



**2015 Fall Asphalt Conference**  
**VDOT 2016 Traffic Engineering**  
**Specification Revisions and**  
**Work Zone Reminders**

**Harry A. Campbell, P. E., Central Office,**  
**Traffic Engineering Division - October 6, 2015**

# 2016 Paving Schedule

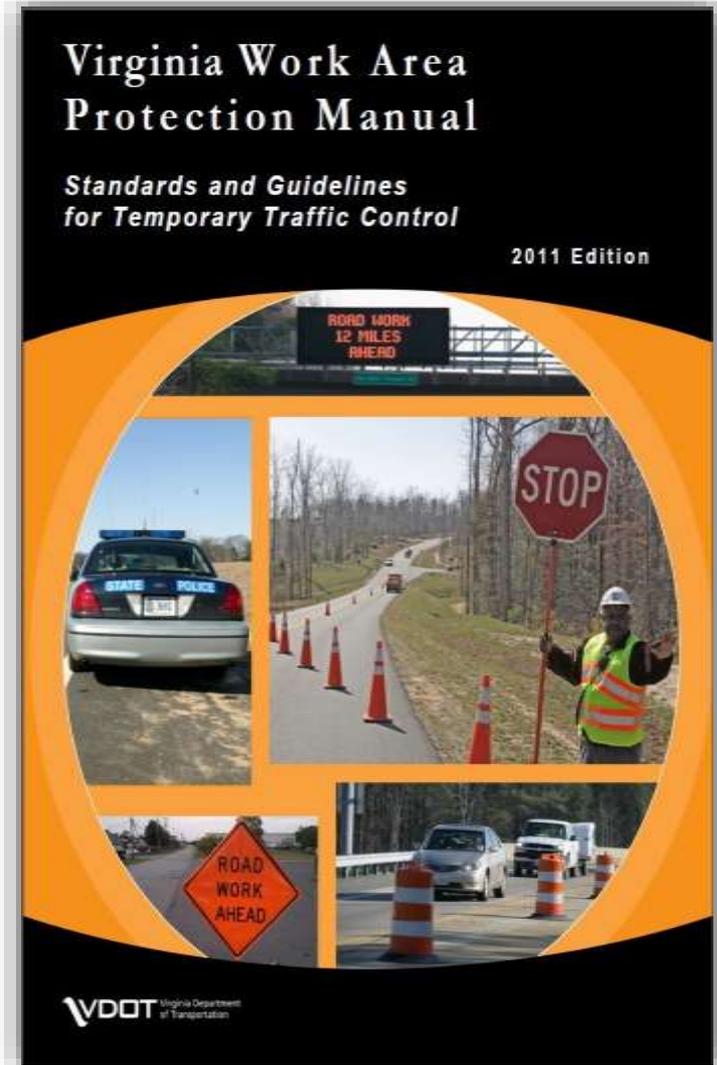
- **Section 512 –  
Maintaining Traffic**
- **Section 704 –  
Pavement Markings &  
Markers**
- **Work Zone  
Reminders**



# 512 – Maintaining Traffic

- Closely Mirrors Section 512 in the new 2016 Road & Bridge Specifications
- WAPM Revision 1 effective April 1, 2015, for VDOT maintenance operations
- WAPM Revision 1 effective July. 1, 2015 for projects bid on or after July 1, 2015
- For more details on the WAPM go to:

<http://www.virginiadot.org/business/trafficeng-WZS.asp>



# Temporary Signs That Require Weights

**±25 lbs. sandbag on each leg or two drum collar weights around the center of the stand:**



# Required July 2014 Temporary Signs



# Temporary Signs No Longer Allowed



# Vehicle Warning Lights and Vehicle Mounted Signs

## Vehicle Warning Lights

- **Day** and night, vehicle warning light **visible 360°** on work vehicles entering and exiting a work zone
- **Seal beams flash rate 75 to 135 flashes per minute**



or

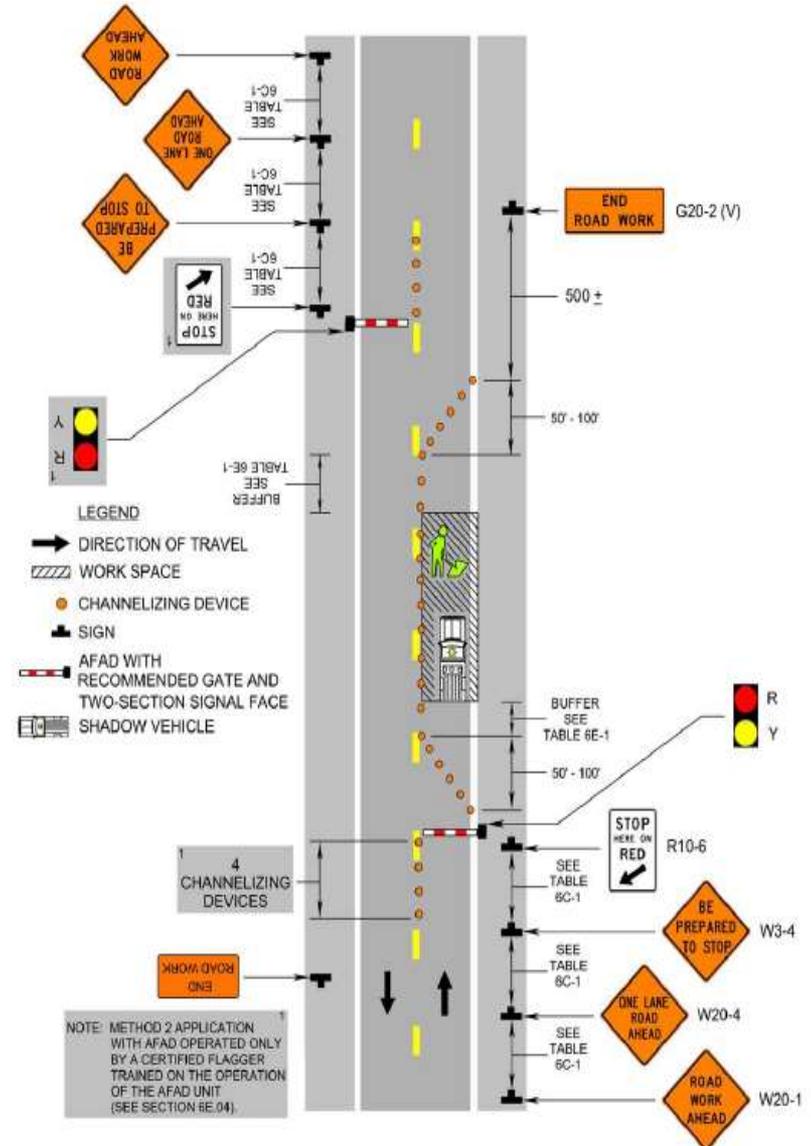


**Required**  
**July 1, 2017**

**Allowed until**  
**July 1, 2017**

## AFAD:

- Operated by 1 or more flaggers
- Cannot be used as a Portable Signal
- Cannot operate on a timed cycle
- If 1 flagger is used; must have an unobstructed line of site of the AFAD and approaching traffic



# Section 704 Special Provisions

## Pavement Markings & Markers

- Reorganized and includes specifics & flexibility
- Not Perfect – BUT BETTER
- Clarification in the 24 – 48 – 72 Hour Rule for temporary lane and center line:
  - Interstates & freeways 55 MPH or greater (before opening the lane to traffic)
  - Non-freeway roads ADT of 10,000 or greater (24 hours)
  - Non-freeway roads ADT 3,000 and 9,999 (48 hours)
  - Non-freeway roads ADT less than 3,000 (72 hours)
  - Surface treatment, slurry and emulsion as soon as the surface has cured enough to hold the markings

# Section 704 Special Provisions

- Provides the Engineer authority to exercise judgment using traffic volume, speed and lanes for non-freeway roads
- VDOT Road & Bridge Standards on-line:
  - Section 1300 Revisions (Location & Design)
- “Other” temporary markings need to be specified in the contract (schedule of routes)
- Milled surface – 15 mils thickness temporary marking
- Intermediate and final surface – 8 to 10 mils temporary marking (thicker permitted)

# Section 704 - Pavement Marking



**Lane lines and centerlines within 250 feet of the stop lines on approaches to signalized intersections with two or more approaching through lanes and 45 mph or greater speed limit, shall be temporarily or permanently marked within 24 hours, unless a time extension is approved by the Engineer .**

# Section 704 - Pavement Marking



**If specified in the Contract Documents, temporary symbol/message markings or edge lines be temporarily or permanently marked within 72 hours after the end of the workday when the corresponding existing markings were obscured, removed, or eradicated on non-freeway roads with 10,000 or greater ADT, and 96 hours on less than 10,000 ADT non-freeway roads.**

# Permanent Markings Installation

- Permanent markings (including symbol/message markings) completed within 30 days after the end of the last workday of continuous paving on that section of roadway except,
- Hydrocarbon thermoplastic markings completed within 45 calendar days
- Surface Treatment (slurry seal and latex emulsion) must fully dry, surface “worn-in” and fully swept before permanent pavement marking is applied:
  - Up to 30 days if Type B Class VI is installed
  - At least 14 days for all other materials

# Permanent Markings Installation

- **Infrared Instrument required to measure molten thermoplastic**



- **Type B, Class VI markings inlaid with a roller in a non-vibratory mode when the asphalt mat is between 100 and 180 degrees (excepting latex emulsion surfaces)**
- **Contrasting marking required on concrete bridge decks greater than 75 feet in length**

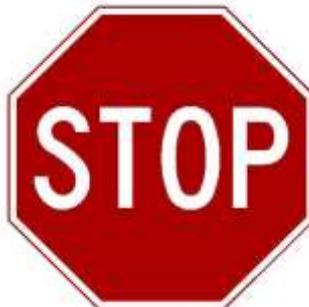
# Work Zone Reminders

## Poor Temporary Signs



# Work Zone Reminders

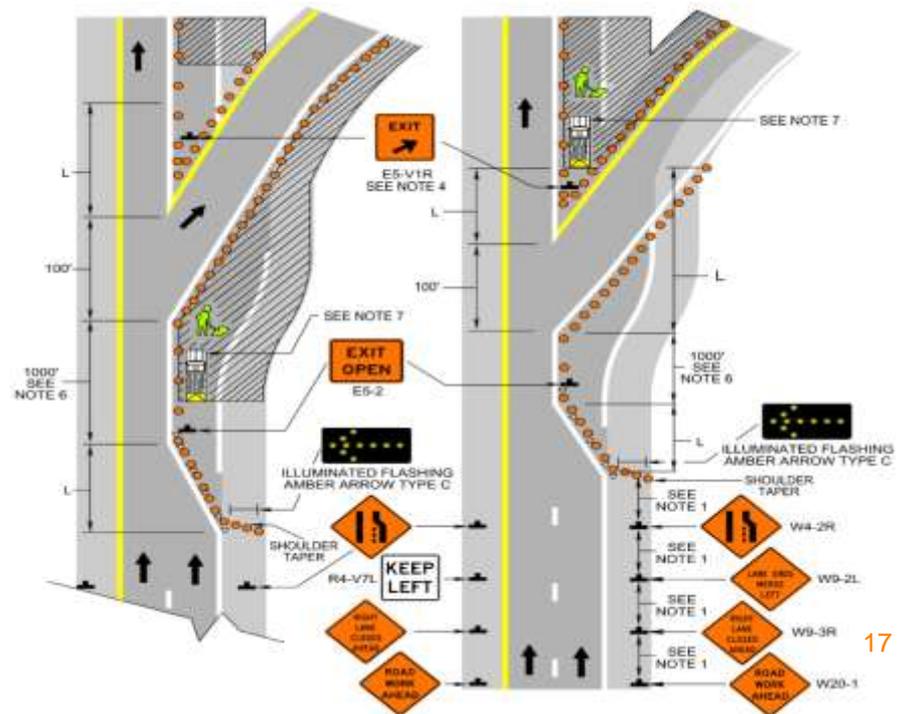
## 7' Mounting Height



# Work Zone Reminders

## Limited Access Ramps

- Misplacement of EXIT OPEN and EXIT w/ Arrow signs
- Inadequate or missing ramp tapers
- Improper guidance is given to the motorist



# Pavement Marking Installation, Inspection and Paving Schedule Quantities

- **Next Steps:**

- **Outreach by Central Office to Area Construction Managers and Inspectors necessary**
- **Outreach to Staff preparing the 2017 Schedule forthcoming**

# QUESTIONS



# QUESTIONS???

## ➤ Markings, Signs, TCD Specifications & Standards:

✓ [Harry.Campbell@VDOT.Virginia.gov](mailto:Harry.Campbell@VDOT.Virginia.gov)

## ➤ Temporary Traffic Control:

✓ [David.Rush@VDOT.Virginia.gov](mailto:David.Rush@VDOT.Virginia.gov)

## ➤ Temporary and Permanent Traffic Signals:

✓ [Don.Robbins@VDOT.Virginia.gov](mailto:Don.Robbins@VDOT.Virginia.gov)

## ➤ ADA Policy:

✓ [William.Duke@VDOT.Virginia.gov](mailto:William.Duke@VDOT.Virginia.gov)

## ➤ Additional Information:

[virginiadot.org/business/trafficeng-default.asp](http://virginiadot.org/business/trafficeng-default.asp)

