

# *Exceeding Safety and Quality Standards*

The Lindsay Transportation Advantage



At Lindsay, we're dedicated to improving road safety around the world. As the global population increases, cities must grow safely, efficiently, and responsibly. We're on the leading edge, developing powerful road safety products that protect motorists, improve worker safety, and drive operational efficiency. We're creating groundbreaking technology solutions to safeguard assets, maximize budgets, and optimize performance. And as the pioneer of moveable barrier technology, we are leading innovations with the Road Zipper System™ that saves time, money and countless lives every day.

***Together, we're unlocking the world's potential to move us all forward.***

At Lindsay, our driving force is clear: to make transportation safer, smarter, and more sustainable for communities around the world. As cities grow and mobility demands increase, we are committed to delivering innovative infrastructure solutions that protect lives, improve efficiency and maximize value.

From our pioneering Road Zipper System™ to advanced remote monitoring technologies, every product we develop is designed with purpose—to solve real-world challenges and empower our partners to build safer, more resilient roadways. We're proud to lead the way in moveable barrier technology, crash cushion innovation and intelligent asset management.

Together with our customers, we're not just building infrastructure—we're shaping the future of mobility.



A handwritten signature in black ink that reads "Randy Wood".

**Randy Wood**

President & Chief Executive Officer, Lindsay Corporation

## **THE LINDSAY ADVANTAGE**

### **Lindsay's Infrastructure Division Includes:**

**The Road Zipper System** - helps address traffic congestion and safety challenges on roadways, bridges and tunnels around the world. The Road Zipper™ solution includes MASH and EN 1317 compliant Quickchange™ Moveable Barrier, barrier transfer machines, and application engineering and field services support.

**Road Safety Products** - Global supplier of road safety products meeting MASH, NCHRP 350 and EN 1317 standards

**Technology Products** - Remote road safety product and lighting system management that allows DOTs and contractors to monitor key road and highway assets.





The Road Zipper is the proven, original, seamless solution that provides safety with on-demand mobility, resulting in improved traffic and worker safety, optimized traffic flow, and productive and efficient roadway work zones.



GOLDEN GATE BRIDGE / SAN FRANCISCO, CA  
Reversible Road Zipper managed lane (2.2 mile long)  
operational since 2015.

*"The barrier has been a wildly successful project. It wasn't put in to save money. It wasn't put in to increase efficiency. It was put in to save lives."*

Steve Miller, Bridge Manager  
Source: Marin Independent Journal, 2/29/20



US 131 / GRAND RAPIDS, MI  
Pavement Rehabilitation: Four miles of Road Zipper System

*"Using the Road Zipper, we were able to eliminate an entire construction season and have the project completed in half the time."*

Tanya Pawlukiewicz, Assistant Construction Engineer





# Moveable Barrier Systems

The Road Zipper has been used worldwide since 1984 as a safe, effective and quick solution for increasing roadway throughput during peak congestion periods.

### The Road Zipper System

The Road Zipper System includes the Quickchange Moveable Barriers and the Barrier Transfer Machine, often referred as the “Zipper Truck”.

The barrier transfer machine is used to transfer moveable barriers at top speed of 5-10 mph (8-16 kmph). The barrier is laterally transferred across the roadway to create a managed or reversible lane also known as the “zipper lane”. The zipper lane(s) optimize the roadway capacity to help address traffic congestion and safety concerns especially during peak travel periods.

### QuickChange Moveable Barriers:

These unanchored T-top moveable barriers are pinned together to form a continuous wall maintaining positive protection. The Road Zipper moveable barriers system can be used to reconfigure travel lanes quickly with limited to no worker exposure during setup, use or removal of lane reconfiguration.

Additional benefits include improved travel times and traffic flow leading to reduced engine idling and carbon emissions. Moreover, the Road Zipper System implementation can help increase traffic throughput safely and quickly as compared to roadway expansion or new construction.



The Road Zipper System improves traffic flow, and safeguards work crews and motorists.



The Road Zipper system adds value by adding safety and efficiency on a limited Right-of-Way roadway. Moveable median application to add a 'Bus-Only' managed lane on a busy arterial street.



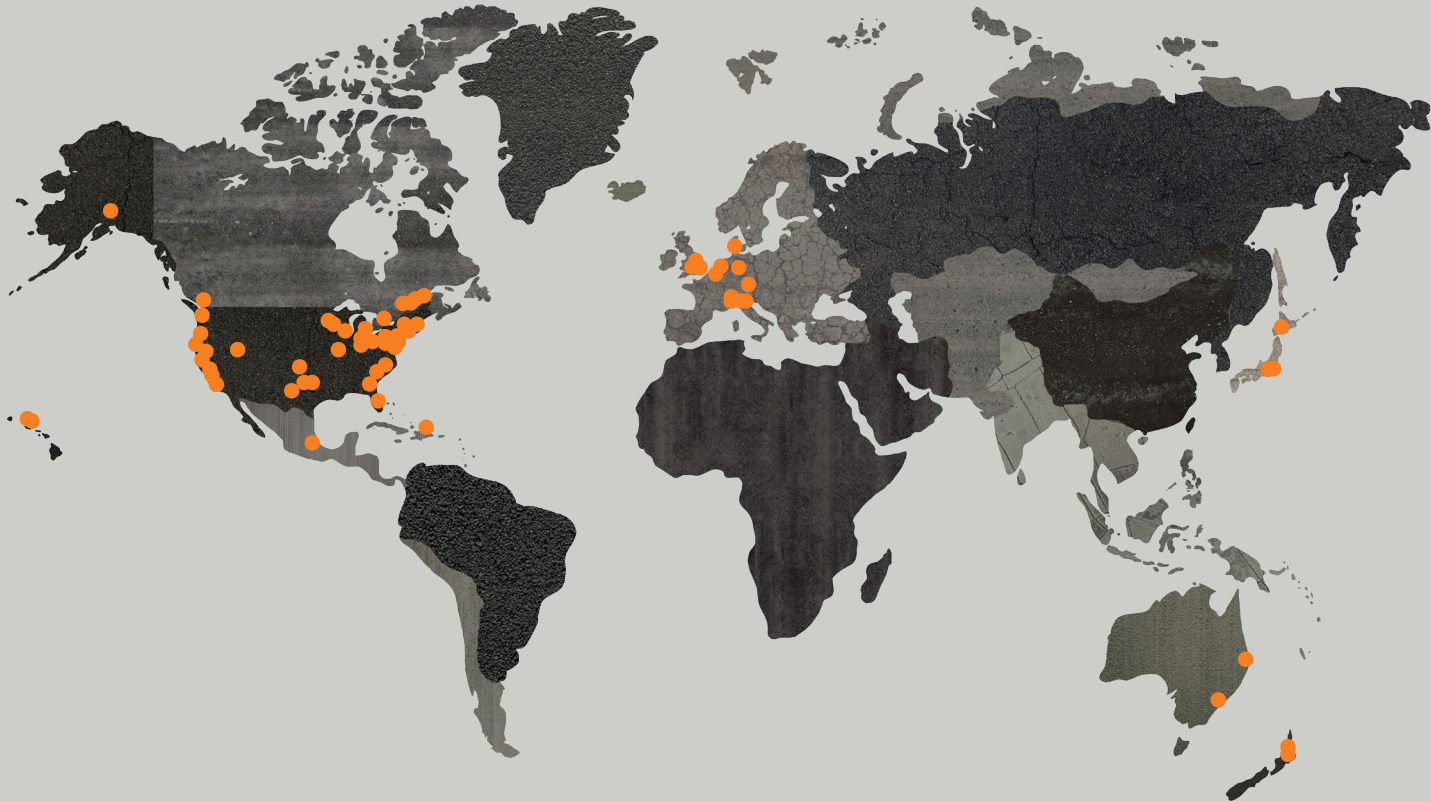
During construction, the Road Zipper system can help with off-peak lane closures or traffic crossovers ensuring positive protection for workers and motorists.

**APPLICATIONS:**  
**Construction zones:** accelerate timelines, helps protect workers.  
**Managed lanes:** dynamically manage traffic flow.  
**Bridges:** safer congestion mitigation in limited space.

**BENEFITS:**

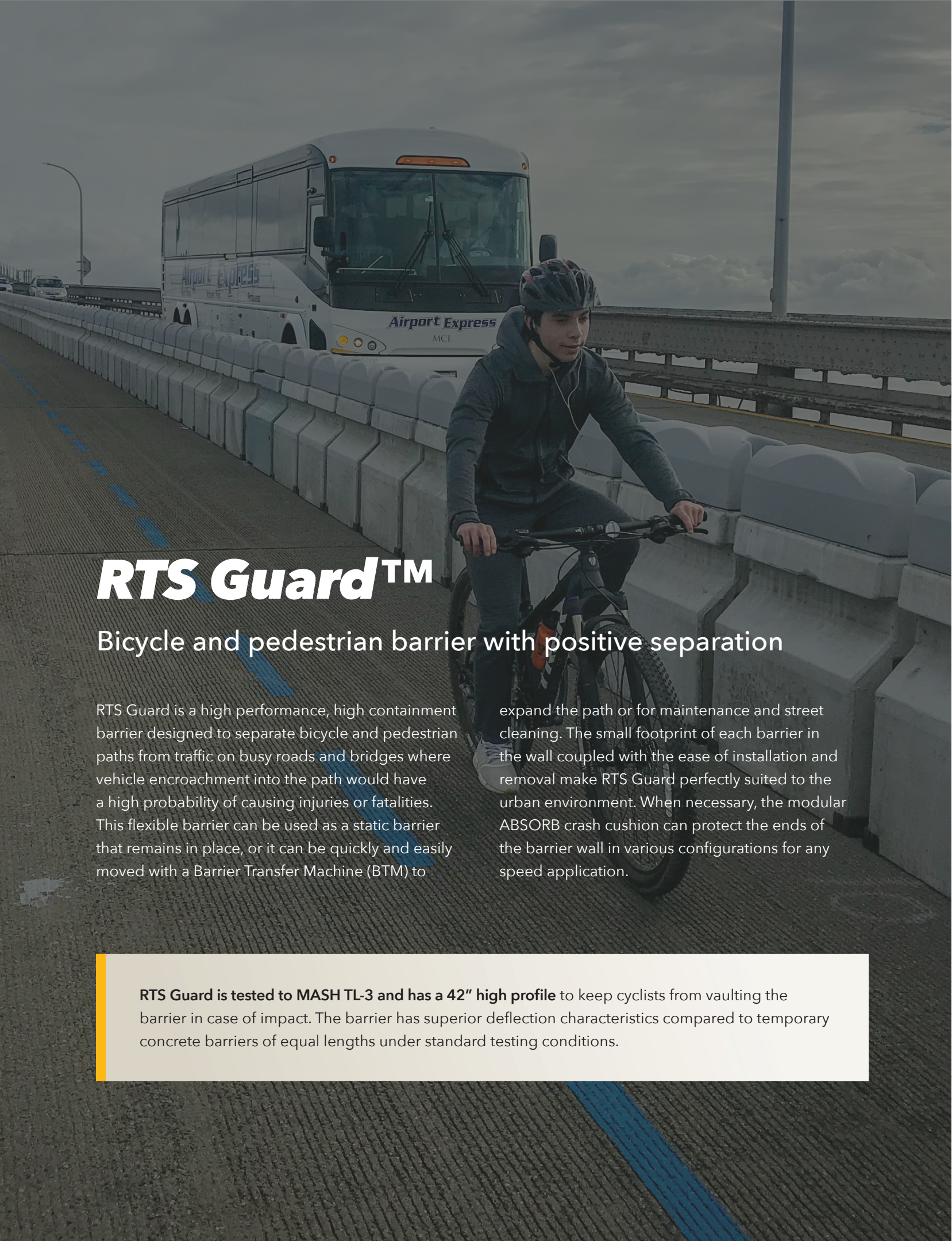
- + Provides positive protection between travel lanes
- + Reduces head-on collisions
- + Improves incident management response times
- + Adapts to changing traffic patterns
- + Operates in various weather conditions
- + Environmentally friendly and reusable

## Installations Around the World



- |                       |                       |               |                   |
|-----------------------|-----------------------|---------------|-------------------|
| + United States (322) | + United Kingdom (11) | + Denmark (1) | + Japan (9)       |
| + Canada (9)          | + Holland (2)         | + Austria (1) | + New Zealand (2) |
| + Mexico (1)          | + Germany (2)         | + Italy (5)   | + Australia (2)   |





**FEATURES**

Separates bicycle and pedestrian paths from major traffic

Uses the modular **ABSORB** crash cushion for end protection  
ABSORB-RZ MASH TESTED

MASH  
« TL-3 »

Tested to MASH TL-3

No ground anchoring required

Can be moved with a Barrier Transfer Machine (BTM)

42"

high profile keeps cyclists from vaulting the barrier

Narrow footprint

Quick and easy to install and remove

Physical Specifications

	RTS Guard Only	With Barrier
Length	35 1/2" (902 mm)	39 3/8" (1000 mm)
Width	11 3/8" (289 mm)	18" (457 mm)
Height	10 3/16" (259 mm)	42 3/16" (812 mm)

RTS Guard is tested to MASH TL-3 and has a 42" high profile to keep cyclists from vaulting the barrier in case of impact. The barrier has superior deflection characteristics compared to temporary concrete barriers of equal lengths under standard testing conditions.





# Road Safety Products

For 20+ years, Lindsay has focused on making roads safer with solutions for:

**Road Safety Products:** Offers innovative products for use on high speed and low speed roads, including a complete range of crash cushions, work zone/permanent gates, TMAs, end terminals and linear barriers.

**Road Marking Tape:** Offers a full line temporary lane management tapes.

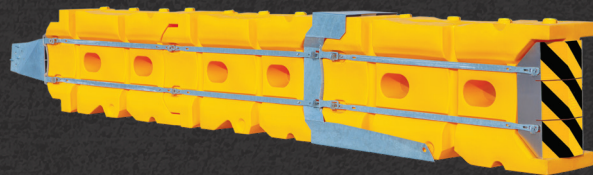


## TAU-XR™ | XPRESS REPAIR CRASH CUSHION

- + MASH tested & meets low-maintenance severe duty requirements
- + Fully redirective, non-gating, bi-directional impact attenuator
- + Designed to be repaired in 30 minutes or less
- + Low cost of repair after impact
- + Ships fully assembled for quick, easy installation

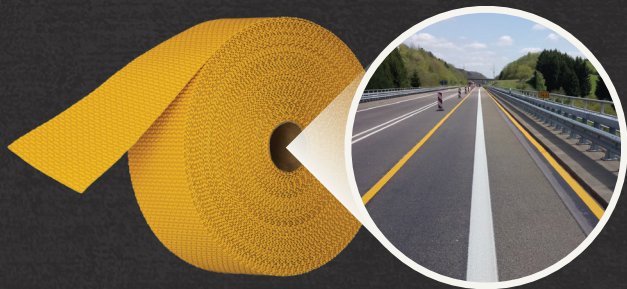
## UNIVERSAL TAU-M™ | REDIRECTIVE, NON-GATING CRASH CUSHION

- + Meets MASH TL-3 and TL-2 testing requirements
- + Minimum number of anchors needed to secure the system
- + Reduced length vs. NCHRP 350 TL-3 system
- + Upgraded slider panels for increased durability
- + Ships as a fully assembled system



## ABSORB-M™ | NON-REDIRECTIVE CRASH CUSHION

- + Shortest MASH TL-3 water-filled crash cushion at 21 feet / 6.4 meters
- + No ground anchoring required
- + Slim 24" / 609.6 mm width ideal for tight work zones
- + Ideal for temporary work zone applications
- + Universal transition for anchored and unanchored barriers
- + Rapid deployment, retrieval and drainage



## PROFILE T14A

TEMPOLINE WR RESILIENT ROAD MARKING SOLUTIONS

- + Excellent removability for long-lasting work zones
- + High visibility in work zones and harsh weather



## TAU TUBE™ | REDIRECTIVE, NON-GATING CRASH CUSHION

- + CE-marked and EN 1317-accepted
- + Telescoping aluminum tube modules absorb crash energy smoothly
- + Redirective, non-gating design reduces secondary-collision risk
- + Widths up to 2.6 m and multiple lengths (from 2-6 m) cover a variety of roadside hazards
- + Ideal for shielding concrete barrier, steel barriers, bridge piers, etc.
- + Simple installation

### SERVICES

- On-site product installation support
- Hands-on product training and technical support
- Application design and testing
- New product design and development
- Technical assessment and engineering feasibility



ROADCONNECT™

# Remote Roadside Asset Monitoring



## KEY FEATURES

- + Remote proactive monitoring of critical roadside assets such as crash cushions, guardrails, end terminals, utility poles and more
- + Improved safety for workers and motorists
- + Real-time alerts
- + Simple, fast non-destructive installation
- + Brand agnostic
- + Rugged, waterproof enclosure
- + 5-year battery life expectancy
- + Built-in cellular modem



Lower the number of physical asset inspections needed by up to

**50%**



Minimize miles traveled for inspection-related tasks by up to

**30%**



Reduce safety risk to your personnel by decreasing physical inspections by up to

**70%**



**The Lindsay Light Guard Pulse™** is a pedestal-based remote monitoring and control system that monitors the operation and integrity of your lighting circuits 24/7.

- + Immediately detect theft and damage when your system is energized
- + Remote control and scheduling reduces energy costs and increases lamp life
- + Gain real insight to improve operational efficiency
- + Pedestal-based installation and cost-effective hardware saves time and money
- + Flexible for use with LED, HPS, and mixed lighting circuits
- + Remote monitoring of bridge pier and communication tower lights



**With ImpactAlert™, you can.** Monitor the status of all the assets in your jurisdiction from one single-source platform, such as:

- + Cable Barrier
- + Guardrails
- + Crash Cushions
- + Bridge Structures
- + End Terminals
- + ...and more!
- + Utility Poles



Road Safety Products Overview

MASH  
« CERTIFIED »



Permanent Crash Cushions:  
TAU-XR™, TAU-M™



Temporary Crash Cushions:  
ABSORB-M™



End Treatments: MAX-Tension™  
TL-3 and TL-2, MAX-Tension Median™

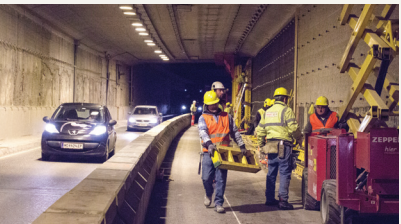
NCHRP  
« APPROVED »



Crash Cushions: ABSORB 350™,  
TAU-II™, TAU-II-R™



Truck-Mounted Attenuators:  
U-MAD™, U-MAD Trailer,  
TMA Light, TTMA Trailer



Moveable Barrier: Quickchange  
Moveable Barrier Concrete  
Reactive Tension System



Temporary Barrier:  
ArmorGuard™ barrier



Gate Systems: ArmorGuard  
Barrier Gate, S-A-B™ Barrier Gate



Specialty Systems: Raptor™,  
DR-46™

EN 1317  
« ACCEPTANCE »



Permanent  
Crash Cushions:  
TAU™, TAU TUBE™



Temporary  
Crash Cushions:  
WALT™



Specialty Systems:  
DR-46

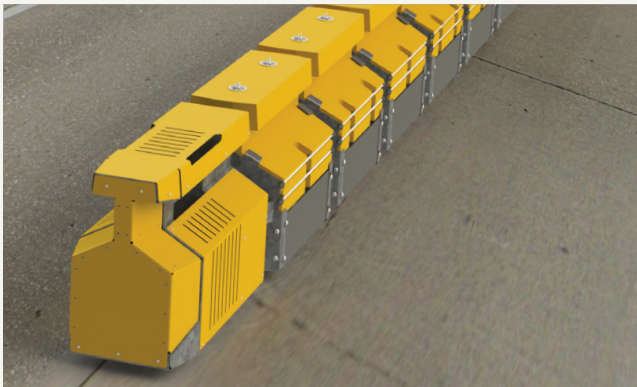


Gate Systems: S-A-B

The Road Zipper System Overview



The Road Zipper Machine: Moves barriers for managed lanes, bridges, and construction.



ABSORB-RZ™: Anchorless water filled crash cushion specifically designed for Road Zipper Barrier Transfer Machines



QuickChange Moveable Barrier: Enables real-time reconfiguration and improved safety.



RTS Guard: A high performance, high containment barrier designed to separate bicycle and pedestrian paths from traffic.





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**LINDSAY.COM**

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