

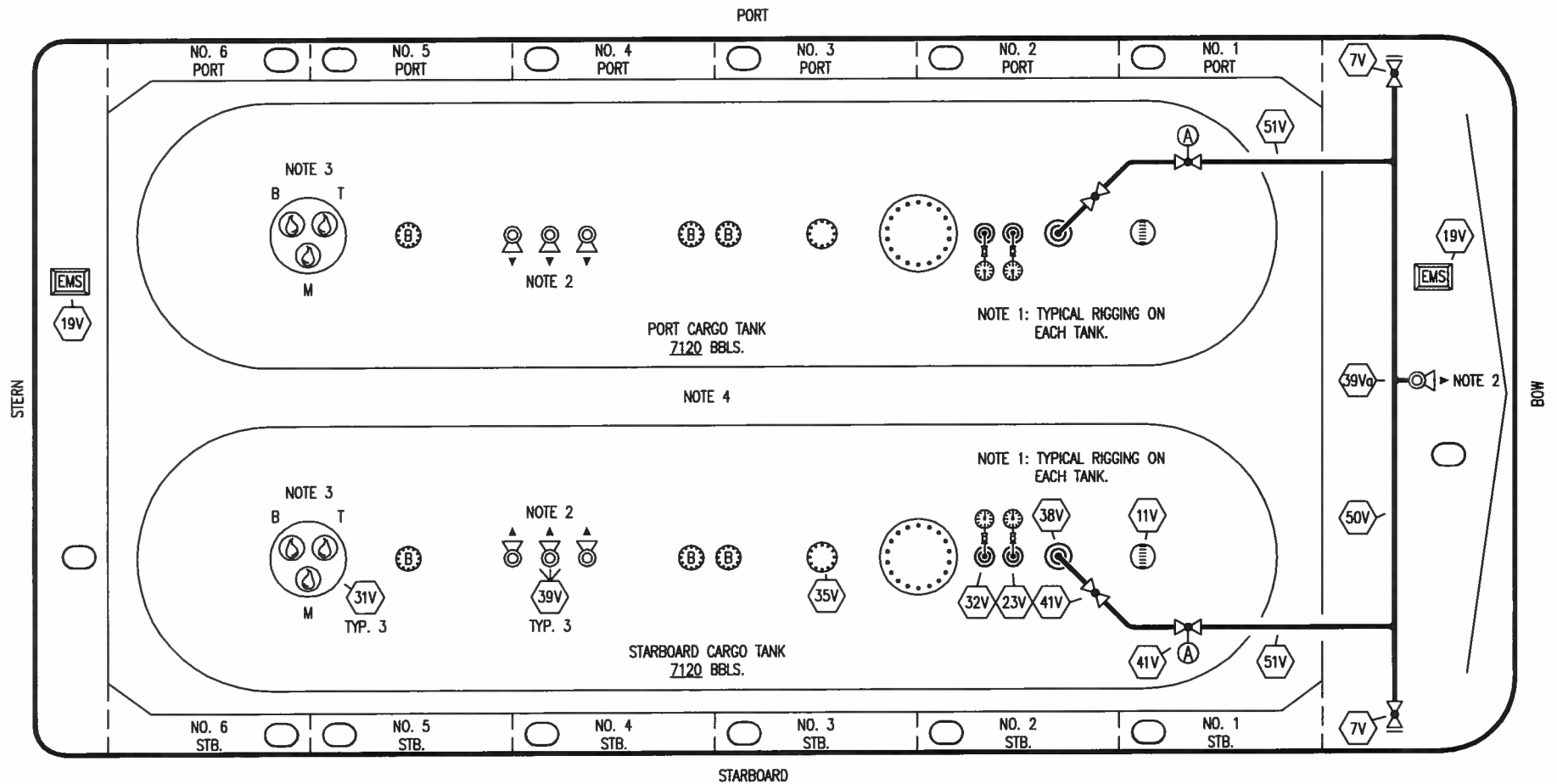
- | NO | DESCRIPTION |
|-------------------|------------------------------|
| 1C | 4" CARGO TANK VALVE |
| 5C | 6" HEADER VALVE |
| 8C | 3 RELIEF VALVE/4" STACK |
| 19C | 6" CARGO HEADER |
| 30C | 4" CARGO PIPELINE |
| 37C | 4" CARGO DROP |
| (A) | AIR ACTUATED AUTOMATIC VALVE |
| ABOVE DECK PIPING | |

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					
0	02/09/12	DCB	DDA	ISSUED FOR APPROVAL	SCALE: NONE
REV.	DATE	BY	CHK APP	REVISION DESCRIPTION	PAGE: 1 OF 3
					USL 145
					REV. 0



STARBOARD

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	—	ABOVE DECK PIPING
23V	PRESSURE GAUGE 0-300#	⊙	BLIND
31V	SAMPLE STATIONS	(A)	AIR ACTUATED AUTOMATIC VALVE
32V	TEMPERATURE GAUGE 0-160 F		
35V	12" NOZZLE W/ 2" BLIND		
38V	VAPOR DROP OR PENETRATION ⊙		
39V	PRESSURE/VACUUM VALVE @ 260 PSI		
39Vq	4" STACK-3 PRESSURE/VACUUM VALVE		
41V	3" VAPOR TANK VALVE		

NOTE 1: TYPICAL RIGGING ON EACH TANK
 NOTE 2: P/V VALVES VENTED TO ATMOSPHERE
 NOTE 3: SAMPLES-T=TOP, M=MIDDLE, B=BOTTOM
 NOTE 4: 2" CONDUIT BELOW GRATE FOR EMS.

INGALLS IRON - EX: N/A

0	02/09/12	DCB	DDA	APPROVED	
REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION

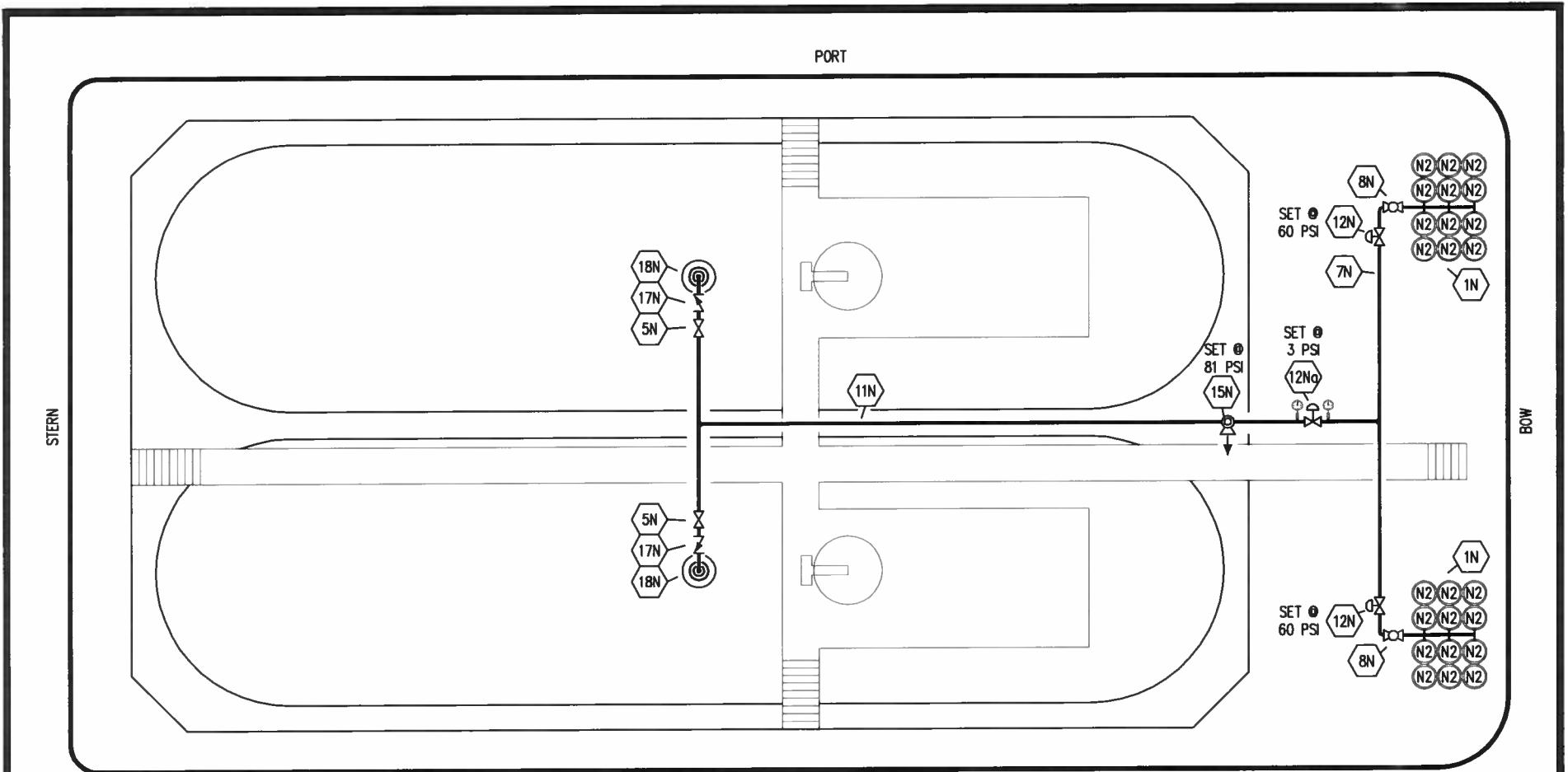
KIRBY INLAND MARINE 

**VAPOR
PIPING FLOW DIAGRAM**

SCALE: NONE
PAGE: 2 OF 3

USL 145

REV. **0**



STERN

BOW


PORT

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 |
| 12No | FISHER NITROGEN REGULATOR |
| 15N | N2 RELIEF VALVE |
| 17N | N2 CHECK VALVE |
| 18N | N2 TANK PENETRATION (⊙) |

— ABOVE DECK PIPING

0	02/09/12	DCB	DDA	ISSUED FOR APPROVAL	
REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION

<p>KIRBY INLAND MARINE </p> <p>NITROGEN PIPING FLOW DIAGRAM</p>		<p>USL 145</p>	REV. 0
			<p>SCALE: NONE</p> <p>PAGE: 3 OF 3</p>