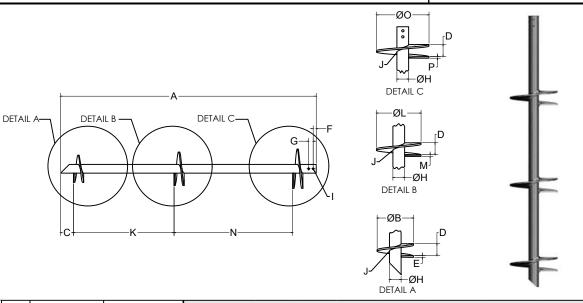
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## NOTES:

- 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.
- 4-HOT-DIP GALVANIZED, PARTS PER ASTM A123.

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1	INITIAL RELEASE	2023-09-19
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## **MECHANICAL ASD LOAD CAPACITY** Compression **Max Soil Bending Dimension** NO. Description Tension | Lateral Capacity (kips) Moment (inches) Comp/Ten (kips) (kips) 2 (kips.ft) Coupler Coupler Coupler \* (kips) 168 0 65.5 65.5 65.5 9 5 28.1 15.0 8.1 В C 4 1/4 10 14.1 9.8 6.3 25.78 16.70 4.59 34.88 4.5 D 3 PITCH 15 7.4 6.0 Ε 3/8 20 4.6 4.0 3.3 Note: F 1

- 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.

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TITLE: 14' Triple Helix Screw Pile of 2 7/8 (0.250 wall) with a 9", 11" and 13" Helix

EAL:	DWG. NO:
	GTPI278091113-14FT
	DRAWN BY:
	ARG
	DESIGN BY:
	GOLIATHTECH
	CHECK BY:
	СРОС
	APP BY:
	СРОС
	OTHER NO:
	-

FORMAT : A	REV.:	DATE :	PAGE:
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