



MnDOT Work Zone Safety & Mobility Policy

- Elements and Current Efforts

Statewide Work Zone Safety Committee
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What we'll answer today...

- Why does the policy exist?
- What are the major elements of the policy?
- What areas of improvement are necessary?
- Next steps...





Why does the Policy exist?

- Short answer –
 - To implement CFR, Title 23 Part 630, Subpart J, *Work Zone Safety and Mobility*
- Longer answer –
 - Feds wanted to encourage all states to improve safety and mobility of work zones by providing standards and guidelines from existing best practices





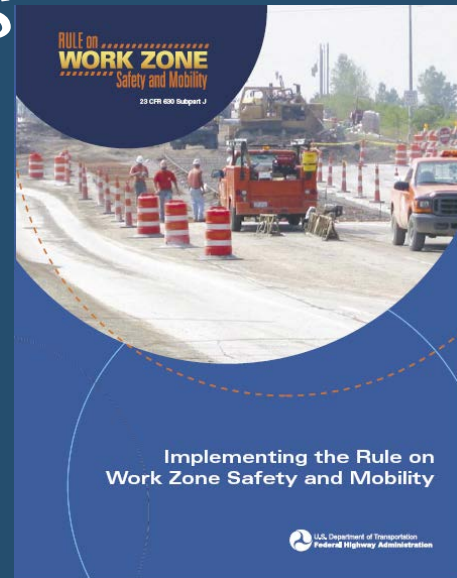
What is Subpart J?

Establishes requirements and provides guidance for:

- Systematically addressing WZ safety and mobility impacts
- Developing strategies to help manage these impacts

Applies to all Federal-aid highway projects

- Published September 2004
- Effective October 2007



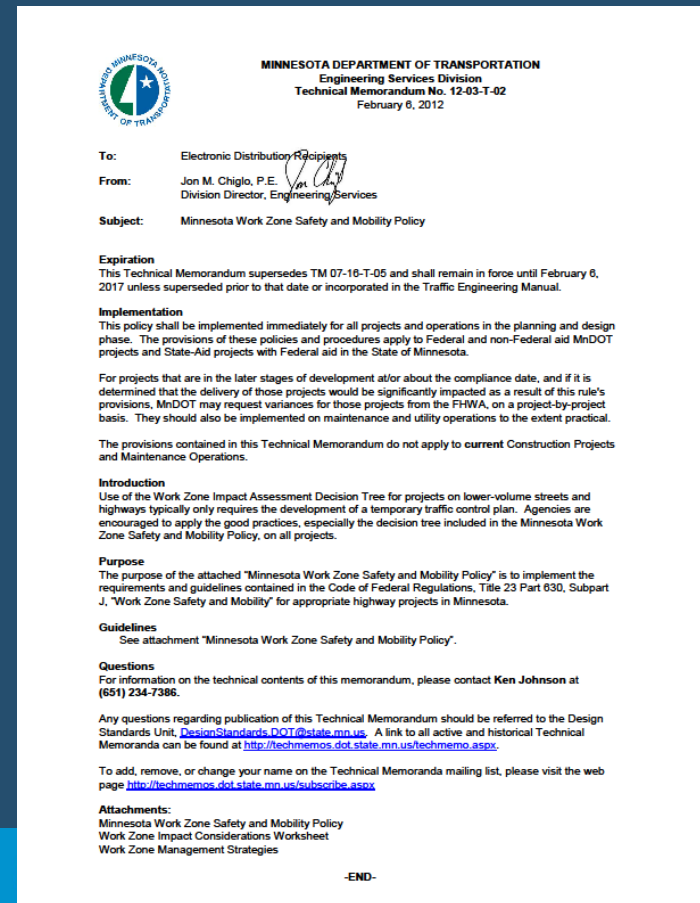


Tech Memos

MnDOT published in 2007 – TM 07-16-T-05:
Minnesota Work Zone Safety and Mobility Policy

MnDOT updated the Tech Memo for 2012
– TM 12-03-T-02

- Reflects personnel and committee changes





Key Concepts

We can be more effective in improving safety and reducing mobility impacts if we:

- Better understand, anticipate, and plan for the impacts
- Do so early in the program delivery process
- Consider solutions that go beyond the immediate vicinity of the project
- Integrate this thinking into all phases/levels
 - Scoping through construction
 - Policy – District – Project





Major Elements of Policy

1. Project Level Procedures
2. District or Local Level Process & Procedures
3. State Level Processes & Procedures



Project Level Procedures

1. Work Zone Mobility Impact Assessment
 - Identify the level of impact of the project
 - Determine the level of Transportation Management Plan
 - From identification of layout in Field Manual
 - To Full Transportation Management Plan



Work Zone Mobility Impact Assessment - Decision Tree

Figure 1.

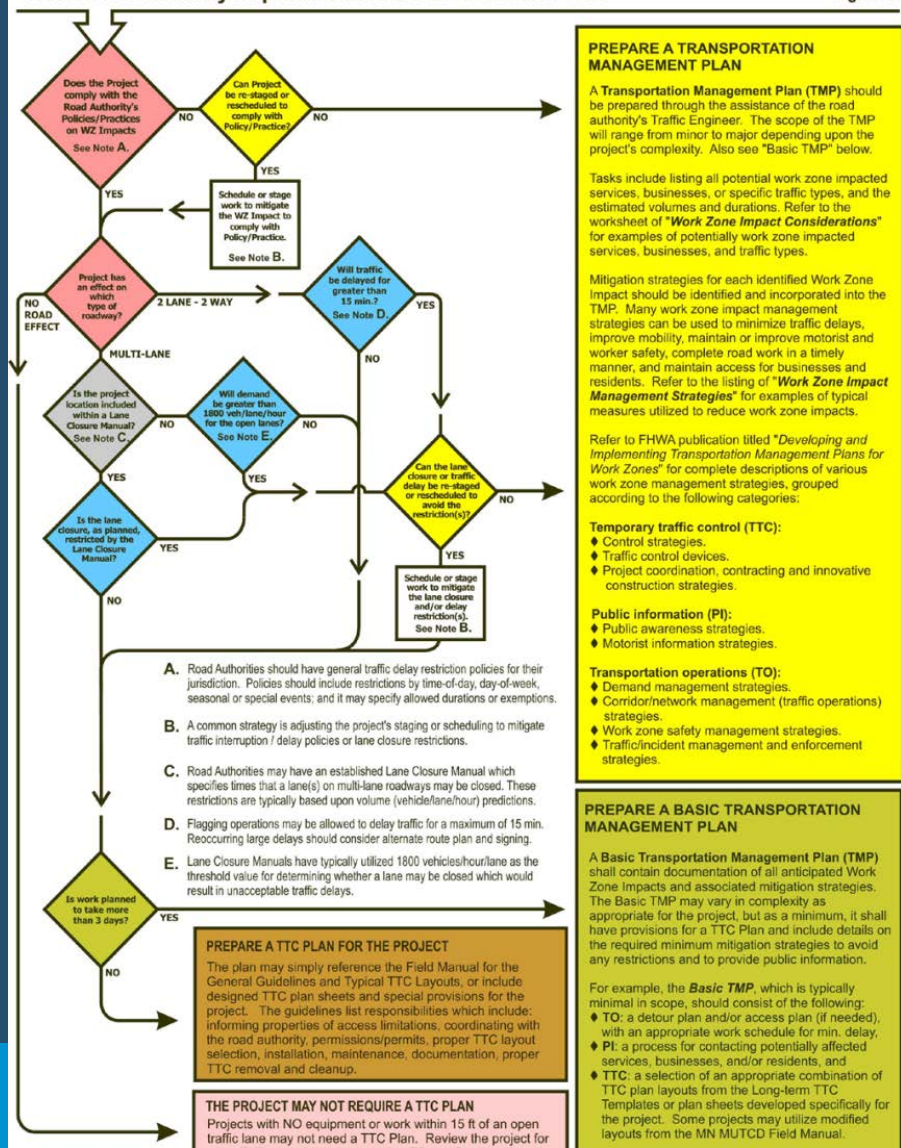


Figure 1.



Project Level Procedures

2. Transportation Management Plans

- Lays out a set of strategies for managing the work zone impacts of a project
 - TTC, TO & PI elements
 - Need to determine impacts (Attachment A)
 - Need to determine mitigations (Attachment B)
- Living document that follows project development and into Construction
- Starts as early as possible (could even be in Scoping)
- Responsible persons need to be identified
 - Road authority & Contractor





Project Level Procedures

2. Plans, Specifications & Estimates
 - Contains appropriate provisions of the TMP

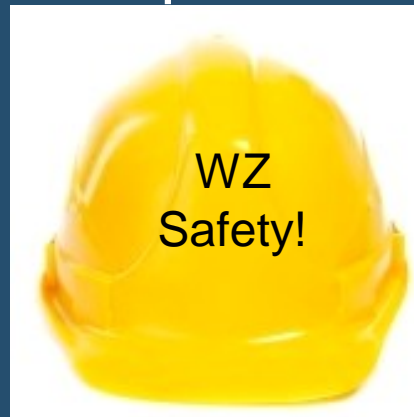
3. TTC Field Observations
 - May require modifications to TMP
 - Documentation critical





District or Local Level Process & Procedures

1. Encourage the establishment of Work Zone Safety Coordinator (or delegate responsibilities to appropriate personnel)
 - a. Make periodic reviews of projects (Constr & Maint)
 - b. Ensure proper documentation is maintained
 - c. Regularly obtain and keep a record of all known crashes in a work zone
 - d. Make recommendations to functional areas regarding TTC
 - e. Assist design & field personnel with TMP & TTC development





District or Local Level Process & Procedures

2. Operational Performance Information

- Incident response time
- Delay time comparison between expected and actual
- Traffic measures (when IWZ data is available)



3. Work Zone Crash Data Review on a District Level

- Review all fatal and life-changing crashes
 - Within project area or approaching?
- Assess possible improvements
- Report deficiencies in current standards and guidelines





State Level (CO) Process & Procedures

1. Statewide Analysis of Work Zone Crash Data (OTST)
2. Statewide TTC Field Reviews (OCIC & OM)
 - Determine adequacy of TTC
 - Identify improvement areas
3. Training in Transportation Management and TTC
 - Provide training to personnel appropriate to job decisions
 - Development, design, implementation, operation, inspection & enforcement
4. Process Feedback Discussion
 - District visits to assess the effectiveness of WZ Safety & Mobility procedures





State Level (CO) Process & Procedures

5. Statewide Group Activities

- Set policies, standards and guidelines
- Direct research and practices
 - Statewide Work Zone Safety Committee
 - Special Provisions Annual Update
 - TEO Temporary Traffic Control Committee
 - Resident Engineers Work Zone Safety Advisory Committee





Questions?

