

# TECHNOLOGY PACKAGE

Creating safer work zones through early warning systems, and providing liability protection for companies.

[WWW.ROYALTRUCKANDEQUIPMENT.COM](http://WWW.ROYALTRUCKANDEQUIPMENT.COM)

\* Royal's technology system is an effective traffic notification system designed to amplify existing equipment, and provide greater driver awareness in work zones.



**MOBILE SAFETY SYSTEM** Record and document everything happening in & around your Attenuator Truck. The system can be configured with up to 4 cameras. Each camera is set to record by the triggering of an event such as a crash, TMA deployment, engine start, or vehicle movement.



“ **GREAT SYSTEM FOR TRAINING, AND I HAVE CAPTURED TWO CRASHES ALREADY. I WAS ALSO ABLE TO LOWER MY INSURANCE PREMIUM BY 14%! ”**

- Royal Truck & Equipment Customer

**MINI MESSENGER SYSTEM** A compact changeable message sign that increases driver awareness in the work zone. This system is extremely effective at capturing driver's attention, and updates easily.



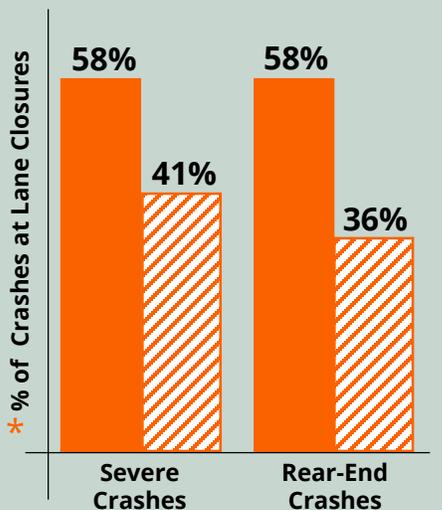
**MOBILE RADAR SYSTEM** An ultra low-power speed measurement and display alert system designed to alert the driver of how many MPH they are driving OVER the work zone's posted speed limit. Coupled with a "SLOW DOWN" sign, this state-of-the-art Doppler radar technology is proven to reduce speed in work zones, and help save lives.



**PROVEN RESULTS\*** Once considered experimental, the use of technology in work zones has grown significantly, and it is now considered a useful tool in increasing safety, **and** saving lives. The intent of these automated real-time technology systems is to improve driver expectancy, reduce driver distraction, and positively influence driving behavior.

TxDOT began working with researchers at the Texas A&M Transportation Institute (TTI) to examine potential technological options to mitigating end-of-queue crashes during nighttime lane closures. 2016 test results were staggering, and proved technology in work zones is important.

EOQ warning systems (radar boards, message boards, and other early warning devices), have been confirmed to reduce crashes in work zones.



Without End-of-Queue (EOQ) Warning System  
Work Zones With EOQ Warning System

\* 2016 Texas Transportation Institute Study on SAFETY EFFECTS OF PORTABLE END-OF-QUEUE WARNING SYSTEM DEPLOYMENTS AT TEXAS WORK ZONES