



NOTES:

1. SYSTEM CAN BE INSTALLED WITH GROUND MOUNTED POSTS IN THE SOIL OR SURFACE MOUNTED POSTS WITH ANCHOR BOLTS.
2. CAN BE ATTACHED TO SAFETY SHAPE BARRIER OF VERTICAL WALL.

BEAT - Single Sided Crash Cushion (SSCC)



ROAD SYSTEMS, INC.

SCI13a&b

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INTENDED USE

The BEAT-SSCC (Single Sided Crash Cushion) is an energy-absorbing Crash Cushion that is redirective / gating. It is supported by one steel breakaway end post and seven steel breakaway line posts and attaches directly to bridge abutments, rigid barrier ends and many bridge rails. The BEAT-SSCC is 28-feet (8.5m) long and offers a cost effective alternative for many locations. It is stand-alone system that serves as both a transition and an end treatment.

During end-on impacts, the vehicle forces the mandrel portion of the BEAT-SSCC 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-SSCC is a cable-anchored system. When impacted on the traffic side within the length of need and within design limits, the BEAT-SSCC 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.

There are options for the breakaway posts. The BEAT-SSCC was crash tested to NCHRP Report 350 with both ground-mounted and surface-mounted steel breakaway posts. Surface mounted posts require a reinforced concrete pad. An asphalt pad is not an option.

There are options for the overall length. The BEAT-SSCC may be extended beyond the normal 28-ft (8.5m) length in 4-ft (1.2m) increments to a length of 32-ft, 36-ft, 40-ft, or 44-ft (9.75m, 11.0m, 12.2m, or 13.4m) long.

FHWA ACCEPTANCE

FHWA approval (CC-69B) February 22, 2002 - BEAT-SSCC NCHRP 350 TestLevel3

FHWA approval (CC-69D) July 16, 2004 - BEAT-SSCC with surface mounted posts

FHWA approval (CC-69E) March 11, 2008 - BEAT-SSCC with variable lengths

CONTACT INFORMATION

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