



Minnesota Department of Transportation

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**Office of Traffic, Safety, and Technology**

Mail Stop 725,  
1500 West County Road B2  
Roseville, MN 55113

Date: October 20, 2015

Re: 2015 Traffic Engineering Manual Update

The 2015 version of the “Traffic Engineering Manual” (TEM) is a significant rewrite of the previous TEM published in October of 2009. Users should now refer to the October 2015 TEM for MnDOT standards and practices as they relate to traffic engineering.

Printed versions of the TEM are no longer available. Users may print as much or as little of the electronic version as needed.

Electronic notifications will continue to be sent out to all users who are registered to receive notifications of future updates and revisions on the Office of Traffic, Safety, and Technology’s publication website (<http://www.dot.state.mn.us/trafficeng/publ/updates.html>).

Electronic notifications that are returned to the sender will result in the subscriber’s name being removed from the notification list. It is the responsibility of the subscriber to submit a new request for notification should their email address change.

Contact Diane Colton, Office of Traffic, Safety, and Technology at [diane.colton@state.mn.us](mailto:diane.colton@state.mn.us) or 651/234-7379 with general questions concerning the TEM.

Your comments and suggestions are always appreciated.

Sincerely,

A handwritten signature in black ink that reads "Susan M. Groth".

Susan M. Groth, PE, PTOE  
State Traffic Engineer

An Equal Opportunity Employer



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## LIST OF ACRONYMS

A Injury	Incapacitating Injury	FAR	Fatal (K) and incapacitating injury (A) crash rate
AASHTO	Association of State Highway and Transportation Officials	FAST	Free and Secure Trade
ADM	Archived Data Management	FHWA	Federal Highway Administration
ADA	Americans with Disabilities Act	FIRST	Freeway Incident Response Safety Team
ADT	Average Daily Traffic	FMCSA	Federal Motor Carrier Safety Administration
AFMS	Automated Facilities Management System	FYA	Flashing Yellow Arrow
AMBER	America's Missing: Broadcast Emergency Response	GIS	Geographic Information System
APL	Approved Products List	GPS	Global Positioning System
APS	Accessible Pedestrian Signal	HAR	Highway Advisory Radio
APTS	Advanced Public Transportation System	HAZMAT	Hazardous Materials
ATIP	Annual Transportation Improvement Plan	HOT	High-Occupancy Toll
ATIS	Advanced Traveler Information System	HOV	High-Occupancy Vehicle
ATMS	Advanced Traffic Management System	HRI	Highway-Rail intersection
ATR	Automated Traffic Recorder	HSIP	Highway Safety Improvement Program
AVL	Automatic Vehicle Location	HSM	Highway Safety Manual
AVSS	Advanced Vehicle Safety System	ICE	Intersection Control Evaluation
AWF	Advance Warning Flasher	ICM	Integrated Corridor Management
AWOS	Automated Weather Observation System	IEEE	Institute of Electrical and Electronics Engineers
BCA	Bureau of Criminal Apprehension	IFTA	International Fuel Tax Agreement
CAD	Computer Aided Dispatch	IRP	International Registration Plan
CAES	Computer-Aided Engineering Services	ISP	Information Service Provider
CARS	Condition Acquisition and Reporting System	ITE	Institute of Transportation Engineers
CCTV	Closed Circuit Television	ITS	Intelligent Transportation Systems
CESU	Central Electrical Service Unit	IVR	Interactive Voice Response
CICAS	Cooperative Intersection Collision Avoidance System	IWZ	Intelligent Work Zone
CMF	Crash Modification Factor	LED	Light Emitting Diode
CR	Crash Rate	LPFM	Low Power FM Radio
CRF	Crash Reduction Factor	LRRB	Local Road Research Board
CVIEW	Commercial Vehicle Information Exchange Window	LTAP	Local Technical Assistance Program
CVISN	Commercial Vehicle Information Systems and Networks	MCM	Maintenance and Construction Management
CVO	Commercial Vehicle Operations	MCMIS	Motor Carrier Management Information System
DDS	Data Distribution Server	MDSS	Maintenance Decision Support System
DMS	Dynamic Message Sign	MDT	Mobile Data Terminal
DOT	Department of Transportation	MESU	Metro Electrical Service Unit
DPS	Department of Public Safety	MN	Minnesota Manual on Uniform Traffic Control Devices
DTN	Data Transmission Network	MUTCD	Manual on Uniform Traffic Control Devices
DVR	Digital Video Recording	MnCMAT	Minnesota Crash Mapping Analysis Tool
DVS	Department of Public Safety, Driver Vehicle Services Division	MnDOT	Minnesota Department of Transportation
EAS	Emergency Alert System	MPCA	Minnesota Pollution Control Agency
EOC	Emergency Operations Center	MSP	Minnesota State Patrol
EM	Emergency Management	MUTCD	Manual on Uniform Traffic Control Devices
EMS	Emergency Medical Services	NCHRP	National Cooperative Highway Research Program
EVP	Emergency Vehicle Preemption	NEMA	National Electrical Manufacturers Association
FAA	Federal Aviation Administration	NFPA	National Fire Protection Association
		NOAA	National Oceanic and Atmospheric Administration
		OS/OW	Oversize/Overweight
		OTST	Office of Traffic, Safety, and Technology (MnDOT)
		PDA	Personal Digital Assistant
		PRISM	Performance and Registration information Systems Management

**LIST OF ACRONYMS, cont.**

PSAP	Public Safety Answering Point
RASAWI	Rest Area Sponsorship, Advertising, and Wireless Internet
RCA	Resource Consumption Application
RDS	Radio Data Service
RESU	Regional Electrical Service Unit
RFID	Radio-Frequency Identification
RSA	Roadway Safety Audit
RTMC	Regional Transportation Management Center
RWIS	Road Weather Information System
SAFER	Safety and Fitness Electronic Records
SALT	State Aid for Local Transportation
SEOC	State Emergency Operations Center
SHSP	Strategic Highway Safety Plan
SOV	Single Occupancy Vehicle
STIP	State Transportation Improvement Plan
TE	Traffic Engineering
TMC	Transportation/Traffic Management Center
TOCC	Transportation Operation and Communications Center
TRB	Transportation Research Board
TSP	Transit Signal Priority
TZD	Toward Zero Deaths
UPA	Urban Partnership Agreement
VMT	Vehicle Miles Traveled
VSL	Variable Speed Limit
VWS	Virtual Weigh Station
WAN	Wide Area Network
WIM	Weigh-in-Motion