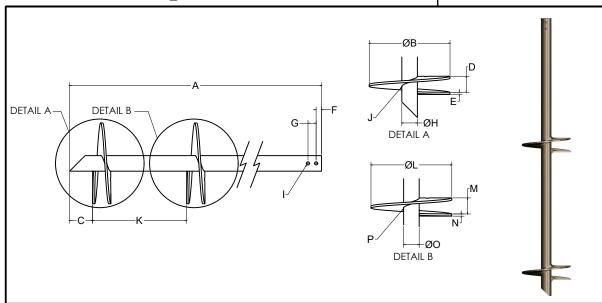
1



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.

В

3		
2		
1	INITIAL RELEASE	2023-09-14
REV	MODIFICATION	DATE

GOLIAŢHITECH

GOLIATHTECH VENTURA LINE

TITLE: 14' Double Helix Screw Pile of 2 7/8 (0.250 wall) with a 13"and 15"Helix

SEAL:

DWG. NO:
VGTPI2781315-14FT

DRAWN BY:
ARG

DESIGN BY:
GOLIATHTECH
CHECK BY:
CPOC
APP BY:
CPOC
OTHER NO:

FORMAT : A	REV.:	DATE :	PAGE:
SCALE: NTS	1	2023-09-14	1 DE

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	Dimension (inches)	Description	WILCHANICAL ASD LOAD CAPACITY							
NO.			Jubraced Shaft Luka	Compression (kips)		Tension	Lateral	Bending	Max Soil Capacity	
				0 Coupler	1 Coupler	2 Coupler	(kips)	(kips)	Moment (kips.ft)	Comp/Ten * (kips)
Α	168		0	57.1	57.1	57.1				
В	13		5	24.4	13.1	7.1				
С	4 1/4		10	12.2	8.5	5.5	21.51	14.40	3.99	34.88
D	3 PITCH		15	6.5	5.3	3.9				
Е	3/8		20	4.0	3.5	2.9				
F	1		Note:	(D4) mus	at he dete	rminad n	or Section 4	1.5 of this r	onort	
G	1 1/2		 Soil capacity (P4) must be determined per Section 4.1.5 of this report. Maximum ultimate soil capacity is determined from Pult = Kt x T based on the corresponding 							

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.

MECHANICAL ASD LOAD CAPACITY

- 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.

2 7/8

9/16

1/4

3 PITCH

3/8

1/4

2 7/8

39

15

Weld

Weld

Н

K

M

Ν

0

P

В