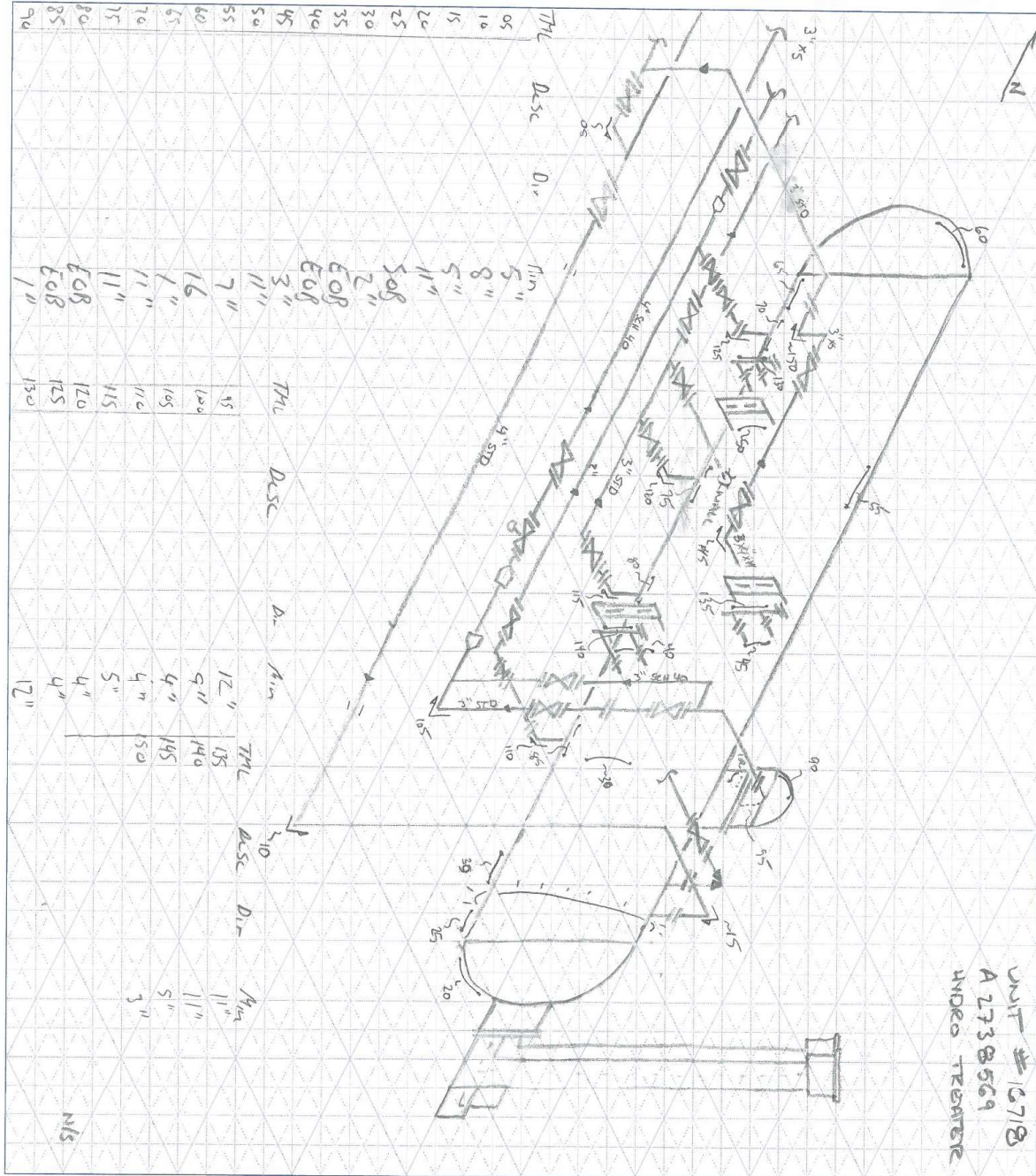




CUSTOMER: CURL FACILITY: FIREBIRD LSD: 14-01-098-08WC  
P & ID: \_\_\_\_\_ DRAWN BY: IRISNDT DATE: 03/22/12 DRAWING NO. SR-156732-57

**VESSEL DESCRIPTION:** HYDRO TREATER

Equip. No. \_\_\_\_\_ Pro.Reg.No. (A) 2738569 C.R.N. K5298.2 Serial No. HT-6605 Yr. Inst. -  
Code/Div. \_\_\_\_\_ Size: 96 ID ODX 30 Manufacturer: LARSEN AND D'AMICO Yr. Blt. 1991  
C. Stamp YES Service: SWEET PWHT: \_\_\_\_\_ J.E.: \_\_\_\_\_ Radiography: RT 3 Insulated: NO

**HEAD**

Top Mat'l SA-516-70 Top Nom. \_\_\_\_\_ Top C.A. \_\_\_\_\_ Material SA 516-70 Nominal 7.9mm C.A. 1.6mm  
Btm Mat'l SA-516-70 Btm Nom. \_\_\_\_\_ Btm C.A. \_\_\_\_\_ MDMT 50°F @ Temp. 37°F

**BOOT**

Head Mat'l \_\_\_\_\_ Head Nom. \_\_\_\_\_ Head C.A. \_\_\_\_\_ Top Mat'l \_\_\_\_\_ Top Nom. \_\_\_\_\_ Top C.A. \_\_\_\_\_  
Shell Mat'l \_\_\_\_\_ Shell Nom. \_\_\_\_\_ Shell C.A. \_\_\_\_\_ Btm Mat'l \_\_\_\_\_ Btm Nom. \_\_\_\_\_ Btm C.A. \_\_\_\_\_  
MAWP Shell side: 50 PSI @ Temp. 200°F MAWP Tube side: \_\_\_\_\_ @ Temp. \_\_\_\_\_

**PIPING INFORMATION:**

Circuit No. \_\_\_\_\_ Line No. (s) **(PLEASE PUT LINE NUMBERS ON APPLICABLE LINES ON THE DRAWING)**  
Piping Class \_\_\_\_\_ Service: \_\_\_\_\_ Yr. Blt. \_\_\_\_\_  
MAWP: \_\_\_\_\_ @ Temp. \_\_\_\_\_ Size & Schedule of Piping **(PLEASE PUT APPROPRIATE SIZES AND SCHEDULES OF PIPING ON DRAWING)**

## A2738569 Readings

Readings in Inches

|        | PNT1  | PNT2  | PNT3  |
|--------|-------|-------|-------|
| LOC5   | 0.260 | 0.252 | 0.241 |
| LOC10  | 0.202 | 0.210 | 0.190 |
| LOC15  | 0.236 | 0.219 | 0.209 |
| LOC20  | 0.505 | 0.481 | 0.480 |
| LOC25  | 0.304 | 0.311 | 0.304 |
| LOC30  | 0.319 | 0.319 | 0.317 |
| LOC35  | 0.319 | 0.316 | 0.316 |
| LOC40  | 0.327 | 0.322 | 0.322 |
| LOC45  | 0.328 | 0.330 | 0.326 |
| LOC50  | 0.317 | 0.316 | 0.314 |
| LOC55  | 0.320 | 0.316 | 0.305 |
| LOC60  | 0.394 | 0.366 | 0.365 |
| LOC65  | 0.313 | 0.314 | 0.312 |
| LOC70  | 0.323 | 0.321 | 0.317 |
| LOC75  | 0.315 | 0.320 | 0.309 |
| LOC80  | 0.328 | 0.322 | 0.322 |
| LOC85  | 0.322 | 0.317 | 0.317 |
| LOC90  | 0.495 | 0.502 | 0.491 |
| LOC95  | 0.389 | 0.376 | 0.367 |
| LOC100 | 0.379 | 0.370 | 0.367 |
| LOC105 | 0.225 | 0.237 | 0.213 |
| LOC110 | 0.302 | 0.310 | 0.278 |
| LOC115 | 0.319 | 0.306 | 0.281 |
| LOC120 | 0.298 | 0.304 | 0.278 |
| LOC125 | 0.285 | 0.282 | 0.268 |
| LOC130 | 0.251 | 0.253 | 0.245 |
| LOC135 | 0.249 | 0.253 | 0.245 |
| LOC140 | 0.252 | 0.249 | 0.245 |
| LOC145 | 0.361 | 0.419 | 0.350 |
| LOC150 | 0.311 | 0.314 | 0.282 |