



**INTERNATIONAL ROAD DYNAMICS INC.**



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**TRUCK SAFETY ADVISORY SYSTEMS**

## **TRUCK ROLLOVER ADVISORY SYSTEM**

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A system designed to reduce the 10,000 truck rollover accidents which occur on exit ramps in the United States every year.



- Roadside electronic message signs warn individual trucks when in danger of rolling over on exit ramps.
- A practical, cost-effective alternative to the high cost of re-constructing under-designed exit ramps and curves.

In-road and off-road sensors determine individual truck speed, weight, height and type. From this real-time data/information the probability of a particular truck rolling over is computed by the IRD Programmable Controller. A warning sign is activated if an unsafe configuration is detected.

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## **DOWNHILL TRUCK SPEED ADVISORY SYSTEM**

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A variable message sign advises individual trucks of a safe descent speed prior to beginning a long downhill grade.



- Reduces serious accidents caused by runaway trucks.

As trucks approach the downhill grade, the IRD Programmable Controller computes individual truck weight and configuration and determines the maximum safe descent speed for that particular truck using FHWA (Federal Highway Administration) guidelines. A variable message sign displays the safe descent speed for individual trucks.

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## **RUNAWAY TRUCK SIGNAL CONTROL SYSTEM**

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Reduces the possibility of disastrous intersection accidents resulting from a runaway truck.

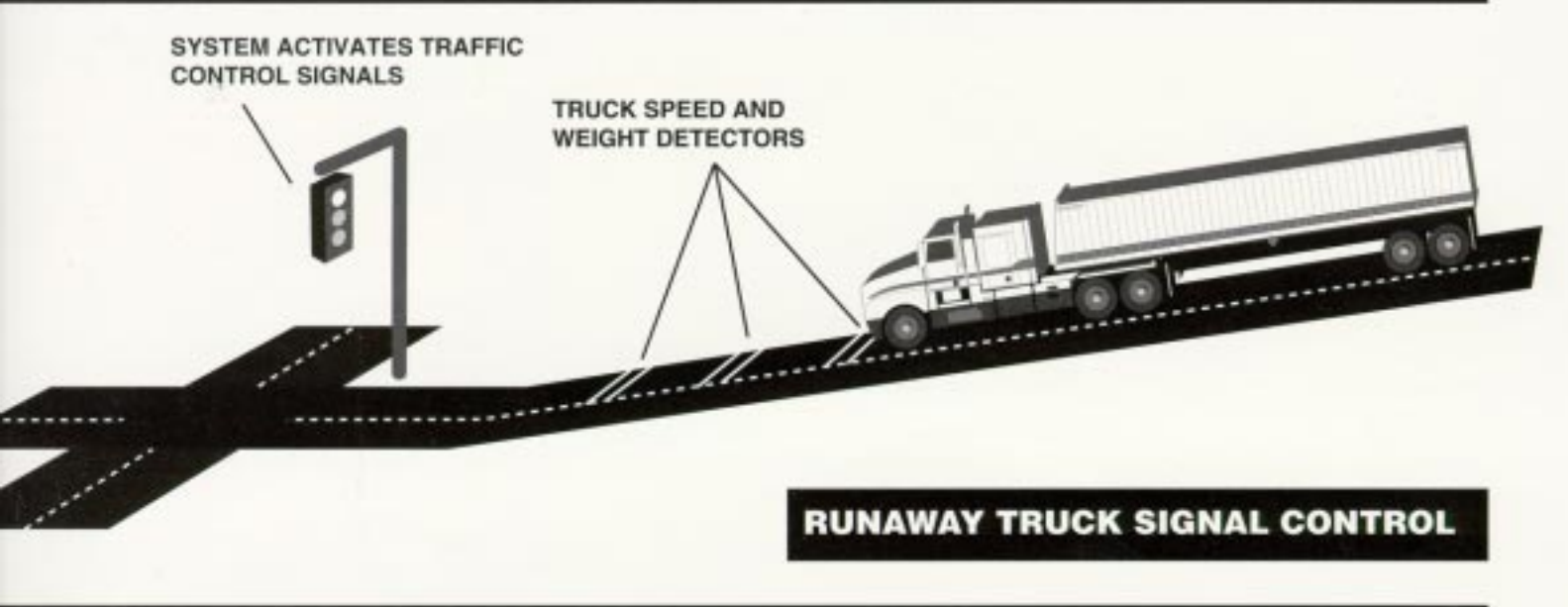
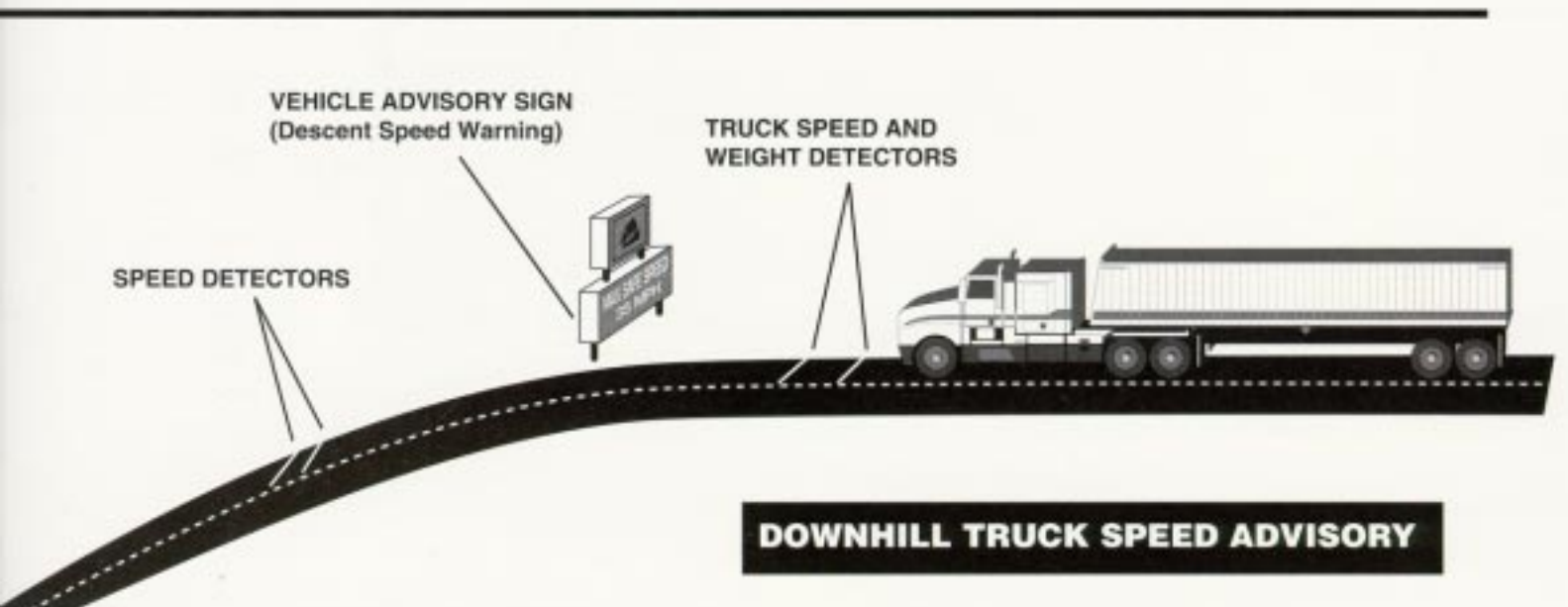


- Monitors the speed of trucks on steep downgrades and provides signal control at traffic lights downstream.

As trucks proceed down the slope, the speed, weight and classification of each individual truck is determined. If the truck is travelling too fast to safely stop at the intersection downstream, a signal will be transmitted from IRD Programmable Controller to the traffic signal lights. The lights will either hold or change to green until the oncoming truck travels through the intersection.

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**INTERNATIONAL  
ROAD DYNAMICS INC.**

**Corporate Offices**

702 43rd Street,  
Saskatoon, Sask.  
Canada S7K 3T9  
Tel: (306)653-6600  
Fax: (306)242-5599

# 305 - 1006 West 104th Avenue  
Northglenn, Colorado  
USA 80234  
Tel: (303)443-0567  
Fax: (303)443-4027

**Local IRD Representative**

IRD products and components are protected by one or more of the following patents:  
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