

| NO | SIZE | DESCRIPTION | NO | SIZE | DESCRIPTION |
|-----|------|-----------------------------------|------|--------|----------------------------|
| 1C | 10" | CARGO TANK VALVE | 16C | | DISCHARGE PRESSURE GAUGE |
| 2C | 10" | LOAD VALVE | 19C | 8" | CARGO HEADER |
| 3C | 12" | MASTER SUCTION VALVE | 22C | 19" | BUTTERWORTH |
| 4C | 10" | DISCHARGE VALVE | 25C | 10"x8" | ECCENTRIC REDUCER |
| 5C | 10" | HEADER VALVE | 27C | 4" | DRIP PAN DRAIN VALVE |
| 6C | 10" | SALVAGE VALVE | 28C | 6" | HIGH LOAD VALVE |
| 8C | 8" | RELIEF VALVE | 11V | | GAUGE STICK (LENGTH) |
| 9C | 4" | CHECK VALVE | 18V | | RESTRICTIVE GAUGE TUBE |
| 9Ca | 10" | CHECK VALVE | 30V | | THERMAL WELL WITH PIPE CAP |
| 9Cb | 1" | CHECK VALVE | 38Ca | | DEEPWELL DRAIN VALVE |
| 15C | 2" | BYPASS VALVE (AROUND CHECK VALVE) | 38Cb | 1" | GATE VALVE |

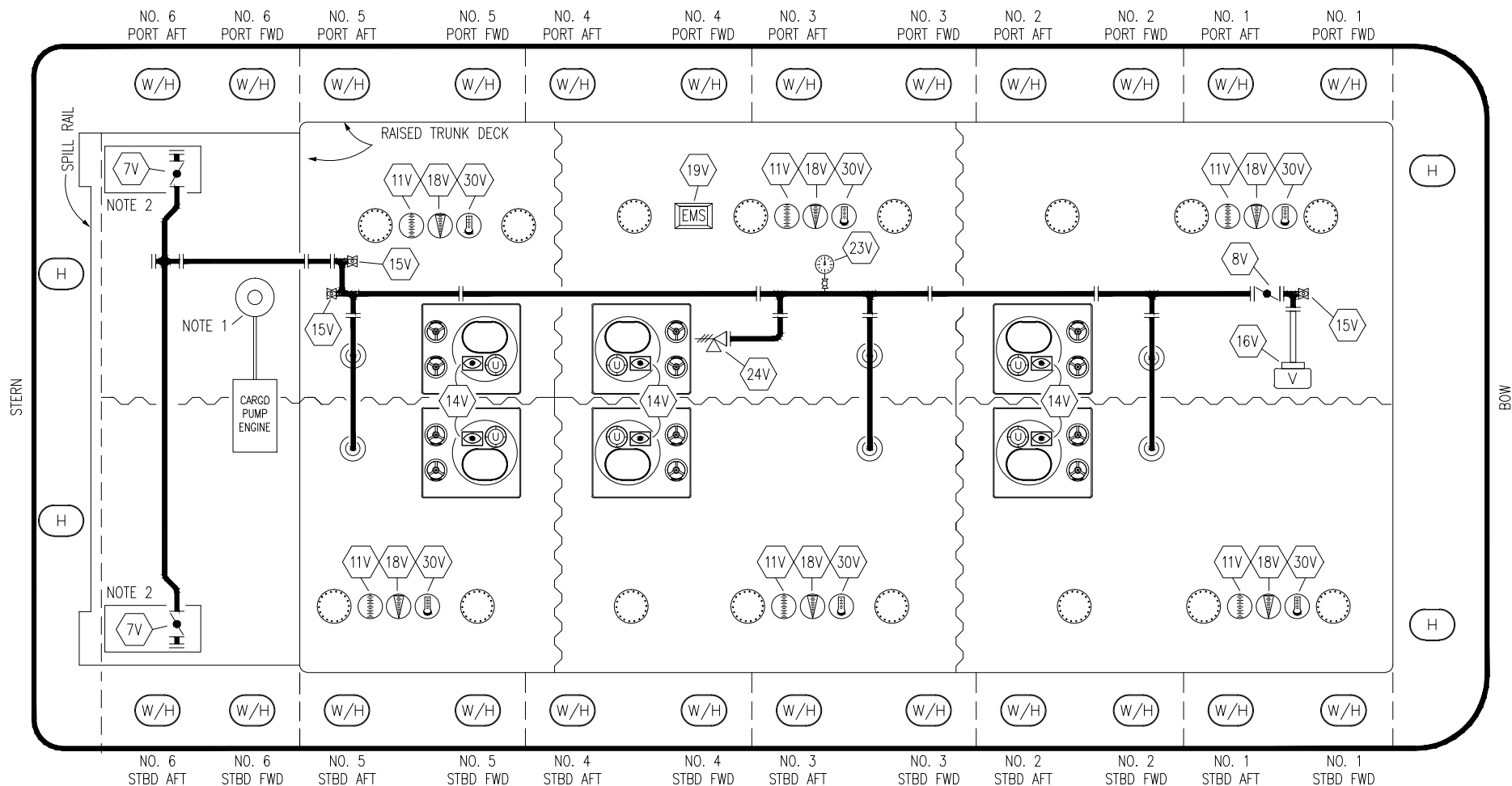
| NO | SIZE | DESCRIPTION |
|---------|------|-------------------|
| 38Cd | 1" | SPRING VALVE |
| NOTE 2: | | 6 BARREL DRIP PAN |
| NOTE 3: | | PICKLING LINE |
| | | ABOVE DECK PIPING |
| | | BELOW DECK PIPING |

TRINITY MARINE

KIRBY INLAND MARINE

CARGO
PIPING FLOW DIAGRAM

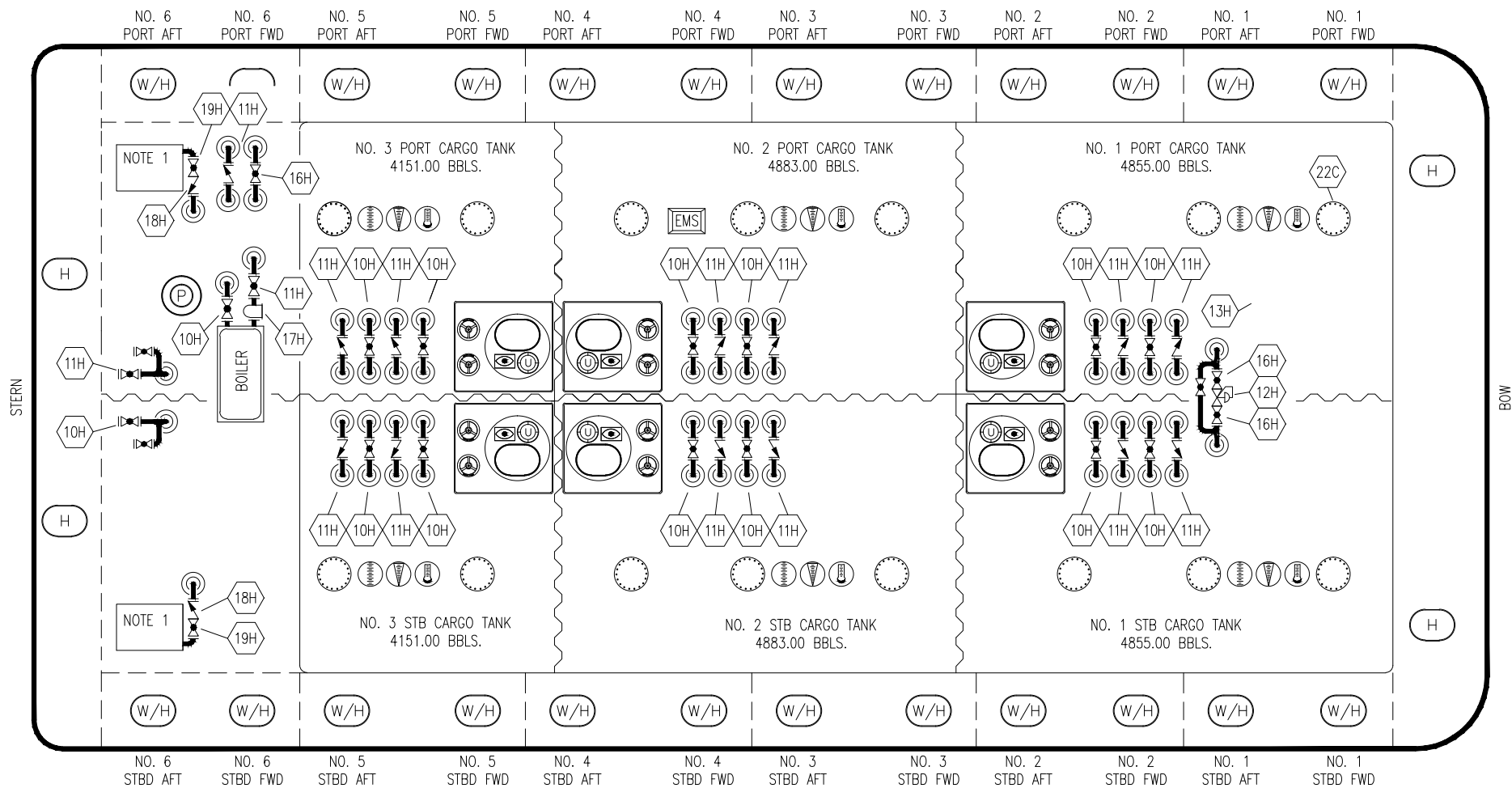
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|--------------|---------------|--------|-------------|--------|--------------------------------------|
| REV. B | DATE 10/06/14 | BY DDA | CHK DDA | APP OF | REVISION REVISED PER CLIENT COMMENTS |
| PAGE: 1 OF 3 | SCALE: NONE | | KIRBY 27770 | | |



| NO | SIZE | DESCRIPTION | NO | SIZE | DESCRIPTION |
|-----|------|---------------------------|-----|------|----------------------------|
| 7V | 8" | HEADER VALVE | 24V | 6" | PRESSURE RELIEF VALVE |
| 8V | 8" | VENT STACK VALVE | 30V | 2" | THERMAL WELL WITH PIPE CAP |
| 11V | | GAUGE STICK (LENGTH) | | | |
| 14V | | SIGHT GLASS | | | |
| 15V | | INSPECTION PORT | | | |
| 16V | 8" | VAPOR VENT STACK | | | |
| 18V | | RESTRICTIVE GAUGE TUBE | | | |
| 19V | | EMERGENCY SHUTDOWN SYSTEM | | | |
| 23V | | PRESSURE GAUGE | | | |

NOTE 1: DEEPWELL PUMP
 NOTE 2: 6 BARREL DRIP PAN
 ABOVE DECK PIPING **—**

| | | | | | | | |
|------|----------|----|-----|---------------------|----------------------|----------------------------------|--------------------|
| | | | | | | KIRBY INLAND MARINE | |
| | | | | | | VAPOR PIPING FLOW DIAGRAM | |
| A | 05/18/11 | JN | DDA | ISSUED FOR APPROVAL | | SCALE: NONE | KIRBY 27770 |
| REV. | DATE | BY | CHK | APP | REVISION DESCRIPTION | PAGE: 2 OF 3 | |
| | | | | | | REV. A | |



- NO DESCRIPTION
- 10H SUPPLY VALVE
 - 11H RETURN
 - 12H PRESSURE REGULATOR
 - 13H BY-PASS
 - 16H ISOLATION VALVE
 - 17H BASKET STRAINER
 - 18H CHECK VALVE
 - 19H DRIP PAN DRAIN VALVE
- ABOVE DECK PIPING

NOTE 1: 6 BARREL DRIP PAN

TRINITY MARINE

| | | | | | |
|---------------------------------------------------------|----------|----|-----|---------------------|----------------------|
| <h2 style="margin: 0;">KIRBY INLAND MARINE</h2> | | | | | |
| <h3 style="margin: 0;">HOT OIL PIPING FLOW DIAGRAM</h3> | | | | | |
| A | 05/18/11 | JN | DDA | ISSUED FOR APPROVAL | SCALE: NONE |
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| KIRBY 27770 | | | | | REV. A |