**GENERAL NOTES:**
1. CONCRETE 4000 PSI IN 28 DAYS.
2. CALCULATIONS BASED ON SOIL PRESSURE OF 2000 PSF.

**FOOTING/FROST POST**
SONATUBE 8” SQUARE

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**CONVENTIONAL 12” DIAMETER SONOTUBE:**
ALLOWABLE LOAD BEARING AT SOIL =
ALLOWABLE BEARING CAPACITY * AREA =
2000PSF * (0.5*0.5*3.142) = 1571LBS
MAX LOAD BEARING IS 1571LBS

**PRECAST FOOTING/FROST POST:**
ALLOWABLE LOAD BEARING AT TOP =
CONCRETE PSI * AREA / FACTOR OF SAFETY
4000PSI * (8*8) / 2.22 = 115,315LBS

ALLOWABLE LOAD BEARING AT SOIL =
ALLOWABLE BEARING CAPACITY * AREA =
2000PSF * (2*2) = 8,000LBS

THEREFORE MAX ALLOWABLE LOAD APPLIED IS LIMITED BY THE SOILS CAPACITY OF 8,000LBS, WHICH IS GREATER THAN THE MAX LOAD OF 1571LBS FOR THE 12” SONOTUBE

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<thead>
<tr>
<th>ITEM</th>
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<tbody>
<tr>
<td>SONA4</td>
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<tr>
<td>SONA5</td>
<td>725</td>
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Specifications subject to change without notice