


NO	SIZE	DESCRIPTION	NO	SIZE	DESCRIPTION
1C	8"	CARGO TANK VALVE	22C	19"	BUTTERWORTH
2C	8"	LOAD VALVE	25C		SAMPLE POINT OR POT
3C	10"	MASTER SUCTION VALVE	26C	10"x8"	ECCENTRIC REDUCER
4C	8"	DISCHARGE VALVE	27C	4"	DRIP PAN DRAIN VALVE
5C	8"	HEADER VALVE	28C	6"	HIGH LOAD VALVE
8C	6"	RELIEF VALVE	11V		GAUGE STICK (LENGTH)
9Ca	8"	CHECK VALVE	18V		RESTRICTIVE GAUGE TUBE
9Cb	1"	CHECK VALVE	30V		THERMAL WELL WITH PIPE CAP
15C	2"	BYPASS VALVE (AROUND CHECK VALVE)	38Ca		DEEPWELL DRAIN VALVE
16C		DISCHARGE PRESSURE GAUGE	38Cb	1"	GATE VALVE
19C	8"	CARGO HEADER	41C		SUCTION BLOCK VALVE

NO	SIZE	DESCRIPTION
48C		FLOW METER
17S		FORWARD TANK STRIPPING
---		ABOVE DECK PIPING
---		BELOW DECK PIPING

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
1	12/21/22	MRV	DDA	TFB	REVISED PER CLIENT COMMENTS
0	10/12/15	BB	SC		REVISED PER CLIENT COMMENTS
A	10/22/14	DDA	DDA		ISSUED FOR APPROVAL

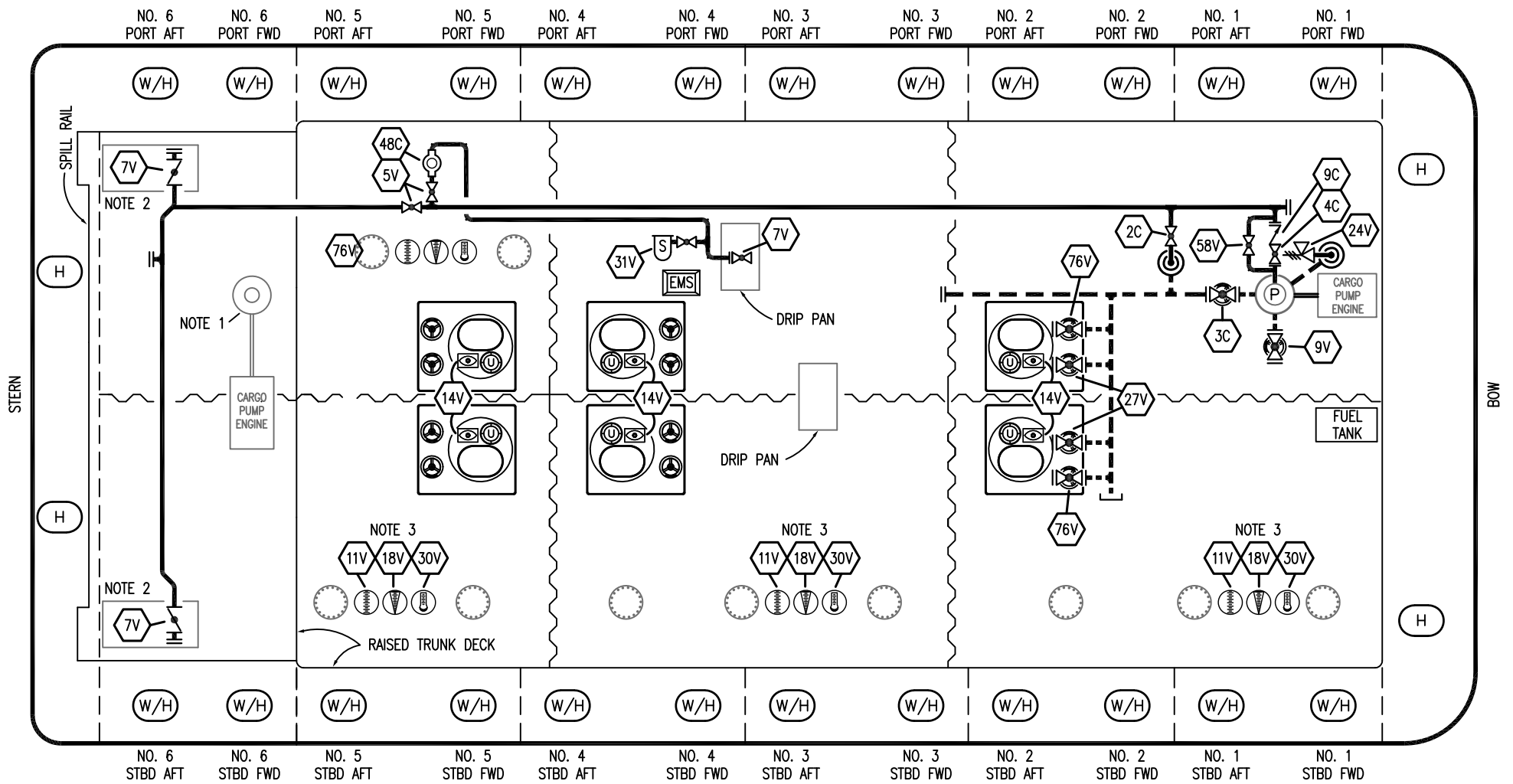
NOTE 2: 6 BARREL DRIP PAN
NOTE 3: PICKLING LINE

TRINITY MARINE

KIRBY INLAND MARINE 

**HEAVY OIL CARGO
PIPING FLOW DIAGRAM**

SCALE: NONE	KIRBY 28713	REV. 1
PAGE: 1 OF 3		



NO	SIZE	DESCRIPTION	NO	SIZE	DESCRIPTION
2C		LOAD VALVE	16V	8"	VAPOR VENT STACK
3C		MASTER SUCTION VALVE	18V		RESTRICTIVE GAUGE TUBE
4C		DISCHARGE VALVE	19V		EMERGENCY SHUTDOWN SYSTEM
5V		BLOCK VALVE	23V		PRESSURE GAUGE
9C		CHECK VALVE	24V	6"	PRESSURE RELIEF VALVE
7V	8"	HEADER VALVE	27V		TANK VALVE
8V	8"	VENT STACK VALVE	30V	2"	THERMAL WELL WITH PIPE CAP
9V		DEEP WELL DRAIN VALVE	31V		SAMPLE STATION
11V		GAUGE STICK (LENGTH)	48C		FLOW METER
14V		SIGHT GLASS	58V		BYPASS VALVE
15V		INSPECTION PORT	76V		HIGH SUCTION VALVE

NOTE 1: DEEPWELL PUMP
 NOTE 2: 6 BARREL DRIP PAN
 NOTE 3: TYPICAL RIGGING IN EACH TANK

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
0	12/21/22	MRV	DDA	TFB	REVISED PER CLIENT COMMENTS
A	10/22/14	DDA	DDA		ISSUED FOR APPROVAL

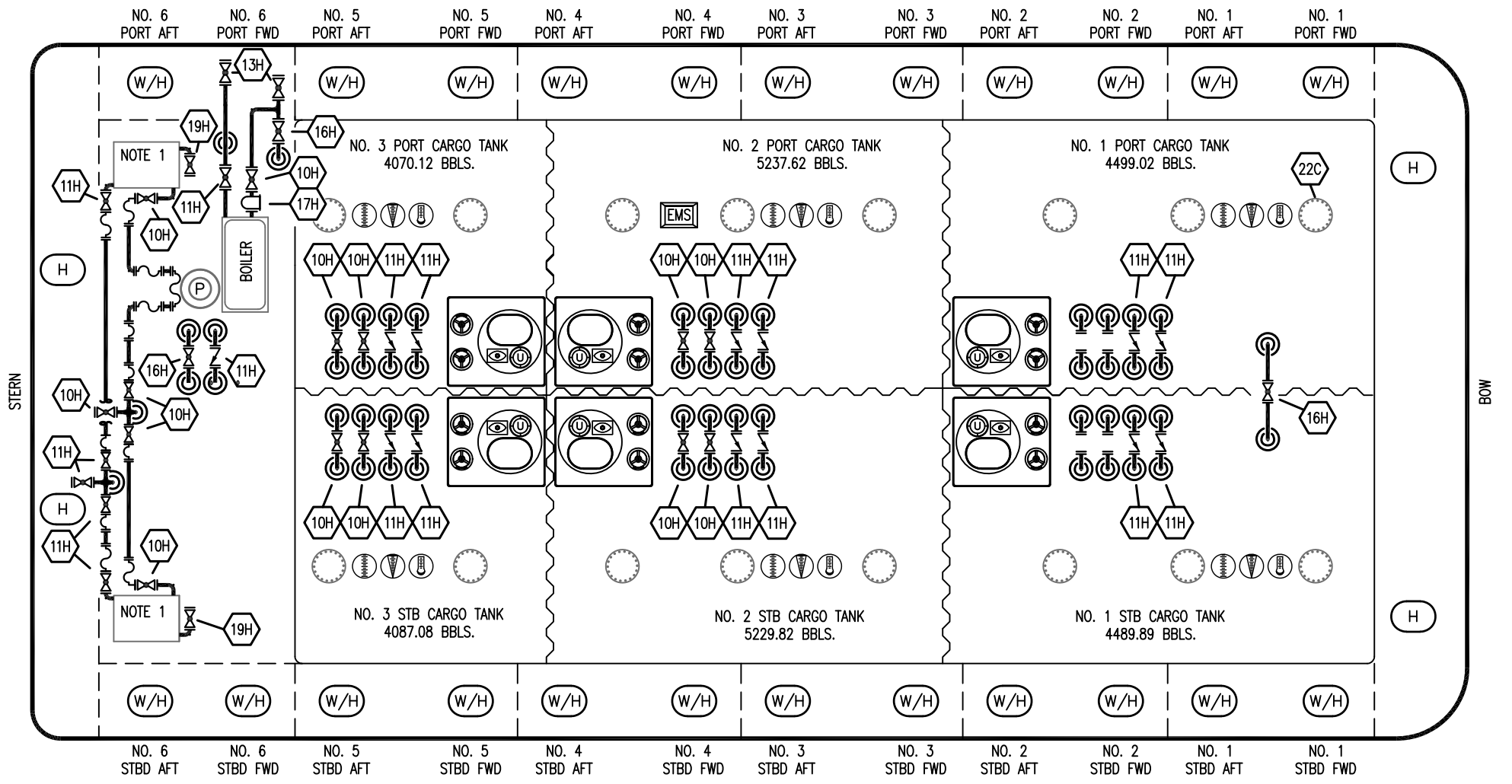
TRINITY MARINE



KIRBY INLAND MARINE

MGO CARGO

PIPING FLOW DIAGRAM

SCALE: NONE	KIRBY 28713	REV. 0
PAGE: 2 OF 3		




- | | | | |
|-----------|----------------------|---|--------------------|
| NO | DESCRIPTION | NO | DESCRIPTION |
| 10H | SUPPLY VALVE |  | ABOVE DECK PIPING |
| 11H | RETURN CHECK VALVE |  | HOSE |
| 12H | PRESSURE REGULATOR | | |
| 13H | OVERBOARD VALVE | | |
| 16H | ISOLATION VALVE | | |
| 17H | BASKET STRAINER | | |
| 18H | CHECK VALVE | | |
| 19H | DRIP PAN DRAIN VALVE | | |
| 22C | BUTTERWORTH | | |

NOTE 1: 6 BARREL DRIP PAN

TRINITY MARINE

REV.	DATE	BY	CHK	APP	REVISION DESCRIPTION
1	12/21/22	MRV	DDA	TFB	REVISED PER CLIENT COMMENTS
0	10/12/15	BB	SC		REVISED PER CLIENT COMMENTS
A	10/22/14	DDA	DDA		ISSUED FOR APPROVAL

KIRBY INLAND MARINE 

HOT OIL
PIPING FLOW DIAGRAM

SCALE: NONE	KIRBY 28713	REV.
PAGE: 3 of 3		1