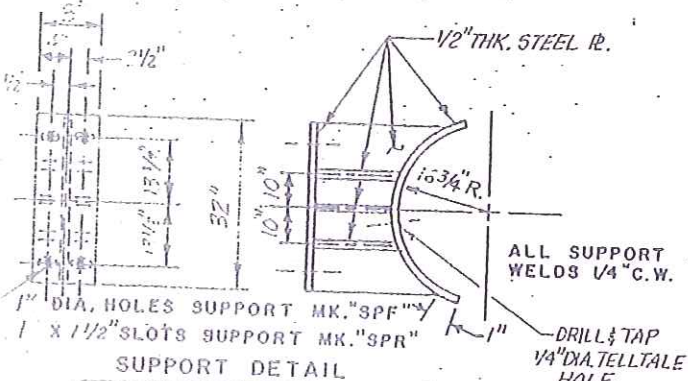
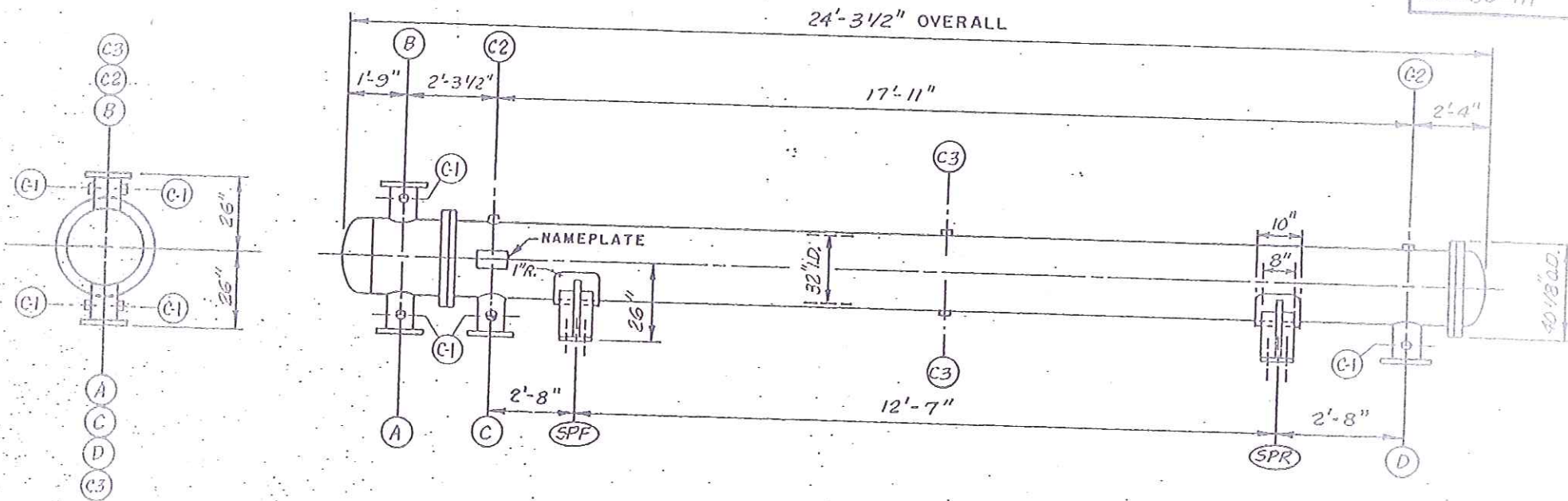




(1) - REQ'D. MK. "SPF"

(1) - REQ'D. MK. "SPR"

| MARK | NO. REQ'D. | SIZE | SERIES | TYPE  | SERVICE   |
|------|------------|------|--------|-------|-----------|
| C-3  | TWO        | 1"   | 6000#  | CPLG. |           |
| C-2  | TWO        | 3/4" | 6000#  | CPLG. |           |
| C-1  | EIGHT      | 3/4" | 6000#  | CPLG. |           |
| D    | ONE        | 6"   | 300#   | RF-WN | SHELL OUT |
| C    | ONE        | 6"   | 300#   | RF-WN | SHELL IN  |
| B    | ONE        | 10"  | 300#   | RF-WN | TUBE OUT  |
| A    | ONE        | 4"   | 300#   | RF-WN | TUBE IN   |
| MARK | NO. REQ'D. | SIZE | SERIES | TYPE  | SERVICE   |

SCHEDULE OF OPENINGS

KRUEGER ENGINEERING & MFG. CO.  
HOUSTON, TEXAS

VAPORIZER

32 X 240 BEM ITEM NO.  
ONE - REQ'D.

## GENERAL NOTES

ALL BOLT HOLES TO BE EQUALLY SPACED AND STRADDLE VESSEL CENTERLINES.  
ALL MACHINED SURFACES TO BE PROTECTED DURING SHIPMENT AND ALL THREADED CONNECTIONS PROPERLY PLUGGED.  
VESSEL TO BE DRAINED AND CLEANED BEFORE SHIPMENT.

WT. EMPTY - 23,400 #

WT. FLOODED - 30,600 #

REFRIGERATION ENGINEERING  
36663  
J.M.G. I E, 6-23-87  
89-111 SHEET 2 OF 13

# COMPONENT MATERIAL SUMMARY

| PART &<br>MARK NO. | KEMPL<br>CODE NO. | NO.<br>REQ'D. | THK.    | SIZE<br>O.D./I.D. | MANUFACTURER / SUPPLIER                | SIZE AND TYPE |          | ITEM NO. | REMO.           | SERIAL NO.    | REQUIREMENTS |
|--------------------|-------------------|---------------|---------|-------------------|----------------------------------------|---------------|----------|----------|-----------------|---------------|--------------|
|                    |                   |               |         |                   |                                        | 32 x 240 BEM  | E-1      |          |                 |               |              |
|                    |                   |               |         |                   |                                        | HEAT NO.      | SLAB NO. | MAT'L.   | PRODUCT<br>FORM | SPECIFICATION |              |
| (1) "TUBE"         | 89-T-64           | 886           | .065(M) | 3/4               | SOUTHWEST TUBE                         |               |          | STEEL    |                 | SA214         |              |
| (16) "FSP"         | 87-PL-122         | 1             | 3 5/8   | 40 1/8            | U.S. STEEL                             | E45148        | 6W2      | STEEL    |                 | SA516-70      |              |
| (15) "FSR"         | 88-PL-81          | 1             | 3 5/8   | 40 1/8            | SVENSKTSTAL(STEEL DIST.)               | 30809         | 28-6     | STEEL    |                 | SA516-70      |              |
| (3) "CR"           | 89-F-96           | 1             | 5 3/16  | 40 1/8            | BETHLEHEM(GULF COAST)                  | 209S306       |          | STEEL    |                 | SA105N        |              |
| (3) "CR"           | 89-F-96           | 1             | 5 3/16  | 40 1/8            | BETHLEHEM(GULF COAST)                  | 209S306       |          | STEEL    |                 | SA105N        |              |
| (10) "IF"          |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (11) "SR"          |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (13) "SC"          |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (17) "FH"          |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (18) "SP, RD"      |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (4) "CCF"          |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (4) "CCR"          |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (2) "CH. HO."      | 89-H-69           | 2             | 5/8(M)  | 32                | HACKNEY(GULF STATES)                   | VIMJ(7475590) | T78      | STEEL    |                 | SA516-70      |              |
| (2) "CH. HO."      |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (2) "SH. HO."      |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (2) "SH. HO."      |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (2) CONE           |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (2) CONE           |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| (4) "FLO. HO."     |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| MAN. CYL.          |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| 1" C-1"            | 89-PL-93          |               | 3/4     | 32                | GULF STATES(U.S. STEEL SUPPLY 7474760) |               | 2321     | STEEL    |                 | SA516-70      |              |
| 1" C-2"            |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| 1" C-3"            |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| MAN. CYL.          |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| 1" S-1"            | 89-PL-66          |               | 7/8     | 31 7/8            | BETHLEHEM(STEEL DIST)                  | 813C73740     | A84196   | STEEL    |                 | SA516-70      |              |
| 1" S-2"            | 89-PL-66          |               | 7/8     | 31 7/8            | BETHLEHEM(STEEL DIST)                  | 813C73740     | A84196   | STEEL    |                 | SA516-70      |              |
| 1" S-3"            | 89-PL-66          |               | 7/8     | 31 7/8            | BETHLEHEM(STEEL DIST)                  | 813C73740     | A84196   | STEEL    |                 | SA516-70      |              |
| 1" S-4"            |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| 1" S-5"            |                   |               |         |                   |                                        |               |          |          |                 |               |              |
| 1" S-6"            |                   |               |         |                   |                                        |               |          |          |                 |               |              |

**KRUEGER ENGINEERING & MFG. COMPANY**  
HOUSTON, TEXAS

WE HEREBY CERTIFY THAT THE ABOVE MATERIALS ARE CORRECT TO THE BEST  
OF OUR KNOWLEDGE AND BELIEF.

BY *Quitt Smith*  
KRUEGER ENGINEERING & MFG. CO.

**CUSTOMER REFRIGERATION ENGINEERING**  
P.O. NUMBER 36663  
DRAWN JJO DATE 1-17-90  
DRAWINGS 89-111 SHEET 1 OF 1