METAL POLE STANDARD FOUNDATION
SELECTION FORM

SIGNAL INVENTORY NO.:_________________________ DATE:____________

INTERSECTION OF:________________________AND________________________

BORING LABEL:__________________ COUNTY:___________________________

RESIDENT OR DIVISION ENGINEER:_____________________________________

CONTRACTOR NAME:__________________________________________________

BORING INFORMATION:

<table>
<thead>
<tr>
<th>SPT DEPTH</th>
<th>1 ft (0.3 m)</th>
<th>2.5 ft (0.8 m)</th>
<th>5 ft (1.5 m)</th>
<th>7.5 ft (2.3 m)</th>
<th>10 ft (3.0 m)</th>
<th>15 ft (4.6 m)</th>
<th>20 ft (6.1 m)</th>
<th>26 ft (7.9 m)</th>
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<tbody>
<tr>
<td>N-VALUE MIN = 0</td>
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<tr>
<td>MAX = 50</td>
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</table>

\[ N_{AVG} = \frac{(N@1' + N@2.5' + \ldots \ldots N@\text{Deepest Boring Depth}^*)}{\text{Total Number of N-values}} \]
\[ Y = (N@1')^2 + (N@2.5')^2 + \ldots \ldots (N@\text{Deepest Boring Depth}^*)^2 \]
\[ Z = (N@1' + N@2.5' + \ldots \ldots N@\text{Deepest Boring Depth}^*) \]

*Note: Do not include the N-value at the deepest boring depth if the boring is discontinued because one of the following occurs:
  • A total of 100 blows have been applied in any 2 consecutive 6-in. (0.15-m) intervals.
  • A total of 50 blows have been applied with < 3-in. (.08-m) penetration.

\[ N_{STD\ DEV} = \left( \frac{(\text{Total Number of N-values} \times Y) - Z^2}{(\text{Total Number of N-values}) \times (\text{Total Number of N-values} - 1)} \right)^{0.5} \]

Design N-value equals lesser of the following two conditions:
\[ N_{AVG} - (N_{STD\ DEV} \times 0.45) \quad \text{OR} \quad \left( \frac{(N@1' + N@2.5' + N@5' + N@7.5')}{4} \right) \]

IS Design N-value LESS THAN 4? Yes _____ No _____
If yes, standard drilled pier foundation from Foundation Selection Table on plans can not be used.

DESCRIPTION OF SOIL:_____________________________________

DRILLED PIER LENGTH (L):________ ft or m (circle) From Foundation Selection Table on Plans

DEPTH OF BORING:________________________ ft or m (circle)

IS DRILLED PIER LENGTH, L, GREATER THAN DEPTH OF BORING? Yes _____ No _____
If yes, standard drilled pier foundation from Foundation Selection Table on plans can not be used.

CONTRACTOR REPRESENTATIVE SIGNATURE:_____________________________________

DIVISION REPRESENTATIVE SIGNATURE:_____________________________________