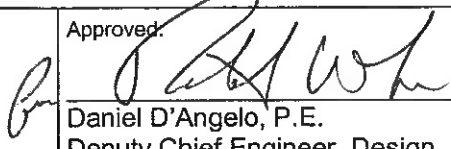


SUPERSEDED BY EB 15-031 EFFECTIVE 9/28/15		New York State Department of Transportation ENGINEERING INSTRUCTION	EI 09-005
Title: ELIMINATION OF THE PAY FACTOR FOR BOX BEAM GUIDE RAIL END TERMINAL POSTS INSTALLED IN ROCK AND REFERENCES TO RUSTIC RAIL			
Distribution: ☒ Manufacturers (18) ☒ Local Govt. (31) ☒ Agencies (32)	☐ Surveyors (33) ☒ Consultants (34) ☒ Contractors (39)	Approved:  Daniel D'Angelo, P.E. Deputy Chief Engineer, Design	Date 10/14/09

ADMINISTRATIVE INFORMATION:

- This Engineering Issuance is effective beginning with projects submitted for the letting of May 6, 2010.
- Superseded Issuances: none.
- Disposition of Issued Materials: The attached proposal insert will be incorporated into the Standard Specifications.
- This EI is being issued in conjunction with EB 09-003.

PURPOSE: This issuance transmits a change to Section 606 of the Standard Specifications.

TECHNICAL INFORMATION:

- The payment factor specified in §606-5.01 applied to locations where end terminal posts are installed in rock, is eliminated.
- Cost Impact. It is not anticipated that this issuance will result in any cost impact.
- An additional change to the Section 606 is the removal of references to "rustic" rail in accordance with EI 07-029 *Elimination Of A588 Steel for Guide Rail Design Projects*.

IMPLEMENTATION: Main Office Design Quality Assurance Bureau will insert a standard specification shelf note beginning with projects submitted for the letting of May 6, 2010.

TRANSMITTED MATERIALS: Shelf notes, in both Metric and U.S. Customary, issuing the Standard Specification change are attached.

BACKGROUND: EI 89-007 issued the detail titled "Traffic Side Elevation Typical Treatment For Buried Ends – Rock or Soil" where box beam guide rail is terminated at an embankment without a turned down end. At the time of the original issuance, it was felt that there would be a need to provide for payment when the posts were embedded in rock in the final 20 feet. However, it has been determined that this provision is unnecessary.

CONTACT: For additional information contact Bob Lohse of the Design Quality Assurance Bureau at (518) 457-3528 (rlohse@dot.state.ny.us).

Section 606 – Type 0 Guide Rail End Terminal

Make the following changes to the Standard Specifications of May 4, 2006 (Metric Units):

Page 499, in §606-2, **Delete** the line “Guide Rail and Median Barrier Systems (Rustic) 710-25”

Page 499, in §606-2.01, **Delete** the last sentence “Similar hardware associated with Rustic barrier systems shall meet the requirements of §710-25.”

Page 499 and 500, **Replace** §606-2.03 through §606-2.05 with the following:

“606-2.03 Fasteners. Bolts, nuts and washers shall conform to the following, unless specified otherwise on the plans, standard sheets, manufacturer’s drawings’, or in the contract documents.

Bolts	ASTM F568 Class 4.6
Nuts	ASTM A563M Grade A or Better
Washers	ASTM F436M

Bolts, nuts and washers shall be galvanized in accordance with the provisions of §719-01 Galvanized Coatings and Repair Methods, Type II.

606-2.04 I-Beam Posts for Existing Highway Barrier. I-beam posts for existing highway barrier shall conform to the requirements of §710-14 Galvanized Steel Barrier Posts. Posts shall conform to the details shown on the plans or the latest edition of the standard sheet for the guide railing or median barrier affected. Hardware (nuts, bolts, “J” bolts, offset beams or block-outs, back up plates, washers, and shelf angles) necessary shall conform to the requirements of the current specifications and standard sheets for the highway barrier affected.

606-2.05 Extra Long Guide Rail Posts. Extra long Guide Rail Posts shall conform to the requirements of §710-14 Galvanized Steel Barrier. The posts shall conform to the details for extra long posts shown on the standard sheets or plans.”

Page 500 and 501, **Replace** §606-2.10 and §606-2.11 with the following:

“606-2.10 Corrugated Beam Guide Rail Transition To Bridge Rail, Concrete Barrier and Concrete Parapets. Corrugated beam rail sections shall conform to the requirements of §710-20. All remaining material shall conform to the requirements of §710-23 except that:

- A. Block-outs and stiffening channels shall conform to ASTM A36.
- B. All components shall be galvanized in accordance with §719-01 *Galvanized Coating and Repair Methods*, Type I or Type II. If required by the plans, the components shall be painted to match the existing railing. Painting shall be done in accordance with Section 657 except that:
 - 1. Painting with rollers will not be permitted.
 - 2. Spray painting will be allowed only if the components are painted at a location, away from the work site, acceptable to the Engineer.
- C. Shop drawings will not be required. Approval of the system will be made by the Engineer.

606-2.11 Vacant.”

Page 510, **Delete** §606-3.17 in its entirety, and **Replace** with the following: **“606-3.17 Vacant.”**

Page 513, in §606-5.01, **Delete** the third paragraph “Payment for box beam guide rail terminating and buried in a backslope with the posts embedded in rock shall have a payment factor of 2 for the last 6 meters.”

Section 606 – Type 0 Guide Rail End Terminal

Page 822, in §710-24, **A. GENERAL**, *Delete* the second paragraph “Rustic versions of box beam bursting style Type III End Assembling shall comply with the above requirements except the metal parts exposed to view shall be painted in accordance with '740-03 Painting Galvanized Surfaces”

Page 823 through 825, *Delete* **710-25 GUIDE RAIL AND MEDIAN BARRIER STSTEMS (RUSTIC)** in its entirety and *Replace* with the following: “**710-25 Vacant.**”

Section 606 – Type 0 Guide Rail End Terminal

Make the following changes to the Standard Specifications of May 1, 2008 (U.S. Customary Units):

Page 503, in §606-2, **Delete** the line “Guide Rail and Median Barrier Systems (Rustic) 710-25”

Page 504, in §606-2.01, **Delete** the last sentence “Similar hardware associated with Rustic barrier systems shall meet the requirements of §710-25.”

Page 504, **Replace** §606-2.03 through §606-2.05 with the following:

“606-2.03 Fasteners. Bolts, nuts and washers shall conform to the following, unless specified otherwise on the plans, standard sheets, manufacturer’s drawings’, or in the contract documents.

Bolts	ASTM A307 Grade A
Nuts	ASTM A563 Grade A or Better
Washers	ASTM F436

Bolts, nuts and washers shall be galvanized in accordance with the provisions of §719-01 Galvanized Coatings and Repair Methods, Type II.

606-2.04 I-Beam Posts for Existing Highway Barrier. I-beam posts for existing highway barrier shall conform to the requirements of §710-14 Galvanized Steel Barrier Posts. Posts shall conform to the details shown on the plans or the latest edition of the standard sheet for the guide railing or median barrier affected. Hardware (nuts, bolts, “J” bolts, offset beams or block-outs, back up plates, washers, and shelf angles) necessary shall conform to the requirements of the current specifications and standard sheets for the highway barrier affected.

606-2.05 Extra Long Guide Rail Posts. Extra long Guide Rail Posts shall conform to the requirements of §710-14 Galvanized Steel Barrier. The posts shall conform to the details for extra long posts shown on the standard sheets or plans.”

Page 505, **Replace** §606-2.10 and §606-2.11 with the following:

“606-2.10 Corrugated Beam Guide Rail Transition To Bridge Rail, Concrete Barrier and Concrete Parapets. Corrugated beam rail sections shall conform to the requirements of §710-20. All remaining material shall conform to the requirements of §710-23 except that:

- A. Block-outs and stiffening channels shall conform to ASTM A36.
- B. All components shall be galvanized in accordance with §719-01 *Galvanized Coating and Repair Methods*, Type I or Type II. If required by the plans, the components shall be painted to match the existing railing. Painting shall be done in accordance with Section 657 except that:

- 1. Painting with rollers will not be permitted.
- 2. Spray painting will be allowed only if the components are painted at a location, away from the work site, acceptable to the Engineer.

- C. Shop drawings will not be required. Approval of the system will be made by the Engineer.

606-2.11 Vacant.”

Page 514 and 515, **Delete** §606-3.17 in its entirety **Replace** with the following: **“606-3.17 Vacant.”**

Section 606 – Type 0 Guide Rail End Terminal

Page 517, in §606-5.01, **Delete** the third paragraph “Payment for box beam guide rail terminating and buried in a backslope with the posts embedded in rock shall have a payment factor of 2 for the last 20 feet.”

Page 863, in §710-24, **A. GENERAL**, **Delete** the second paragraph “Rustic versions of box beam bursting style Type III End Assembling shall comply with the above requirements except the metal parts exposed to view shall be painted in accordance with '740-03 Painting Galvanized Surfaces”

Page 864 through 867, **Delete 710-25 GUIDE RAIL AND MEDIAN BARRIER STSTEMS (RUSTIC)** in its entirety and **Replace** with the following: “**710-25 Vacant.**”