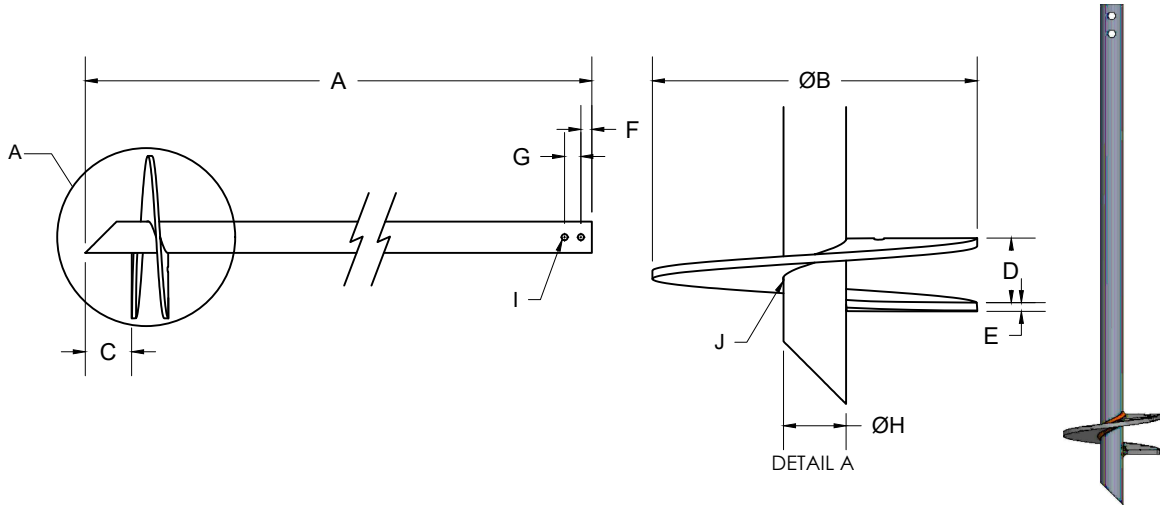

NOTES :

1-MATERIALS:
- HELIX 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.

NO.	Dimension (inches)	Description
A	54	
B	13	
C	4 1/4	
D	PITCH 3	
E	3/8	
F	1	
G	1 1/2	
H	2 3/8	
I	9/16	
J	1/4	Weld

MECHANICAL ASD LOAD CAPACITY

Unbraced Shaft Length, Lu (ft)	Compression (kips) 0 Coupler	1 Coupler	2 Coupler	Tension (kips)	Lateral (kips)	Bending Moment (kips.ft)	Max Soil Capacity Comp/Ten * (kips)
0	33.4	33.4	33.4	15.57	8.20	1.93	15.75
5	12.4	6.7	4.0				
10	5.5	4.0	2.8				
15	2.8	2.4	1.9				
20	1.8	1.6	1.3				

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.

REV	MODIFICATION	DATE
3		
2		
1	INITIAL RELEASE	2023-07-27

GOLIATHTECH

GOLIATHTECH PRESTIGE LINE

TITLE: 4.5 Foot Screw Pile of 2 3/8 (0.154 wall) with a 13" Helix

SEAL:

DWG. NO : **GTPI23813-4.5FT**
DRAWN BY: R.E
DESIGN BY: GOLIATHTECH
CHECK BY: CPOC
APP BY: CPOC
OTHER NO : -

FORMAT : A | SCALE : NTS | REV.: 1 | DATE : 2023-07-27 | PAGE : 1 DE 1

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