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- 1-MATERIALS:
- -HELIX PLATE PER CSA G40.21 50W, MIN.FY=414 MPA, ULTIMATE STRENGTH 483 MPA
- -TUBE PER ASTM A500 GR C, FY=414 MPA, FU=483 MPA
- 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   |                 |            |
|-----|-----------------|------------|
| 2   |                 |            |
| 1   | INITIAL RELEASE | 2023-07-18 |
| REV | MODIFICATION    | DATE       |

## GOLIAŢHITECH

| GULIATHTECH PRESTIGE LINE |  |
|---------------------------|--|
|---------------------------|--|

TITLE: 60 mm Helical Pile (3.9 mm wall), 432 mm Helix, 1067 mm Length

| SEAL: | DWG. NO:          |
|-------|-------------------|
|       | GTPI23817-3.5FT-M |
|       | DRAWN BY:         |
|       | ARG               |
|       | DESIGN BY:        |
|       | GOLIATHTECH       |
|       | CHECK BY:         |
|       | CPOC              |
|       | APP BY:           |
|       | CPOC              |
|       | OTHER NO:         |
|       |                   |

| FORMAT : A   |     | REV.: | DATE :     | PAGE: |  |  |
|--|-----|-------|------------|-------|--|--|
| SCALE :  | NTS | 1     | 2024-01-29 | 1 DE  |  |  |
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| l |     |           | n<br>Description | MECHANICAL ASD LOAD CAPACITY |                     |              |              |         |         |                      |                   |
|---|-----|-----------|------------------|------------------------------|---------------------|--------------|--------------|---------|---------|----------------------|-------------------|
|   | NO. | Dimension |                  | ghaft                        | Compression<br>(kN) |              | Tension      | Lateral | Bending | Max Soil<br>Capacity |                   |
|   |     | (mm)      |                  | Undraced shaft Lith          | 0<br>Coupler        | 1<br>Coupler | 2<br>Coupler | (kN)    | (kN)    | Moment<br>(N-m)      | Comp/Ten*<br>(kN) |
| l | Α   | 1,067     |                  | 0                            | 149                 | 149          | 149          |         | 36      | 36 2,617             |                   |
| l | В   | 432       |                  | 2                            | 55                  | 30           | 18           |         |         |                      | 70                |
| l | С   | 108       |                  | 3                            | 24                  | 18           | 12           | 69      |         |                      |                   |
| l | D   | PITCH 76  |                  | 5                            | 12                  | 11           | 8            |         |         |                      |                   |
| l | Ε   | 9.5       |                  | 6                            | 8                   | 7            | 6            |         |         |                      |                   |
| l | F   | 25        |                  | Note:                        |                     |              |              |         |         |                      | •                 |

- 1. Soil capacity (P4) must be determined per Section 4.1.5 of this report.
- 2. Maximum ultimate soil capacity is determined from Pult = Kt x T based on the corresponding maximum installation torque rating for the specific pile model. Allowable soil capacity is determined from Pa = Pult /2.0 based on the corresponding maximum installation torque rating for the specific pile model. See Section 4.1.5 for additional information.
- 3. Mechanical torsion rating is the maximum torsional resistance of the steel shaft.
- 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
- 5. Maximum Installation Torque rating is the lower of the "mechanical torsion rating" and the "maximum torque per soil tests".
- 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.
- \*7. Min required installation depth for tension is 12D where D is the diameter of the uppermost helix.

  8. Max Soil Capacities based on the the tube torsional cpacity.

Weld

38

60

14

6