Existing soil

Supporting plate
Standard : ASTM A36 - Steel

Steel shaft
Model P5 : 5.563" x 0.258" [141.3mm x 6.6mm]
Standard : ASTM A500 grade C - Circular steel section

Exclusive polyethylene sleeve
(if required)

Under depth frost penetration.
Actual pile length to be determined by field conditions and desired loading capacity.

1/2" [12.7mm] thick factory-welded helix
Standard : ASTM A36 - Steel

12" to 24"
[305 to 610mm]
Helix diameter varies according to soil conditions and desired loading capacity.

Load Capacity

<table>
<thead>
<tr>
<th>Maximum compressive bearing capacity 1,3 (allowable load)</th>
<th>Lateral bearing capacity 2,4 (allowable load)</th>
<th>Factored bending resistance (ultimate load)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(lbs)</td>
<td>(lbs)</td>
<td>(lbs ft)</td>
</tr>
<tr>
<td>50,625</td>
<td>4,500</td>
<td>21,316</td>
</tr>
</tbody>
</table>

NOTES:
1. The maximum tensile load capacity can be obtained, conservatively, by halving the values of the bearing capacity in compression shown in the selection table.
2. The lateral capacity depends on the density of soil (to validate consult technical department of Techno Metal Post.)
3. When the pile is laterally unsupported (soil very loose / soil, liquefiable soils, water and air), the structural strength of the pile must be approved by the technical department of Techno Metal Post.
4. The values of lateral capacity are average values and can be modified, more or less, depending on the characteristics of the existing soil.
5. If required, piles may be field welded with extensions to achieve greater loading capacities in poor soil conditions.
6. If required, the helical pile and the supporting plate can be galvanized in compliance with standard ASTM A159.

Approved by:

Date: 2011-10-31
Scale: N/A
Drawing no: P5-G-R0-A-USA
Page number: SHEET 1 OF 1

Techno Metal Post
Model P5
(Above ground light structure)