**NOTES**

**DESIGNER NOTE:** Post/Socket location should be detailed in the plans to coordinate with the rebar spacing in the headwall.

**GENERAL:** See Sheet 2 for reinforcement diagrams and for detailed guardrail components. All guardrail parts are galvanized steel. Plates and Gussets are ASTM A572 Grade 50, Bolts are ASTM A325, and the S3x5.7 Posts are ASTM A992.

**BACKUP PLATE:** The S3x5.7 Posts utilize a 2" wide W-Beam backup plate instead of a blockout.

**AND/OR:** Holes shall comply with CMS 80. Use non-shrink, nonmetallic grout according to CMS 705.20.

**MECHANICAL SPLICES** shall comply with CMS 809.

**PAYMENT:** The Socketed Post Connections shall be paid in feet as Item 606 - Guardrail, Type MGS With Socketed Posts. The #6 90° hook bars shall be paid for with the culvert. All headwall reinforcement shall be paid for with the headwall.

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**Elevation**

**POST SOCKET ATTACHED TO HEADWALL**

**Item 606 - Guardrail, Type MGS With Socketed Posts**

**Socketed Post Spacing**

- 6' - 0" (Typ.)
- 3' - 0" (Typ.)

**Splice Slots**

- (Typ. of 8)
- 12" (Typ.)

**Reinforced Culvert Headwall**

**Backup Plate**

- (12 gauge)

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**Figures:**

- **SECTION A-A**
- **SECTION B-B**

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**Material:**

- **Post Bolt Slot**
- **S3x5.7 Post**
# MIDWEST GUARDRAIL SYSTEM

**Socketed Weak Post Attached to Headwall**

- **Top View** (see detail X above)
- **Side View**
- **Front View**
- **Isometric View**
- **A. Square Tube**
- **B. Top Mounting Plate**
- **C. Bottom Mounting Plate**
- **D. Top Plate Gusset**
- **E. Post Standoff**
- **F. Post Socket**

**Dimensions and Notes**:
- #6 180° Hook Bar with one end threaded
- #6 90° Hook Bar with one end threaded
- Bolted to Headwall Engagement

**Engineering Notes**:
- Post may be beveled to achieve proper weld depth
- Weld depth to achieve proper engagement
- Headwall Engagement 11# 1/8" Thread

**Drawing Information**:
- S3x5.7 Top View
- S3x5.7 Post View
- ISOMETRIC VIEW
- BENDING DIAGRAMS

**Date**
- MGS-2.4 DATED 7/18/2019

**Office of Engineering**
- Dept of Transportation State of Ohio

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This drawing series, ADS-2.4, replaces MGS-2.4 dated 7/18/2014.