NOTES

1. Length of W8 × 35, W6 × 8.5 or W6 × 9 shall be determined by measurement from ground line to top of grout pad. This distance shall be verified by the Contractor.

2. Attach Guardrail Post to Box Culvert with 3/4" (in) diameter high-strength bolts with resin-bonded anchors.

3. Drill 1 1/4" (in) diameter hole in concrete slab for 7/8" (in) diameter high-strength bolt. Length of bolt is determined by top slab of Box Culvert thickness, which shall be verified by the Contractor.

4. For details of post attachment to Double Box Culvert, see Standard Plan C-2i.

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Diagram details:

- **Traffic Side**
- **Existing Box Culvert**
- **Double Box Culvert**
- **Post Anchor Attachment**
- **Post Base Plate**
- **Post Bearing Plate**
- **Wood Block for Steel Post**
- **3/4" (in) GROUT PAD**
- **1" (IN) DIAMETER HOLE**
- **5/8" (IN) STEEL PLATE**
- **6" TO 10" V A R I E S**
- **STANDARD PLAN C-10**
- **STEEL POST**

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**Post Anchor Attachment Detail**

- **(SEE NOTE 2)**
- **Wood Block for Steel Post**
- **3/4" (IN) GROUT PAD**
- **1" (IN) DIAMETER HOLE (TYP.)**
- **5/8" (IN) STEEL PLATE**
- **6" TO 10" V A R I E S**
- **STANDARD PLAN C-10**
- **STEEL POST**

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**Post Base Plate Detail**

- **1" (IN) DIAMETER HOLE (TYP.)**
- **5/8" (IN) STEEL PLATE**
- **6" TO 10" V A R I E S**
- **STANDARD PLAN C-10**
- **STEEL POST**

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**Post Bearing Plate Detail**

- **1" (IN) DIAMETER HOLE (TYP.)**
- **5/8" (IN) STEEL PLATE**
- **6" TO 10" V A R I E S**
- **STANDARD PLAN C-10**
- **STEEL POST**

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**Diagram References**

- **SEE POST ANCHOR ATTACHMENT DETAIL FOR CENTER OF DOUBLE BOX CULVERT**
- **SEE NOTE 2**
- **SEE NOTE 3**
- **SEE NOTE 4**
- **SEE STANDARD PLAN C-1b**
- **SEE NOTE 1**
- **SEE WOOD BLOCK FOR STEEL POST ~ STANDARD PLAN C-2i**
- **SEE HIGH-STRENGTH BOLTS ~ FOUR REQUIRED**