### General Notes

1. Pipe shall conform to AASHTO M294, Type S. Installation shall conform to job special provisions and section 611 of the standard specifications for highway construction. bedding.

2. Pipe and fittings shall conform to AASHTO M294, Type S. Installation shall conform to job special provisions.

3. Structural bedding material shall have a minimum particle size of 4" or greater and shall be free of organic material, stones larger than 1.5" in diameter, and any other debris. Structural bedding material shall have a maximum particle size of 4" or greater and shall be free of organic material, stones larger than 1.5" in diameter, and any other debris.

4. Structural bedding material shall have a minimum particle size of 4" or greater and shall be free of organic material, stones larger than 1.5" in diameter, and any other debris. Structural bedding material shall have a maximum particle size of 4" or greater and shall be free of organic material, stones larger than 1.5" in diameter, and any other debris.

5. Structural bedding material shall be compacted to 95% of the maximum density according to the type or class of material used.

6. Structural bedding material shall be compacted to 95% of the maximum density according to the type or class of material used.

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### Minimum Trench Width Based on Fill Height (H)

<table>
<thead>
<tr>
<th>H (FT.)</th>
<th>Trench Width (FT.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 10.0</td>
<td>2.0 - 2.6</td>
</tr>
<tr>
<td>≥ 10.0</td>
<td>3.0 - 3.6</td>
</tr>
</tbody>
</table>

### Minimum Trench Width Based on Fill Height (H) for Type 2 Embankment and Trench Installations

<table>
<thead>
<tr>
<th>H (FT.)</th>
<th>Trench Width (FT.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 10.0</td>
<td>2.0 - 2.6</td>
</tr>
<tr>
<td>≥ 10.0</td>
<td>3.0 - 3.6</td>
</tr>
</tbody>
</table>

### Multiple Installation of High Density Polyethylene Pipes

<table>
<thead>
<tr>
<th>Pipe Diameter</th>
<th>Number of Pipes</th>
<th>Total Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>36&quot;</td>
<td>2</td>
<td>72&quot;</td>
</tr>
<tr>
<td>42&quot;</td>
<td>2</td>
<td>84&quot;</td>
</tr>
<tr>
<td>48&quot;</td>
<td>2</td>
<td>96&quot;</td>
</tr>
<tr>
<td>54&quot;</td>
<td>2</td>
<td>108&quot;</td>
</tr>
</tbody>
</table>

### Structural Backfill and Structural Bedding Material

Structural backfill and structural bedding material shall be free of organic material, stones larger than 1.5" in diameter, and any other debris. Structural backfill and structural bedding material shall be compacted to 95% of the maximum density according to the type or class of material used.

### INSTALLATION TYPE

**MATERIAL REQUIREMENTS FOR EXCAVATION, STRUCTURAL BACKFILL AND STRUCTURAL BEDDING**

*Structural bedding material shall have a minimum particle size of 4" or greater and shall be free of organic material, stones larger than 1.5" in diameter, and any other debris. Structural bedding material shall have a maximum particle size of 4" or greater and shall be free of organic material, stones larger than 1.5" in diameter, and any other debris.*

### NOTICE

*Structural bedding material shall have a minimum particle size of 4" or greater and shall be free of organic material, stones larger than 1.5" in diameter, and any other debris. Structural bedding material shall have a maximum particle size of 4" or greater and shall be free of organic material, stones larger than 1.5" in diameter, and any other debris.*

### REVISED GENERAL NOTE

1. Structural backfill, embankment, and outer structural bedding material shall be compacted to 95% of the maximum density according to the type or class of material used.

### Structural Backfill Material

Structural backfill material shall be compacted to 95% of the maximum density according to the type or class of material used.

### Construction Sequence

1. Place structural bedding material to grade. Do not compact.
2. Install pipe to grade.
3. Compact structural bedding outside the middle third of the pipe.
4. Structural backfill shall be placed on grade and compacted in layers not exceeding 8" wide. The layers shall be brought up evenly and simultaneously to the elevation of the minimum cover.
5. Structural bedding shall include a minimum 12" layer of compacted structural bedding material. The quantity of material required to backfill the undercut area up to the selected pipe bedding pay limit designated above will be measured and paid for as "selected pipe bedding."