



**NOTES :**

- 1-MATERIALS:  
 - HELIX PLATE PER CSA G40.21 50W, MIN.FY=60 KSI, ULTIMATE STRENGTH 70 KSI  
 -TUBES PER ASTM A500 GR C, FY=60KSI, FU=70KSI
- 2-ANY CHANGE OF MATERIAL IS SUBJECT TO GOLIATHTECH APPROVAL
- 3-WELD PERFORMED IN ACCORDANCE WITH CSA STANDARD W47.1 AND GOLIATHTECH WELDING PROCEDURES. WELDERS ARE ALSO CERTIFIED TO THE AWS STANDARD.

| NO. | Dimension (inches) | Description | MECHANICAL ASD LOAD CAPACITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                    |           |           |                |                |                          |                                    |
|-----|--------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------|-----------|----------------|----------------|--------------------------|------------------------------------|
|     |                    |             | Unbraced Shaft Length, Lu (ft)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Compression (kips) |           |           | Tension (kips) | Lateral (kips) | Bending Moment (kips.ft) | Max Soil Capacity Comp/Ten* (kips) |
|     |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0 Coupler          | 1 Coupler | 2 Coupler |                |                |                          |                                    |
| A   | 84                 |             | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 57.1               | 57.1      | 57.1      | 21.51          | 14.40          | 3.99                     | 34.88                              |
| B   | 13                 |             | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 24.4               | 13.1      | 7.1       |                |                |                          |                                    |
| C   | 4 1/4              |             | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12.2               | 8.5       | 5.5       |                |                |                          |                                    |
| D   | 3 PITCH            |             | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6.5                | 5.3       | 3.9       |                |                |                          |                                    |
| E   | 3/8                |             | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4.0                | 3.5       | 2.9       |                |                |                          |                                    |
| F   | 1                  |             | <b>Note:</b><br>1. Soil capacity (P4) must be determined per Section 4.1.5 of this report.<br>2. Maximum ultimate soil capacity is determined from $P_{ult} = K_t \times T$ based on the corresponding maximum installation torque rating for the specific pile model. Allowable soil capacity is determined from $P_a = P_{ult} / 2.0$ based on the corresponding maximum installation torque rating for the specific pile model. See Section 4.1.5 for additional information.<br>3. Mechanical torsion rating is the maximum torsional resistance of the steel shaft.<br>4. Maximum Torque Per Soil Tests is the maximum torque achieved during field axial verification testing that was conducted to verify the pile axial capacity related to pile-soil interaction.<br>5. Maximum Installation Torque rating is the lower of the "mechanical torsion rating" and the "maximum torque per soil tests".<br>6. The allowable soil capacity under the IRC must be determined in accordance with Equation 3 of Section 4.1.5 of this report, when applicable.<br>*7. Min required installation depth for tension is 12D where D is the diameter of the uppermost helix.<br>8. Max Soil Capacities based on the the tube torsional capacity. |                    |           |           |                |                |                          |                                    |
| G   | 1 1/2              |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |           |                |                |                          |                                    |
| H   | 2 7/8              |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |           |                |                |                          |                                    |
| I   | 9/16               |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |           |                |                |                          |                                    |
| J   | 1/4                | Weld        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |           |                |                |                          |                                    |
| K   | 39                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |           |                |                |                          |                                    |
| L   | 15                 |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |           |                |                |                          |                                    |
| M   | 3 PITCH            |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |           |                |                |                          |                                    |
| N   | 3/8                |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |           |                |                |                          |                                    |
| O   | 2 7/8              |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |           |                |                |                          |                                    |
| P   | 1/4                | Weld        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |           |           |                |                |                          |                                    |

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| 3   |                 |            |
| 2   |                 |            |
| 1   | INITIAL RELEASE | 2023-09-07 |
| REV | MODIFICATION    | DATE       |



**VENTURA LINE**

TITLE: Double Helix Screw Pile of 2 7/8 (0.250 wall) with a 13" and 15" Helix

|                 |                                  |
|-----------------|----------------------------------|
| SEAL:           | DWG. NO :<br><b>VGTP12781315</b> |
|                 | DRAWN BY:<br>ARG                 |
|                 | DESIGN BY:<br>GOLIATHTECH        |
|                 | CHECK BY:<br>CPOC                |
|                 | APP BY:<br>CPOC                  |
| OTHER NO :<br>- |                                  |

|             |         |                   |               |
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