

**Productivity First-Round Winner**  
Innovations Challenge

**April 2018**

Prepared by Transportation Planning  
Missouri Department of Transportation

## Barricade Trailer Lighting System



### Description

Setting up a barricade in roadway in the dark or inclement weather has always posed a safety hazard because the lighting to do that job was poor or just nonexistent, and trailers were not marked with enough lighting to warn motorists of work locations. To fix this problem, two white spot lights were installed on the trailer to illuminate the back of the trailer and the trailer bed. An amber light was added on top of the trailer to provide better visibility of the operation to motorists. A one inch conduit with proper wiring was installed to a switch on the front of the trailer so the lights are turned on only when needed. Since September of 2016 the Barricade Trailer Lighting System has been used multiple times when needing to close a road due to traffic incident or flooding.

### Benefit

The Trailer Lighting System substantially increases roadwork safety. The lights reflect off of the employee's PPE to make them more visible to the driving public. At nighttime, especially in areas with hills and curves, there is a glow that alerts motorists of roadwork ahead. The illuminating lights also allow employees to work faster so barricades can be assembled quicker to block the road needing closed.

### Materials and Labor

New materials costs of \$215 and 16 hours of staff time.

### For More Information Contact:

Sheila Denmark at [Sheila.Denmark@modot.mo.gov](mailto:Sheila.Denmark@modot.mo.gov) or (417)592-8624. Additional contact: Jeff Drake at [Jeffery.Drake@modot.mo.gov](mailto:Jeffery.Drake@modot.mo.gov) or (417)451-7007

Additional information, photos or videos can be seen by accessing the Innovations Challenge SharePoint page at:

<http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>