

Memo

New Mexico Department of Transportation

SUBJECT: Infrastructure Design Directive
IDD-2006-05 (Work Zone Traffic Control)

DATE: 13-February-2006

TO: Infrastructure Division
Transportation Design Community

FROM: Steven P. Harris, Chief Engineer
Office of Infrastructure Divisions

FILE REFERENCE:
PSESHARE: Design Directives

The New Mexico Department of Transportation is required to comply with all provisions of 23 CFR Part 630 Subpart J - Work Zone Safety and Mobility by October 12, 2007. Section 630.1006 Work Zone Safety and Mobility Rule states: "Each State shall implement a policy for the systematic consideration and management of work zone impacts on all Federal-aid highway projects. This policy shall address work zone impacts throughout the various stages of the project development and implementation process. This policy may take the form of processes, procedures, and/or guidance, and may vary based on the characteristics and expected work zone impacts of individual projects or classes of projects. The States should institute this policy using a multi-disciplinary team and in partnership with the FHWA. The States are encouraged to implement this policy for non-Federal-aid projects as well." In order to meet the requirements of 23 CFR 630 Subpart J, the NMDOT will need to address current policies and procedures regarding work zone safety and mobility. The NMDOT will address the requirements in 23 CFR Part 630 Subpart J in several phases and in accordance with guidance from FHWA.

The NMDOT Work Zone Safety and Mobility Policy will require State-level processes and procedures that will include Transportation Management Plans on projects. A Transportation Management Plan will always consist of temporary traffic control plans and where necessary, it also consists of transportation operations and public information strategies.

In an effort to begin working towards requirements in the FHWA Rule, the Project Development Engineer ("PDE") will work in coordination with the Traffic Technical Support Section and the District Offices to review and ensure the constructability of all projects and develop a Suggested Sequence of Construction for inclusion in the plans for all projects that are at Final Design and PSE stage commencing immediately. A comprehensive Traffic Control Plan with a Suggested Sequence of Construction will be included in the project plans for all projects that have not reached Final Design as of the date of this directive. The traffic control plans shall comply with the Manual on Uniform Traffic Control Devices ("MUTCD").

The bid item for Traffic Control Management will be included in all future projects. During the development of the Suggested Sequence of Construction and constructability review, a determination will be made on whether to use the bid item for Traffic Control Devices for Construction lump sum or to use individual bid items for each traffic control device. As a rule, the future use of Traffic Control Plan lump sum will be limited to simpler projects (i.e. contract maintenance, overlays, etc.). This will be determined during the constructability review based on the scope of the project and the type of temporary traffic control required for the project. Otherwise, a comprehensive Traffic Control Plan will be required on the majority of projects in

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order to assure that the project is constructible. While the specifications still provide flexibility in allowing the contractor to propose a differing plan, the designed Traffic Control Plan serves as a basis for negotiations based on a sound methodology.

The Construction Traffic Control Plan concept needs to be developed early on in the project development process and in conjunction with determining the alignment and other features of the project. It is very important that a constructability review be conducted early in the project development process to ensure that the project can be constructed while maintaining traffic through the work zone.

The Traffic Technical Support Section will develop and maintain standard traffic control plans sheets in compliance with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD) which will aide or contribute to the development of said Traffic Control Plans.

The following is a list indicating responsibility for each activity to be performed to address traffic handling through the work zone for each phase of the NMDOT Project Development Process:

Prior to Preliminary Field Review	
Responsibility	Activity
PDE/District	Background Information: Project scope/purpose, type of roadway, number of lanes, project location, posted and design speed for the mainline and cross road or ramp
PDE/District	Set horizontal and vertical grade
PDE/Traffic	Develop a Preliminary Sequence of Construction, develop and review cross-sections for the sequence of construction and identify critical locations with the District Office
PDE/District/Traffic	Set horizontal and vertical grades and sequence considering bridge demolition, construction, drainage extensions, etc.
Traffic/District/PDE	Determine work zone lengths, time restrictions for peak traffic flows with District, Construction Liaison Engineer and PDE.

Preliminary Field Review	
Responsibility	Activity
PDE	Plan set includes: Sequence of construction, construction typical sections, earthwork schedule based on phasing, Horizontal and Vertical geometry reflecting final alignment based on sequence of construction
PDE	Obtain comments from design team
PDE	Review constructability of project with Traffic, District (PM & ADE for Construction), Construction Bureau, FHWA to gain consensus on the suggested sequence of construction in order to proceed with the design of the project
PDE	Document results of the constructability review meeting including the sequence of construction.

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Pre-Final Design Inspection	
Responsibility	Activity
PDE	Finalized Suggested Sequence of Construction in the Plans with preliminary phasing Preliminary Layouts – plan sheets developed for each phase showing preliminary construction signing and striping

Final Design Inspection	
Responsibility	Activity
PDE	Finalize the Sequence of Construction
PDE	Prepare final phasing layouts with final construction signing and striping
PDE	Develop plan sheet for each phase of construction
Traffic	Perform a quality control review of the Traffic Control Plan

PSE	
Responsibility	Activity
PDE	Include comments from final design inspection into PS&E plans
Traffic	Perform Quality Control review of construction signing and striping

As a reminder, the Design Directives reside in the PSESHARE drive. General Office staff will utilize the \\asgopinon\pseshare drive to access the Directive. District staff can access the Directive utilizing the appropriate District drive as indicated below:

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District 3 \\d3flsv03\ps&e_section
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