



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.

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1	INITIAL RELEASE	2023-09-18
REV		DATE



VENTURA LINE

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

SEAL:	DWG. NO :	VGTPI278151515-10FT
	DRAWN BY:	ARG
	DESIGN BY:	GOLIATHTECH
	CHECK BY:	CPOC
	APP BY:	CPOC
OTHER NO :	-	

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NO.	Dimension (inches)	Description	MECHANICAL ASD LOAD CAPACITY							
			Unbraced Shaft Length, L_u (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	57.1	57.1	57.1	21.51	14.40	3.99	34.88
B	15		5	24.4	13.1	7.1				
C	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:							
G	1 1/2		1. Soil capacity (P4) must be determined per Section 4.1.5 of this report.							
H	2 7/8		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	45		5. Maximum Installation Torque rating is the lower of the "mechanical torsion rating" and the "maximum torque per soil tests".							
L	15		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	3/8		*7. Min required installation depth for tension is 12D where D is the diameter of the uppermost helix.							
N	45		8. Max Soil Capacities based on the the tube torsional capacity.							
O	15									
P	3/8									

A

A

2

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