

# STATE OF COLORADO

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DEPARTMENT OF TRANSPORTATION  
Project Development Branch  
Standards & Specifications Unit  
4201 E. Arkansas Avenue, Room 290  
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(303) 757-9474 FAX (303) 757-9820



October 3, 2007

Mr. David A Nicol, P. E.  
Division Administrator  
FHWA Colorado Division  
Attention: Marcee Allen  
12300 West Dakota Avenue, Suite 180  
Lakewood, Colorado 80228

Dear Mr. Nicol:

CDOT hereby requests FHWA concurrence for a Statewide Finding in the Public Interest (FIPI) for two proprietary impact attenuators for permanent installations. This Finding in the Public Interest (FIPI) is in conformance with the rules and procedures outlined in 23 CFR 635.411. CDOT evaluated the use of these two impact attenuator systems to be in the public interest for synchronization and integration with existing highway facilities. The two systems are the QuadGuard and the SCI 100 GM.

CDOT will continue to investigate additional end treatment systems provided by other suppliers for acceptability as permanent installations based on repair experience developed from Colorado highway test installations. CDOT also allows a REACT 350 impact attenuator and Sand Barrels to shield hazards when selected by the Engineer.

CDOT has developed a satisfactory repair experience with the QuadGuard system, and has numerous locations where this product is installed. The QuadGuard system has been previously approved by the FHWA for a provisional statewide FIPI. CDOT has installed another product, the SCI 100 GM impact attenuator, at three locations, westbound I-70 exit to I-225, eastbound I-70 exit to C-470, and westbound I-270 exit to York Street. CDOT had a positive repair experience with the SCI 100 GM when it was recently impacted. SCI Products submitted a two-year in-service evaluation report to the FHWA dated October 28, 2005. The FHWA provided a response to this submittal on Nov. 17, 2005.

Both the QuadGuard and SCI 100 GM are acceptable for permanent installations on CDOT facilities based on installation performance, accident history, and maintenance repair experience. CDOT has used both systems on previous projects and will begin to bid the two systems as equivalent alternates on new projects. CDOT is tracking repair cost and the performance of these two systems.

Please consider this letter certification by CDOT, that the Department has approved the use of only the QuadGuard and SCI 100 GM, until further CDOT evaluation of additional NCHRP 350 approved impact attenuator systems is completed. CDOT finds that the public's best interests are served by allowing competitive bidding of these two systems, QuadGuard and SCI 100 GM, that have proven performance in existing Colorado installations, and CDOT maintenance forces have current repair experience with.

The CDOT Crash Cushion and End Treatment Device Application Chart will be updated as shown on the attached draft. It is available electronically in .pdf format on the CDOT website in the Safety Selection Guide at the following link:

<http://www.dot.state.co.us/DesignSupport/SafetySelection%20Guide/Index.htm>

Please don't hesitate to contact Darrell Dinges at (303)757-9083 or Larry Brinck at (303)757-9474 should you have any concerns, or additional technical information on this item is needed.



Tim Aschenbrener, P. E.  
CDOT Project Development Branch Manager

cc: Marcee Allen - FHWA  
Maintenance Superintendents via Staff Maintenance  
Larry Brinck - Standards & Specifications

attachments:  
CDOT Crash Cushion and End Treatment Device Application Chart  
SCI Two-Year In-Service Evaluation, Nov. 17, 2005  
Extended FIPI for the QuadGuard System, August 1, 2007

FHWA CONCURRENCE  
DATE 10/11/07  
BY Marcee Allen  
for David A. Nicol, P.E.  
Division Administrator  
Colorado Division

Valid for three years:  
October 2007 through  
September 2010.