

LAST SALED: 2/25/2018 BY: CTRH, John M.

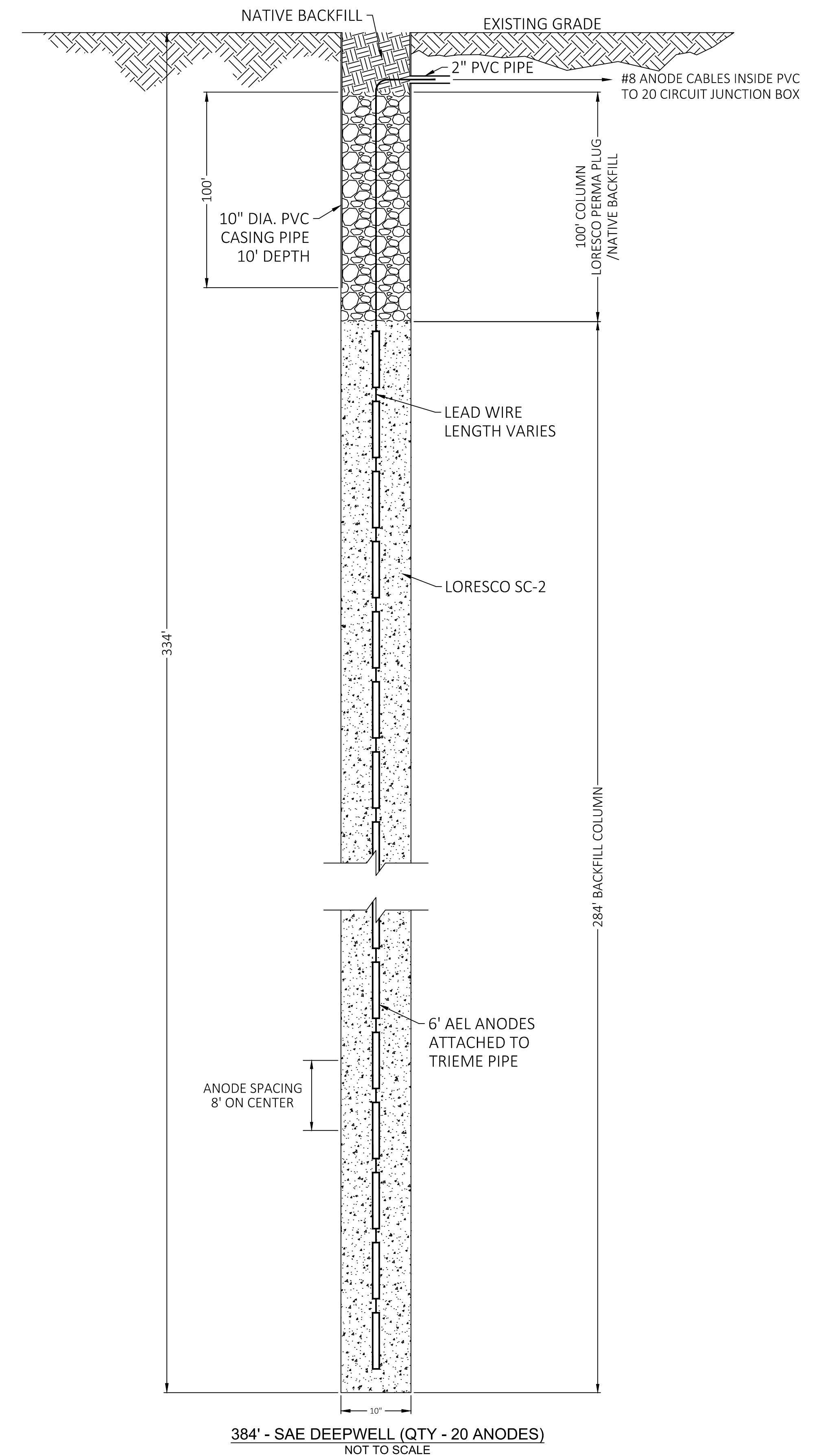
FILE LOCATION: C:\Working\LOCAL\DWG PROJECTS\AS-BUILT PROJECT DRAWINGS\EP1\liberal 13.7\As-Built.dwg

**MATERIAL LIST**

| MATERIAL  | QUANTITY | UNIT |
|---|----------|------|
| 6' AEL ANODES (SAE DEEPWELL ANODES)                             | 20       | EA   |
| 1/0 HMWPE BLACK CABLE (NEGATIVE CONNECTION)                     | 850      | LF   |
| DEEPWELL GPS ( 37.292495, -100.580508)                          | 1        | EA   |
| 80V-80A RECTIFIER GPS ( 37.292497, -100.580595)                 | 1        | EA   |
| 20 CIRCUIT GALVANIZED JUNCTION BOX GPS (37.292497, -100.580595) | 1        | EA   |
| CONDUCRETE (55LB BAGS)  | 167      | EA   |
| LORESCO PERMA PLUG  | 75       | EA   |
| 100 LINE - NEGATIVE CONNECTION (37.294232, -100.580565)         | 1        | EA   |
| 200 LINE - NEGATIVE CONNECTION (37.292757, -100.580528)         | 1        | EA   |
| 300 LINE - NEGATIVE CONNECTION (37.292224, -100.580546)         | 1        | EA   |
| 400 LINE - NEGATIVE CONNECTION (37.292017, -100.580529)         | 1        | EA   |

**LOGGING ANODE READINGS (LOGGED AT 14.26 DC VOLTS)**

| DEPTH | READING (OHMS) | DEPTH | READING (OHMS) | DEPTH | READING (OHMS) |
|-------|----------------|-------|----------------|-------|----------------|
| 380   | 10.8           | 250   | 16.7           | 120   | 12.1           |
| 370   | 11.6           | 240   | 23.7           | 110   | 22.2           |
| 360   | 11.0           | 230   | 26.8           | 100   | 24.9           |
| 350   | 9.7            | 220   | 27.9           | 90    | 22.9           |
| 340   | 4.3            | 210   | 18.7           | 80    | 6.1            |
| 330   | 4.0            | 200   | 8.6            | 70    | 5.2            |
| 320   | 4.5            | 190   | 24.1           | 60    | 8.6            |
| 310   | 13.8           | 180   | 9.7            | 50    | 11.9           |
| 300   | 13.9           | 170   | 12.9           | 40    | 7.1            |
| 290   | 12.0           | 160   | 5.8            | 30    | 6.3            |
| 280   | 12.9           | 150   | 9.4            | 20    | 9.4            |
| 270   | 10.0           | 140   | 8.7            |       |                |
| 260   | 4.8            | 130   | 5.4            |       |                |



384' - SAE DEEPWELL (QTY - 20 ANODES)  
NOT TO SCALE

NOTES:

REFERENCE DRAWINGS

| DWG. NO. | TITLE |
|----------|-------|
|          |       |
|          |       |
|          |       |
|          |       |
|          |       |

| REVISIONS |  | BY | CHK. | APPR. | DATE | DATE | DATE |
|-----------|--|----|------|-------|------|------|------|
|           |  |    |      |       |      |      |      |
|           |  |    |      |       |      |      |      |
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|           |  |    |      |       |      |      |      |

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**LIBERAL 13.7**  
**PANHANDLE EASTERN PIPELINE COMPANY**  
**GROUND BED ANODES AS-BUILT**

|                 |                           |                  |
|-----------------|---------------------------|------------------|
| DRAWN BY: TECH  | CREATION DATE: 12/31/17   | AFE No.:         |
| APPROVED: RM/JC | APPR. DATE: -             |                  |
| SPEC USED: N/A  | DWG. No.:                 | SHEET No. 2 OF 2 |
| SCALE: N.T.S.   | LIBERAL 13.7 AS-BUILT.DWG |                  |