

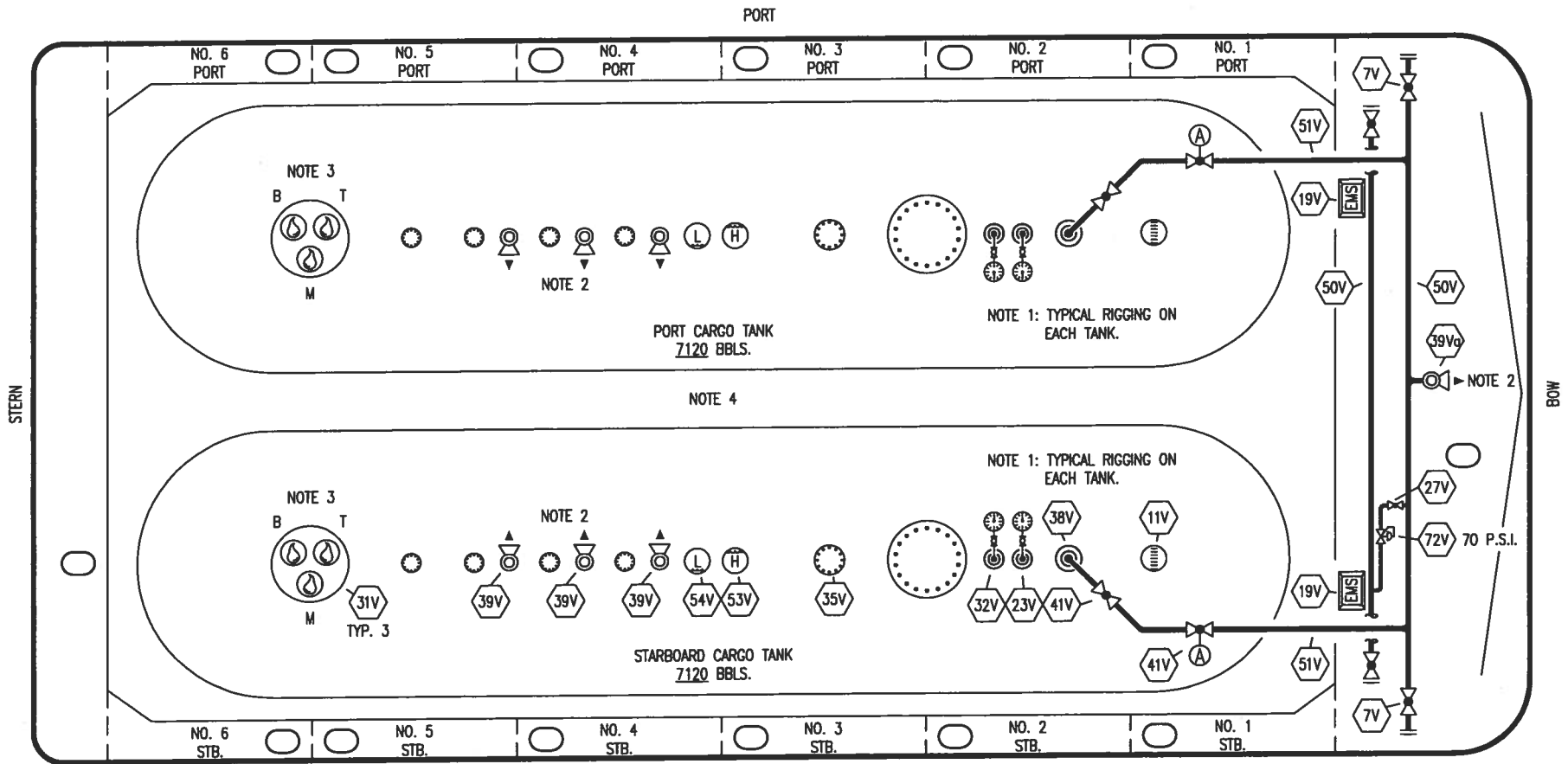
- | NO | DESCRIPTION |
|-----|------------------------------|
| 1C | 4" CARGO TANK VALVE |
| 5C | 6" HEADER VALVE |
| 8C | 3 RELIEF VALVE/4" STACK |
| 19C | 6" CARGO HEADER |
| 26C | DRAIN (BLEED) VALVE |
| 30C | 4" CARGO PIPELINE |
| 37C | 4" CARGO DROP (⊙) |
| (A) | AIR ACTUATED AUTOMATIC VALVE |
| — | ABOVE DECK PIPING |

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

INGALLS IRON - EX: N/A

1	08/12/13	DCB	DDA		REVISED HEADER
D	01/08/10	RB	BR	OF	APPROVED
REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION

KIRBY INLAND MARINE	
CARGO PIPING FLOW DIAGRAM	
SCALE: NONE	USL 147
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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
27V	VALVE	54V	LOW LEVEL GAUGE
31V	SAMPLE STATIONS	72V	VAPOR DISCHARGE REGULATOR
32V	TEMPERATURE GAUGE 0-160 F	(A)	AIR ACTUATED VALVE
38V	VAPOR DROP OR PENETRATION (⊙)		
39V	PRESSURE/VACUUM VALVE @ 260 PSI		
39V	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

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
1	08/12/13	DCB	DDA		REVISED HEADERS
0	01/08/10	RB	BR	OF	APPROVED

KIRBY INLAND MARINE

**VAPOR
PIPING FLOW DIAGRAM**

USL 147

SCALE: NONE	REV. 1
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