



**Traffic Engineering**  
**Paving Program Guidance Updates**  
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# Traffic Engineering Participation in Paving Program

## Active Participation with VAA & VDOT Partners

- **Active Participation in Paving Program to address traffic-related issues**
  - **Pavement Markings Policy & Temporary Markings Guidance**
  - **Work Hours Restrictions & Work Zone Safety**
  - **Guardrail Assessment**
  - **Traffic Loops**
  - **MUTCD Guidance**

## VAA-Identified Challenges & Issues

- **Edge Line - Constructability Issues on multi-lane roads**
- **Temporary Marking Pay Item - Safety Impacts**
- **Traffic Loops - Installation Methodology & Specifications**
- **Restrictions on Milled Surfaces & Production impacts**

## Traffic Engineering Participation in Paving Program – Cont'd

### VDOT Actions

- Worked with cross-functional group to resolve issues: Construction S&C, Materials, Maintenance, Districts, Industry, VCTIR
- Added new marking products & Extended Marking Matrix until December 31, 2011 to address paint shortage
- Issued new guidance on Edge Line markings to provide more flexibility
- Approved a Pay Item for Temporary Markings to ensure roads have markings ASAP
- Establishing Consistency in Traffic Loops installation methods & specifications
- Clarifying option for Performance Milling in addition to Regular Milling for efficiency
- Revising Specifications & Special Provisions to improve efficiency: Temporary Pavement Markings, Restoration of Loops, Milling timeframes, etc.

# Type B-Class VI Pavement Marking Tape Edge Lines Guidance

## Pavement Marking Research

- Worked with VCTIR to research safety and cost-effectiveness impacts of pavement marking systems - Markings and Raised Markers.
- Evaluation of best practices of other DOTs.
- On-Going Research of Rumble-Stripes.

## Revised TE Memorandum on Type B-Class VI Tape Guidance

- Revised TE Memo to allow other Durable Materials on Edge Lines.
- Usage of Tape is still encouraged but allow other durable materials to provide flexibility.
- Usage of other Durable Materials - aid implementation of Rumble-Stripes
- Provided materials selection guidance based on: Road class, traffic volumes and remaining pavement life.
- Continue to monitor and adapt guidance as necessary.

## Other Traffic-Related Specification Changes Temporary Markings & Loop Installation

### Temporary Marking Pay Item

- Coordinated with Districts to consider cost impacts
- Approved a Pay Item for Temporary Markings to ensure roads have markings ASAP.
- Require Temporary Markings on Milled Surfaces.

### Traffic Loops Operational Status & Installation Methods

- Coordinated with Districts to consider operational impacts
- Allow up to 96-hours for return to operational status.
- Provide guidance on higher priority routes where loop operational status is necessary sooner than 96 hours.
- Allowed installation options in planed surface or after final surface.

# Statewide Pavement Marking System Management

## Initiatives

- Developing statewide pavement marking **Policy**, balancing
  - *Visibility & Safety*
  - *Durability - Retained Retroreflectivity performance*
  - *Cost-Effectiveness*
  - *Constructability & Productivity Impacts*
- Addressing Temporary Markings challenges –
  - balancing safety, cost-effectiveness, productivity & constructability
- Providing guidance on usage of **Raised Pavement Markers**
- Updating Standards & Specifications

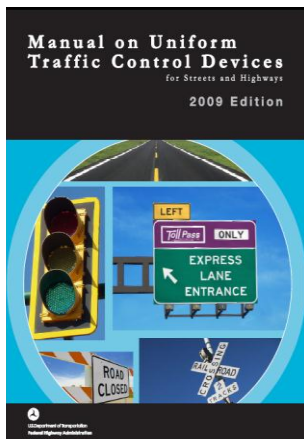


## Status Update

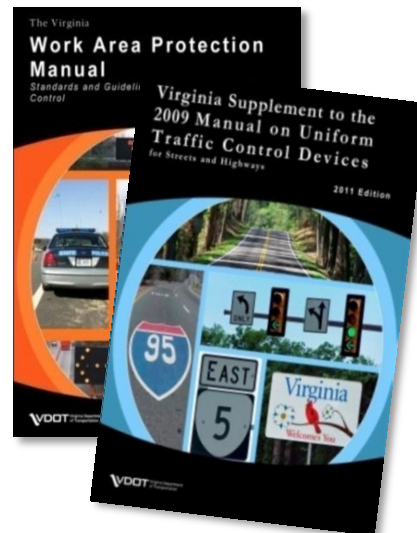
- VCTIR is completing final phases of visibility & durability studies
- Draft – Spring 2012
- Will Engage stakeholders – VDOT, FHWA, Industry
- Open to Innovation & Performance Ideas from Industry

# MUTCD Adoption Status

- CTB Work Shop and Adoption – October 19, 2011
- **Effective Date – January 1, 2012**
  - 2009 National MUTCD
  - 2011 Virginia Supplement
  - 2011 Work Area Protection Manual
- FHWA Proposed Rules – Automatically adopted after FHWA issue Final Rule of proposed changes



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**Virginia  
Guidance  
for  
Traffic  
Control  
Devices**

# Questions



*(As far as we know, photo is public domain)*