



How to Address Work Zone TTC and Safety Standards Violations

Northland Chapter of ATSSA Safety Spotlight

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See Something Say Something

- Work Zone Safety
- Standards
- Training
- Experiences in Washington County
- How to Approach Non-compliant Temporary Traffic Controls
- Establish a Program for your Agency



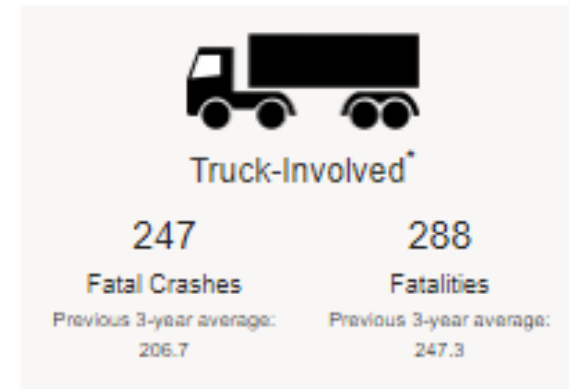
National Work Zone Statistics

2018

- 123,000 Total Crashes
- 45,000 Injuries

2019

- 842 Fatalities
- 133 Pedestrian Fatalities
- 135 Worker Fatalities



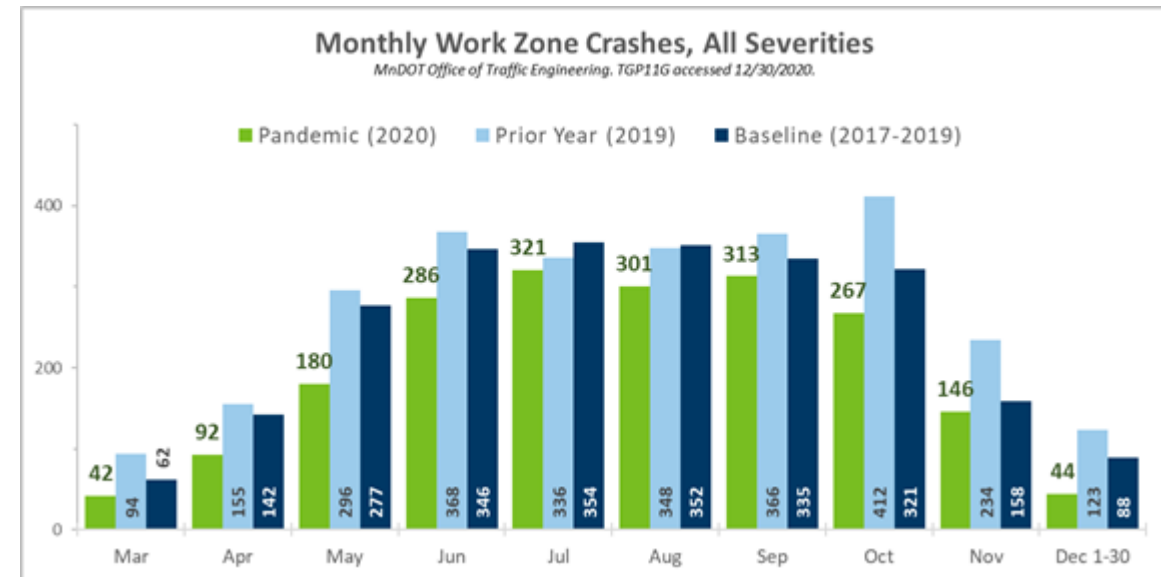
Local Work Zone Fatality Statistics - 2019

- North Dakota
 - 4 fatalities
 - 1 worker
- South Dakota
 - 3 fatalities
 - 0 worker
- Minnesota
 - 11 fatalities
 - 0 worker



Minnesota 2020 Work Zone Crash Statistics

- All work zone severity crashes are **down 16%** baseline; this is less than the 31% overall decrease implying **prevalence is up**
- Fatal and serious injury crashes are **up 2%** from baseline; this is less than the 7% overall decrease implying **prevalence is up**



Work Zone Standards

- Minnesota
 - State MUTCD
- North Dakota
 - Federal MUTCD with State Supplement
- South Dakota
 - Federal MUTCD



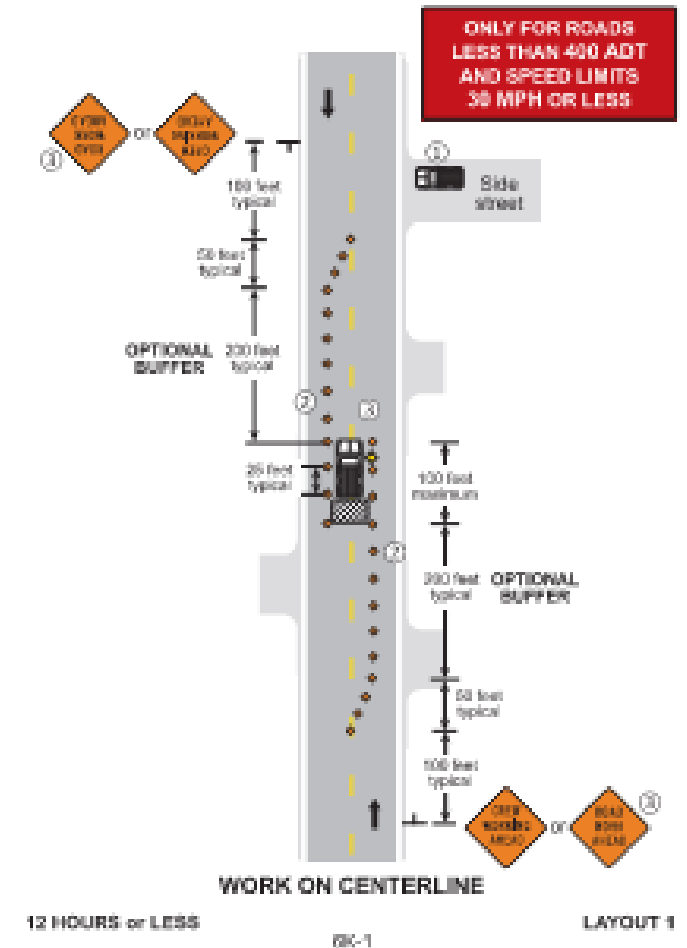
Temporary Traffic Control Plan

- Every Work Zone needs a TTC Plan.
- Plans should be commensurate with needs
 - Traffic Speed
 - Traffic Volume
 - Percentage Trucks
 - Short Term or Long Term
- Have the Road Authority approve the proposed layout.

Field Manual January 2018

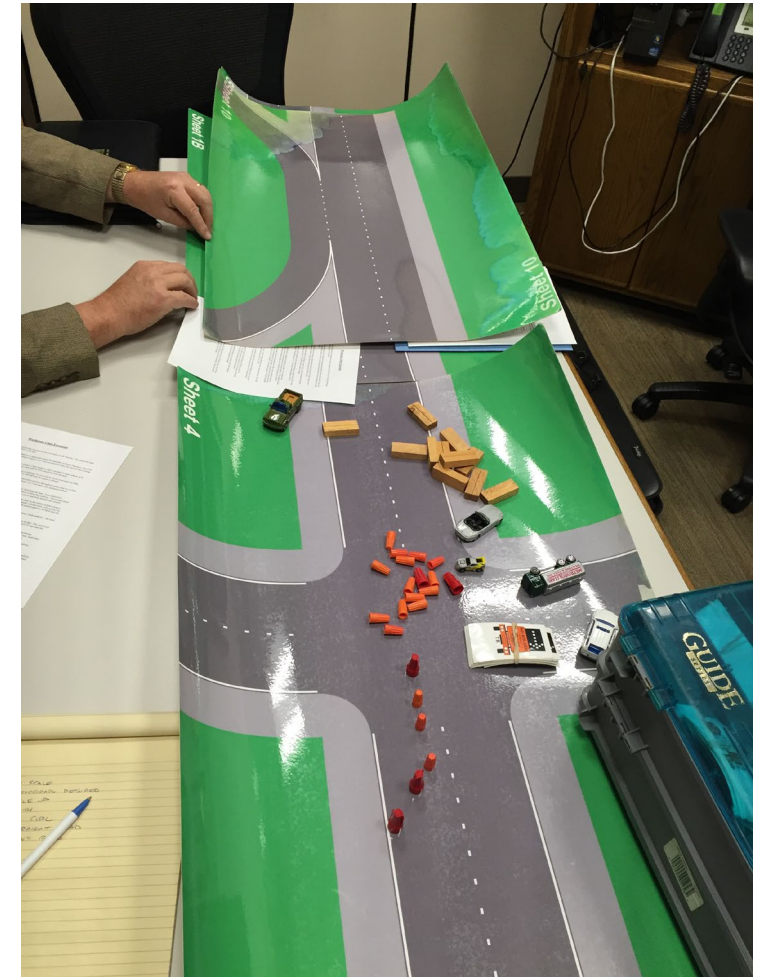
NOTES:

- ① Additional Work vehicle shall be parked off of the roadway. Do not obstruct the shoulder in the coned areas.
- ② A minimum of 10 feet of drivable surface outside of the channel bars should be maintained on all sides. Anything less than 10 feet shall be approved by the road authority.
- ③ Channelizers and ROAD WORK AHEAD signs are optional at 15 minutes or less.



Available Training

- State LTAP Centers
 - NDLTAP <https://www.ndltap.org/>
 - SDLTAP <https://www.sdstate.edu/jerome-j-lohr-engineering/sd-local-transportation-assistance-program>
 - MNLTAP <http://mnltp.umn.edu/training/topic/traffic/workzone-safety/>
- National Courses
- State Specific Courses



See Something – Say Something

- Lack of or No Advance Warning
- Improper Flagging
- Edge Drop Offs
- Conflicting Pavement Markings



Photo Source: FHWA



Introduction to Washington County Minnesota



Who Provides TTC?

- Municipalities
- County Forces
- Private Contractors
- TTC Vendors



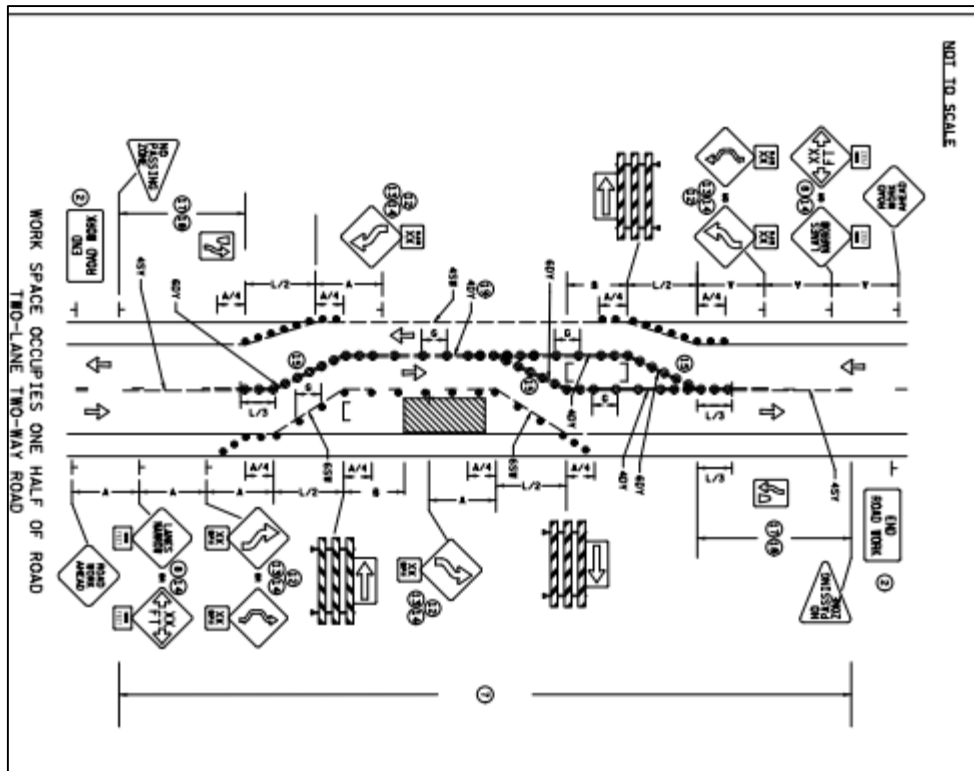
Legal Responsibility

- TTC Provider
- Public Agency



How We approach Non-Compliant TTC

- Permits



Washington County
WASHINGTON COUNTY PUBLIC WORKS DEPARTMENT
 11660 Myeron Road North
 Stillwater, Minnesota 55082
 Phone: (651) 430-4313 • Fax: (651) 430-4350
 Please Allow 10 Business Days for Processing
 carol.hanson@co.washington.mn.us
APPLICATION FOR RIGHT OF WAY PERMIT

Utility Service Laterals: \$25
 All Others: \$100 per 1/8 Mile,
 or fraction thereof.

Permit No. _____
 County Road _____
 Storm Sewer _____
 Permit Fee _____

ALL APPLICANTS MUST BE REGISTERED WITH WASHINGTON COUNTY TO OBTAIN PERMIT

Name of Applicant _____	Contact Address _____	Phone _____
Contractor: _____	City _____	Fax _____
	State/Zip _____	Registration _____

Date and Location
 Proposed Start Date: _____ Proposed End Date: _____
 County Road Number: _____ City/Township: _____

Describe Location and Project Limits. Include a Drawing and/or Map if Necessary.

Type of Work (Check all that Apply)

<input type="checkbox"/> Install New Underground Utilities	<input type="checkbox"/> Install Antenna/Wireless Structure	<input type="checkbox"/> Grading/Excavation/Boring
<input type="checkbox"/> Install New Overhead Utilities	<input type="checkbox"/> Install Sign or Monument	<input type="checkbox"/> Tree/Brush Removal
<input type="checkbox"/> Install New Ground-Level Utilities	<input type="checkbox"/> Install Street/Sidewalk/Driveway/Culvert	<input type="checkbox"/> Host a Parade/Race/Event
<input type="checkbox"/> Maintenance (No New Installation)	<input type="checkbox"/> Place Temporary Structure or Container	<input type="checkbox"/> Other (Describe Directly Below)
	<input type="checkbox"/> Install Landscaping	

Traffic Impacts (Check ONE)

No Traffic Impacts
 Sidewalk, Shoulder, or Trail Closure (Vehicle lanes not affected)
 Closure of Traffic Lane(s) without detour. (Flagging or lane reduction, no re-routing of traffic). **A Traffic Control Plan may be required.**
 Closure of Traffic Lane(s) requiring detour (Traffic being re-routed). **A traffic control plan MUST be submitted with permit application.**

Utility Information (If applicable)

Utility Type:	For Underground Utilities:	For Overhead Utilities:
<input type="checkbox"/> Electrical	Size: _____	Installing New Poles? <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Communications (Copper)	Conduit Type: _____	Minimum Height of Conductor from ground: _____
<input type="checkbox"/> Communications (Fiber Optic)	Casing Type: _____	Minimum Height of Conductor over roadway: _____
<input type="checkbox"/> Communications (Wireless)	Depth: _____	Line Voltage: _____
<input type="checkbox"/> Natural Gas / Petroleum	Voltage: _____	
<input type="checkbox"/> Water or Sewer	Pressure: _____	
<input type="checkbox"/> Other: _____		

V. The applicant shall perform all work according to the terms of this permit, the Washington County Right of Way Ordinance and all other regulations of Washington County, and any Standard and/or Special Provisions which are attached to the permit. The applicant shall comply with all applicable codes, laws, and ordinances including County Ordinance #198. The work performed shall be in no way detrimental to the highway or to the safety of the public. All traffic control shall comply with the provisions of the Minnesota Manual on Uniform Traffic Control Devices, including the Temporary Traffic Control Zone Layouts Field Manual. Applicant shall supply accurate electronic "as-built" drawing files in either DWG or DXF format. Files will be accepted in other formats and converted, at the applicant's expense, to a compatible format. If the County cannot convert files, the applicant must convert them to a compatible format. Conversion costs will be billed by the County at applicable billable labor rates plus material costs.

Print Name: _____ Signature: _____ Date: _____

FOR OFFICE USE ONLY

In accordance with this application, a Right of Way Permit is granted to the applicant to place, construct, and maintain said utility on or across the right of way of said County highway in the location shown on the drawing which is a part of this application, or in a location or manner specified by the County Engineer in the attached Special Provisions. A copy of this Permit must be available at the work site at all times.

Performance Bond, Cashier's Check, or Certified Check No. _____ Amount _____
 No interest shall be earned or paid on this deposit.

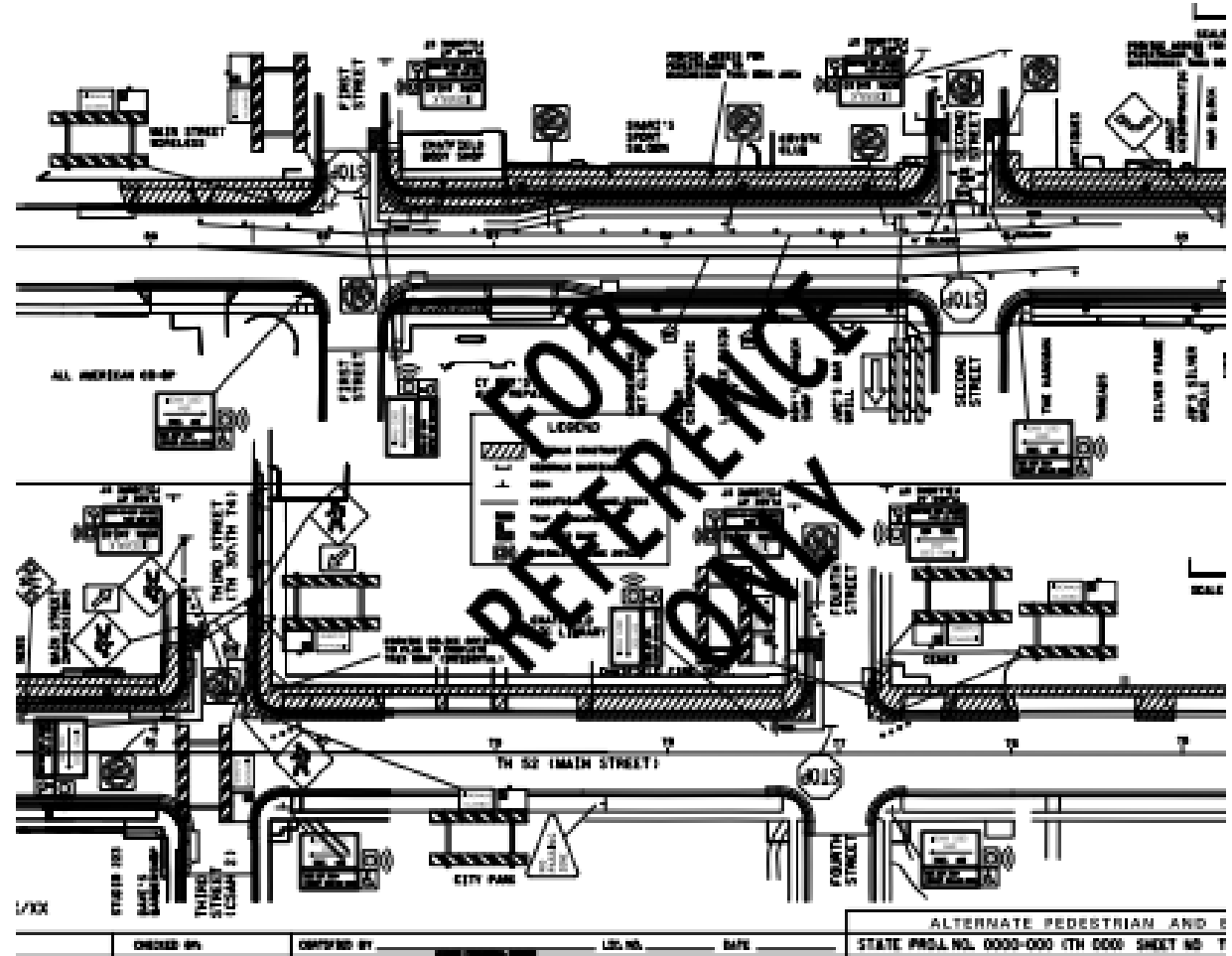
SPECIAL PROVISIONS

APPROVED _____ Date _____

Authorized Signature Washington County Public Works Department

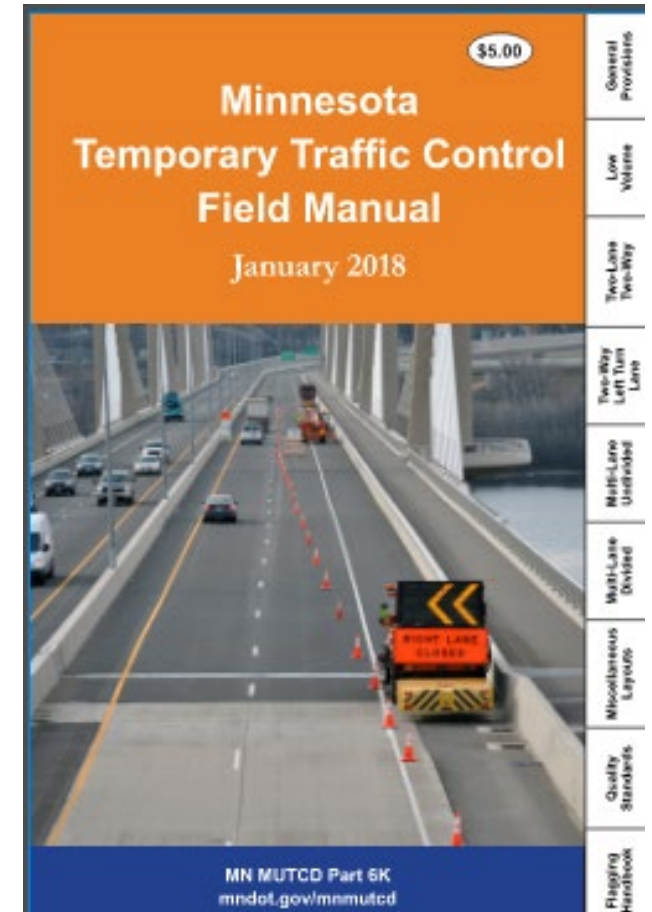
How We approach Non-Compliant TTC

- Contract Operations



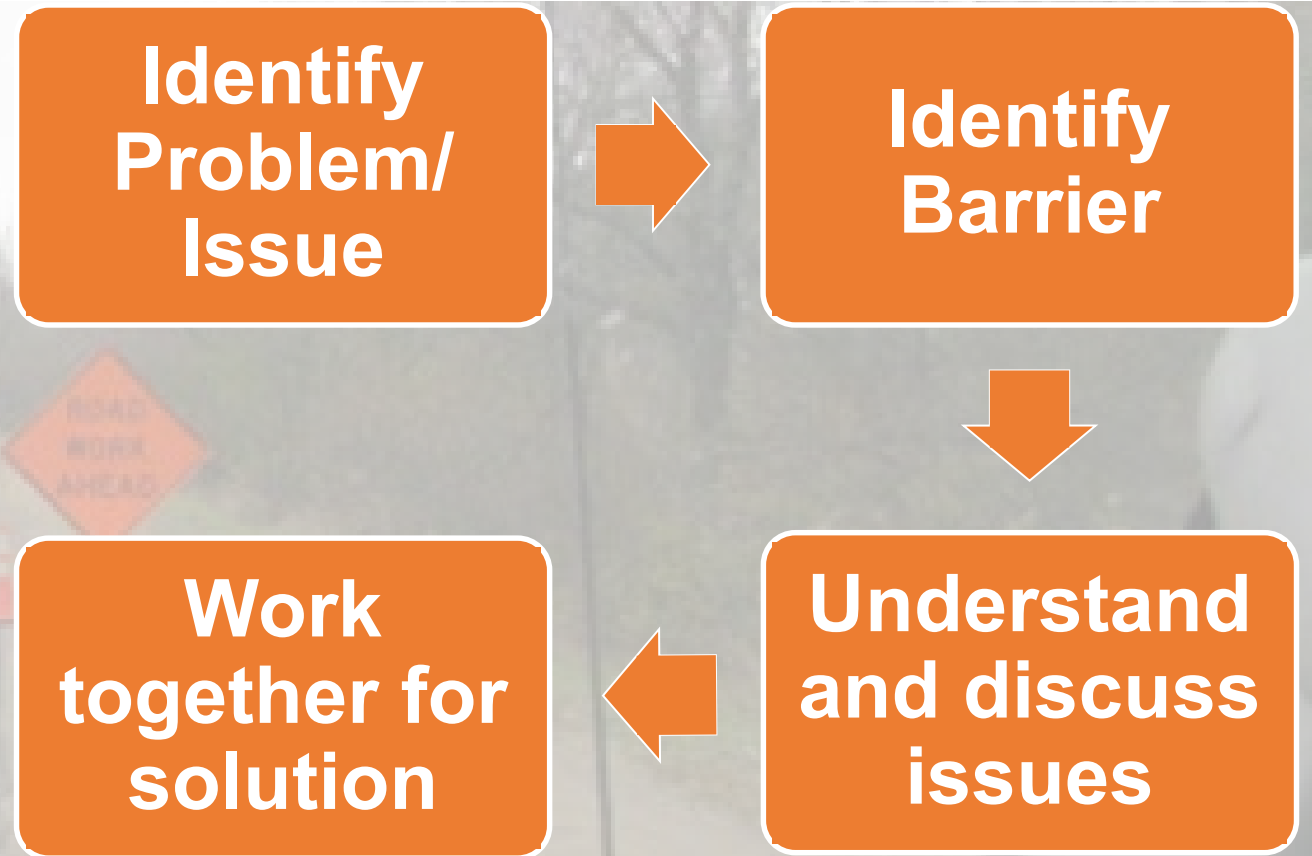
How We approach Non-Compliant TTC

- Internal County Maintenance Operations



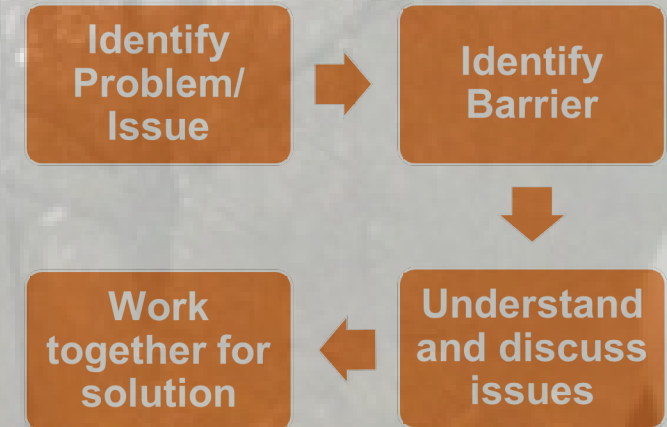
How to Address Establish a Process in Your Agency

- Have you attempted to change a policy or procedure?
- Steps to make this change.



How to Address Establish a Process in Your Agency

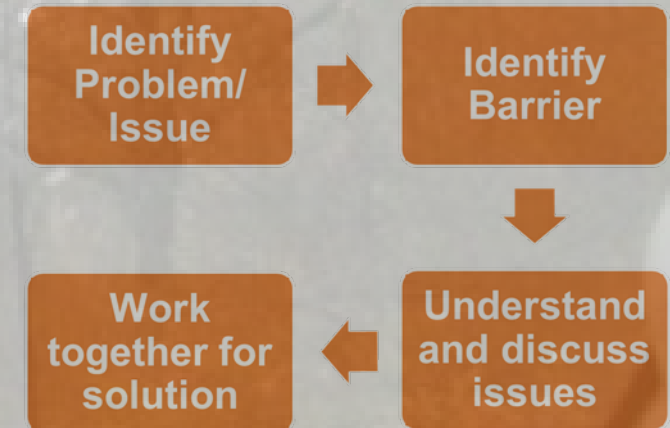
- Better understand current policy
 - Often set for a variety of reasons
 - Not always black and white
 - May have secondary impacts
- Better understand suggested policy changes
 - Its initial intent
 - Impact assessment



How to Address Establish a Process in Your Agency

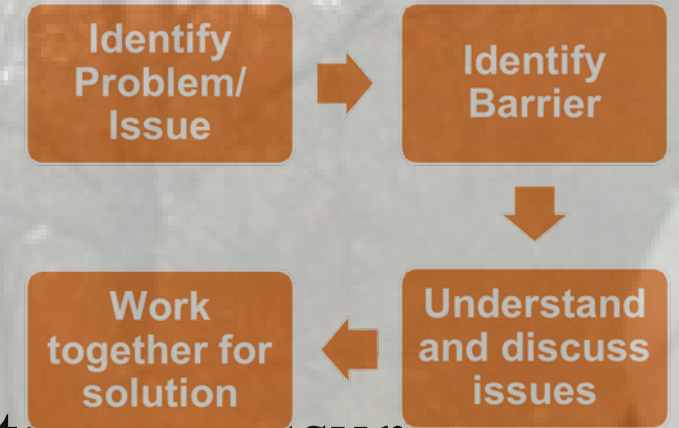
Outcomes of the implementing policy/procedure change process

- a) Better understanding current policy
- b) Better understanding suggested policy change
- c) A potential positive impact on safety



How to Address Establish a Process in Your Agency

- Works within the system
 - Gather input from others
 - Review the possible solutions
 - Achieve consensus
- Change may or may not occur (but last option is assured if no suggestion is made)
- Can have a positive impact on safety



Sharing Experiences

What has worked for you?

Suggestions for others?

Roadblocks you have encountered.

Additional Information

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[SRF Consulting Group](#)

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