TRAFFIC COUNTER INSTALLATION HAZARDS

- Working in close proximity to traffic
- Some locations require night time installation
- Inadequate advance warning to traveling public
Completed tube counters

TRAFFIC COUNTER INSTALLATION ON OVERHEAD SIGN POLE

What's wrong with this Work Zone?

10-30-2018
TRAFFIC COUNTER INSTALLATION ON OVERHEAD SIGN POLE

Worker was at the site over 16 minutes. Forty six (46) vehicles did not “move over” from the right lane.

Traffic counter installation Hazards
**BASED ON WORK TIME AT THE LOCATION, FOR DOT PROJECTS, A SHORT DURATION WZ WOULD BE APPLICABLE**

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**SHORT DURATION WORK ZONE**

**Short Duration:** Work that occupies a location for up to 1 hour.

**Examples:**
- Placing traffic counters
- Re-lamping traffic signals/ streetlights
- Pot hole Repair
- Minor guiderail repair
- Sign Repair

Due to the short work time, simplified traffic control set-ups are allowed to reduce the hazards of traffic exposure to workers. Careful consideration of traffic and roadway conditions must be given to each work zone prior to selecting the most appropriate traffic control set-up. Shoulder work and work on low speed, low volume roadways may only require a single warning sign, cones, and a flagger, while a high speed, high volume road would require a more detailed lane closure utilizing more safety control devices such as a barrier vehicle, signs, channelizing devices and a flashing arrow panel.
SHORT DURATION: WORK THAT OCCUPIES A LOCATION FOR UP TO 1 HOUR

SHORT DURATION WZ HIGHWAY
SHORT DURATION WZ RURAL OR URBAN HIGHWAY

CAPITAL PROJECTS (CONSTRUCTION) AND DOT MAINTENANCE FORCES
NOTIFICATION OF WORK SCHEDULE TO REGIONAL TMC (TRAFFIC MANAGEMENT CENTER)

- Regional TMC can help with motorist notification by posting messages on Dynamic Message Boards in advance of work areas.

- Work within specified time restrictions (Outside of Peak Hours, “Less Traffic = Less Exposure”)
Proper Work Attire

- **NYSDOT Standard Specification 107-05(A)**
- **High Visibility Apparel (ANSI Class 2)** and
- **Hard Hat required at all times when working within the NYSDOT ROW or Contract Limits, (DAY or NIGHT)**
High Visibility Apparel

Proper Work Attire

- Flaggers must wear ORANGE Protective Hard Hats
- Consider ANSI Class 3 apparel at night (reflective material on sleeves and/or high visibility pants)

When in Doubt:
Look in the garment for the ANSI/ISEA 107-2004 or 2010 label*

- FR garments should include FR standard
- Label to Include: Garment Care Guide

This summary does not represent official, legal, or complete interpretations of the standards. If specific questions arise, the standards themselves should be referred to and studied upon.

*Garmets labeled as ANSI/ISEA 2010 may be used as long as the design is equivalent to ANSI/ISEA 2004 requirements. Consult standards for additional information.

High Visibility Apparel

- Protective helmets used during nighttime operations shall be equipped with reflective tape on all four sides.
**NIGHTTIME CONSTRUCTION CONCERNS**

- Reduced Visibility for drivers and workers
- Higher speeds because of lower volumes
- Impaired drivers (alcohol, drugs and fatigue)
- Distracted Motorists (cell phones, eating, etc.)

**NIGHTTIME CONSTRUCTION SAFETY ILLUMINATED WORK AREAS**

*Again, for DOT Construction/ Maintenance Construction workers, Vehicles and Equipment must be in illuminated areas (Light Plants)*

*Work areas are illuminated for workers to see to work and motorist to see workers*

*Workers, Vehicles and Equipment in dark areas are in imminent danger*
BALLOON LIGHTING (MOBILE OPERATIONS)

• Internal traffic control plan to avoid conflicts between work vehicles and workers on foot

• Requires workers on foot to wear a powered safety vest or hardhat light ring (Halo), and flashlight to navigate their path passing through dark areas

Each piece of equipment is equipped with a balloon light
BALLOON LIGHTING (MOBILE OPERATIONS)

- Provide a sufficient means for visual inspection (balloon mounted pickup truck, golf cart, or tow cart)

PPE Required for Mobile Lighting

**Full Outfit**

- The Gators and Halos help motorists see the workers since the apparel is moving with the worker

- The reflective striping as well as the glow from the Halo are especially helpful to protect employees in dark areas
WORKERS INSTALLING TRAFFIC COUNTERS AT NIGHT MAY WANT TO CONSIDER WEARING HALO LIGHTS

- Illumagear Halo Lights
- Fits with all types of hard hats
- Batteries last up to 10 hours on a full charge depending on the configuration
- Light weight
- Provides working light for employee as well as a visibility for the traveling public
- Multiple light settings

GAITERS HELP IDENTIFY WORKERS

GAITERS
- Above and beyond the NYSDOT Piloted Spec
- Gave An Added Visual for the All workers
- Many Brands
- One Size Fits all
- Come in Mesh and Solid Material
- ANSI Class E Product
IN UNLIT AREAS THE HALO AND GAITERS CLEARLY IDENTIFY WORKERS

MOBILE WORK OPERATIONS UTILIZING BALLOON LIGHTING
Worker Safety POINTS

Situational Awareness
- Don’t become complacent – Keep a cautious eye on traffic
- Make note of where you are working and consider:
  - Facing traffic while walking outside of vehicle
  - Walk along the edge of pavement when not facing approaching traffic

Worker Safety POINTS

Situational Awareness
- Park work vehicle off of paved surface if possible (Beyond the end of guiderail)
- Avoid parking on curves on over hills
- Always use amber revolving lights
- Take phone calls at a safe location
- A short walk to a work area is better than parking in a bad location
- Bottom line – know your surroundings!
Worker Safety POINTS

Situational Awareness

- Mirrors, and loads may extend from trucks over and beyond edge line of lane, concrete barrier and traffic control devices.

BARRIER VEHICLES. WHY DOES DOT REQUIRE THEM IN CONSTRUCTION/MAINTENANCE WORK ZONES?
EVEN WHEN PLACED CORRECTLY, ACCIDENTS OCCUR

THE DRIVER SURVIVED WITH MINOR INJURIES
OPPORTUNITIES FOR IMPROVEMENT OF WORKER SAFETY DURING TRAFFIC COUNTER INSTALLATIONS

- High-vis apparel at all time, Day or Night
- Use of a second vehicle equipped with “Road Work Ahead” for advanced notice to oncoming motorists
- Never Working Alone, use a spotter as necessary
- Use of Halos and Gaiters for Night Work

* Always Consider: “If an accident occurs, can I defend the WZ setup in court?”

QUESTIONS?

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