



Highway Safety & Design Engineering Instructions (HSDEI)

Distribution: Highway Division, Director of Policy, Planning and Intermodal Development, Chief of Contract Administration, American Council of Engineering Companies of Vermont

Approved: _____
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Highway Safety & Design Program Manager

Date: _____

Subject: Curved Steel Beam Guardrail Details

Administrative Information:

Effective Date: HSDEI 15 – 104 shall be effective from the date of approval.

Superseded HSDEI: Not applicable.

Exceptions: When site specific conditions do not allow installation as detailed.

Disposition of HSDEI Content: The content of HSDEI 15–104 will be incorporated into future revisions of the Standard Drawings.

Purpose:

Throughout Vermont’s highway infrastructure there is commonly a need to install longitudinal barriers at intersections to protect from roadside hazards. While these roadside hazards need to be protected, the longitudinal barrier can also become an obstacle as it becomes blunt as it rounds the corner of an intersection. The details identified below are intended to be used at T-Intersections, when possible, to provide acceptable and consistent barrier installations.

Technical Information:

Detail HSD 621.01 is as detailed in “A Guide to Standardized Highway Barrier Hardware”, published by the American Association of State and Highway Transportation Officials, the Associated General Contractors of America and the American Road and Transportation Builders Association. Detail HSD 621.02 Steel Beam Guardrail Galvanized/8 Foot Radius was developed based on the details of FHWA’s acceptance letter HSSI/B-209 dated November 10, 2010. Details 621.03, 621.04 and 621.05 are detailed based on FHWA’s Technical Advisory T 5040.32, dated April 13, 1992.

Implementation:

The content of HSDEI 15-104 is to be implemented immediately, when applicable, for new Steel Beam Guardrail installations where T-Intersections occur on state highways.

Transmitted Materials:

Highway Safety & Design Details:

- HSD – 621.01 Post and Blockout Details for Steel Beam Guardrail, Galvanized
- HSD – 621.02 Steel Beam Guardrail, Galvanized/8 Foot Radius
- HSD – 621.03 Steel Beam Guardrail, Galvanized/16 Foot Radius
- HSD – 621.04 Steel Beam Guardrail, Galvanized/25 Foot Radius
- HSD – 621.05 Steel Beam Guardrail, Galvanized/32 Foot Radius

The above Highway Safety & Design Details can be found at the link below:

<http://vtransengineering.vermont.gov/bureaus/pdb/hsd/HS%2526D%20Details>