

- | NO | DESCRIPTION |
|-----|------------------------------|
| 1C | CARGO TANK VALVE |
| 5C | HEADER VALVE |
| 8C | RELIEF VALVE/STACK |
| 11C | BLEED OFF VALVE |
| 19C | CARGO HEADER |
| 26C | DRAIN (BLEED) VALVE |
| 30C | CARGO PIPELINE |
| 36C | PRESSURE GAUGE |
| 37C | 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.

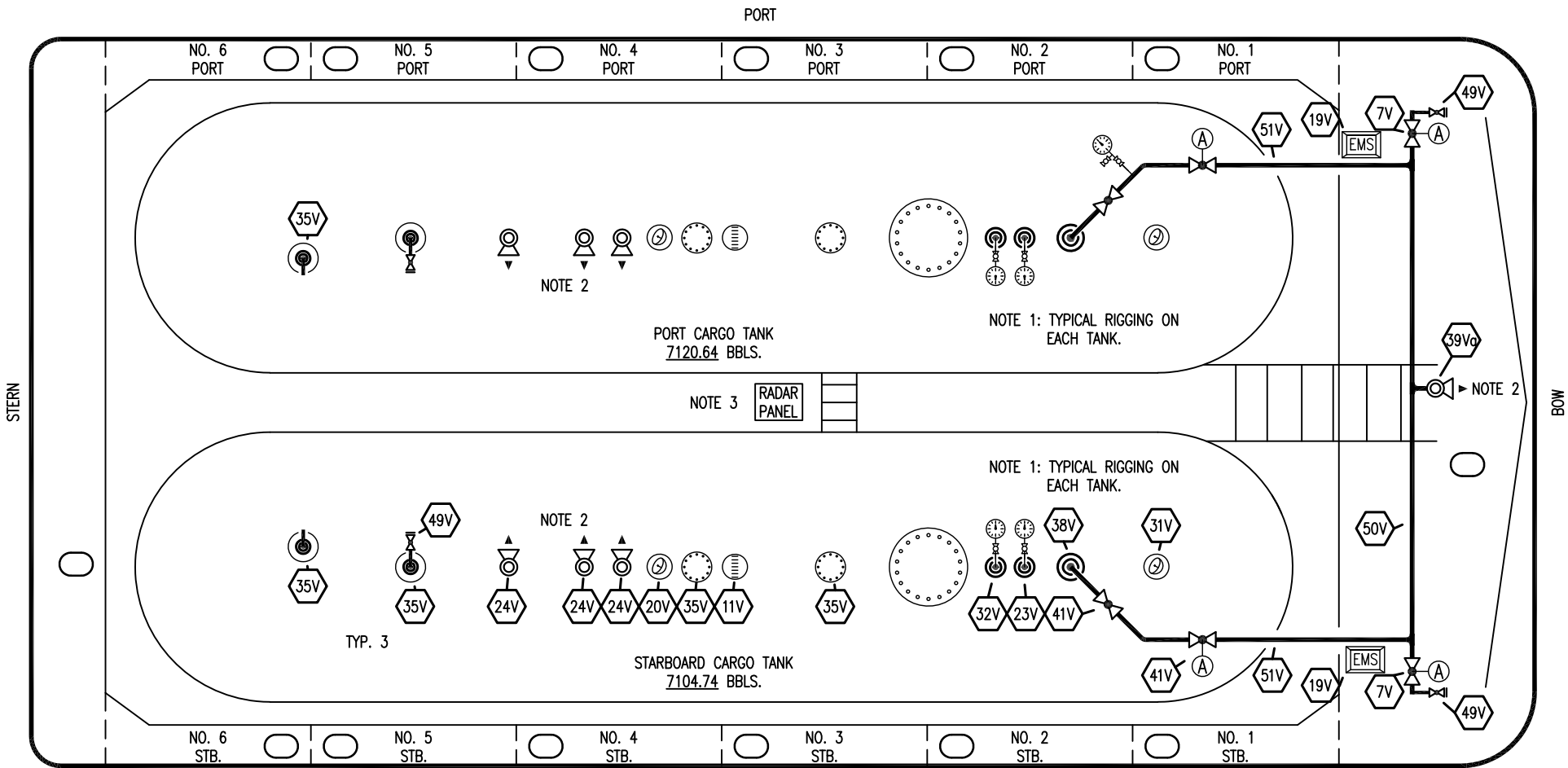
INGALLS IRON - EX: N/A

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
1	01/25/24	MRV	DDA	DAR	REVISED PER CLIENT COMMENTS
0	11/14/11	JN	DDA		ISSUED FOR APPROVAL

KIRBY INLAND MARINE

CARGO
PIPING FLOW DIAGRAM

SCALE: NONE	CC 132
PAGE: 1 OF 3	REV. 1



PORT CARGO TANK
7120.64 BBLs.

STARBOARD CARGO TANK
7104.74 BBLs.


STARBOARD

NO	DESCRIPTION	NO	DESCRIPTION
7V	HEADER VALVE	39V	STACK-3 PRESSURE/VACUUM VALVE
11V	GAUGE STICK (MIDDLE)	41V	VAPOR TANK VALVE
19V	EMERGENCY SHUT DOWN STATIONS	49V	BLEED VALVE
20V	RADAR GAUGING	50V	VAPOR HEADER
23V	PRESSURE GAUGE	51V	VAPOR PIPELINE
24V	PRESSURE RELIEF VALVE	53V	HIGH LEVEL GAUGE
31V	RADAR SAMPLE STATION	54V	LOW LEVEL GAUGE
32V	TEMPERATURE GAUGE	—	ABOVE DECK PIPING
35V	NOZZLE W/BLIND	(A)	AIR ACTUATED AUTOMATIC VALVE
38V	VAPOR DROP OR PENETRATION		

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

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
2	01/25/24	MRV	DDA	DAR	REVISED PER CLIENT COMMENTS
1	12/09/13	GP	DDA		REVISED PER CLIENT COMMENTS
0	11/14/11	JN	DDA		ISSUED FOR APPROVAL



KIRBY INLAND MARINE

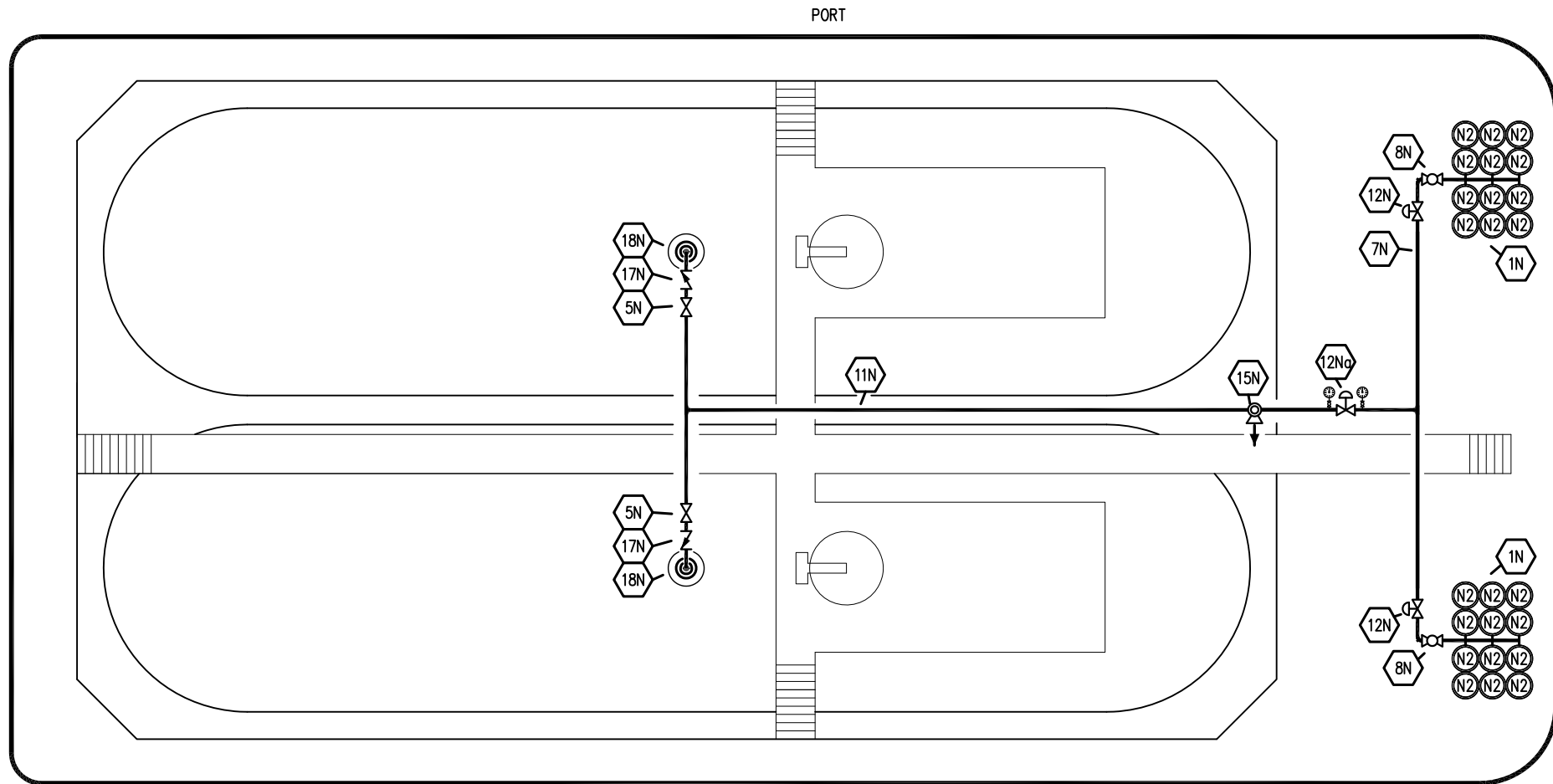
VAPOR PIPING FLOW DIAGRAM

CC 132

SCALE: NONE

PAGE: 2 OF 3

REV. 2



- | 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 |
| 12Ng | FISHER NITROGEN REGULATOR |
| 15N | N2 RELIEF VALVE |
| 17N | N2 CHECK VALVE |
| 18N | N2 TANK PENETRATION (⊙) |

— ABOVE DECK PIPING

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
1	01/25/24	MRV	DDA	DAR	REVISED PER CLIENT COMMENTS
0	11/14/11	JN	DDA		ISSUED FOR APPROVAL

KIRBY INLAND MARINE 

**NITROGEN
PIPING FLOW DIAGRAM**

SCALE: NONE
PAGE: 3 OF 3

CC 132

REV. **1**