ORIGINATION FORM

THE INFORMATION BELOW IS TO BE PROVIDED BY THE ORIGINATOR (

Specification: 967-2

Subject: Aluminum Guardrail

Origination date: December 1, 2008

Originator: Andy Keel
Office/Phone: Roadway Design, 414-4334

Problem statement: This section gives specifications for guardrail elements that are no longer allowed.

Proposed solution: Delete the section.

Information source:

Recommended Usage Note:

Estimated fiscal impact, if implemented: None

Implementation of these changes, if and when approved, will begin with the July 2009 letting.

Florida Department of Transportation

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GOVERNOR

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M E M O R A N D U M

DATE: February 13, 2009

TO: Specification Review Distribution List

FROM: Rudy Powell, Jr., P.E., State Specifications Engineer

SUBJECT: Proposed Specification: 9670200 Aluminum Guardrail

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Andy Keel to remove specifications for obsolete guardrail elements.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at ST986RP or rudy.powell@dot.state.fl.us. Comments received after March 13, 2009 may not be considered. Your input is encouraged.

RP/dt
Attachment

RAIL ELEMENTS FOR GUARDRAIL.
(REV 02-02-09)

ARTICLE 967-2 (Page 859-860) is deleted.

967-1 Steel Guardrail.

Steel guardrail materials shall meet the requirements of AASHTO M 180, (except as specified below), and for either Class shown. Type 2 zinc coating will be required.

As an exception to the requirements of AASHTO M 180, the coating properties, sampling, test methods, inspection, and certification related to galvanizing regardless of the method of galvanization of the rail elements shall meet the requirements of ASTM A 123.

All supports, fastenings and other accessories, including bolts, nuts, washers, etc., (and including the steel trailing end-anchorage rods required to be used with aluminum guardrail) shall be galvanized as specified in ASTM A 153.

Acceptance of steel guardrail materials shall be based on manufacturer's certified mill analysis of test results meeting the specification limits of the ASTM or AASHTO designation as stated above. Certification of these test values, representing each shipment of guardrail materials, shall be provided to the Engineer for each project.

~~**967-2 Aluminum Guardrail.**~~

~~Except as might be specified otherwise in the plans, aluminum rail and hardware shall meet the requirements specified in this Article.~~

~~The aluminum rail element shall consist of a 0.125 inch aluminum sheet, Alloy Alclad 2024-T3, formed into a deep-beam type rail in accordance with the details shown on the Design Standards.~~

~~The rail element shall meet the following requirements:~~

~~(1) Minimum ultimate tensile strength - 62,000 psi.~~

~~(2) Minimum longitudinal strength through splice joint - 80,000 lbs.~~

~~(3) Minimum thickness of plate - 0.125 inch.~~

~~(4) A 2 inch test specimen shall elongate not less than 15%.~~

~~Bolts shall be aluminum alloy 2024-T4, shall have an anodic coating of at least 0.0002 inch in thickness and shall be chromate sealed.~~

~~Nuts shall be aluminum alloy 6061-T6.~~

~~Washers shall be aluminum alloy Alclad 2024-T4.~~

~~(The steel trailing end-anchorage rods, required to be used with aluminum guardrail, are specified in 967-1.)~~

~~Mill analysis reports shall be submitted as specified in 965-2.~~