Turnpike ITS Design Guidance

ITS Device Infrastructure Guidance

Sole Source:

- Coordinate with Turnpike ITS Design for potential sourcing of equipment and submission of Proprietary Product Certification (Form 110) prior to Phase II submittal. Upon District Design Engineer's approval of the Proprietary Product Certification, coordinate with the Turnpike Specification office to develop a Modified Special Provision (MSP) for each sole sourced product.

Dynamic Message Sign (DMS) and Arterial Dynamic Message Signs (ADMS):

- Coordinate with Turnpike Specifications Office to develop a Modified Special Provision (MSP) with the following requirements:
  - For Walk-In (Mainline) DMS provide:
    - 18-inch font
    - Three lines
    - 21 characters per line
    - Full color
    - Full matrix
  - For Front Access (Arterial) ADMS provide:
    - 15 characters per line
    - Three lines
    - Full color
    - Full matrix
- For all types of DMS, provide a ground accessible cabinet to install uninterruptible power supply (UPS) head units and associated battery equipment. Make provisions to include transfer switch, auxiliary power, and generator connection for the cabinet.

Closed-Circuit Television (CCTV) Systems:

- Use IP-addressable, non-pressurized cameras for Incident Management CCTV.

Automatic Vehicle Identification (AVI) Systems:

- Use Vehicle Detection System (VDS)-AVI based on Bluetooth technology for travel time data collection. Design VDS-AVI at each walk-in DMS and every interchange, with a maximum spacing of 3 to 5 miles.

Remote Power Management Unit (RPMU)

- Ensure the RPMU provides a minimum of eight NEMA 5-15R receptacles, nominal 120 VAC.