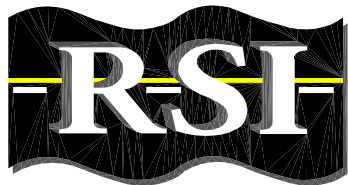


2005

BEAT-MT - Median Terminal



Road Systems Inc.

SEB06

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INTENDED USE

The **BEAT-MT** is a median energy-absorbing terminal that is supported by one steel breakaway end post and four standard 3" x 5.7# (75 x 8.5) I beam weak posts and is used to protect the ends of 8" x 6" (200 x 150) box beam barriers. The BEAT-MT utilizes all 6" x 6" (150 x 150) box beam rail sections in order to use the common BEAT impact head. A connection sleeve is used to join the 6" x 6" (150 x 150) box beam with the standard downstream 8" x 6" (200 x 150) median box beam sections.

During end-on impacts, the vehicle forces the mandrel portion of the BEAT impact head into the end of the box beam section causing the tube to burst. The four walls of the tube are then peeled back. The end tube wall thickness is 1/8" (3mm), which is thinner than the 3/16" (5mm) downstream box beam.

The BEAT-MT is a cable-anchored system. When impacted on the traffic side within the length of need and within design limits, the BEAT-MT contains and redirects the errant vehicle back toward its original travel path. A gusset plate is welded to the end tube section to anchor the downstream end of the cable. The cable is bolted into place for traffic face redirection impacts. The tension in the cable is released for end-on impacts when breakaway post #1 is fractured.

APPROVALS

FHWA approval (CC-69A) February 1, 2002 - BEAT-MT NCHRP 350 Test Level 3

CONTACT INFORMATION

Road Systems, Inc.
3616 Howard County Airport
Big Spring, Texas 79720
Phone 432-263-2435
Fax 432-267-4039
www.roadsystems.com

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