | 4" VAPOR PENETRATOR          |
| 60  | 4" CARGO DRUP                       | 205 | PRESSURE/VACUUM RELIEF VALVE |
| 70  | NITROGEN BOTTLES (20)               | 206 | 4" VAPOR TANK VALVE          |
| 80  | 10" EMERGENCY SHUTDOWN              | 207 | 5" VAPOR HEADER              |
| 90  | 3/4" 1/2 SUPPLY VALVE & CHECK VALVE | 208 | 2" VAPOR PIPELINE            |
| 100 | 3/4" NITROGEN HEADER                | 209 | ALUMI DECK PIPING            |
| 110 | 3" REGULATOR CONTROL VALVE          | 210 | AUTOMATIC PRESS. VALVE       |
| 120 | 3/4" NITROGEN PIPELINE              | 211 |                              |

REV.	DATE	BY	CHK APP	REVISION DESCRIPTION
D	09/25/10	REL	CF	OF APPROVED