

# TZD and Commercial Motor Vehicles: Bridging the Gap

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| mndot.gov

# **Main Topics**

- What is the Weight and Safety Program?
  - Why is it important?
- Engineering strategies for reducing commercial vehicle crashes
  - What tools does our office have?
  - Things to keep in mind during the design process.





# Minnesota Weight and Safety Enforcement Program

- MnDOT works with the Minnesota State Patrol to keep our roads safe
- Program areas in truck safety, school bus safety, specialty transportation providers (STSS, limos), oversize/overweight permits
- Required by federal law

# Why is Weight Enforcement Important?

- Weight enforcement and safety inspections are needed to protect the safety, wellbeing and health of the public, operators, freight owners and Minnesota's infrastructure
- According to latest estimates, illegal overweight vehicles cause \$42 million of damage to Minnesota's trunk highway system each year



# **Enforcement Programs**



- Roadside Inspection Program throughout the state carried out in coordination with Federal Motor Carrier Safety Administration guidelines
- Mandatory Inspection Program annual inspection of vehicles that transport hazardous materials, have a gross weight of more than 26,000 pounds, are a school bus, or selfpropelled mobile equipment mounted on a vehicle chassis that weigh more than 26,000 pounds.

# ## Historical | Projected (Actual) | 2,90% Low bound | 2,95% High bou

## Available Resources for Designers

- SUPERLOAD Utility Resource Map
  - Filter clearances on MnDOT utility lines, overhead signs and signals on state highways, and details on electrical services in different areas of Minnesota.
- Width of Roadway Map
  - Displays travel lane widths for MnDOT's two-lane undivided highways in three different travel lane width classes: 10 ft., 11 ft., 12ft. or greater.
  - You can also view the location of Metro rush hour zones and restricted travel areas.

http://www.dot.state.mn.us/cvo/oversize/index.html

## **Available Resources for Designers**

- Prevent Crashes & Minimize Crash Severity
  - Separate Commercial Vehicles out of the stream of traffic
    - Encourage trucks to use alternative routes
    - Create a truck only lane through the work zone
  - Work Zone Design and Maintenance
    - Maintaining sufficient truck parking nearby
    - Maintain good retroflectivity (sign, device and pavement markings)
    - Establish and enforce work zone speed limits
    - Avoid the creation of traffic queues/Provide warning of stopped or slow traffic ahead
    - Avoid using short or no acceleration lane entrance ramps



#### Available Resources for Commercial Vehicle Drivers

- Guide for New Commercial Vehicle Operators
  - http://www.dot.state.mn.us/cvo/new operator.html
    - Fact sheets
    - · Statutes and Rules
    - Minnesota Commercial Truck and Passenger Regulations
- Statewide Truck-Weight Education Training
  - http://www.dot.state.mn.us/cvo/training/
    - Online Training
    - Commercial Motor Vehicle driver training (not CDL training)
    - Passenger Transportation Classes (limousine and special transportation services)
    - OSOW permit training
    - Truck Weight Education Training



#### **Available Resources for Commercial Vehicle Drivers** Truck Parking Information Management System (TPIMS) • <a href="https://trucksparkhere.com/">https://trucksparkhere.com/</a> Minnesota 1 of 8 states with new technology • 6 rest areas in Minnesota along I-35 and I-94 · Collects and broadcasts real time data **HOW TPIMS WORKS** Vehicle detection Data is delivered to drivers Parking data goes to states and 3rd party systems measure available parking in DYNAMIC MESSAGE SIGNS processors lots across each state P OPEN SPACES **REST AREAS** 34 MILES 78 MILES

# Things to Consider

- Design decisions that may affect commercial vehicles, oversize/overweight permitting and State Patrol's ability to enforce laws
  - Narrower shoulder or lane widths
  - Roundabouts
  - Tighter turning widths

# Now what?



Who you gonna call?

# Notifying the Railroad



# **Coordination Opportunities**

- · Check the Commercial Vehicle volumes
- · Consult the maps on the Office of Freight and Commercial Vehicles Website
- Call our office

Shelly Meyer, Permits Supervisor

651-366-3689

and/or

Rob Holschbach, Special Projects Coordinator

651-355-0243

Julie Whitcher, Rail Safety Engineer/Weigh Stations

651-366-3688

- http://www.dot.state.mn.us/cvo/oversize/index.html
- http://www.dot.state.mn.us/ofrw/railroad/safety.html



# Thank you!

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