COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3353-11

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 606.02.06.00

FOR INTERNAL CDOT USE

Material code description full name: Barrier, Cable

PART 1

Product name: CASS TL-3, 4-Cable

Product category: Roadway Safety\Cable Barrier\NCHRP 350 TL-3

Product representative (name & address):
Attn: Don Gripne
Trinity Highway Products
5216 Brassfield Dr.
Olympia, WA 98501
Phone: (360) 943-9559 FAX: (360) 943-9559

Manufacturer (name & address):
Attn: Chuck Norton
Trinity Highway Products
2525 Stemmons Freeway
Dallas, Texas 75207
Phone: (214) 589-8430 FAX: (214) 589-8423

Web-site address: www.highwayguardrail.com

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
The CASS TL-3 is a high tension, 4-cable, barrier system. It uses steel "I" beam posts with a notch in the top to contain the cables, with plastic spacers separating the cables. The cable heights are 21", 23,, 25" and 29 inches. The posts have a maximum spacing of 20'. The maximum deflection is 7'11". The deflection can be reduced by reducing the post spacings. The system can be installed on side slopes as steep as 6:1. The posts can be direct driven, installed in a driven sleeve with a soil plate, or installed in a sleeve in a concrete footing. The system can be terminated with a CASS Cable Terminal, CASS Cable Anchor, connecting to W-Beam or Thrie Beam guardrail, or to a bridge rail.

Restrictions, (installation and/or use):
A TL-3 system that cannot be installed on slopes steeper than 6:1.

Use of the product, (be specific to CDOT highway activities only):
The CASS cable system can be used as a roadside or median barrier.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Provides a median barrier or roadside barrier at less cost than steel or concrete barrier. With the concrete footings and sleeves, the replacement of the post after an impact is simplified and much quicker for the maintenance personnel.

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- [x] CDOT : Standard Specification, Section 606
- [x] ASTM : A449, A325
- [ ] AASHTO :
- [x] FHWA : NCHRP 350 TL-3
- [ ] other :

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- [ ] NTPEP-AASHTO :
- [x] FHWA : Letter of Acceptance per NCHRP 350 TL-3, HSA-10/B-141A (May 2, 2006); HSSD/B-141D (March 19. 2009)
- [ ] other :
- [ ] other :

State DOT Approvals, (current documentation required):
Missouri, Ohio, Oregon

Sample submitted: [ ] yes [x] no [ ] n/a | Materials Safety Data Sheets (MSDS): [ ] yes [x] no [ ] n/a

Notes/Additional Comments