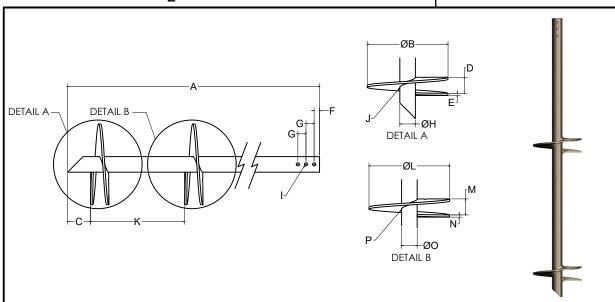
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- 1-MATERIALS:
- HELIX PLATE PER CSA G40.21 50W, MIN.FY=60 KSI, ULTIMATE STRENGTH 70 KSI
- -TUBES PER ASTM A500 GR C, FY=60KSI, FU=70KSI
- 2-ANY CHANGE OF MATERIAL IS SUBJECT TO GOLIATHTECH APPROVAL
 3-WELD PERFORMED IN ACCORDANCE WITH CSA STANDARD W47.1
 AND GOLIATHTECH WELDING PROCEDURES. WELDERS ARE ALSO
 CERTIFIED TO THE AWS STANDARD.

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 INITIAL RELEASE
 2023-09-11

 REV
 MODIFICATION
 DATE

GOLIAŢHITECH

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:
VGTPI3121113-10FT

DRAWN BY:
ARG

DESIGN BY:
GOLIATHTECH
CHECK BY:
CPOC

APP BY:
CPOC

OTHER NO:

FORMAT : A SCALE : NTS REV.: DATE : PAGE : 1 DE 1

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ı		Dimension (inches)	Description	MECHANICAL ASD LOAD CAPACITY							
	NO.			intraced shaft luten	Compression (kips)		Tension	Lateral	Bending	Max Soil Capacity	
1					0 Coupler	1 Coupler	2 Coupler	(kips)	(kips)	Moment (kips.ft)	Comp/Ten * (kips)
l	Α	120		0	58.4	58.4	58.4	22.79	18.50	6.20	43.75
l	В	11		5	34.5	22.3	13.9				
l	С	4 1/4		10	19.6	14.9	10.6				
l	D	3 PITCH		15	11.3	9.5	7.5				
I	E	3/8		20	7.1	6.3	5.4				
l	F	1		Note:	(D4) mus	t he dete	rmined n	er Section 4	1.5 of this r	enort	
۱	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 CADACITY

- ☐ 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.

В

Н

K

L

M

N

0

P

3 1/2

9/16

Weld

Weld

1/4

3 PITCH

3/8

1/4

3 1/2

33

13