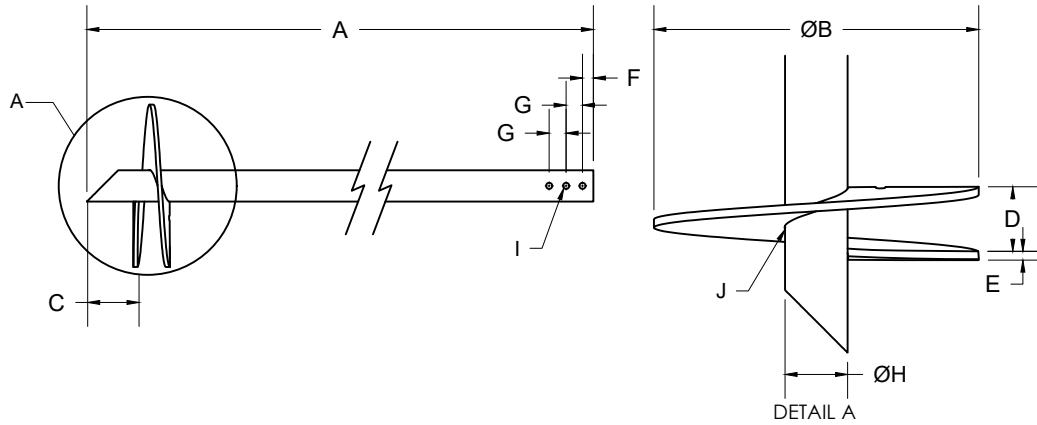


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NOTES :

- 1-MATERIALS:  
 -PLATE PER CSA G40.21 50W, MIN.FY=60 KSI, ULTIMATE STRENGTH 70 KSI  
 -TUBE 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.
- 4-HOT-DIP GALVANIZED, PARTS PER ASTM A123.



|     |                 |            |
|-----|-----------------|------------|
| 3   |                 |            |
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| 1   | INITIAL RELEASE | 2023-08-04 |
| REV | MODIFICATION    | DATE       |

MECHANICAL ASD LOAD CAPACITY

| NO. | Dimension (inches) | Description | Unbraced Shaft Length, Lu (ft)  |           |           |      | Tension (kips) | Lateral (kips) | Bending Moment (kips.ft) | Max Soil Capacity Comp/Ten* (kips) |
|-----|--------------------|-------------|---|-----------|-----------|------|----------------|----------------|--------------------------|------------------------------------|
|     |                    |             | 0 Coupler   | 1 Coupler | 2 Coupler |      |                |                |                          |                                    |
| A   | 168                |             | 0   | 48.8      | 48.8      | 48.8 | 28.78          | 21.30          | 7.12                     | 43.75                              |
| B   | 9                  |             | 5   | 40.2      | 26.2      | 16.3 |                |                |                          |                                    |
| C   | 4 1/4              |             | 10  | 22.8      | 17.5      | 12.5 |                |                |                          |                                    |
| D   | PITCH 3            |             | 15  | 13.0      | 11.1      | 8.8  |                |                |                          |                                    |
| E   | 3/8                |             | 20  | 8.2       | 7.4       | 6.3  |                |                |                          |                                    |
| 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   | 3 1/2              |             |   |           |           |      |                |                |                          |                                    |
| I   | 9/16               |             |   |           |           |      |                |                |                          |                                    |
| J   | 1/4                | Weld        |   |           |           |      |                |                |                          |                                    |
|     |                    |             |   |           |           |      |                |                |                          |                                    |
|     |                    |             |   |           |           |      |                |                |                          |                                    |
|     |                    |             |   |           |           |      |                |                |                          |                                    |



GOLIATHTECH PRESTIGE LINE

TITLE: 14 Foot Screw Pile of 3 1/2 (0.250 wall) with a 09" Helix

|                 |                                    |
|-----------------|------------------------------------|
| SEAL:           | DWG. NO :<br><b>GTP131209-14FT</b> |
|                 | DRAWN BY:<br>R.E                   |
|                 | DESIGN BY:<br>GOLIATHTECH          |
|                 | CHECK BY:<br>CPOC                  |
|                 | APP BY:<br>CPOC                    |
| OTHER NO :<br>- |                                    |

|            |             |                      |                  |
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| FORMAT : A | REV. :<br>1 | DATE :<br>2023-08-04 | PAGE :<br>1 DE 1 |
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