

5360000 GUARDRAIL  
COMMENTS FROM INTERNAL/INDUSTRY REVIEW

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Daniel Scheer

Comment: (6-3-13) 536-2.3.1 ((Use posts of either timber or steel, and of the sizes and dimensions shown in the Plans. The Contractor may choose the type of post to use if not designated in the Contract Documents. (Put into active voice)).  
536-3 )with suitable thoroughly tamped material) This is Vague – need to define./// (Patch the area of asphalt around each post with fresh hot bituminous mixture after driving the posts....Active Voice?

Response: 1.) Agreed, we will change to active voice. Change Made.  
2.) The sentence in S536-3 will be reworded to “backfill the post holes and thoroughly tamp material”. KB

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Rose, Sue  
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Comment: (6-3-13)  
536-2.5, Paragraph 6 (last in the section):  
“Use steel offset blocks that meet the requirements of 536-2.5.”  
This paragraph is under 536-2.5 and references back to the same section. It is also the second mention of steel offset block requirements in the section.  
The first reference in Paragraph 3 should be used in lieu of Paragraph 6: “Use steel offset blocks meeting the requirements of ASTM A36 steel. Galvanize the steel offset blocks in accordance with the requirements of ASTM A123, with 2 oz/ ft<sup>2</sup> of zinc coating. Drill the steel offset blocks prior to galvanizing.”

Paragraph 6 can be deleted.

Response: The last paragraph(6) in 536-2.5 has been removed. Change Made. (Spec’s Office)

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Andy Harper

Comment: (6-11-13) In 536-2.5, last paragraph we use the words, offset, and elevation to describe the direction of measurement for the composite blocks, Why are we not using the same wording to describe the direction of measurement in the wood offset blocks.

Response: Agree, Change Made.

536-2.1 **Galvanize steel and obtain steel**, timber and end anchorage assembly products from plants that are currently on the list of Producers with Accepted Quality Control Programs.  
Needs to be reworded.

Response: Agree, Change Made.

(536-2.6 Reflector Units Elements) 993-2.6 changed name from Retroreflective units to Guardrail and barrier delineators, to be consistent we should also change here.

Response: Agreed, this has been reworded. KB

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Chester A. Henson  
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Comment: (6-20-13) 536-2.6 should be titled Barrier Delineators. Word reflectors in the section should be changed to delineators. Reference to Section 993-3 should also be changed to 993-2.6.

Response: 536-2.6 has been changed to be consistent with Section 993. Changed Made.

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Melissa Hollis  
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Comment: (6-25-13) Update 536-2.6 to refer to Section 705 for reflector elements? Ongoing discussion on 705 payment.

Response: Agreed, Changes Made. KB

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Guy Laprade  
<mailto:Guy.Laprade@trin.net>

Comment: (7-1-13) 536-2.3.3 Steel posts: Drill or punch steel posts prior to galvanizing.

Section 536-2.1 says to use steel products meeting the requirement of 967-1.

Section 967-1 Rail Elements for Guardrail states that guardrail shall meet the requirements of AASHTO M180 , (except as specified below), and for either class shown. Type 2 zinc coating will be required.

To keep the manufacturing and galvanizing process consistent with the steel post section shouldn't section 967-1 be revised to state that: **Type 2 zinc coating galvanized after fabrication will be required?**

Response: Thank you for your comments. There are several processes to fabricating rail elements for guardrail. One process is continuous galvanization where a continuous strand of rail is galvanized and then formed and cut. *No Change Made.*

Note #17 from the Design Standards has been moved in to the specification. -KB

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