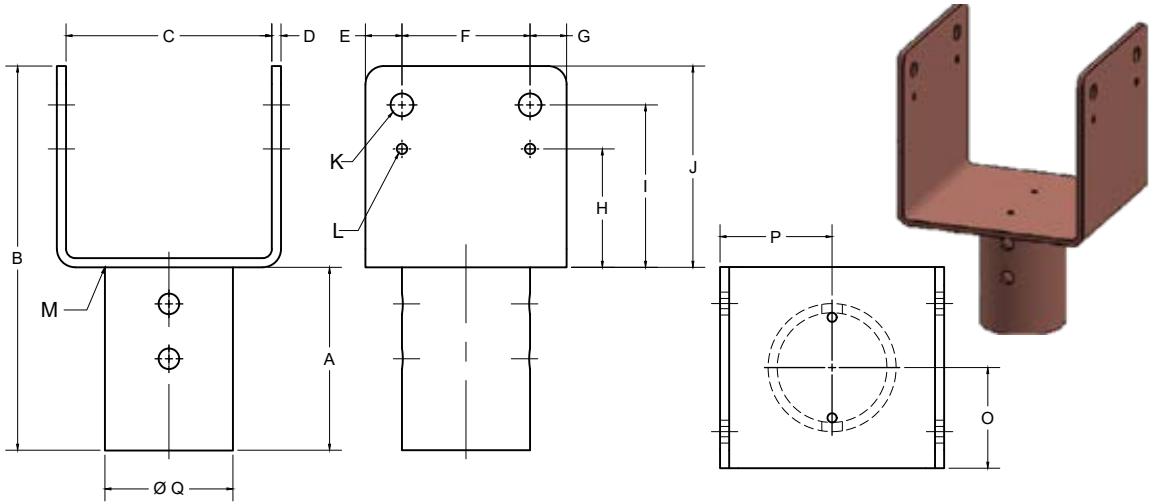

NO.	Dimension (inches)	Description
A	5	
B	10 1/2	
C	5 5/8	Wood post
D	1/4	
E	1	
F	3 1/2	
G	1	
H	3 1/4	
I	4 7/16	
J	5 1/2	
K	5/8	Bolt 1/2"
L	9/32	Wood screw
M	1/4	Weld
O	2 3/4	
p	3 1/16	
Q	3 1/2	

MECHANICAL ASD LOAD CAPACITY SEISMIC DESIGN

CATEGORIES A,B AND C			CATEGORIES D,E AND F		
Compression (kips)	Tension (kips)	Lateral (kips)	Compression (kips)	Tension (kips)	Lateral (kips)
50.90	21.04	15.72	42.40	17.53	15.72

Note:

1-The ASD capacities are based on limit states associated with mechanical steel strength of the bracket to the helical pile shaft. Wood post/beam (above), shaft, or geotechnical capacities may control. The member supported by the bracket must be designed by the registered design professional and must not exceed the tabulated capacities.

2-The tabulated capacities assume the pile foundation system is sidesway braced per IBC Section 18.10.2.2.

3-Tabulated capacities based on two (2) - ½ - inch diameter hex head bolts.

4-All components above the bracket, including the compression and tensile capacities of the wooden member based on species and its situational bearing conditions. Additionally, the connection between the wood member and the U bracket is to be determined by the design professional on a case by case basis.

5-Capacities for bare steel brackets are based on bare steel losing 0.036-inch (318 µm) steel thickness as indicated in Section 3.9 of AC358 for a 50-year service life.

NOTES :

1-MATERIALS:
-PLATE PER CSA G40.21 50W, MIN.FY=60 KSI, FU=70KSI
-TUBE PER ASTM A500 GR C, FY=60KSI, FU= 70 KSI.

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.

REV	MODIFICATION	DATE
3		
2		
1	INITIAL RELEASE	2023-09-27

GOLIATHTECH VENTURA LINE

TITLE: 5 5/8" non adj. U Bracket Pile Head for 2 7/8" Pile

SEAL:

DWG. NO : VGTBRST278U558
DRAWN BY: ARG
DESIGN BY: GOLIATHTECH
CHECK BY: CPOC
APP BY: CPOC
OTHER NO : GTBREST278U558-N

FORMAT : A
SCALE : NTS
REV.: 1
DATE : 2023-09-27
PAGE : 1 DE 1