### Table: Arch Culvert Design

<table>
<thead>
<tr>
<th>Arch Culvert Design</th>
<th>No. of Pipe Culverts</th>
<th>No. of Spans in L2</th>
<th>L2 Overall Dimension</th>
<th>L2 Overall Dimension</th>
<th>No. of Headwall Pipes</th>
<th>No. of Pipe Culverts</th>
<th>No. of Spans in L2</th>
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### Diagram: Culvert Layout

- **Pipe Runner Layout**
- **Headwall Pipe Runner**
- **Longest Wing Pipe Runner**
- **Shortest Wing Pipe Runner**

**Note:** Left forward culvert skew shown, if present, the non-sliding pipes.

**Total Pipe Length Formulas**

\[
\text{Total Length} = \text{Total Length of Wingwall Pipe Runners} + \left( \text{No. of Headwall Pipe Runners} \right) \left( \text{Headwall Pipe Runner Length} \right)
\]

\[
\text{Total Length} = \left( 2 \times \text{No. of Wing Pipes} \times \text{Pipe Runner Length} \right) + \left( \text{No. of Headwall Runners} - \text{No. of Non-Sliding Runners} \right)
\]

**Special Note:**
- Note that the tabular quantities are given for estimating purposes only. It is likely that these quantities will change due to field conditions. Therefore, verify all dimensions in the field prior to fabrication of the safety and treatment components.

**Standard Pipe Runner and Anchor Pipe Sizes**

- **Pipe Sizes:**
  - 2" STD
  - 2 3/4" STD
  - 3 1/4" STD
  - 3 1/2" STD

**Culvert Design:**

- **Type I - Cross Drainage**

**Revision:** SETP-FW-A-15

**Date:**

- **TxDOT:**
  - 12-06

**Note:** Left forward culvert skew shown, actual culvert skew may be opposite hand.