



# Work Zone Challenges

**Ken Olsen, CSP, CHST**  
**Slurry Pavers, Inc.**

# Challenges

- Knowledge/interpretation of current regulations
- Worker shortage
- Work zone intrusion
- Situational awareness
- Documentation



# Knowledge of Regulations

- PTRS (Rumble Strips)
  - 2-lane stationary and non-stationary daytime flagging
  - Greater than 3 hours, less than 3 days
  - 35 MPH+ and centerline markings (500+ ADT)
- Gaiters vs class E pants
  - Check [www.virginiadot.org/business/trafficeng-WZS.asp](http://www.virginiadot.org/business/trafficeng-WZS.asp)
  - FAQ document
  - Flaggers in daytime
  - Installing, maintaining and removing day or night





# Worker Shortage

- Severe flagger and labor shortage
  - Automated flagger assistance device (AFAD)
    - Pilot vehicle uses handheld remote
  - Shorten work zone lengths
  - Better flagger training



# Worker Shortage

- Autonomous trucks
  - Self driving TMA
  - Uses leader/follower system
  - Multiple vehicles to follow lead
- Conversion kits for existing fleets



# Work Zone Intrusion

- Extra delineators – cones and drums
- Signage
- PPE
- PTRS
- Intrusion alarm systems
  - SonoBlaster
    - Impact activated air horn
  - Worker alert system
    - Uses trip hose and personal vibration units





# Situational Awareness



**WAIT FOR IT**

.....Wait for it.....



**SITUATIONAL AWARENESS**

Yeah it's important



# Situational Awareness

- S – Stop
  - Engage your mind before your hands. Look at the task at hand.
- L – Look
  - Look at your workplace and find hazards. Report them immediately.
- A – Assess
  - Assess the effects the hazards have on you, the people you work with, equipment, procedures, and environment. Ask yourself if you have the knowledge, training and tools to it safely.
- M – Manage
  - If you feel unsafe, stop working. Tell your supervisor. Managers take responsibility for eliminating hazards.



# Documentation

- Work zone checklist
- Pictures
- Typical applications
- MOT plans
- Ingress and egress
- Notes or diary

Form #TE-97001 **WORK ZONE SAFETY CHECKLIST** URGENT CORRECT IMMEDIATELY ( )  
5 - WORKING DAYS TO CORRECT ( )

TRAFFIC ENGINEERING  
CONSTRUCTION / MAINTENANCE / UTILITY / PERMIT WHEN URGENT IS MARKED  
DENOTE ITEM

RESIDENCY: \_\_\_\_\_ CONTRACTOR / AREA HEADQUARTERS: \_\_\_\_\_  
 CITY / COUNTY: \_\_\_\_\_ PROJ. NO. / PERMIT NO. / LOCATION: \_\_\_\_\_  
 TYPE OF OPERATION: \_\_\_\_\_ DAY / DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 PERSON IN CHARGE: \_\_\_\_\_ POSTED SPEED: \_\_\_\_\_ MPH  
 WEATHER CONDITION: \_\_\_\_\_ DAY OR NIGHT WORK  IN  NOT IN PROGRESS

---

**A. DRIVE THRU:**  
 ARE MANEUVERS DIFFICULT OR UNEXPECTED?  YES  NO  
 ADEQUATE WARNING OF HAZARDS?  YES  NO  
 IS SIGNING CLEAR / UNCLUTTERED AND PROPERLY SPACED?  YES  NO  
 ARE TRAFFIC CONTROL DEVICES SUFFICIENTLY VISIBLE?  YES  NO

**B. SIGNS:**  
 ADEQUATE  INADEQUATE  
 NEED TO BE (REMOVED / REPOSITIONED / COVERED)   
 NEED (CLEANING / REPLACEMENT)   
 CONFLICTING (PERMANENT / TEMPORARY SIGNING)   
 NON-APPROVED SIGN SUPPORT   
 BLOCKED BY VEGETATION

**C. PORTABLE CHANGE-ABLE MESSAGE SIGN:**  
 ADEQUATE  INADEQUATE  
 APPLICATION DOES NOT MEET GUIDELINES   
 INAPPROPRIATE (MESSAGE)   
 TOO MUCH INFORMATION ON P.C.M.S.   
 NOT DELINEATED, NO CONES / BARRELS

**D. ARROW BOARD:**  
 ADEQUATE  INADEQUATE  
 MALFUNCTION (BULB OUT, ETC.)   
 INCORRECT PLACEMENT   
 MISALIGNED BULBS   
 NOT DIMMED AT NIGHT

**E. DRUMS = D / OTHER = O:** D O  
 ADEQUATE  INADEQUATE  
 INAPPROPRIATE TAPER LENGTH  
 SPACING INADEQUATE (TO LONG / TOO SHORT  
 (REPAIR / CLEAN / REPLACEMENT)  
 REFLECTIVE BANDS (DAMAGED / MISSING)  
 ON DRUMS / OTHER DEVICES)  
 ADDITIONAL DEVICES NEEDED  
 MISALIGNED

**F. TRAFFIC BARRIER:**  
 ADEQUATE  INADEQUATE  
 IMPROPER BARRIER WALL FLARE   
 IMPROPER TERMINAL TREATMENT   
 BARRIER NEEDS TO BE (REALIGNED / REMOVED)   
 WARNING LIGHT (SERVICE / CLEAN)   
 DELINEATORS (CLEAN / ADDITIONAL)   
 8' X 12" VERTICAL BARRIER PANELS (CLEAN ADDITIONAL)   
 ATTENUATOR (REPAIR / REPLACE)

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# Questions?

***ANY  
QUESTIONS***

...





Thank you!



Ken Olsen, CSP, CHST  
Safety Director

3617 Nine Mile Road  
Richmond, VA 23223

Direct: 804-716-7928 Cell: 804-393-8422

Main: 804-264-0707 Fax: 800-966-1812

[Ken.Olsen@slurrypavers.com](mailto:Ken.Olsen@slurrypavers.com)