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| Note: when the contract requires installing weathering steel (Type IV) for W-beam Guardrail (G4 and MGS), always specify the Metal Thickness Class B. |

## Section 617. — GUARDRAIL

**Description**

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| Include when using MGS or SBL-FAT.  |

**617.01**

**(a)** Add the following:

MGS — Midwest Guardrail System (MGS)

**(d)** Add the following:

MGS Flared - Straight flared MGS W-beam terminal

MGS Tangent - Tangent MGS W-beam terminal

SBL-FAT - Flared SBL anchor terminal

**Material**

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| Include the following when galvanized steel guardrail system elements require an aesthetic finish by using a reactive colorant product applied to the guardrail |

**617.02** Add the following**:**

Painting 563

**Construction Requirements**

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| Include the following when galvanized steel guardrail system elements require an aesthetic finish by using a reactive colorant product applied to the guardrail |

Treat all galvanized material for guardrail systems with a weathering agent according to Section 563.

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| Include the following for all projects with flared or tangent w-beam guardrail terminals. Check with the maintaining agency to determine whether a specific terminal type (e.g. MSKT, SRT-350, FLEAT, or others) is required. If so, insert the specific terminal type/name in the highlighted area below. Write a ‘brand name or approved equal’ memo to justify use of a specific proprietary terminal. If the maintaining agency does not have a preference, insert either FLARED or TANGENT in the highlighted area below.Specify the crash testing criteria required (typically MASH, limited situations will use NCHRP 350).Determine the test level for the terminal type chosen and insert it in the highlighted area below (e.g. 2 (for 45 mph and less) or 3 (for 50 mph and greater)). Also include the appropriate drawings in the plans. |

Use (flared, tangent, etc.) terminals meeting (MASH, NCHRP 350) Test Level (fill in). When proprietary terminals are required, submit the installation manual from the manufacturer for the terminal, including inspection checklists.

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| Include the following when using MGS guardrail (Details C617-31 or C617-32) |

**617.04 Post Installation**. Delete the fifth and sixth paragraphs and substitute the following:

When a post cannot be placed at its normal location due to an impenetrable object an additional blockout may be added. If the post cannot be offset, follow the post in rock detail, the long span detail, or omit a post as shown in the plans.

Use the post length as shown in the plans. Do not change the post length or spacing in terminal sections.

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| Include the following when using G4 guardrail (Details C617-10 or C617-11), and the alternate hole arrangement is required to accommodate future pavement overlays. |

**617.04 Post Installation**. Add the following:

Use alternate hole arrangement detail as shown on Standard 617-(fill in).

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| Include the following on projects with structure transition rail. |

**617.07 Connection to Structure.** Add the following**:**

Do not change the post length or spacing in structure transition rail sections.

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| Include the following when galvanized steel guardrail system elements require an aesthetic finish by using a reactive colorant product applied to the guardrail |

**617.11 Acceptance.** Add the following**:**

Painting will be evaluated under Section 563.