**STRUCTURAL CONCRETE:**

- Fy = 36,000 psi

**STRUCTURAL STEEL:**

- Use coated deformed carbon reinforcing steel bars conforming to AASHTO M 284 or M 111 and M 31 grade 60 respectively.
- Field cut and bend reinforcing steel as necessary to clear pipes and maintain 2 inch cover. Repair any damage or cuts to the coating on reinforcing bars.

**DESIGN DATA:**

1. Use standard AASHTO LRFD Bridge Design and Interim Specifications.
2. Use Type II cement (low alkali).
3. Use Class AA (AE) concrete.
4. Provide 2 inch concrete cover to reinforcing steel.
5. Provide 3/4 inch chamfer on all exposed concrete corners.
6. See roadway plans for number, location and size of pipe(s).
7. Provide 2 inch concrete cover to reinforcing steel.
8. Use approved non-shrink grout to seal opening around pipe. Use approved pipe manufacturer's pipe boot.
9. Center pipe in box opening. Use approved pipe boot and pipe manufacturer's instructions.
10. Provide 3/4 inch chamfer on all exposed concrete corners.
11. See standard AASHTO LG 3 or LG 4 for grate and frame.
12. Center pipe in box opening. Use approved non-shrink grout to seal opening around pipe. Use approved pipe manufacturer's pipe boot.
13. Provide 3/4 inch chamfer on all exposed concrete corners.
14. See standard AASHTO LG 3 or LG 4 for grate and frame.

**NOTES:**

- Seal opening around pipe (see notes 2).
- Cure and gutter for second draw. Type B1 or B2.
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- Use Class AA (AE) concrete.
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- See roadway plans for number, location and size of pipe(s).
- Seismic test and standarization drawings.
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