

# SMART ARROWBOARD

Ver-Mac has been working with key partners in the industry to develop a Smart Arrow Board to provide key lane closure information to government agencies and the motoring public. Short term lane closures are set up on highways everyday impacting traffic and motorists commute. The Smart Arrow Board will allow government agencies to be proactive instead of reactive to unexpected lane closures.

## SMART ARROWBOARD OBJECTIVES:

- Provide government agencies with arrowboard lane closure information
- Provide record of arrowboard activation and history
- Provide GPS location of all arrowboards in field
- Provide more accurate information about closures to 3rd party data and connected vehicles

## SMART ARROWBOARD APPLICATIONS

- Work zone that has a lane closure with arrowboard
- Utility and maintenance crews
- Rolling lane closures
- Nighttime asphalt paving & bridge closures

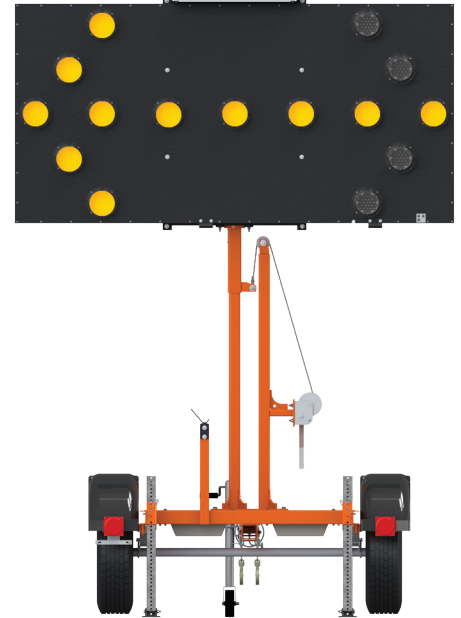
## SMART ARROWBOARD FEATURES

### MINIMUM REQUIREMENT

- Lane closure start location
- GPS location
- Position of the arrow sign (deployed or in transport mode)
- Direction of the Arrow sign
- Mode displayed on Arrow sign

## SMART ARROWBOARD BENEFITS:

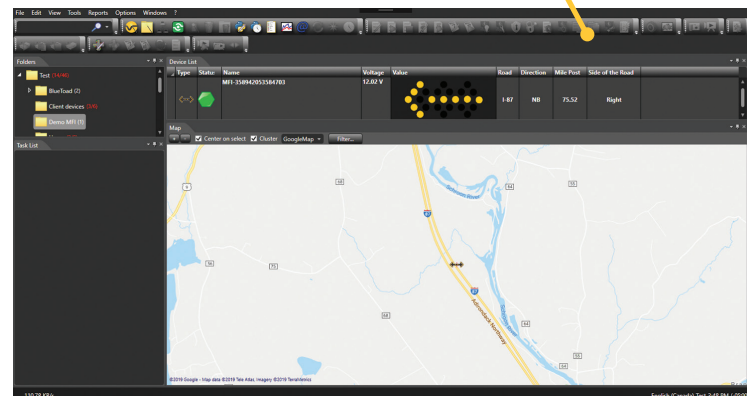
- **IMPROVED SAFETY**  
Government agencies and TMC know where all closures are located to enhance safety
- **ENHANCED MOBILITY**  
Government agencies can proactively manage traffic conditions to the motoring public
- **TRANSPARENT TECHNOLOGY**  
Information can be sent to 3rd party data for enhanced travel information
- **WORK ZONE CLOSURE DATA**  
Government agencies have a history of work zone locations, direction (north/south bound, and duration)



### VER-MAC ADVANCED FEATURES

- Road name where deployed
- Mile marker where deployed
- Direction of the traffic
- Side of the Road where deployed
- Activity log (where, which mode, on/off, deployed)

Voltage	Value	Road	Direction	Mile Post	Side of the Road
12.02 V		I-87	NB	75.52	Right



# WORK ZONE LOCATION SENSORS

Ver-Mac has been working with key partners in the industry to develop a Work Zone Location Sensor System to provide the start and end of every work zone to government agencies and the motoring public. WZLS can be combined with Ver-Mac's Smart Arrow Board.

## WORK ZONE LOCATION SENSOR OBJECTIVES:

- To provide government agencies and TMC's accurate data of where work zones begin and end
- To provide GPS location, roadway name and roadway direction of traffic

## WORK ZONE LOCATION SENSOR APPLICATIONS

- Any work zone, short or long term
- Utility and maintenance crews
- Rolling lane closures
- Nighttime asphalt paving & bridge closures

## WORK ZONE LOCATION SENSOR FEATURES

- Work Zone Start and End Location
- GPS Location
- Road name where the Work Zone Starts and Ends
- Mile marker where the Work Zone Starts and Ends
- Direction of the traffic

## WORK ZONE LOCATION SENSORS BENEFITS:

- **IMPROVED SAFETY**  
Government agencies and TMC know the beginning and end of all work zones
- **ENHANCED MOBILITY**  
Government agencies can proactively manage traffic conditions to the motoring public
- **TRANSPARENT TECHNOLOGY**  
Information can be sent to 3rd party data for enhanced travel information
- **WORK ZONE CLOSURE DATA**  
Government agencies have a history of work zone locations, direction (north/south bound, and duration)
- **SMART ARROWBOARD COMPATIBLE**  
The Smart Arrowboard can be used as the Start of the work zone system or within the system to identify lane closures.

