

## Product Evaluation

### RE: Review of SKT 350 Sequential Kinking Terminal

#### **PRODUCT**

The SKT 350 Sequential Kinking Terminal is manufactured by Road Systems Incorporated located in Big Spring, Texas and distributed by Universal Roll Forming Incorporated located in Lindon, Utah, Roadside Supply Ltd located in Sherwood Park, Alberta and ATS Traffic Group located in Edmonton, Alberta.

#### **VENDOR CLAIMS AND INFORMATION**

##### **CLAIMS**

The SKT 350 Sequential Kinking Terminal is an energy absorbing, tangent end terminal, designed to minimize the severity of impacts occurring at the end of the safety barrier system. During head on impacts the SKT 350 head slides over the W-beam guardrail. The rail is sequentially kinked or bent as it moves through the head safely and the vehicle is brought to a controlled stop. Product Web Link: <http://www.roadsystems.com/>

##### **DESCRIPTION**

The SKT 350 Sequential Kinking Terminal is 15.2 meters long and has 8 breakaway posts and is designed for attachment directly to w-beam guardrail. The SKT 350 tangential design allows it to be installed parallel to the roadway reducing the requirement for earthworks and site grading associated with traditional parabolic flared terminal designs. .

##### **POTENTIAL USAGE**

The SKT 350 Sequential Kinking Terminal has been approved as meeting the requirements and guidelines of NCHRP Report 350, Test Level 3 (TL-3) as a redirected, gating end treatment. This system uses all of the same components as the Fleet 350 system, except for the impact head.

##### **STANDARDS**

NCHRP 350 TL-3 Rated – FHWA approved

#### **ALBERTA TRANSPORTATION COMMENTS**

##### **EXPERIENCE**

Alberta Transportation has no experience with this product

##### **APPLICABLE STANDARDS**

The Alberta Transportation specifications for guardrail are:

- Specification 2.19, Guardrail and Guideposts
- Specification 5.25, Supply of Thrie Beam and W-Beam Guardrail and Posts
- Specification 5.27, Supply of Cable Barrier and Metal Posts

##### **RECOMMENDATIONS:**

The The SKT 350 Sequential Kinking Terminal be listed as a Trial Product under Alberta Transportation Products List, Highway Safety Devices – Impact Attenuators – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

#### **TRIAL PROJECTS**

Hwy 10:08, Hwy 585:02  
12 systems on Hwy 40, 30 km S. of Grande Prairie

Joe Filice

cc Innovations Evaluations Group (IEG) – Abid Malik  
Clayton Matwychuk/Richard Chow/Jim Poole/Bill Kenny/Jim Gavin