

WORK ZONE COUNCIL



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The Work Zone Council is an umbrella group that oversees all work zone traffic safety issues. The Council's meetings are used to share work zone-related information and gather high-level input and support.

Leads: Deputy Director Transportation Development Division (TDD)
Director Systems Operations Division (SOD)

Co-Chairs: Work Zone Operations Engineer (DB)
Work Zone Traffic Control Engineer (CMB)

Meetings: Quarterly

Membership:

Systems Operations Staff Engineer (SOD)
Bridges and Structures Bureau Director (BSB)
Bridge Engineer (BSB)
Construction and Materials Bureau Director (CMB)
Specifications Engineer (CSB)
Assistant Specifications Engineer (CSB)
Design Bureau Director (DB)
Design Bureau Assistant Director (DB)
Design Methods Section Representative (DB)
Local Systems Bureau Director (LSB)
Local Systems Field Review Technician (LSB)
Local Systems Engineering Technician Senior (LSB)
Maintenance Bureau Director (MB)
Assistant State Maintenance Engineer (MB)
Assistant Maintenance Bureau Director (MB)
Maintenance RWIS Coordinator (MB)
Maintenance Safety Training Program Manager (MB)
Traffic and Safety Bureau Director (TSB)
Traffic and Safety Engineer (TSB)
State Traffic Engineer (TSB)
Traffic Operations Bureau Director (TOB)
State Traffic Operations Engineer (TOB)
ITS Engineer (TOB)
Traffic Incident Manager (TOB)
Traffic Management Center (TOB)
Traffic Management Systems Engineer (TOB)
Information Technology Bureau Director (ITB)
District 1 District Engineer
District 1 Traffic Operations Engineer
District 1 District Construction Engineer
District 1 Garage Operations Assistant
District 1 Grimes Shop
District 2 District Engineer
District 2 Highway Maintenance Supervisor
District 2 District Construction Engineer

District 2 Lansing Bridge Project Engineer
District 2 Highway Mechanic
District 2 Equipment Operator Senior
District 3 District Engineer
District 3 Assistant District Engineer
District 3 Highway Maintenance Supervisor
District 4 District Engineer
District 4 Traffic Operations Engineer
District 4 Highway Maintenance Supervisor
District 4 Highway Technician Associate
District 5 District Engineer
District 5 District Construction Engineer
District 5 Traffic Operations – Traffic Tech
District 5 Maintenance
District 5 Highway Maintenance Supervisor
District 5 Highway Technician Associate
District 6 District Engineer
District 6 Traffic Operations Engineer
District 6 District Maintenance Manager
District 6 Construction Technician Senior
District 6 Highway Maintenance Supervisor
FHWA Safety and Traffic Ops Engineer
FHWA Program Analyst/Ops Specialist
FHWA Program Delivery Team Leader
Iowa State University Associate Director InTrans
Iowa State University Research Engineer
Iowa Chapter of ATSSA
TMC Supervisor
ITS Maintenance Vendor
ATMS Software
Intelligent WZ vendor
Associated General Contractors of Iowa
Asphalt Pavement Association of Iowa
Iowa Concrete Pavement Association

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»» WORK ZONE MANAGEMENT AND TRAFFIC OPERATIONS COMMITTEE

The Work Zone Management and Traffic Operations Committee oversees efforts to implement the TSMO Work Zone Management Service Layer Plan to support the strategic goals of safety, reliability, efficiency, convenience, and coordination, by identifying and implementing strategies that address work zone safety and mobility challenges. Areas of oversight include work zone mobility and safety mitigation, work zone process review, recovery from traffic incidents, intelligent work zones, training, research, and new product and technique evaluation.

The Committee strives to provide safe, reliable, and efficient travel through Iowa's construction and maintenance work zones and by instituting processes that:

- Identify upcoming projects during the planning and design stages that have potential to cause significant safety or mobility impacts.
- Apply various mitigation strategies to address safety and mobility concerns, including quick recovery from traffic incidents or queueing.
- Evaluate mitigation efforts to determine if they are reliable, timely, and effective.
- Develop performance measures that can be used to establish safety goals and travel time delay targets in Iowa and apply performance measures to quantify work zone safety and mobility impacts.
- Meet or exceed FHWA requirements contained in 23 CFR Subpart J - Work Zone Safety and Mobility and 23 CFR Subpart K - Temporary Traffic Control Devices.
- Maintain and update the Work Zone Management Service Layer report on a three-year cycle.

The multi-disciplined approach utilized by the committee provides insight for the development of future work zone management service layer updates and activities and to make recommendations for department policy updates to improve mobility and safety mitigations that enhance construction and maintenance work zone operations on Iowa's roadways.

Chairs: Construction and Materials Bureau Director (CMB)
State Traffic Operations Engineer (TSB)

Meetings: 8 per year

Membership:

Systems Operation Staff Engineer (SOD)
Bridge Engineer (BSB)
Work Zone Operations Engineer (DB)
Specifications Engineer (CSB)
Assistant Specifications Engineer (CSB)
Design Assistant Bureau Director (DB)
Work Zone Traffic Control Engineer (DB)
Maintenance Bureau Director (MB)
Assistant State Maintenance Engineer (MB)
Assistant Maintenance Bureau Director (MB)
Maintenance Safety Training Program Manager (MB)
Traffic and Safety Bureau Director (TSB)
Traffic and Safety Engineer (TSB)
ITS Engineer (TOB)
Traffic Management Systems Engineer (TOB)
District 1 Traffic Operations Engineer
District 2 Highway Maintenance Supervisor
District 3 Assistant District Engineer
District 4 Traffic Operations Engineer
District 5 District Construction Engineer
District 6 Traffic Operations Engineer
District 6 District Maintenance Manager
FHWA Safety and Traffic Operations Engineer
FHWA Program Analyst
InTrans Associate Director
Iowa State University Research Engineer
District 6 Highway Maintenance Supervisor

»» WORK ZONE SAFETY COMMITTEE

The Work Zone Traffic Safety Committee oversees work zone traffic safety issues that affect the traveling public and road workers within temporary traffic control zones. Areas of oversight include design policies, standard road plans, and specifications. This committee recommends updates to details or information required for temporary traffic control in work zones and provides details for the Design Bureau to include in the Design Manual, Standard Road Plans, and/or the Road Design Details. Information provided by this committee aids in plan development, traffic management and operations, staging, and work zone restrictions.

Chairs: Work Zone Traffic Control Engineer (DB)

Meetings: Every 2 months

Membership:

Work Zone Operations Engineer (CMB)
Specifications Engineer (CSB)
Assistant Specifications Engineer (CSB)
Design Methods Section (DB)
Local Systems Field Review Technician (LSB)
Assistant State Maintenance Engineer (MB)
Assistant Maintenance Bureau Director (MB)
State Traffic Engineer (TSB)
State Traffic Operations Engineer (TSB)
District 1 Traffic Operations Engineer
District 3 Highway Maintenance Supervisor
District 5 Traffic Operations Traffic Technician
District 5 Highway Maintenance Supervisor
District 6 Traffic Operations Engineer
FHWA Safety and Traffic Operations Engineer
Iowa Chapter of ATSSA

»» MAINTENANCE WORK ZONE SAFETY SUBCOMMITTEE

This is a subcommittee of the Work Zone Safety Committee. This group provides input from key maintenance personnel and feedback on proposed changes to standards and guidelines proposed by the Work Zone Safety Committee. Most activity is for improvements to standard road plans, so they can be effectively used for maintenance operations. This subcommittee also recommends changes to Maintenance Instructional Memorandums (IMs) related to temporary traffic control, safety, and mobility.

Chairs: Maintenance Assistant Bureau Director (MB)

Meetings: Every 2 months

Membership:

Work Zone Traffic Control Engineer (DB)
Assistant State Maintenance Engineer (MB)
Maintenance Safety Training Program Manager (MB)
District 1 Garage Operations Assistant
District 1 Grimes Shop
District 2 Highway Maintenance Supervisor
District 2 Highway Mechanic
District 2 Equipment Operator Senior
District 3 Highway Maintenance Supervisor
District 4 Highway Maintenance Supervisor
District 4 Highway Technician Associate
District 5 Maintenance
District 5 Highway Maintenance Supervisor
District 5 Highway Technician Associate
District 6 Highway Maintenance Supervisor

»» LANE CLOSURE SYSTEM TEAM

The Lane Closure System Team members provide information, input, and ownership for the development of the Lane Closure System (LCS) software. The team will create, maintain, and improve a real-time lane closure permitting, tracking, mapping, and archiving system. They will work with District, Maintenance, Design, Local Systems, and external personnel to implement and support the Lane Closure System. Informational meetings will be held with functional groups to ensure the LCS meets their needs, supports improving mobility and safety impacts of Iowa road closures, streamlines road closure operation processes, and develops data driven applications using real time roadway information.

Leads: Traffic and Safety Engineer (TSB)
State Traffic Operations Engineer (TOB)

Meetings: As required

Core team: Weekly

Outreach Meetings: As needed in response to project needs and to review future projects

Membership:

Work Zone Operations Engineer (CMB)
Work Zone Traffic Control Engineer (DB)
Assistant State Maintenance Engineer (MB)
Traffic Management Systems Engineer (TOB)
Information Technology Bureau Director (ITB)
District 1 Traffic Operations Engineer
District 4 Traffic Operations Engineer
District 6 Traffic Operations Engineer
Iowa State University Research Engineer

»» INTELLIGENT WORK ZONE TEAM

The Intelligent Work Zone (IWZ) Team is an internal/external group that plans, deploys, and monitors all Intelligent Work Zone (IWZ) projects on DOT roadways. Each year they work with Central Office to develop a list of projects that are expected to cause significant delay or impact to the roadway system. They then work with each District directly to determine their IWZ needs for the coming construction season and create smart work zone layouts for each project based on the temporary traffic control plans. This team then manages, tracks, creates logic, facilitates relocations, recalibrations, and finally removal for all IWZ systems throughout the state of Iowa. The team holds an annual season kick-off meeting in the Spring that highlights the activities and IWZ projects for the upcoming year. They hold weekly teleconferences to discuss current and upcoming IWZ projects and resolve any issues related to the operation of these systems. At the end of the construction season a workshop is held to review the past construction season and to develop a set of recommendations to improve the IWZ program for the year ahead.

Lead: ITS Engineer (TOB)

Meetings: Weekly teleconference, plus Season Begin and Season End meetings

Membership:

State Traffic Operations Engineer (TOB)
Traffic Incident Manager (TOB)
Traffic Management Center (TOB)
Iowa State University Research Engineer
Traffic Management Center Supervisor
ITS Maintenance Vendor
ATMS Software Provider
Intelligent Work Zone Vendor
SRF Analyst III

»» WORK ZONE MITIGATION TEAM

The Work Zone Mitigation Team members are technical experts that act as a resource for traffic mobility and safety mitigations employed by the Iowa DOT. The committee:

- Assists designers with identification and selection of methods to ease mobility and safety impacts during construction.
- Assists with development of full TMP plans.
- Conducts periodic reviews to ensure work zone mobility and safety goals are being met.
- Recommends thresholds and performance criteria for Traffic Critical Projects (TCP).
- Reviews concept letters for TCP to ensure proper mitigations are considered.

The team also develops processes and tools that facilitate selection and evaluation of mobility and safety mitigation methods.

Lead: Traffic and Safety Engineer (TSB)

Meetings: As needed throughout the year

Membership:

Work Zone Operations Engineer (CMB)
Design Assistant Bureau Director (DB)
Work Zone Traffic Control Engineer (DB)
State Traffic Operations Engineer (TOB)
ITS Engineer (TOB)

»» WORK ZONE TRAINING TEAM

The Work Zone Training Team fulfills the FHWA's requirement that the Department conduct training for personnel involved in the development, design, implementation, operation, inspection, and enforcement of work zone traffic management. Periodic training updates are conducted that reflect current industry practice and State processes and procedures. Participants include workers from DOT construction and maintenance, public and private utility companies, cities, counties, and private contractors.

Lead: Work Zone Traffic Control Engineer (DB)
Work Zone Operations Engineer (CMB)
Maintenance Bureau Assistant Director (MB)

Meetings: Trainings held in winter annually

Membership:

Assistant State Maintenance Engineer (MB)

»» LANE CLOSURE PLANNING TOOL TEAM

The Lane Closure Planning Tool (LCPT) Team members are technical experts that:

- Develop the LCPT.
- Maintains functions of the LCPT.
- Reviews data sources used to include ITS sensors and ATM sensors.
- Reviews and determines which sensor data is accurate and available for inclusion in the LCPT.
- Monitors the effectiveness to ensure LCPT meets the needs of design and field operations.

The team also determines the acceptable capacity levels for various roadways that are used by the LCPT.

Lead: Traffic and Safety Engineer (TSB)

Meetings: Every other Week

Membership:

Iowa State University Research Engineer

»» WORK ZONE PROCESS REVIEW TEAM

The joint FHWA and Iowa DOT Work Zone Safety and Mobility Process Review Team fulfills federal requirements by examining Iowa's progress implementing rules related to work zone safety and mobility, as well as identifying best practices and areas that need improvement for the safety and efficiency of Iowa work zones for motorists, workers, and pedestrians. Reviews include:

- Inspections of randomly selected projects throughout Iowa,
- Assessment of procedures for specifications, standards, and evaluation of work zone data at the state level by utilizing a Business Process Review, and
- Utilization of a Capacity Maturity Framework workshop to improve the performance of the six work zone dimensions.

Results of these reviews are used to further develop future work zone standards and processes.

Leads: Work Zone Traffic Control Engineer (DB)
Work Zone Operations Engineer (CMB)

Meetings: Every 6 months

Membership:

Local Systems Field Review Technician (LSB)
Assistant State Maintenance Engineer (MB)
Traffic and Safety Engineer (TSB)
Maintenance Safety Training Program Manager (MB)
FHWA Safety and Traffic Operations Engineer

»» MAINTENANCE SAFETY TASK FORCE

Task force is made up of maintenance workers that employ with temporary traffic control and safety daily and is supported by the Maintenance and Human Resources Bureaus. The task force provides a forum to effectively bring forward and discuss what is being done in maintenance to improve safety in the work zone. This focuses on seeing the issues from the workers perspective and includes mobile operations, improving employee safety, reviewing, and recommending improvements to current practices, and the results of implementing innovations to improve work zone safety.

Lead: Maintenance Safety Training Program Manager (MB)

Meetings: Monthly

Membership:

Assistant State Maintenance Engineer (MB)
Maintenance RWIS Coordinator (MB)