

- | NO | DESCRIPTION |
|---------------------|-------------------------|
| 1C | 4" CARGO TANK VALVE |
| 5C | 6" HEADER VALVE |
| 8C | 3 RELIEF VALVE/4" STACK |
| 19C | 6" CARGO HEADER |
| 30C | 4" CARGO PIPELINE |
| 37C | 4" CARGO DROP |
| — ABOVE DECK PIPING | |

NOTE 1: P/V VALVES VENTED TO ATMOSPHERE
 NOTE 2: 2" CONDUIT BELOW GRATE FOR EMS.

INGALLS IRON - EX: N/A

KIRBY INLAND MARINE 

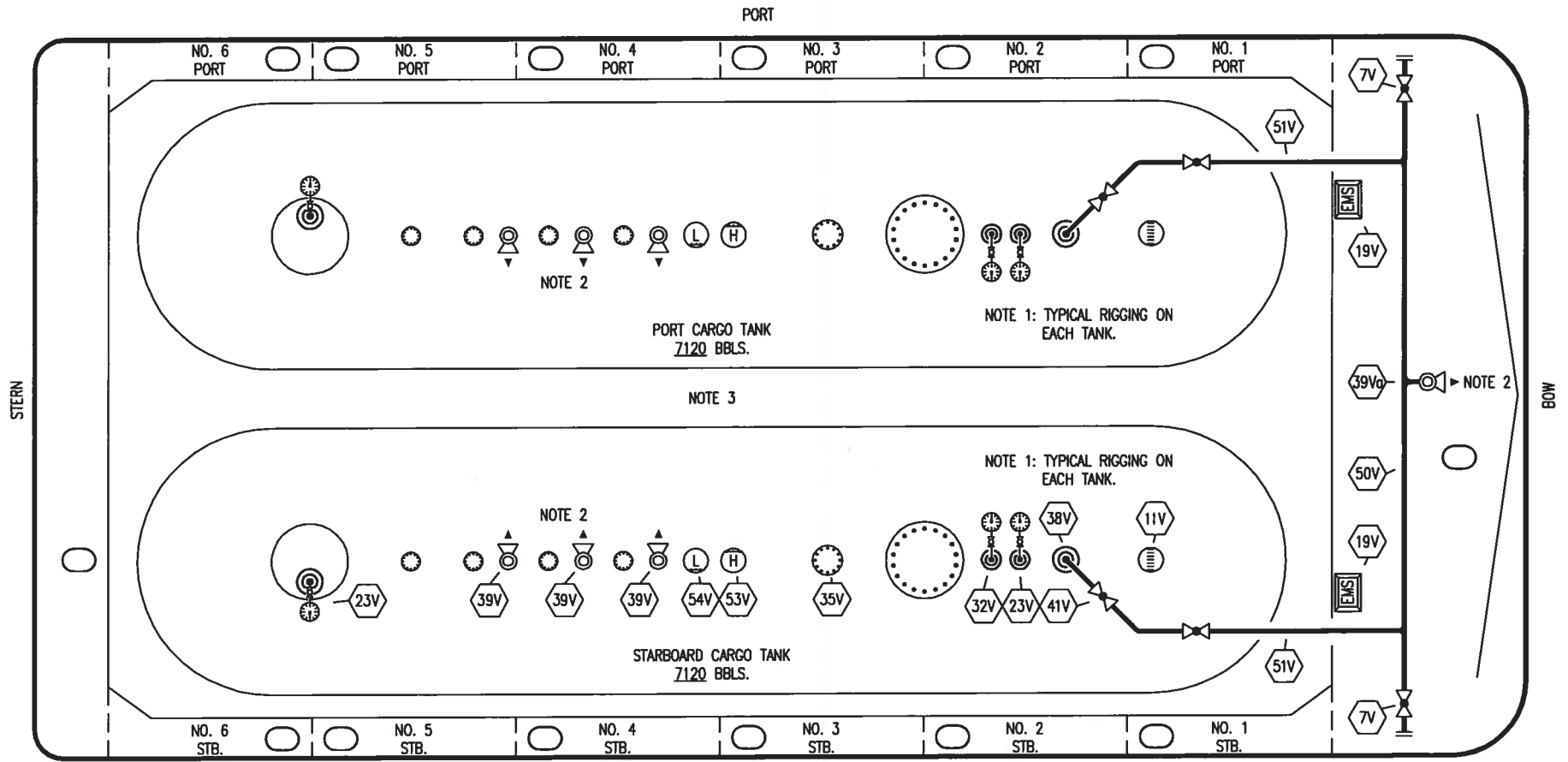
**CARGO
 PIPING FLOW DIAGRAM**

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
0	07/11/12	DCB	DDA		ISSUED FOR REVIEW

SCALE: NONE
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REV. **0**



- | NO | DESCRIPTION | NO | DESCRIPTION |
|------|----------------------------------|-----|-------------------|
| 7V | 4" HEADER VALVE | 50V | 4" VAPOR HEADER |
| 11V | GAUGE STICK (MIDDLE) | 51V | 3" VAPOR PIPELINE |
| 19V | EMERGENCY SHUT DOWN STATIONS | 53V | HIGH LEVEL GAUGE |
| 23V | PRESSURE GAUGE | 54V | LOW LEVEL GAUGE |
| 32V | TEMPERATURE GAUGE 0-160 F | — | ABOVE DECK PIPING |
| 38V | VAPOR DROP OR PENETRATION (⊙) | | |
| 39V | PRESSURE/VACUUM VALVE @ 260 PSI | | |
| 39Vo | 4" STACK-3 PRESSURE/VACUUM VALVE | | |
| 41V | 4" VAPOR TANK VALVE | | |

STARBOARD

NOTE 1: TYPICAL RIGGING ON EACH TANK
 NOTE 2: P/V VALVES VENTED TO ATMOSPHERE
 NOTE 3: 2" CONDUIT BELOW GRATE FOR EMS.

INGALLS IRON - EX: N/A

KIRBY INLAND MARINE

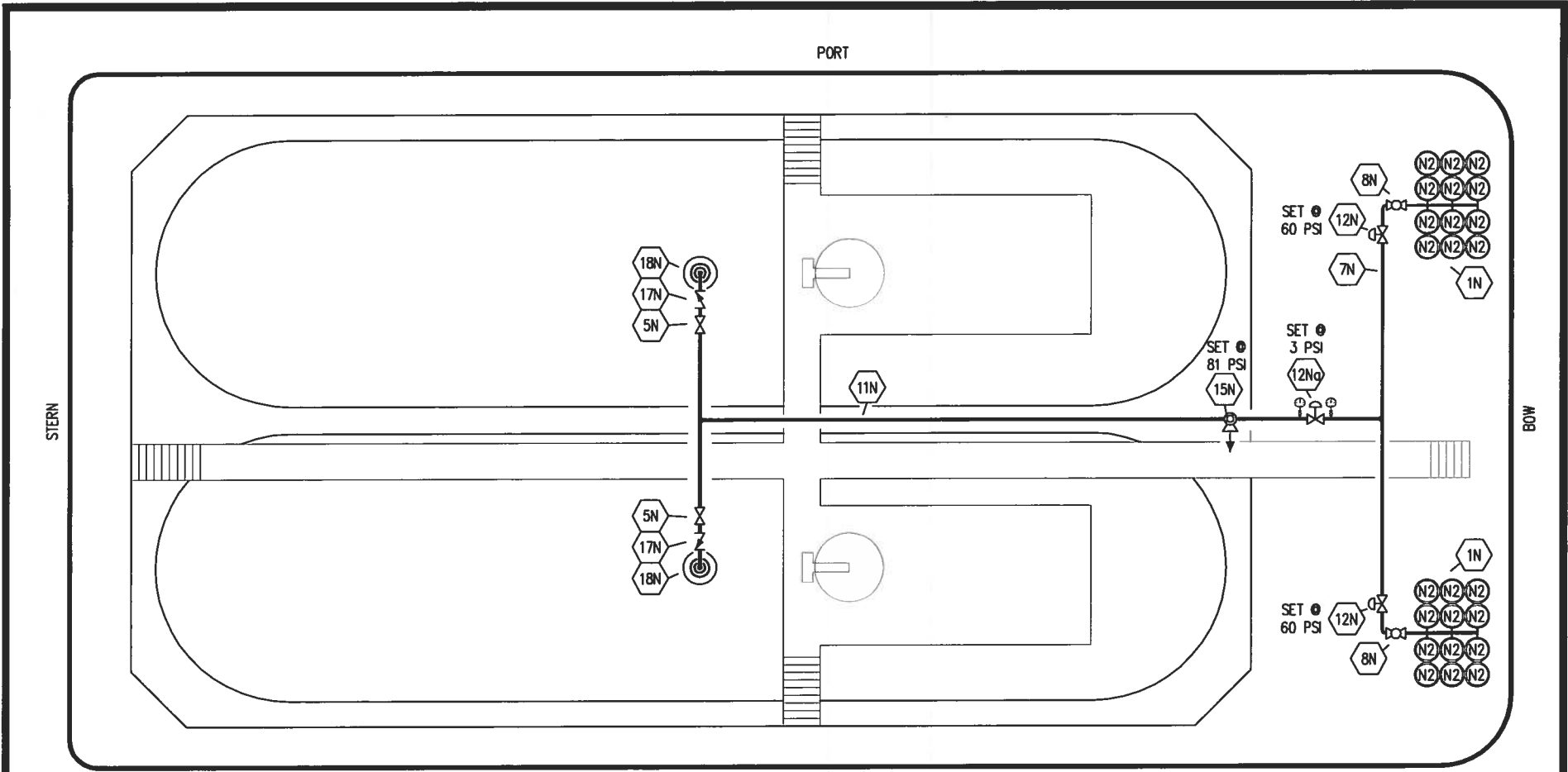
**VAPOR
PIPING FLOW DIAGRAM**

0 07/11/12	DCB	DDA	ISSUED FOR REVIEW	SCALE: NONE
REV.	DATE	BY	CHK APP	REVISION DESCRIPTION

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REV. 0



STARBOARD

- | NO | DESCRIPTION |
|------|-------------------------------|
| 1N | NITROGEN BOTTLE RACK (12 PK.) |
| 5N | N2 SUPPLY VALVE |
| 7N | NITROGEN HEADER |
| 8N | N2 REGULATOR CONTROL VALVE |
| 11N | NITROGEN PIPELINE |
| 12N | HARRIS NITROGEN REGULATOR |
| 12Na | FISHER NITROGEN REGULATOR |
| 15N | N2 RELIEF VALVE |
| 17N | N2 CHECK VALVE |
| 18N | N2 TANK PENETRATION (⊙) |
- ABOVE DECK PIPING

0	07/11/12	DCB	DDA		ISSUED FOR REVIEW
REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION

KIRBY INLAND MARINE	
NITROGEN PIPING FLOW DIAGRAM	
SCALE: NONE	USL 135
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