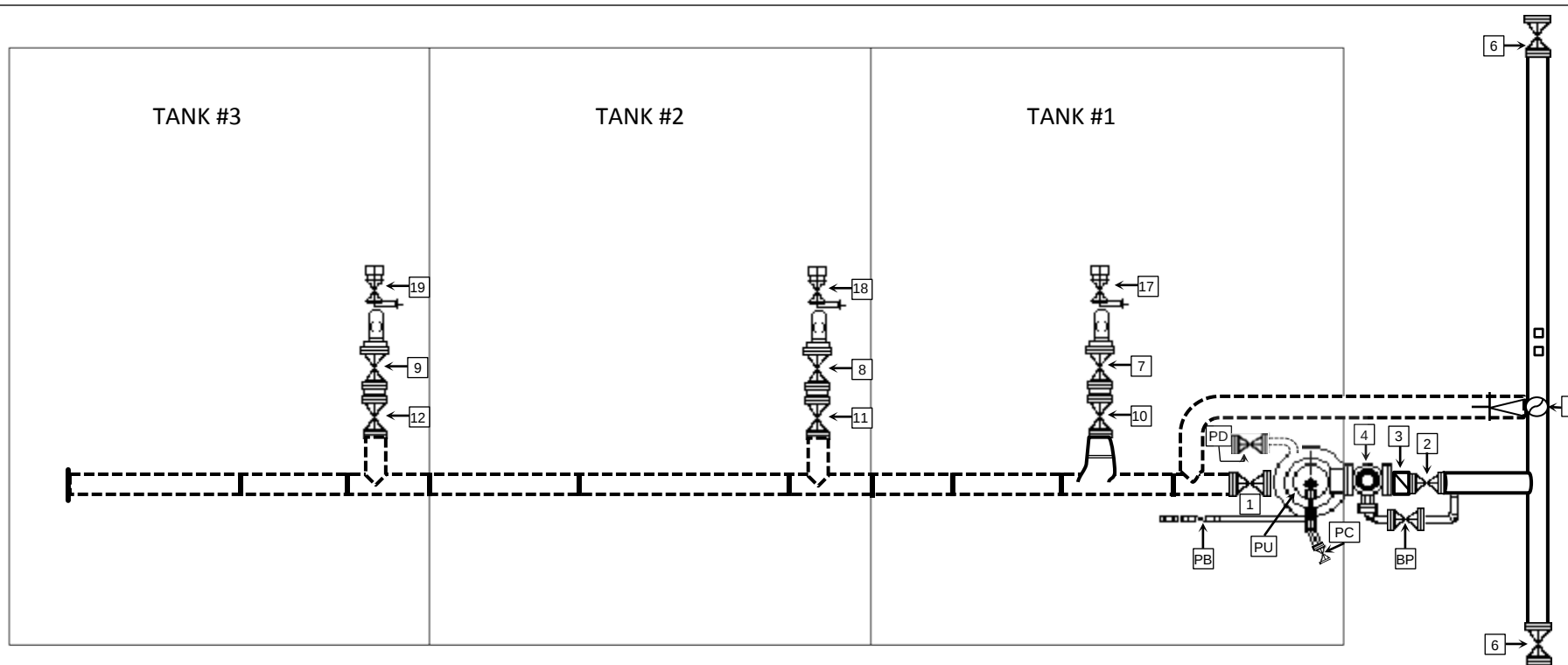




#### CARGO SYSTEM VALVES

- 1 PUMP SUCTION VALVE
- 2 PUMP DISCHARGE VALVE
- 3 PUMP DISCHARGE CHECK VALVE
- 4 PRESSURE RELIEF VALVE
- 5 CARGO FILL VALVE
- 6 PORT & STBD HEADER VALVES
- 7 TK 1 FILL / SUCTION VALVE
- 8 TK 2 FILL / SUCTION VALVE
- 9 TK 3 FILL / SUCTION VALVE
- 10 TK 1 FILL / SUCTION VALVE
- 11 TK 2 FILL / SUCTION VALVE
- 12 TK 3 FILL / SUCTION VALVE
- 17 #1 STRIPPING VALVE
- 18 #2 STRIPPING VALVE
- 19 #3 STRIPPING VALVE
- PU PUMP
- BP BYPASS VALVE
- PB PUMP BLEED VALVE
- PD PUMP DRAIN
- PC PUMP CAN STRIPPING VALVE

#### CARGO LOADING:

- A OPEN VALVES NO.: 5, 6, 7, 8, 9, 10, 11 & 12
- B CLOSE VALVES NO.: 1, 2
- C VENT TANKS
- BP CLOSED
- PD CLOSED –NEVER OPEN
- PC CLOSED –NEVER OPEN

#### CARGO DISCHARGE:

- A OPEN VALVES NO.: 1, 2, 6, 7, 8, 9, 10, 11 & 12
- B CLOSE VALVES NO.: 5
- C VENT TANKS
- BP CLOSED
- PD CLOSED –NEVER OPEN
- PC CLOSED –NEVER OPEN

| CAPACITIES-SHORT TONS AT VARIOUS DRAFTS |                           |          |          |          |
|-----------------------------------------|---------------------------|----------|----------|----------|
| TANK NUMBER                             |                           |          |          |          |
| DRAFT (FT)                              | TOTAL (S.T.)              | 1 (S.T.) | 2 (S.T.) | 3 (S.T.) |
| 6.0                                     | 822                       | 274      | 274      | 274      |
| 6.25                                    | 875                       | 291      | 292      | 292      |
| 6.5                                     | 929                       | 309      | 310      | 310      |
| 6.75                                    | 981                       | 327      | 327      | 327      |
| 7.0                                     | 1035                      | 345      | 345      | 345      |
| 7.25                                    | 1088                      | 362      | 363      | 363      |
| 7.5                                     | 1141                      | 380      | 380      | 381      |
| 7.75                                    | 1195                      | 398      | 398      | 399      |
| 8.0                                     | 1248                      | 416      | 416      | 416      |
| 8.25                                    | 1302                      | 434      | 434      | 434      |
| 8.5                                     | 1356                      | 452      | 452      | 452      |
| 8.75                                    | 1409                      | 469      | 470      | 470      |
| 9.0                                     | 1463                      | 487      | 488      | 488      |
| 9.25                                    | 1517                      | 505      | 506      | 506      |
| 9.50                                    | 1571                      | 523      | 524      | 524      |
| LIGHT WGT SHORT TON 407                 | MAX CAPACITY – BBL (100%) |          |          |          |
|                                         | 10951                     | 3795     | 3578     | 3578     |

#### SPECIAL FEATURES:

- CARGO PUMP: 2100 GPM – 237 TDH 1800 RPM 10" SUCTION 8" DISCHARGE
- CARGO PUMP ENGINE: CUMMINS 6CTA
- COMMON VENT HEADER W/ RETURN LINE
- CHANNEL STEAM COILS BELOW TANK

BUILDER: JEFFBOAT

CANAL BARGE COMPANY, INC.



200'-0" X 35'-0" X 12'-6" DOUBLE SKIN TANK BARGE  
CARGO PIPING DIAGRAM

SCALE: DATE: 8/6/12

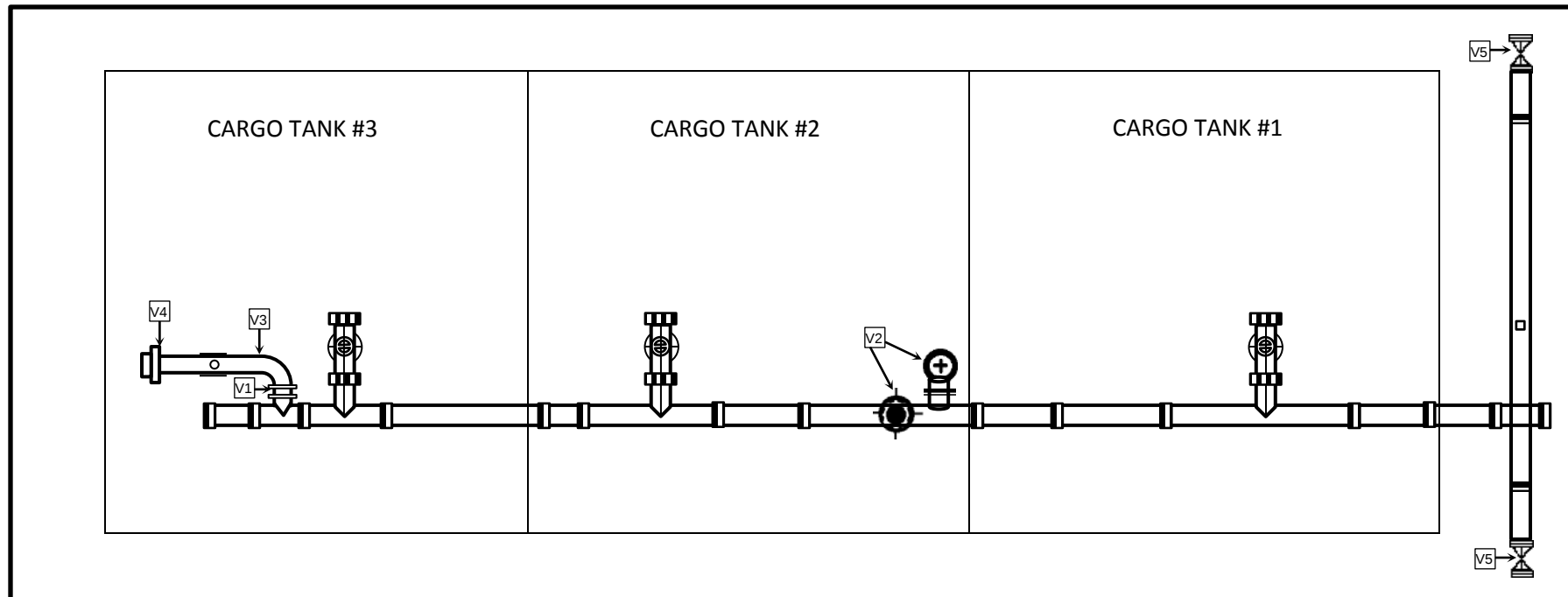
#### BARGE INFORMATION

| HULL     | 04-2219 | 04-2220 | 04-2222 | 04-2223 | 04-2224 | 04-2226 | 04-2227 |
|----------|---------|---------|---------|---------|---------|---------|---------|
| NAME:    | CBC 40  | CBC 41  | CBC 43  | CBC 44  | CBC 45  | CBC 47  | CBC 48  |
| OFF.#    | 1165012 | 1165013 | 1165015 | 1165016 | 1165018 | 1165020 | 1165022 |
| YR BUILT | 2005    | 2005    | 2005    | 2005    | 2005    | 2005    | 2005    |

CBC 40, CBC 41, CBC 43, CBC 44, CBC 45, CBC 47, CBC 48 CARGO PIPING (FINAL).docx

STERN

BOW

VAPOR SYSTEM

V1 VAPOR STACK VALVE  
 V2 PRESS/VACCUM VALVE  
 V3 VENT STACK  
 V4 RAIN CAP  
 V5 VAPOR HEADER VALVE

BARGE INFORMATION

|          |               |               |               |               |               |               |               |               |
|----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| HULL     | 04-2213       | 04-2214       | 04-2215       | 04-2216       | 04-2217       | 04-2218       | 04-2219       | 04-2220       |
| NAME:    | <b>CBC 34</b> | <b>CBC 35</b> | <b>CBC 36</b> | <b>CBC 37</b> | <b>CBC 38</b> | <b>CBC 39</b> | <b>CBC 40</b> | <b>CBC 41</b> |
| OFF.#    | 1165006       | 1165007       | 1165008       | 1165009       | 1165010       | 1165011       | 1165012       | 1165013       |
| YR BUILT | 2005          | 2005          | 2005          | 2005          | 2005          | 2005          | 2005          | 2005          |
| HULL     | 04-2221       | 04-2222       | 04-2223       | 04-2224       | 04-2225       | 04-2226       | 04-2227       | 04-2228       |
| NAME:    | <b>CBC 42</b> | <b>CBC 43</b> | <b>CBC 44</b> | <b>CBC 45</b> | <b>CBC 46</b> | <b>CBC 47</b> | <b>CBC 48</b> | <b>CBC 49</b> |
| OFF.#    | 1165014       | 1165015       | 1165016       | 1165018       | 1165019       | 1165020       | 1165022       | 1165023       |
| YR BUILT | 2005          | 2005          | 2005          | 2005          | 2005          | 2005          | 2005          | 2005          |

CBC 34-49 vapor piping(FINAL).docx

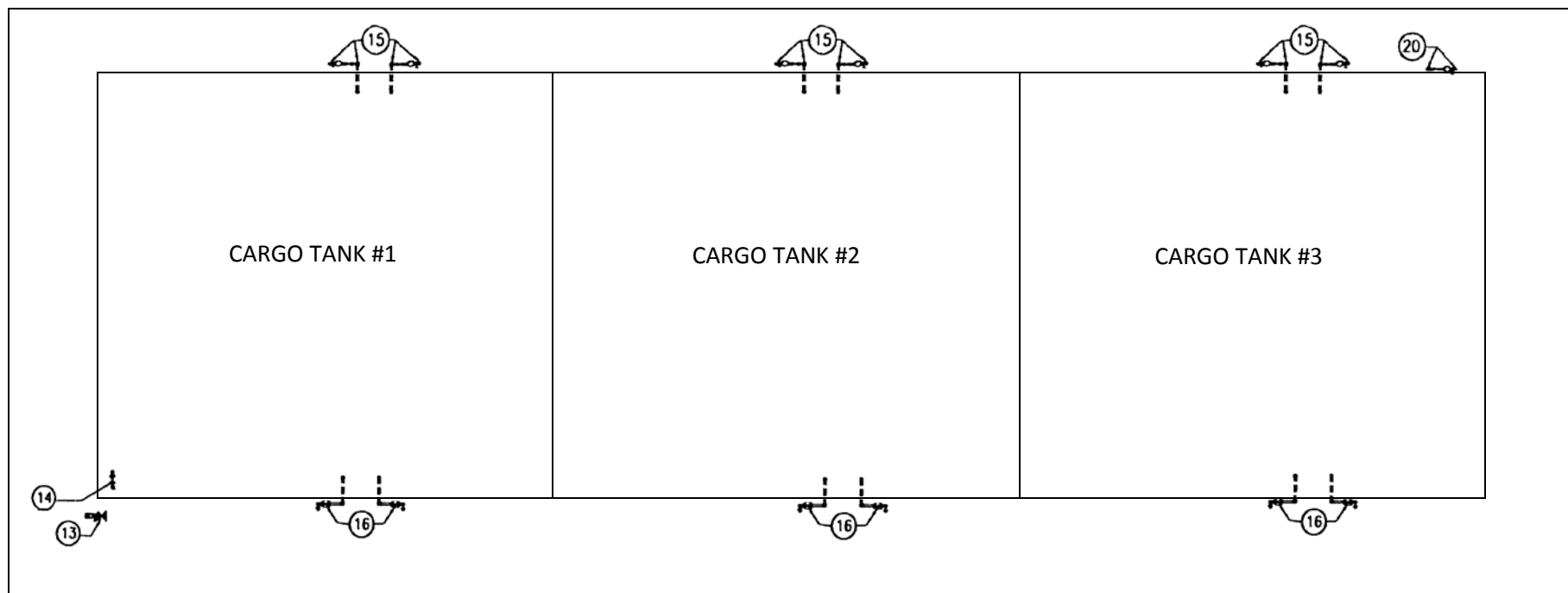
BUILDER: JEFFBOAT

**CANAL BARGE COMPANY, INC.**200'-0" X 35'-0" X 12'-6" DOUBLE SKIN TANK BARGEVAPOR PIPING DIAGRAM

|                            |                |                      |
|----------------------------|----------------|----------------------|
| SCALE:                     | DATE: 12/21/11 | DWG NO.              |
| YARD: ASHLAND CITY         | TAG NO. 96050  | P-1                  |
| HULL NO. 04-2213 – 04-2228 | SHOP ORDER:    | SHT 1 OF 1<br>REV. 2 |

BOW

STERN



#### STEAM SYSTEM VALVES

- 13 STEAM SUPPLY SHORE CONNECTION
- 14 STEAM SUPPLY TO PUMPWELL
- 15 STEAM CONDENSATE RETURN VALVE
- 16 STEAM SUPPLY VALVE
- 20 STEAM CONDENSATE RETURN FROM PUMPWELL

#### BARGE INFORMATION

|          |         |         |         |         |         |         |         |         |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| HULL     | 04-2213 | 04-2214 | 04-2215 | 04-2216 | 04-2217 | 04-2218 | 04-2219 | 04-2220 |
| NAME:    | CBC 34  | CBC 35  | CBC 36  | CBC 37  | CBC 38  | CBC 39  | CBC 40  | CBC 41  |
| OFF.#    | 1165006 | 1165007 | 1165008 | 1165009 | 1165010 | 1165011 | 1165012 | 1165013 |
| YR BUILT | 2005    | 2005    | 2005    | 2005    | 2005    | 2005    | 2005    | 2005    |
| HULL     | 04-2221 | 04-2222 | 04-2223 | 04-2224 | 04-2225 | 04-2226 | 04-2227 | 04-2228 |
| NAME:    | CBC 42  | CBC 43  | CBC 44  | CBC 45  | CBC 46  | CBC 47  | CBC 48  | CBC 49  |
| OFF.#    | 1165014 | 1165015 | 1165016 | 1165018 | 1165019 | 1165020 | 1165022 | 1165023 |
| YR BUILT | 2005    | 2005    | 2005    | 2005    | 2005    | 2005    | 2005    | 2005    |

BUILDER: JEFFBOAT

CANAL BARGE COMPANY, INC.



200'-0" X 35'-0" X 12'-6" DOUBLE SKIN TANK BARGE

#### STEAM PIPING DIAGRAM

|                            |                |            |
|----------------------------|----------------|------------|
| SCALE:                     | DATE: 12/21/11 | DWG NO.    |
| YARD: ASHLAND CITY         | TAG NO. 96050  | P-1        |
| HULL NO. 04-2213 – 04-2228 | SHOP ORDER:    | SHT 1 OF 1 |
|                            |                | REV. 2     |