



**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	2023-09-11
REV	MODIFICATION	DATE



**GOLIATHTECH VENTURA LINE**

TITLE: 10'Double Helix Screw Pile of 3 1/2 (0.250 wall) with a 11"and 13"Helix

SEAL:	DWG. NO :	VGTP13121113-10FT
	DRAWN BY:	ARG
	DESIGN BY:	GOLIATHTECH
	CHECK BY:	CPOC
	APP BY:	CPOC
	OTHER NO :	-

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SCALE : NTS			

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NO.	Dimension (inches)	Description	MECHANICAL ASD LOAD CAPACITY							
			Unbraced Shaft Length, Lu (ft)	Compression (kips)			Tension (kips)	Lateral (kips)	Bending Moment (kips.ft)	Max Soil Capacity Comp/Ten * (kips)
				0 Coupler	1 Coupler	2 Coupler				
A	120		0	58.4	58.4	58.4	22.79	18.50	6.20	43.75
B	11		5	34.5	22.3	13.9				
C	4 1/4		10	19.6	14.9	10.6				
D	3 PITCH		15	11.3	9.5	7.5				
E	3/8		20	7.1	6.3	5.4				
F	1		<b>Note:</b>							
G	1 1/2		1. Soil capacity (P4) must be determined per Section 4.1.5 of this report.							
H	3 1/2		2. Maximum ultimate soil capacity is determined from $P_{ult} = K_t \times T$ based on the corresponding maximum installation torque rating for the specific pile model. Allowable soil capacity is determined from $P_a = P_{ult} / 2.0$ based on the corresponding maximum installation torque rating for the specific pile model. See Section 4.1.5 for additional information.							
I	9/16		3. Mechanical torsion rating is the maximum torsional resistance of the steel shaft.							
J	1/4	Weld	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.							
K	33		5. Maximum Installation Torque rating is the lower of the "mechanical torsion rating" and the "maximum torque per soil tests".							
L	13		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.							
M	3 PITCH		*7. Min required installation depth for tension is 12D where D is the diameter of the uppermost helix.							
N	3/8		8. Max Soil Capacities based on the the tube torsional capacity.							
O	3 1/2									
P	1/4	Weld								