1

MECHANICAL ASD LOAD CAPACITY

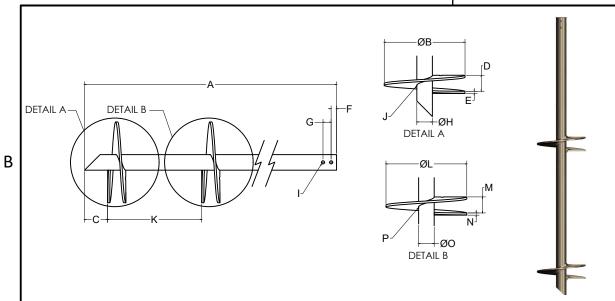
4. Maximum Torque Per Soil Tests is the maximum torque achieved during field axial

verification testing that was conducted to verify the pile axial capacity related to pile-soil

5. Maximum Installation Torque rating is the lower of the "mechanical torsion rating" and the

6. The allowable soil capacity under the IRC must be determined in accordance with Equation

*7. Min required installation depth for tension is 12D where D is the diameter of the uppermost



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.

| 3 | | |
|-----|-----------------|------------|
| 2 | | |
| 1 | INITIAL RELEASE | 2023-09-20 |
| REV | MODIFICATION | DATE |

GOLIATH TECH

GOLIATHTECH VENTURA LINE

TITLE: Double Helix Screw Pile of 2 7/8 (0.250 wall) with a 17" and 17" Helix

SEAL:

DWG. NO: VGTPI2781717 DRAWN BY: ARG DESIGN BY: **GOLIATHTECH** CHECK BY: CPOC APP BY: CPOC OTHER NO:

| FORMAT : A | REV.: | DATE : | PAGE : | | |
|------------|-------|------------|--------|--|--|
| SCALE: NTS | 1 | 2023-09-20 | 1 DE | | |

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| | Dimension | Description | 85. | Co | mpress | ion | | | Bending | Max Soil |
|--------------|-----------|-------------------------|--|--------------|--------------|---------|---------|-----------|-------------------|----------|
| NO. (inches) | | | ad Shar Lufter | (kips) | | Tension | Lateral | Moment | Capacity | |
| | | Unbraced Shaft, LU (49) | 0 Coupler | 1 Coupler | 2 Coupler | (kips) | (kips) | (kips.ft) | Comp/Ten * (kips) | |
| Α | 84 | | 0 | 57.1 | 57.1 | 57.1 | | 14.40 | 3.99 | |
| В | 17 | | 5 | 24.4 | 13.1 | 7.1 | 21.51 | | | 34.88 |
| С | 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 | | 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 | | | | | | | |
| G | 1 1/2 | | | | | | | | | |
| Н | 2 7/8 | | | | | | | | | |
| I | 9/16 | | for the specific pile model. See Section 4.1.5 for additional information. | | | | | | | |
| J | 1/4 | Weld | Mechanical torsion rating is the maximum torsional resistance of the steel shaft. Maximum Torque Per Soil Tests is the maximum torque achieved during field axial. | | | | | | | |

Weld

interaction.

"maximum torque per soil tests".

3 of Section 4.1.5 of this report, when applicable.

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

51

17

M

Ν

0

Р

3 PITCH

3/8

1/4

2 7/8