

SIGNIFICANT PROJECT OUTLINE

(May apply to: TIP, BPOC, DDL, DPOC, DBL, Encroachment, Contract Interstate Maintenance, Interstate Resurfacing, ITS Ops, Garvee Bond)

- D Determine if project is "Significant" using *Significant Project Criteria*

System Planning and Program Development

- D Account for work zone impacts, such as network impacts
- D Consider appropriate project selection, project scope, and project limits
- D Consider funding for traffic management strategies

Preliminary Engineering & Investigation

- D **Identify "Significant" projects/activities** to account for work zone impacts, including:
 - Consider different traffic management strategies along with the prospective duration and choose a default traffic management strategies
 - Coordinate work zone activities within the network to avoid conflicts
 - Consider funding for traffic management strategies
 - Include Public Information (PI), Incident Management, Utility, Rail, Municipality, and Right of Way coordination in planning process
- D Consider developing a project website and project identity (slogan/logo) for Category I Significant Projects to
 - Exchange information and improve accessibility to electronic project files/data for all participants in the delivery process
 - Provide information to the public

Design, PS&E, & Contracting

- D **Develop TMP for all projects/activities** that incorporates:
 - Traffic management strategies determined in planning
 - Innovative traffic management strategies for the construction duration and work zone impacts to meet stakeholder needs
 - Innovative design strategies, contracting techniques, materials, and construction methods
 - Work zone activities within the network to avoid conflicts
 - Public Information (PI) component
 - Incident Management (IM) and IMAP considerations
 - Innovative ideas to minimize and eliminate 3rd party conflict
 - Crash history within the network and consider corrective measures
 - Maximize flexibility to contractor to increase productivity
 - Impacts of geometric design on traffic operations during and after construction
 - Construction and maintenance needs during design, such as, full depth shoulders and adjacent or future projects
 - Adequate access to businesses and residences while balancing the efficiency of the work zone
 - Latest guidelines/policy listed in the Work Zone Traffic Control Manual and the www.ncdot.org/~wztc
 - Effective use of law enforcement strategies
 - Lane closure and holiday restrictions using standardized method (to be developed)
 - Delays or queue lengths(thresholds) based on criteria (to be developed)
 - Utilization of permanent ITS devices/programs in the work zone
- D Conduct value engineering study or during early design development
- D Conduct internal and external constructability reviews

Construction

- D **Implement, monitor and revise (if necessary) TMP strategies**, including:
 - Coordinate work zone activities with PI and IM during construction
 - Monitor and maintain work zone devices
 - Provide proactive and accurate "Real-time" information, using DMS, Smart Work Zones, Welcome Centers, Trucking Association, etc.
 - Provide timely responses to customers
 - Provide the contractor adequate access to the project to expeditiously complete the work
 - Coordinate work zone activities within the network
- D Maintain a project website to provide information to the public
- D Monitor work zones to reduce congestion and maintain safety (to be developed)
- D Conduct investigations where repetitive incidents occur, implement improvements where appropriate
- D Enforce compliance with signing requirements
- D Enforce Work Zone Qualification and Training Requirements
- D Use existing databases, such as TIMS, to collect and disseminate useful information about construction activities

Performance Assessment

- D Evaluate work zone data collected to improve future work zone strategies that reduce congestion and improve safety
- D Solicit feedback and suggestions from field engineers and contractors to improve design policies
- D Solicit feedback from law enforcement, road users, and municipalities
- D Conduct safety inspections/audits as needed to address specific problems that occur