
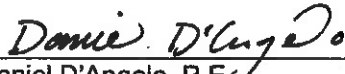


To: <p style="text-align: center;"><b>SUPERSEDED BY</b>  <b>EB 10-021</b>  <b>EFFECTIVE 1/6/11</b></p>		<p style="text-align: center;"><i>New York State Department of Transportation</i>  <b>ENGINEERING INSTRUCTION</b></p>	<p style="text-align: center;"><b>EI</b>  <b>07-026</b></p>
<b>Title: CABLE MEDIAN BARRIER (NEW STANDARD SPECIFICATIONS AND STANDARD ITEMS)</b>			
<b>Distribution:</b> <input checked="" type="checkbox"/> Manufacturers (18) <input type="checkbox"/> Surveyors (33) <input checked="" type="checkbox"/> Local Govt. (31) <input checked="" type="checkbox"/> Consultants (34) <input checked="" type="checkbox"/> Agencies (32) <input checked="" type="checkbox"/> Contractors (39) <input type="checkbox"/> _____ ( )	<b>Approved:</b> <div style="text-align: center;">   <hr/>         Daniel D'Angelo, P.E.          Deputy Chief Engineer, Design       </div> <div style="text-align: right;"> <u>7/10/07</u>          Date       </div>		

**ADMINISTRATIVE INFORMATION:**

- This Engineering Instruction (EI) is effective beginning with projects submitted for the letting of 01/10/08.
- This EI does not supersede any other issuances.
- These revisions will be incorporated into a future update of the Standard Specifications.

**PURPOSE:** The purpose of this EI is to transmit Standard Specifications and Standard Items for cable median barrier.

**TECHNICAL INFORMATION:**

- The changes issued with this EI will enable the Department to meet the new median barrier warrants adopted by the Department in EI 07-023 "Revised Median Width Warrants for Use of Median Barrier".
- This EI complements design information put forth in EI 07-023.
- This EI is being issued concurrently with EB 07-024 "Cable Median Barrier (New Standard Sheets M606-52, M606-53, & M606-54)", which announces the availability of new Standard Sheets entitled "Cable Median Barrier".
- Included in these specification changes are revised construction details for the installation of cable splices.

**IMPLEMENTATION:**

The Main Office Design Quality Assurance Bureau will insert the Standard Specification shelf note into contract proposals beginning with projects submitted for the letting of 01/10/08.

The following contract pay items are approved:

- 606.03 Cable Median Barrier
- 606.0310 Anchorage Units for Cable Median Barrier
- 606.4701 I-Beam Posts for Existing Cable Median Barrier
- 606.5010 Resetting Cable Median Barrier
- 606.5049 Resetting Cable Median Barrier (New Posts)
- 606.6010 Removing and Storing Cable Median Barrier
- 606.7010 Removing and Disposing Cable Median Barrier

The following contract pay items have been renamed:

- 606.48 Retensioning Existing Cable Guide Railing or Median Barrier
- 606.5901 Resetting Anchorage Units for Cable Guide Railing or Median Barrier
- 606.69 Removing and Storing Anchorage Units for Cable Guide Railing or Median Barrier
- 606.79 Removing and Disposing Anchorage Units for Cable Guide Railing or Median Barrier

**TRANSMITTED MATERIALS:** This EI transmits a standard specification shelf note for Section 606 – GUIDE RAILING.

**BACKGROUND:** EI 07-023 “Revised Median Width Warrants For Use Of Median Barrier” issued design guidance that increases the Department’s width warrant for median barrier to fifty feet. The standard specification changes and standard sheets are intended to facilitate meeting the revised width warrant in an operative and cost effective manner.

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

Make the following changes to the Standard Specifications of May 4, 2006:

**Page 498, Section 606-1 Description**, in the list of designated barrier systems *replace* "Cable Guide Railing" with "Cable Guide Railing and Median Barrier."

**Page 499, §606-1.03 Retensioning Existing Cable Guide Railing**. *delete* the entire subsection and replace with the following:

**"606-1.03 Retensioning Existing Cable Guide Railing And Median Barrier**. Under this work the Contractor shall retension existing guide rail and median barrier cables in accordance with the Contract Documents."

**Page 499, Section 606-2 Materials**, in the list of material subsection references *replace* "Cable Guide Railing" with "Cable Guide Railing and Median Barrier."

**Page 503, §606-3.02 Cable Guide Railing**, *delete* the entire subsection and replace with the following:

**"606-3.02 Cable Guide Railing and Median Barrier**. Beginning with the first post where the rail is parallel to the edge of pavement, every sixth post in the line of guide rail shall be reflectorized (30 m spacing for reflectors) except those posts in the approach terminal and intermediate anchorage area, which curve away from the shoulder, or used in a median barrier. The reflector and method of attachment shall be as indicated on the standard sheet.

**A. Anchorage Unit Assemblies**. After the posts are driven to the specified line and grade, anchor angles and anchor posts shall be adjusted in the field to provide a full and even bearing on the underlying surface.

**B. Cable Tensioning**. The Contractor shall install and tension the cable of guide railing and median barrier as follows: Properly seat the spring compensation device and then permanently mark the unloaded position. Complete the assembly of the guide railing and set the compensating devices to a spring compression of 90 mm. Leave the springs at this setting for at least 2 weeks, then set them to the proper setting according to temperature from the data in the table on the standard sheets.

**C. Cable Splicing**. The Contractor shall install cable splices in the following manner: Place a splice end over the cable. Twist the cable to separate the three strands. Insert the wedge into the center of the strands, leaving at least one inch of excess cable, and pull the cable back until the wedge is snug to the splice. Pound the wedge into the splice. Crimp at least one wire of the cable over the wedge. Repeat the procedure for the other cable. Connect the two splice ends together."

CABLE MEDIAN BARRIER

Page 509, §606-3.11 Retensioning Existing Cable Guide Railing., *delete* the entire subsection and *replace* with the following:

“606-3.11 Retensioning Existing Cable Guide Railing and Median Barrier. Cable guide rail and median barrier shall be retensioned in accordance with the cable tensioning requirements of §606-3.02.”

Page 512, §606-4.11 Retensioning Existing Cable Guide Railing., *delete* the entire subsection and *replace* with the following:

“606-4.11 Retensioning Existing Cable Guide Railing and Median Barrier. Quantity measured for payment will be the number of sections retensioned. A section shall consist of the length of cable guide rail or median barrier running between two concrete anchorage units.”

Page 514, §606-5.11 Retensioning Existing Cable Guide Railing., *delete* the entire subsection and *replace* with the following:

“606-5.11 Retensioning Existing Cable Guide Railing and Median Barrier. The unit price bid for retensioning a section of cable guide railing or median barrier shall include the cost of all labor, materials and equipment necessary to complete the work.”

Page 515 through page 520, *insert* the following items in numerical order.

“606.03	Cable Median Barrier	Meter
606.0310	Anchorage Units for Cable Median Barrier	Each
606.4701	I-Beam Posts for Existing Cable Median Barrier	Each
606.5010	Resetting Cable Median Barrier	Meter
606.5049	Resetting Cable Median Barrier (New Posts)	Meter
606.6010	Removing and Storing Cable Median Barrier	Meter
606.7010	Removing and Disposing Cable Median Barrier	Meter”

Page 517 and 518, for the following items listed below *change* the titles as indicated.

“606.48	Retensioning Existing Cable Guide railing or Median Barrier
606.5901	Resetting Anchorage Units for Cable Guide railing or Median Barrier
606.69	Removing and Storing Anchorage Units for Cable Guide railing or Median Barrier
606.79	Removing and Disposing Anchorage Units for Cable Guide railing or Median Barrier”