



HIGHWAY SAFETY CORP
 239 Commerce Street P.O. Box 388 Glastonbury, Connecticut 06033
 860-633-9448 Fax: 860-633-9561 Toll free: 1-800-644-4829

August 9, 2007

Warren Tripp
 Vermont Agency of Transportation

fax: 802-828-3566

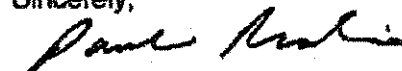
RE: Item 525.15 metal handrailing painted black
 Town of Warren, Vermont
 Washington County
 project # BHF 0188(7)


We would like to request a change in fastening method for the post to rail connection on the above referenced project.

The contract plans call for a stainless steel, self anchoring toggle bolt to be inserted through an oversized field-drilled hole in the bottom face of pipe rails.

- Due to lack of availability of this fastener we propose the following alternate design:
- drill and tap hole in bottom face of pipe rail for 3/8-16 oversize thread.
 - insert 3/8 x 1-1/2 hex bolt (A307 hot dipped galvanized) up through post connection plate and into tapped hole in pipe rail.
 - use large flat washer (F844) and spring lock washer under head of bolt.
 - 3/8 bolt should be snugged to point of engaging positive pressure on lock washer to deter vibration loosening of bolt.
 - tapped holes in pipe shall be cleaned by re-threading after coating application.

The proposed changes will be done at no additional cost to the State of Vermont

Sincerely,

 Paul Radice
 Chief Engineer
 Highway Safety Corporation

RECEIVED
 CK'D BY _____ OK'D BY _____
 AUG 09 2007
 RESUBMIT _____ APPROVED
 BY  DATE 8/9/07

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