


- | 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 |

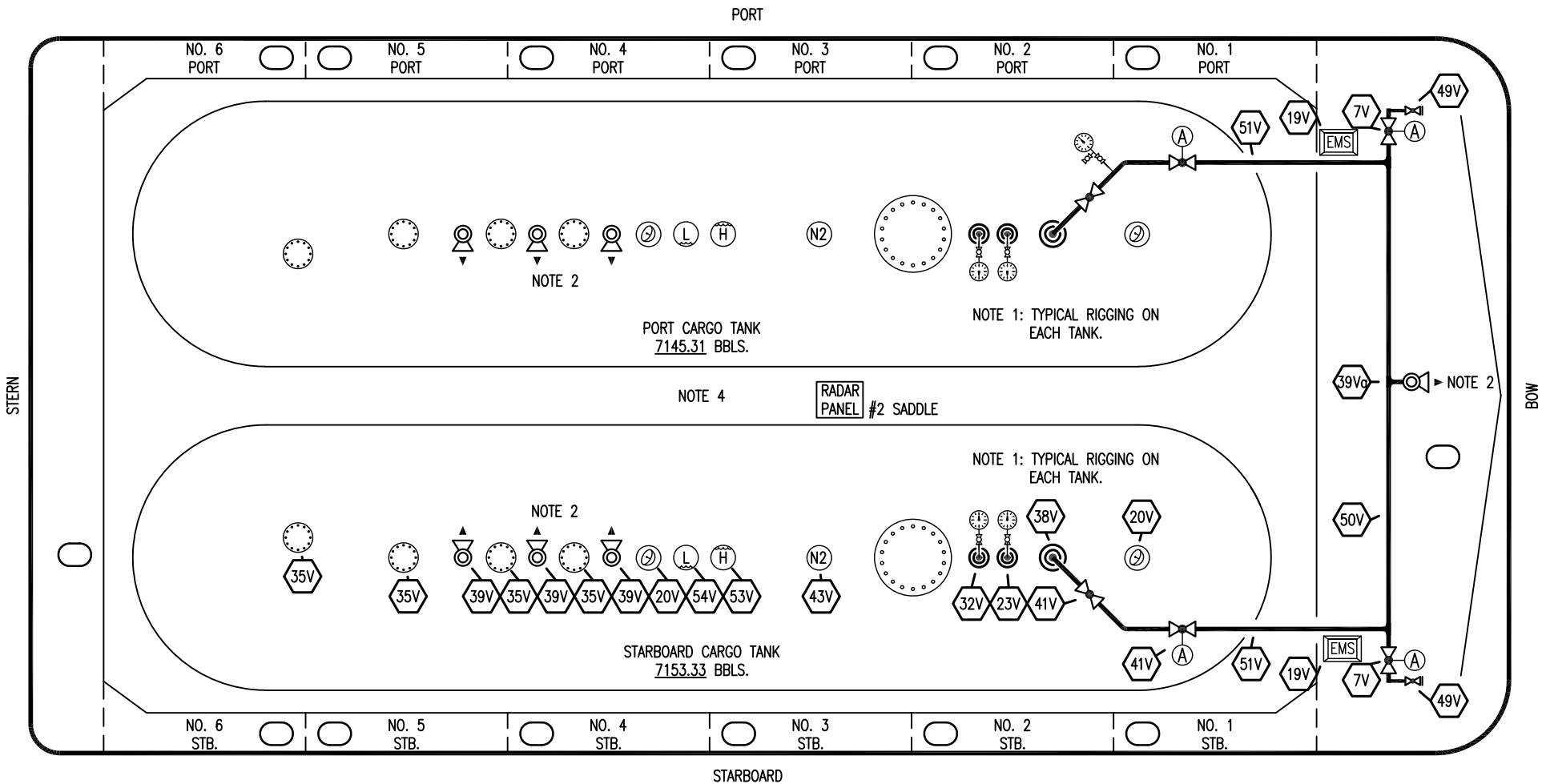
NOTE 1: P/V VALVES VENTED TO ATMOSPHERE




NOTE 2: CONDUIT BELOW GRATE FOR EMS.

INGALLS IRON – EX: N/A

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
1	01/27/23	MRV	DDA	DAR	REVISED PER CLIENT COMMENTS
0	12/12/11	DCB	DDA		ISSUED FOR APPROVAL

<h1>KIRBY INLAND MARINE</h1> 		
		<h2>CARGO</h2> <h3>PIPING FLOW DIAGRAM</h3>
SCALE: NONE PAGE: 1 OF 3	<h1>USL 136</h1>	REV. 1




NO	DESCRIPTION	NO	DESCRIPTION
7V	HEADER VALVE	43V	N2 TEST CONNECTION
19V	EMERGENCY SHUT DOWN STATIONS	49V	BLEED VALVE
20V	RADAR GAUGING	50V	VAPOR HEADER
23V	PRESSURE GAUGE	51V	VAPOR PIPELINE
32V	TEMPERATURE GAUGE	53V	HIGH LEVEL GAUGE
35V	NOZZLE W/BLIND	54V	LOW LEVEL GAUGE
38V	VAPOR DROP OR PENETRATION 		ABOVE DECK PIPING
39V	PRESSURE/VACUUM VALVE		AIR ACTUATED AUTOMATIC VALVE
39Vd	STACK-PRESSURE/VACUUM VALVE		
41V	VAPOR TANK VALVE		

NOTE 1: TYPICAL RIGGING ON EACH TANK
 NOTE 2: P/V VALVES VENTED TO ATMOSPHERE
 NOTE 4: CONDUIT BELOW GRATE FOR EMS.

INGALLS IRON - EX: N/A

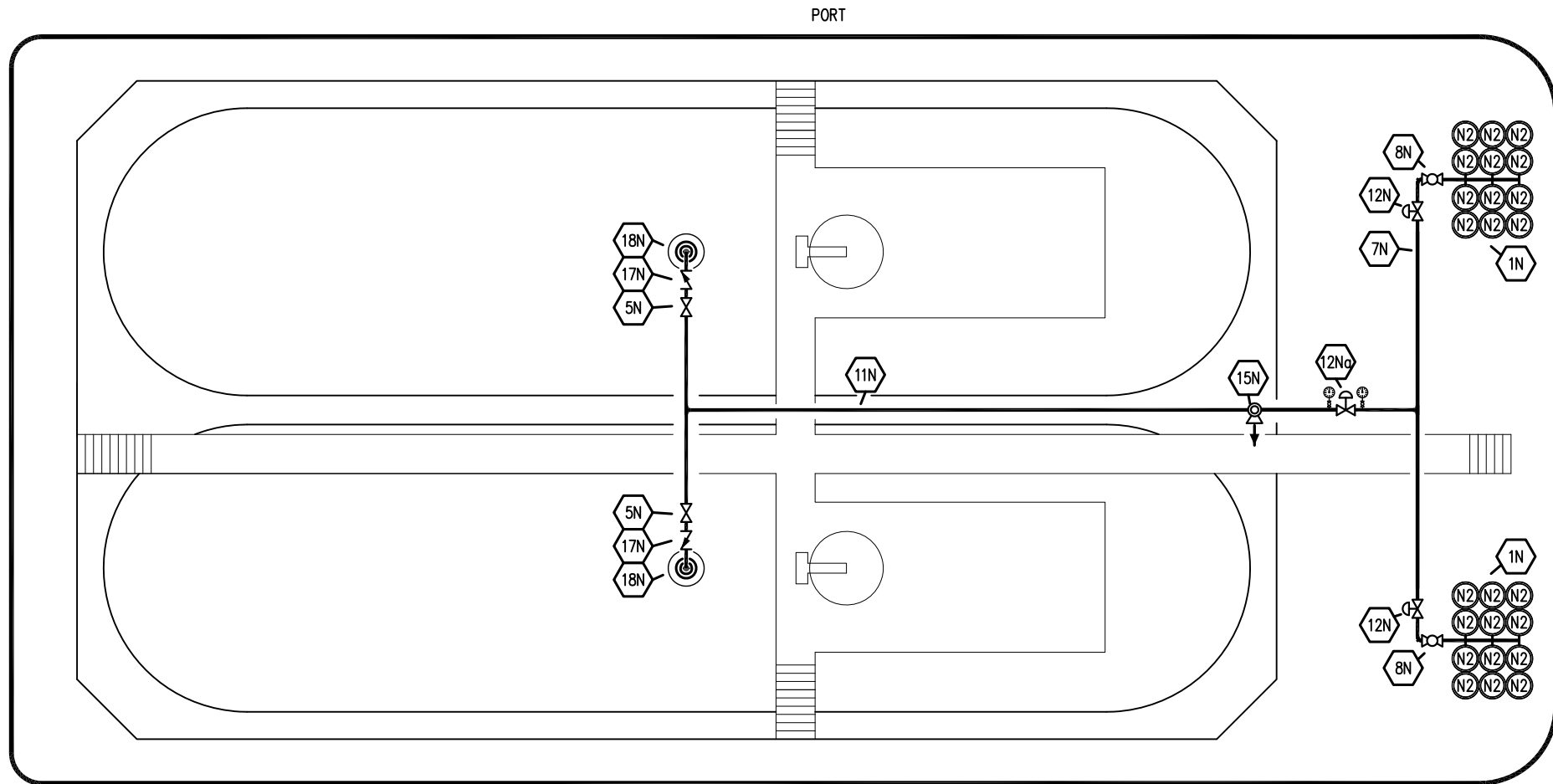
REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
1	01/27/23	MRV	DDA	DAR	REVISED PER CLIENT COMMENTS
0	12/12/11	DCB	DDA		ISSUED FOR APPROVAL



KIRBY INLAND MARINE

VAPOR PIPING FLOW DIAGRAM

USL 136	REV. 1
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- | 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

STARBOARD

INGALLS IRON – EX: N/A

KIRBY INLAND MARINE 

**NITROGEN
PIPING FLOW DIAGRAM**

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
1	01/27/23	MRV	DDA	DAR	REVISED PER CLIENT COMMENTS
0	12/12/11	DCB	DDA		ISSUED FOR APPROVAL

SCALE: NONE
PAGE: 3 OF 3

USL 136

REV. **1**