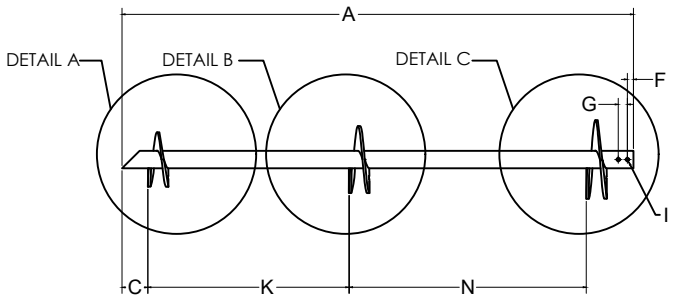

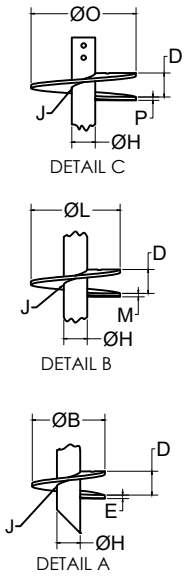

NOTES :

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.

NO.	Dimension (inches)	Description
A	120	
B	15	
C	4 1/4	
D	3 PITCH	
E	3/8	
F	1	
G	1 1/2	
H	2 7/8	
I	9/16	
J	1/4	Weld
K	45	
L	15	
M	3/8	
N	45	
O	15	
P	3/8	

MECHANICAL ASD LOAD CAPACITY

Unbraced Shaft Length, Lu (ft)	Compression (kips) 0 Coupler	Compression (kips) 1 Coupler	Compression (kips) 2 Coupler	Tension (kips)	Lateral (kips)	Bending Moment (kips.ft)	Max Soil Capacity Comp/Ten * (kips)
0	65.5	65.5	65.5	25.78	16.70	4.59	34.88
5	28.1	15.0	8.1				
10	14.1	9.8	6.3				
15	7.4	6.0	4.5				
20	4.6	4.0	3.3				

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		
3		
2		
1	INITIAL RELEASE	2023-09-18
REV		DATE

GOLIATHTECH

GOLIATHTECH PRESTIGE LINE

TITLE: 10' Triple Helix Screw Pile of 2 7/8 (0.250 wall) with a 15", 15" and 15" Helix

SEAL:

DWG. NO : **GTPI278151515-10FT**

DRAWN BY: ARG

DESIGN BY: GOLIATHTECH

CHECK BY: CPOC

APP BY: CPOC

OTHER NO : -

FORMAT : A	REV.:	DATE :	PAGE :
SCALE : NTS	1	2023-09-18	1 DE 1

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