## Side Elevation of Cast-in-Place Concrete

**Design Components:**
- **Pipe Culvert:**
  - Design: Reinforced Concrete Pipe (RCP) Culverts
  - Design: Corrugated Metal Pipe (CMP) Culverts

**Dimensions:**
- 

**Construction Details:**
- **Pipe Culvert:**
  - Rebars:
    - **Bar Size:** 3 ½" Dia
    - **Bar Type:** 6" Min
- **Anchor Bolt:**
  - ** Dia:** 12"

**Installation:**
- **Flowline:**
  - 
- **Working Point:**
  - 

**Reinforcement:**
- **Anchor Bolt:**
  - 

**Safety End Treatments (SET):**
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**General Notes:**
- Provided cross pipes, except the first bottom pipe, of the multi-Pipe Culvert, quantities will need to be adjusted.
- Construction noted to be included with SET (for payments).
SHOWING TYPICAL PIPE CULVERT AND RIPRAP

SECTION A-A

SHOWING CROSS PIPE WITH ANCHOR BAR

SHOWING CROSS PIPE WITH BOLTED ANCHOR

SECTION B-B

DETAL "A"
(Showing invert with corrugated metal pipe (CMP) culvert. Reinforced concrete pipe (RCP) culvert details are similar. Cross pipes not shown for clarity.)

CROSS PIPE DETAILS

PIPE WITH ANCHOR BARS

PIPE WITH BOLTED ANCHOR

SECTION C-C

SHEET 2 OF 2

Texas Department of Transportation
Bridge Design Standard

SAFETY END TREATMENT
FOR DESIGN 1 TO 9
ARCH PIPE CULVERTS
TYPE II – PARALLEL DRAINAGE

SETP-PD-A

FILE: DATES: JOB:
COUNTY: SECT: DIST:
REVISIONS: HIGHWAY:
SHEET NO.: C TxDOT
CONT:

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COUNTY: SECT: DIST:
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