Contract Administration for Work Zone Safety

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Agenda

- Definitions
- Specifications
- Traffic Control Supervisor (TCS) Requirements
- Inspection of Traffic Control
- Traffic Control Diary
- Crash Testing of Traffic Control Devices



Why is Highway Work Zone Safety Important?

- To ensure a safe environment for workers AND motorists who drive through the work zone on a project, so they can navigate through easily
- To prevent crashes from beginning to end of the highway project under construction



Traffic Control Plan

- Every project must have a <u>Work Zone Traffic</u> <u>Control Plan</u> that details how the project will be made safe for workers and motorists:
 - Traffic control devices signs, barrels, barricades, etc, and specifically how/where/when they will be installed
- No on-site work can start on the project without first having the appropriate traffic control devices in place



Whose job is it to make the Work Zone Safe?

<u>First</u>: It is the responsibility of the *contractor's* <u>Traffic</u> <u>Control Supervisor</u> to ensure that the Traffic Control Plan is implemented

Second: LPA Project Engineer ensures this is being done

<u>Third</u>: LPA Responsible Charge should check to see this is being done

Fourth: LDOTD Project Coordinator also checks to see this is being done



Definitions

Traffic Control Supervisor (TCS) –

- Successful completion of work zone traffic control supervisor course (approved by DOTD)
- Passed a written exam on the above course
- Minimum of 1 year full-time field experience in work zone traffic control

• Traffic Control Technician (TCT) -

- Successful completion of work zone traffic control technician course (approved by DOTD)
- Passed a written exam on the above course



TCS Authorization

- With proof of meeting the above requirements, a Traffic Control Supervisor (TCS) or Traffic Control Technician (TCT) can get their Authorization from LDOTD
- Prior to the start of construction work the contractor shall submit to the LPA PE a copy of the TCS's and TCT's current authorization
 - DOTD coordinator can check our database



Location of Contract Requirements for Work Zones

- DOTD Standard Specification (Blue & Purple Book)
 - Section 713, Temporary Traffic Control
- Traffic Control Management
 - Blue Book Special Provisions Section 713.08
 - Purple Book Section 713.09 TCM



Required Documents

<u>Traffic Control Supervisor (TCS) shall have:</u>

- 1. A set of all current contract documents relating to work zone traffic control and/or traffic staging
- 2. A current copy of the MUTCD (Manual on Uniform Traffic Control Devices): http://mutcd.fhwa.dot.gov/
- 3. A current copy of Louisiana Work Zone Traffic Control Details:

DOTD Internet ~ Inside LaDOTD ~ Engineering ~ Standard Plans/Special Details ~ TTCs (2013 & 2018 Versions)



Traffic Control Supervisor (TCS) Duties

- TCS shall personally provide traffic control management and supervision services at the project site
- TCS may have other assigned duties, but must be readily available at all times to perform TCS duties as required in the contract
- A minimum of one TCS or Traffic Control Technician (TCT) shall be required on site during working hours = someone in charge of work zone traffic control at all times
 - In some cases, TCS required at all times



TCS Duties

- Responsible for the training of flagging personnel
- Ensures that all flagging done on the project is in compliance with the MUTCD and the Louisiana Work Zone Traffic Control Details
- Police OK when used as flaggers, as long as they meet the flagger requirements and are being used ONLY as flaggers (not police)







TCS DUTIES:

- Coordinates all traffic control operations for the duration of the contract
 - Includes subcontractors, utility companies, and suppliers
- Responsible for notifying the LPA PE immediately of vehicular crashes & document in the traffic control diary



TCS Duties

- Responsible for maintenance, cleanliness, replacement, and removal of traffic control devices during working AND non-working hours
- Ensure that workers are wearing proper, reflective safety garments



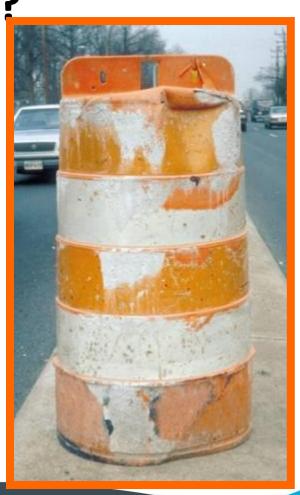
Inspection of Traffic Control

- TCS responsible for the inspection of all traffic control devices every calendar day
 - Inspection may be delegated to the TCT
- The "Quality Guidelines for Work Zone Traffic Control Devices" standards by ATSSA - the tool used to evaluate the condition of the traffic control devices to determine if acceptable for use



Acceptable/Marginal/ Unacceptable??____







Inspection Of Traffic Control

- Traffic Control should be inspected by the TCS on weekends, holidays, or other non-work days at least once per day
- Traffic Control should be inspected by the TCS at least once a week during <u>nighttime periods</u> and the same night after any modifications or changes have been made in the traffic control devices



Traffic Control Diary

- TCS maintains a project traffic control diary in DOTD's Site Manager program (this is like their daily work report)
 - TCS keeps the traffic control diary current on a daily basis, and signs each daily entry
 - Available at all times for inspection by the LPA PE
 - Diary shall be reviewed with the LPA PE on a weekly basis
- Site Manager user ID & password assistance?
 Contact LDOTD's Alan Rusch at 225-379-1592



Traffic Control Diary

- Any and all deficiencies noted in the traffic control diary shall <u>also</u> be noted in the contractor's diaries
- Subject to LA R.S. "Filing or Maintaining False Public Records
- \$150/calendar day stipulated damages
 - Failure to complete daily diary
 - No contemporaneous record keeping should not be written "after the fact"



What should be in a Traffic Control Diary?

Should summarize all the duties of the TCS, including the following items:

- Type of work being performed that day
- Traffic control plan used beginning & ending stations for each
- Traffic Control Devices number of each, correct location?, any missing/damaged?, condition
- Permanent or temporary striping removed or placed from beginning to end station
- Crashes, memos, or change orders



Failure To Comply with Work Zone Safety requirement?

- LPA PE, DOTD Work Zone Engineer, or DOTD Traffic Control Specialist - may suspend <u>all or part of</u> the contractor's operation(s) for failure to comply with the approved "Traffic Control Plan" or failure to correct unsafe traffic conditions within a reasonable period of time
- Notification is given to the contractor either verbal or written – followed up in writing



Failure To Comply?

- Serious deficiencies shall constitute in the contractor's operations being shut down until such time as he can demonstrate that he can meet the specification in its entirety
- DOTD may revoke or de-certify the TCS for gross neglect of his/her duties
 - Must take TCS course again
 - 90 day probationary period at our discretion
 - No TCS = no work, but time still keeps ticking



Eligibility Letters for Temporary Traffic Control Devices – Work Zone letters

- Standard Specifications Section 713.07 (Blue) or 713.08 (Purple)
- Temporary traffic control devices (i.e. barricades) must be crash tested to ensure crashworthiness
- If device passes the crash test (NCHRP 350 & MASH), FHWA will issue an eligibility/reimbursement letter for use of federal-aid projects
- Contractor needs to provide these letters for each device to the LPA PE prior to 1st estimate & before installation of the traffic control devices on the project



Crash Testing

NCHRP 350 – National Cooperative Highway Research Program Report 350:

http://safety.fhwa.dot.gov/roadway dept/policy
 guide/road hardware/nchrp 350/

MASH – Manual for Assessing Safety Hardware – Jan 1, 2011:

http://safety.fhwa.dot.gov/roadway_dept/policy
 guide/road_hardware/nchrp_350/



Public Convenience & Safety Special Provision

When to hire **Law Enforcement Officers** – discussed & agreed to at pre-construction conference:

- Officers must be certified by DOTD Take the training course
- Presence all 3 must exist
 - Multi-lane highway/interstates with posted 50 mph and greater
 - Lane closure
 - PE anticipates a queue (a line of traffic)
- <u>Enforcement</u> safe operation (write tickets)
- <u>Traffic Control</u> detours or diversion
- \$40/hr + \$25/vehicle (max or agency policy) some exceptions (LSP, etc)



Police Location





The Bottom Line for Work Zones

- Take pride in your work zone!
- Have workers wearing appropriate safety garments (not worn or ragged) – they will command more respect from the motoring public
- Establish a work zone that any driver (young or old) can navigate easily
- Work Zone Temporary Traffic Control (TTC) sets the tone for the entire project - if your TTC doesn't look good or isn't correct, motorists won't respect you or the project.



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Questions?