

# Introduction to Traffic Mobility and Safety Mitigations

Design Manual  
 Chapter 9  
 Traffic Control  
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The two major categories of mitigations are:

1. Mobility Mitigations with Safety Considerations, and
2. Safety Mitigation with Mobility Considerations.

This section provides tables of mitigations used to address mobility and safety concerns on Traffic Critical Projects (TCP), see Section [9E-1](#). These mitigations are intended to be considered early in project and concept development to facilitate minimizing the impacts that construction and maintenance operations have on mobility and safety. Section [9F-2](#) contains additional guidance for the application of mitigations for different types of construction and maintenance work.

## Mobility Mitigations with Safety Considerations

Mobility mitigation with safety considerations focuses on providing reliable and acceptable travel times with the goal of not adding additional delay from the base condition before traffic is impacted by construction or maintenance activities. Table 1 presents several mobility mitigations with safety considerations. Typically, these are included in construction contract documents.

**Table 1: Mobility Mitigations with Safety Considerations.**

Plan Category	Mitigation Strategy
Schedule	Time-of-Day Restrictions (night work)
	Day-of-Week Restrictions
	Seasonal Restrictions
Design	Number of Open Lanes
	Lane Width
	Shoulder Width
	Barrier Location
	Open Lane and Shoulder Requirements
Innovative Contracting	Lane Rental
	Accelerated Schedule
	Early Completion Incentive/Disincentive
	No-Excuse Road Opening Bonus
Traffic Operations	Extra Enforcement
	Contractor Ingress/Egress to Work zone
	Maximum Allowable Delay
	On-site/Off-site Detour
	Contra-Flow Design

When mobility mitigation with safety considerations is not possible or practical, consideration should be given to providing safety mitigations with mobility considerations.

## Safety Mitigation with Mobility Considerations

When mobility impacts are necessary and safety concerns exist, consideration should be given to providing safety mitigation with mobility considerations. Table 2 presents several safety mitigations with mobility considerations. Typically, these are included in documents other than the construction contract documents.

**Table 2: Safety Mitigations with Mobility Considerations.**

Plan Category	Mitigation Strategy
Intelligent Work Zones (IWZ)	End-of-Queue Warning
	Sensors for Monitoring
	Speed Feedback
	Truck Entering
	PDMS with Radar Warning
	Signal Timing/Preemption
	Travel Time
	Alternate Route
Traffic Incident Management (TIM) Plan	Diversion Route Plan
	Diversion Route Signing Improvements
	Additional PDMS and CCTV on Diversion Route
	Traffic Monitoring with Incident Response
	Communications Plan
Public Information	Communication Strategies
	Stakeholders Meetings
	Project Website

# **Chronology of Changes to Design Manual Section:**

## **009F-001 Introduction to Traffic Mobility and Safety Mitigations**

3/14/2019    NEW  
New