2( ' x ' ) CONCRETE BOX CULVERT

**Layout Dimensions**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>10</td>
<td>B</td>
<td>20</td>
<td>C</td>
<td>10</td>
</tr>
<tr>
<td>B</td>
<td>20</td>
<td>C</td>
<td>10</td>
<td>D</td>
<td>10</td>
</tr>
<tr>
<td>C</td>
<td>10</td>
<td>D</td>
<td>10</td>
<td>E</td>
<td>10</td>
</tr>
<tr>
<td>E</td>
<td>10</td>
<td>F</td>
<td>10</td>
<td>G</td>
<td>10</td>
</tr>
<tr>
<td>G</td>
<td>10</td>
<td>H</td>
<td>10</td>
<td>I</td>
<td>10</td>
</tr>
<tr>
<td>I</td>
<td>10</td>
<td>J</td>
<td>10</td>
<td>K</td>
<td>10</td>
</tr>
<tr>
<td>K</td>
<td>10</td>
<td>L</td>
<td>10</td>
<td>M</td>
<td>10</td>
</tr>
<tr>
<td>M</td>
<td>10</td>
<td>N</td>
<td>10</td>
<td>O</td>
<td>10</td>
</tr>
<tr>
<td>O</td>
<td>10</td>
<td>P</td>
<td>10</td>
<td>Q</td>
<td>10</td>
</tr>
<tr>
<td>P</td>
<td>10</td>
<td>Q</td>
<td>10</td>
<td>R</td>
<td>10</td>
</tr>
<tr>
<td>R</td>
<td>10</td>
<td>S</td>
<td>10</td>
<td>T</td>
<td>10</td>
</tr>
<tr>
<td>S</td>
<td>10</td>
<td>T</td>
<td>10</td>
<td>U</td>
<td>10</td>
</tr>
<tr>
<td>U</td>
<td>10</td>
<td>V</td>
<td>10</td>
<td>W</td>
<td>10</td>
</tr>
<tr>
<td>W</td>
<td>10</td>
<td>X</td>
<td>10</td>
<td>Y</td>
<td>10</td>
</tr>
<tr>
<td>Y</td>
<td>10</td>
<td>Z</td>
<td>10</td>
<td>AA</td>
<td>10</td>
</tr>
<tr>
<td>AA</td>
<td>10</td>
<td>BB</td>
<td>10</td>
<td>CC</td>
<td>10</td>
</tr>
<tr>
<td>BB</td>
<td>10</td>
<td>DD</td>
<td>10</td>
<td>EE</td>
<td>10</td>
</tr>
</tbody>
</table>

**General Elevation A-A**

**General Notes:**
- Design Specifications: M98.5-09, M98.5-09d, M98.5-10, M98.5-10d
- Design Loading: AASHTO Highway Bridge S98.5-10
- Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
- Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Interim Revisions for Highway Bridge Design Specifications:
  - 2010 AASHTO LRFD Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Construction: Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Interim Revisions for Highway Bridge Design Specifications:
  - 2010 AASHTO LRFD Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Construction: Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Interim Revisions for Highway Bridge Design Specifications:
  - 2010 AASHTO LRFD Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Construction: Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Interim Revisions for Highway Bridge Design Specifications:
  - 2010 AASHTO LRFD Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Construction: Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Interim Revisions for Highway Bridge Design Specifications:
  - 2010 AASHTO LRFD Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Construction: Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Interim Revisions for Highway Bridge Design Specifications:
  - 2010 AASHTO LRFD Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
- Construction: Bridge Design Specifications and 2010 Design Specifications:
  - General Notes:
    - Design Loading: AASHTO Highway Bridge S98.5-10
    - Design Unit Stresses: HSL18, HSL181, HSL182, HSL183, HSL184, HSL185
    - Reinforcement Steel (Culverts-Bridge): Grade B-1 Concrete (Culverts-Bridge)
ALTERNATE AND SUPPLEMENTAL DETAILS

Corresponds to the border of the standard drawing for ease in moving alternate details (Snap to corner)

---

Fill Heights

- Culvert 1
  - Design Unit 1
  - Design Unit 2

- Culvert 2
  - Design Unit 1
  - Design Unit 2

Dimensions are based on end units. Applicable as based on one. Fill heights are measured true from center of culvert to elevation of fill.

Estimated Quantities

- Base 1 Extension
  - No. units
  - x
- Temporary Shoring
  - tube units
  - x
- Pipes Inlet of Culvert
  - Culvert tubing
  - x
- Reinforcing (Metal)
  - tubing
  - x

Alternate Estimated Quantities for Culvert

- Extensions or when Five Items are Required

- Alternate Plan of Transverse Joints

---

PLAN OF TRANSVERSE JOINTS AND STAGE CONSTRUCTION

Remove if not applicable.

---

LOCATION SKETCH

---

ALTERNATE AND SUPPLEMENTAL DETAILS

---

Pipe Inlet Data

- Station
- Street
- D.I.
- F.L. Elev.
- Spa.
- Offset

---

Pipe Inlet Data

- Station
- Street
- D.I.
- F.L. Elev.
- Spa.
- Offset

---

SUPPLEMENTED PIPE INLET DETAILS

---

ESTIMATED DETAILS

---

SUPPLEMENTARIE REINFORCEMENT TABLE (Nonstandard

---

Alternate Reinforcement Table (Nonstandard...