Temporary Traffic Control Acceptance

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Resource Documents

- SOA 2017-001
  Temporary Traffic Control Certification and Acceptance Procedure Update

- **12SP-105B-01**
  TEMPORARY TRAFFIC CONTROL MATERIALS –
  Use in all trunkline projects. This FUSP is optional for Local Agency Projects.

- MQAP Section 4.10

MQAP – Materials Quality Assurance Procedure Manual

4.10 – Temporary Traffic Control Certification and Acceptance Procedure

4.10.02. General

A. Classification – All temporary traffic control devices are classified based on the FHWA document titled "Information: Identifying Acceptable Highway Safety Features," [HTML, PDF] which established four categories of work zone devices.

1. Category I devices are those lightweight devices which could be self-certified by the vendor.
2. Category II devices are other lightweight devices that need individual crash testing.
3. Category III devices are barriers and other fixed or massive devices that also need crash testing.
4. Category IV devices are trailer mounted lighted signs, arrow panels, etc. These devices are not required to be crash tested.

MQAP – Duties of the Inspector

Materials and Sampling

- Ensure temporary traffic control materials and devices used in the project are inspected
- Correspond to the information in the certification letter provided by the contractor
- Meet the requirements of the Standard Specification for Construction, or associated Special Provisions.
- Verify links within tables are working before accepting the Traffic Control Certification Letter.



MQAP – Acceptance

- **Contractor**
  - Must provide the Engineer with a certification letter in the format of the sample provided. Check the Workzone ProjectWise folder, document titled *Temporary Traffic Control Certification Letter* for the most current version of the letter.
- **Category I Devices**
  - Must be visually inspected to ensure the material and design are in agreement with the self-certification letter provided by the contractor.
  - Upon visual inspection, the device must be in acceptable condition as outlined in the ATSSA Quality Guidelines, and documented in an IDR.



MQAP – Acceptance

- **Category II & III Devices**
  - Must provide a crash test letter
  - Must be visually inspected upon installation to verify they are assembled correctly, in acceptable condition, and documented in an IDR.
  - Documentation to allow modification to the original design must be included with a certification letter. If WZD-100 or WZD-125 are used in their entirely, no additional documentation is required.
- **Category IV Devices**
  - Must meet all requirements set forth in section 812 and 922 of MDOTs Specification for Construction, the MMUTCD Part 6, and any associated Special Provisions.
  - Visual inspection includes conformance with the specifications as well as verification of the condition of the device.

MQAP – Acceptance

- **Device Sheeting**
  - Must meet current MDOT standards as spelled out in the project documents, or in section 812 and 922 of MDOTs Specification for Construction.
  - Must be visually inspected on each device for retroreflective qualities
  - Acceptance must be documented in an IDR.
- **General Material Certification**
  - Documentation is covered as part of the self-certification letter and should be verified with a visual inspection and documented in an IDR.

MQAP – Rejection

- **Temporary Traffic Control Devices and Materials**
  - Must be visually inspected and approved as detailed above before payment may be made.
  - Devices or materials that fail initial inspection must be repaired or replaced, and re-inspected for acceptance before payment will be made.
- **Unacceptable Devices and Materials**
  - Must be rejected. This includes devices that do not meet the requirements listed in the Standard Specifications or the special provisions as well as those included in MMUTCD Part 6.
  - Devices or materials must also be rejected if not in acceptable condition per the ATSSA Quality guidelines (for those devices covered by that document) or at the discretion of the Engineer.



MQAP – Rejection

- **Payment** - will not be made for any devices rejected upon initial inspection; quantities of rejected devices must be noted in the IDR and submitted to the contractor.
- **Device Sheeting** - if rejected due to visual appearance, additional documentation detailing the specifics of the sheeting, such as Manufacturer, ASTM D Code, and a product specification sheet may be requested from the contractor for verification.
- **Material Certification** - if rejected due to visual appearance, additional specifications may be requested from the contractor for verification.

MQAP Certification Letter

11/28/2016

Click Here to Edit Form

Certificate of Crashworthiness

Dear Sir or Madam,

I, [Authorized Representative], hereby certify that [Company Name] has and will provide temporary traffic control material and devices for Contract ID [XXXXX-XXXXXXA], [Project Location Description], that conform to all requirements set forth in section 922 of the MDOT 2012 Standard Specification for Construction, NCHRP 350 Crash Testing Criteria or MASH testing, the Michigan Manual of Uniform Traffic Control Devices, and any special provisions for this project.

Category I Devices (Cones, Barrels, and Delineators):

I, [Authorized Representative], certify that all [Company Name]'s Category I devices (listed below) fall within the acceptable range of FHWA's report dated August, 28 1998, Crash Tested Work Zone Traffic Control Devices; Attachment A, Table 1.1, including maximum mass and maximum height of the devices that were satisfactorily crash tested.

Item Description*	Check if Applicable to Project
Raised Pavement Marker, Temp, Type I, Yellow, Bidirectional	☑
Channelizing Device, 42 inch	☐
High Intensity Light, Type A, B, C, D	☐
Plastic Drum, High Intensity	☑
Sign Cover	☑

MQAP Certification Letter

Category II and Category III devices (Signs, Barricades, and Hardware):

Item Description*	Letter Code**	Letter Date***	Manuf.	Check if Applicable to Project
****Barricade, Type III, High Intensity, Lighted	WZ-331 WZ-292	3/11/2014 4/30/2010	GEBS POCO	☑
Conc Barrier Ending, Temp				☑

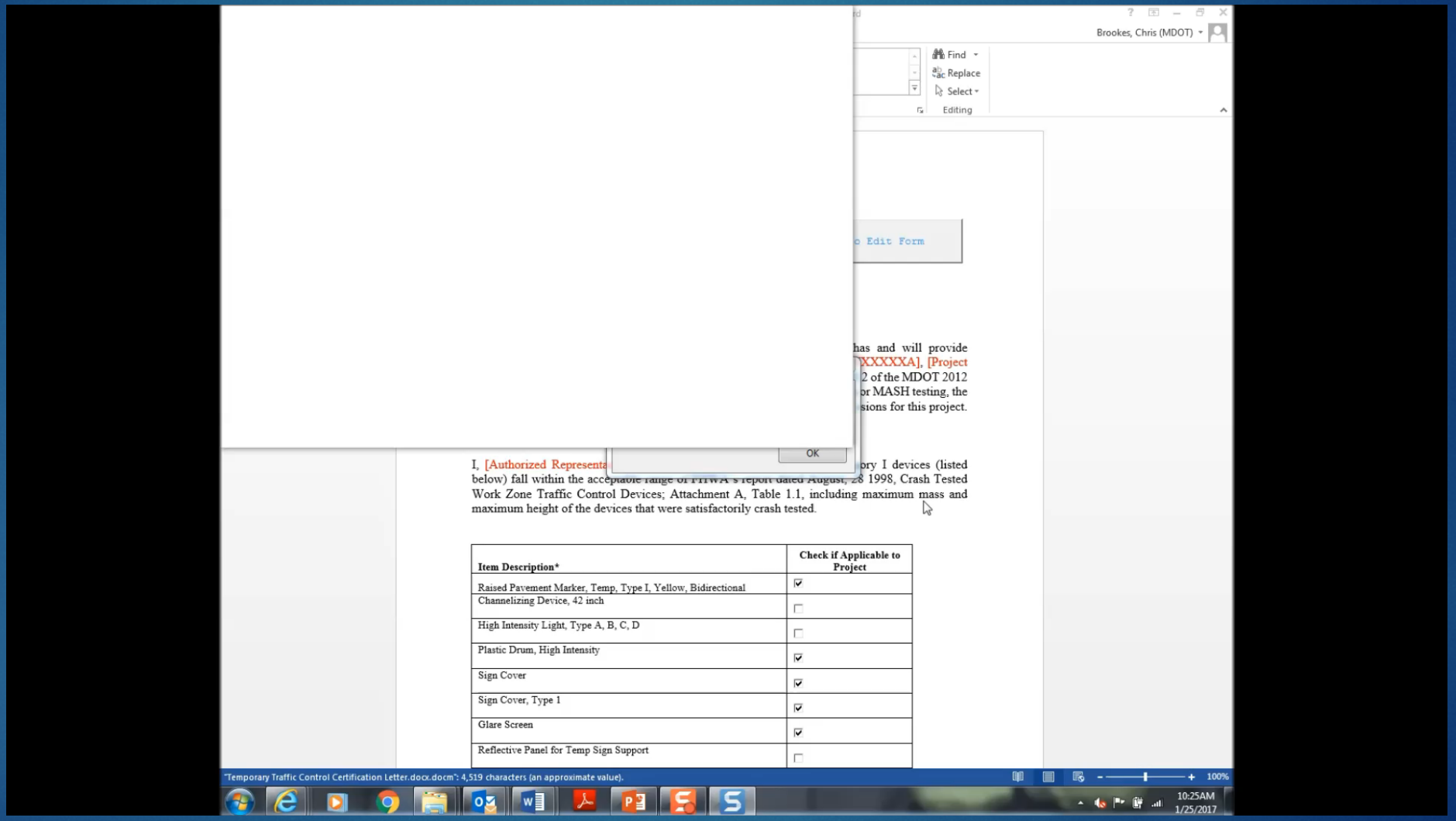
* List must include all devices classified in this category

** Letter Code needs to contain a ProjectWise link to full crash test letter. More than one letter may be required if modifications have been made or if more than one device is used (appropriate links must be provided).

*** Date crash test letter was approved

**** *Sample provided to show format*

MQAP Questions



IDR – Work Zone Items

- Traffic control should be noted nearly everyday
  - Do not add a standard note if you did not review traffic control
- FHWA found MDOT's work zone device documentation to be lacking
- Night time lighting readings
- Traffic control non-compliance
  - Ensure everyone on jobsite knows when the contractor is issued a non-compliance



Drum A-4

Drum A-5 – (blue ribbon should be removed)









Drum A-6









Drum A-7









Drum A-8









Drum A-9









Marginal Drums

- ATSSA QG definition – “The sheeting has numerous tears and scratches; however, it is free of large areas of residue or missing reflective material. The large dent shown reduces the effectiveness of the upper reflective band; however, the drum strength is not reduced. The drum maintains its intended original shape.”
- MDOT – These devices should be marked with blue ribbon.
  - Cleaning of the device can take a marginal drum to an acceptable drum if dirt and grime is removed
  - Nighttime retroreflectivity should be reviewed when reviewing drums

Drums M-1







Drums M-2







Unacceptable Drums

- ATSSA QG definition – “The large areas of missing reflective material on the fractured upper area make this drum unacceptable. Drums with asphalt splatter and/or cement slurry, or any combination of missing and covered reflective material would also make a drum unacceptable. Substantial deformation of a drum which reduces the original dimensions may cause the drum to be considered as unacceptable even if other parameters are still acceptable.”
- MDOT – Damage will be assumed to have occurred from vehicular traffic unless otherwise documented.
  - Before replacement and disposal, allow the Engineer to verify the condition of damaged temporary traffic control devices eligible for payment.
  - Prior to payment the Drum must be spray-painted with an X.
  - 8129000 - Plastic Drum, Damage ..... $35 Each

Drums – U-1









Drums U-2









Drums U-3









42” Channelizing Devices – Acceptable
“Grabber Cones”

- The shape should remain clearly identifiable with no significant distortion and must be free standing in its normal position. The surface is free of punctures and abrasions. The surface is free of asphalt splatter, cement slurry, or other material and will readily respond to washing. The retroreflective bands, if required, have little or no loss of retroreflectivity, with only minor tears and scratches.
- MDOT – This does not require the devices to be new
  - Minor tears and scratches are allowed

42” Devices – A-1









42” Devices – A-2









42” Channelizing Devices – Marginal “Grabber Cones”

- ATSSA QG definition – “The surface has some asphalt splattering or cement slurry and may not be readily cleaned due to abrasion and discoloration. The retroreflective bands, if required, have numerous tears and scratches, but are free of large areas of residue or missing material.”
- MDOT – These devices should be marked with blue ribbon.
  - Cleaning of the device can take a marginal drum to an acceptable drum if dirt and grime is removed
  - Nighttime retroreflectivity should be reviewed when reviewing 42” devices

42” Devices – M-1









42” Devices – M-2







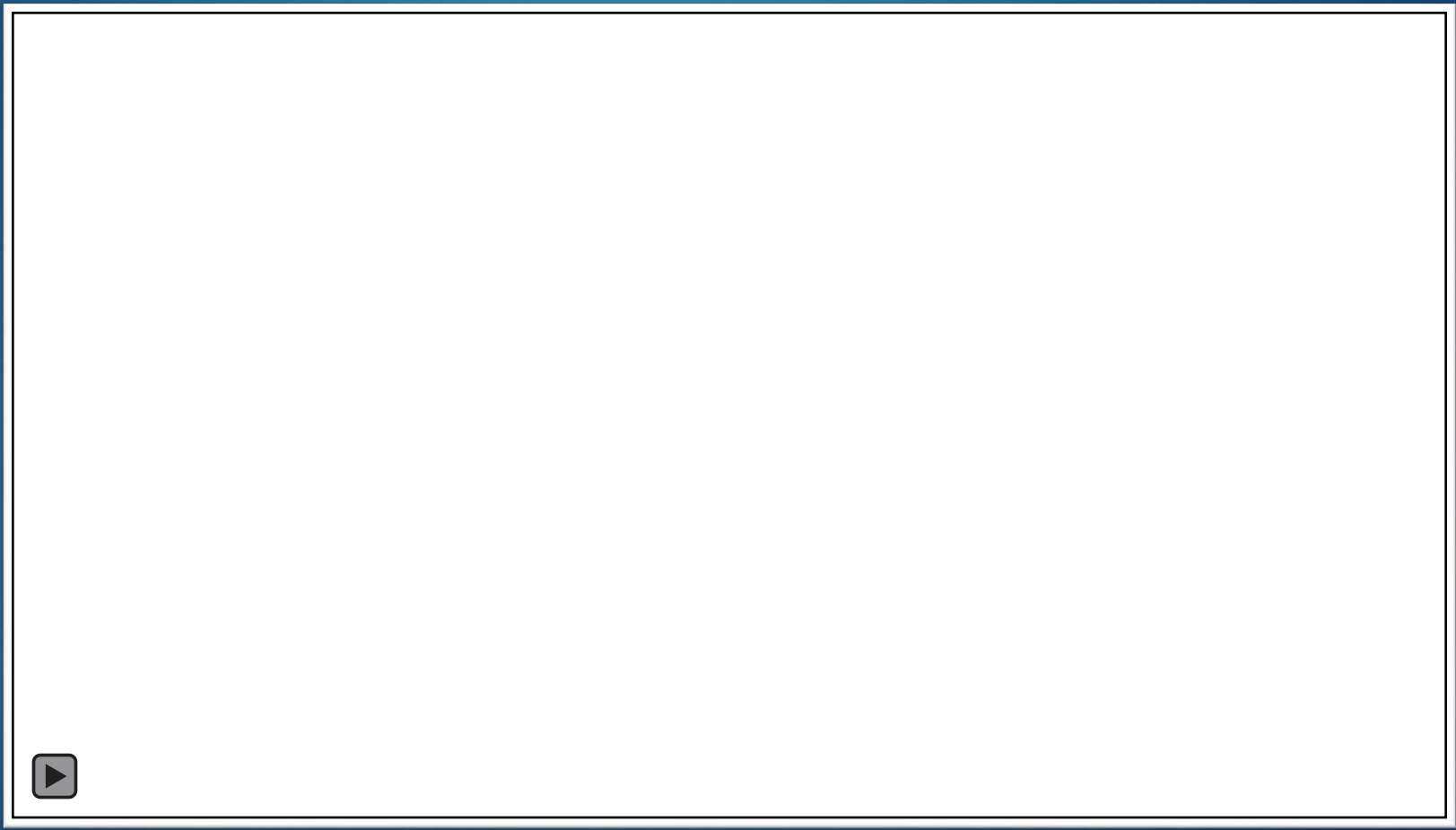


42” Channelizing Devices – Unacceptable

“Grabber Cones”

- ATSSA QG definition – “Punctures and large areas of staining asphalt splatter, and cement slurry make these an unlikely candidate for improvement. Large areas of missing or stained retroreflective material make the channelizer unacceptable..”
- MDOT – Damage will be assumed to have occurred from vehicular traffic unless otherwise documented.
  - Before replacement and disposal, allow the Engineer to verify the condition of damaged temporary traffic control devices eligible for payment.
  - Prior to payment the 42” Device must be spray-painted with an X.
  - 8129001 - Channelizing Device, 42 inch, Damage ……. $18 Each

Entrance ramp upstream of closure



Questions?

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