

616.8.35M (TA-35M) Mobile Operation on a Multi-Lane Highway

- **Use this typical application for mobile operations on a multi-lane highway.**
 1. For other operations that require workers on foot, refer to the proper lane closure Typical Application.
- **Always use a protective vehicle with a flashing arrow panel (FAP) and a truck/trailer mounted attenuator (TMA) #1:**
 1. Activate high intensity rotating, flashing, oscillating, or strobe lights.
 2. Position TMA #1 a minimum of 150 feet behind the work vehicle, if possible.
 3. Operate the FAP in the appropriate mode.
- **When using additional TMAs between TMA #1 and the advance warning vehicle:**
 1. Activate high intensity rotating, flashing, oscillating or strobe lights.
 2. Position additional TMAs a minimum of 150 feet in advance of the next TMA, if possible.
 3. Operate the FAP in the appropriate mode.
- **Always use a shoulder advance warning vehicle with a FAP and the appropriate lane closure sign when a shoulder is available next to the lane closure:**
 1. Activate high intensity rotating, flashing, oscillating, or strobe lights.
 2. Always use a TMA if the shoulder advance warning vehicle encroaches into the lane of traffic.
 3. Operate the FAP with the appropriate arrow mode.
- **Use one of the following advance warning methods when a shoulder is not available next to the lane closure:**
 1. When using an advance warning vehicle, position it on the opposite shoulder a minimum of one mile behind any TMA in the lane.
 2. When using an advanced warning vehicle with or without a TMA, equip it with a FAP set in the four-corner or alternating diamond caution mode or a CMS with the appropriate lane closure message, and an appropriate lane closure sign.
- **For roadways posted at 45 mph or below, always use a protective vehicle with a flashing arrow panel (FAP). If available, use a truck/trailer mounted attenuator (TMA). Shoulder advance warning vehicle is optional.**
 1. Activate high intensity rotating, flashing, oscillating, or strobe lights.
 2. Position the protective vehicle/TMA a minimum of 150 feet in advance of the work space, if possible.
 3. Equip the vehicle with a FAP and operate the flashing arrow panel (FAP) with the appropriate arrow mode.
 4. Equip the advance warning vehicle with a FAP set in the appropriate mode or a CMS with the appropriate lane closure message, and an appropriate lane closure sign.
- **For more information on proper TMA operation refer to EPG 612.1.3.1.2.**

For other operations, refer to:
<ul style="list-style-type: none">• Short Duration:<ol style="list-style-type: none">1. EPG 616.33SD (TA-33SD) Short Duration Lane Closure on a Multi-Lane Highway.• Stationary:<ol style="list-style-type: none">1. EPG 616.33S (TA-33S) Stationary Lane Closure on a Multi-Lane Highway.

616.8.35M (TA-35M) Mobile Operation on Divided or Multi-Lane Undivided Highways

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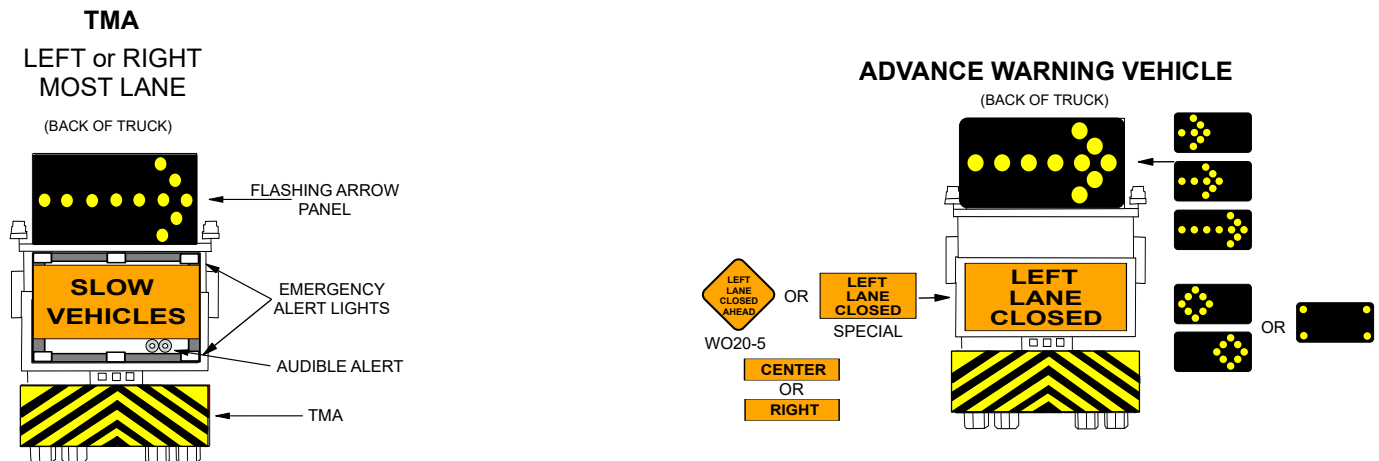
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MoDOT Maintenance Vehicles (IF AVAILABLE, USE EMERGENCY ALERT LIGHTS AND AUDIBLE ALERT SYSTEM)



616.8.35M (TA-35M) Two lanes: Right Lane Closed with Right Shoulder Advance Warning Vehicle

SPEED	SPACING LENGTH (ft.)
Permanent Posted (mph)	Spacing (T2)
0-35	245
40-45	540
50-55	660
60-70	840



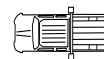
Flashing Arrow Panel (FAP)



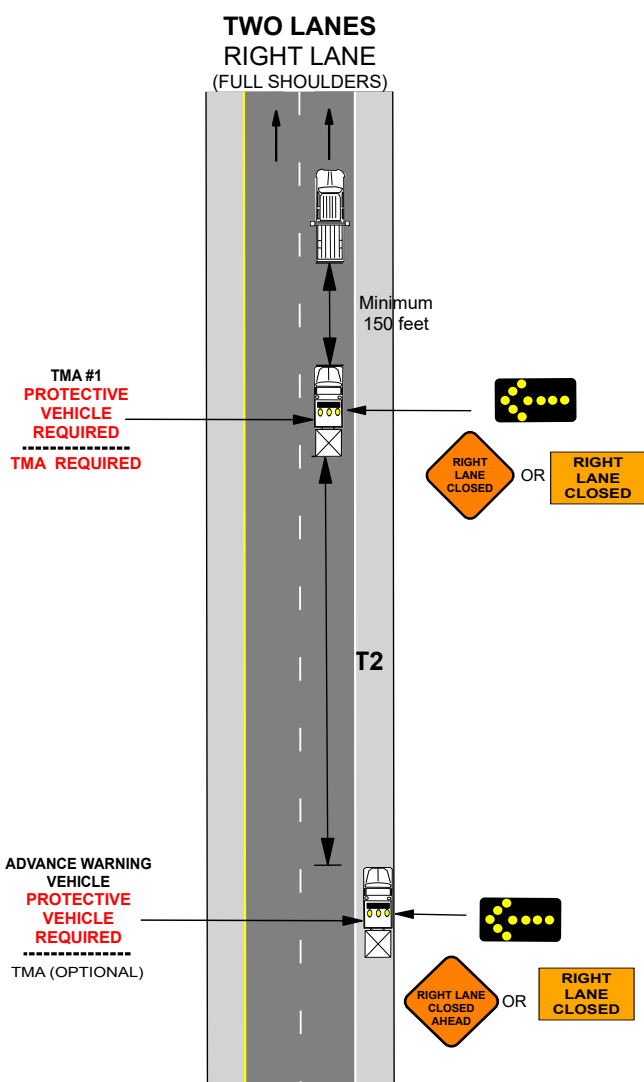
Protective Vehicle



Truck or Trailer Mounted Attenuator (TMA)



Work Vehicle



Date:

Type of Work:





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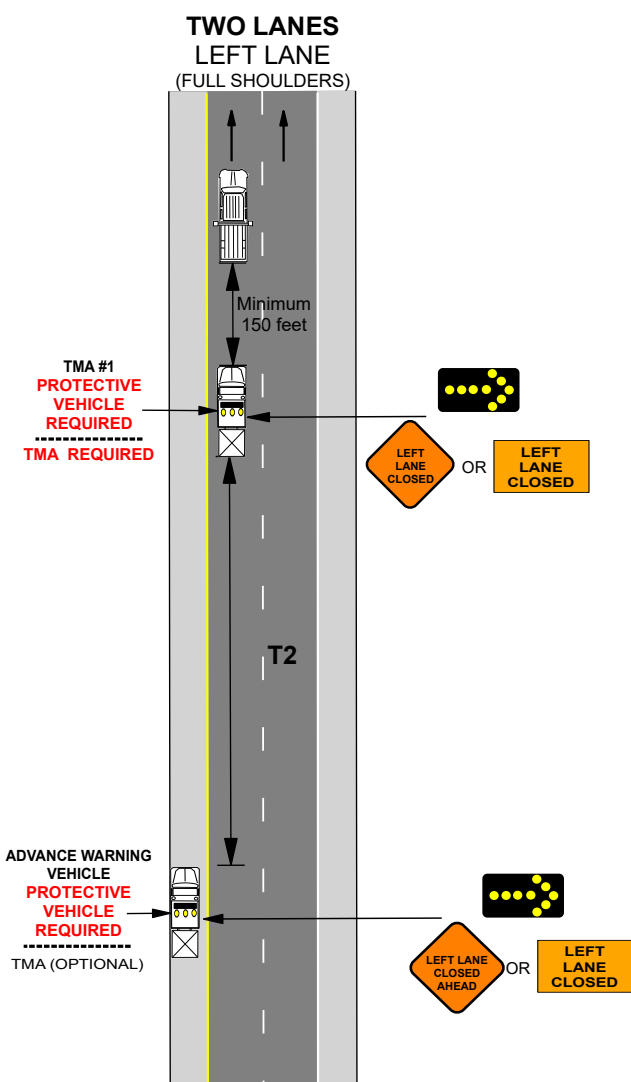
Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Two lanes: Left Lane Closed with Left Shoulder Advance Warning Vehicle

SPEED	SPACING LENGTH (ft.)
Permanent Posted (mph)	Spacing (T2)
0-35	245
40-45	540
50-55	660
60-70	840

	Flashing Arrow Panel (FAP)		Protective Vehicle
	Truck or Trailer Mounted Attenuator (TMA)		Work Vehicle



Date:

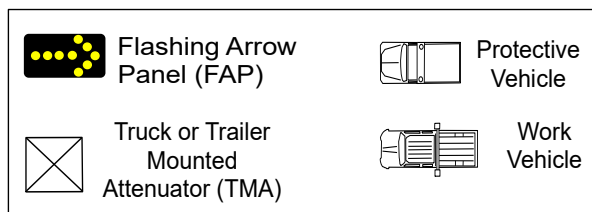
Type of Work:

Location:

Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Two lanes: Left Lane Closed with Narrow/No Shoulders with Right Shoulder Advance Warning Vehicle



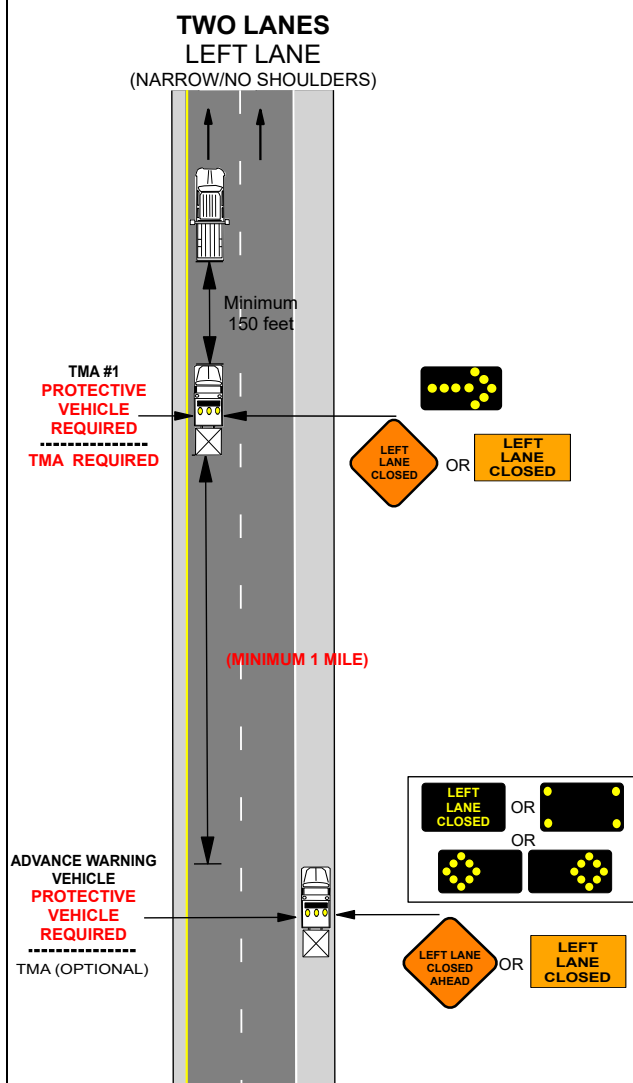
Date:

Type of Work:

Location:

Work Zone Specialist:

Field Notes:



616.8.35M (TA-35M) Three or more lanes: Center Lane Closed with Left Shoulder Advance Warning Vehicle

SPEED	SPACING LENGTH (ft.)
Permanent Posted (mph)	Spacing (T2)
0-35	245
40-45	540
50-55	660
60-70	840



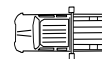
Flashing Arrow Panel (FAP)



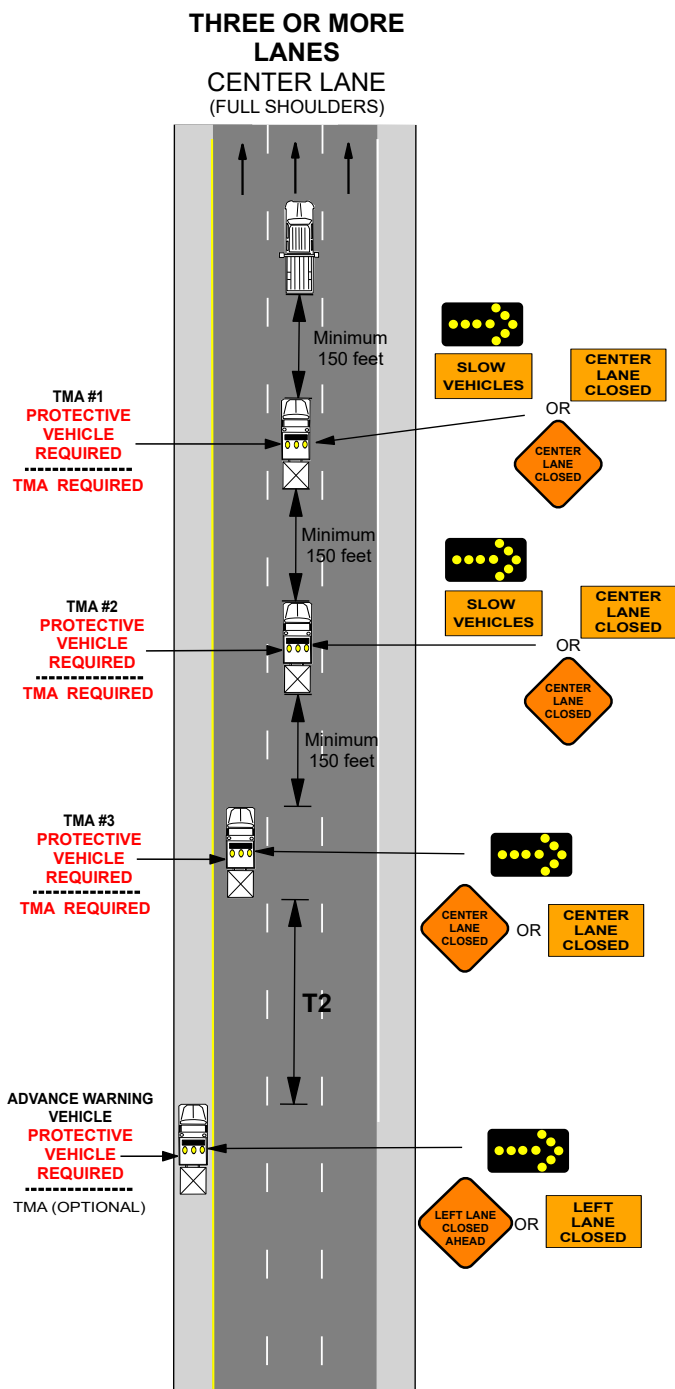
Protective Vehicle



Truck or Trailer Mounted Attenuator (TMA)



Work Vehicle



Date:

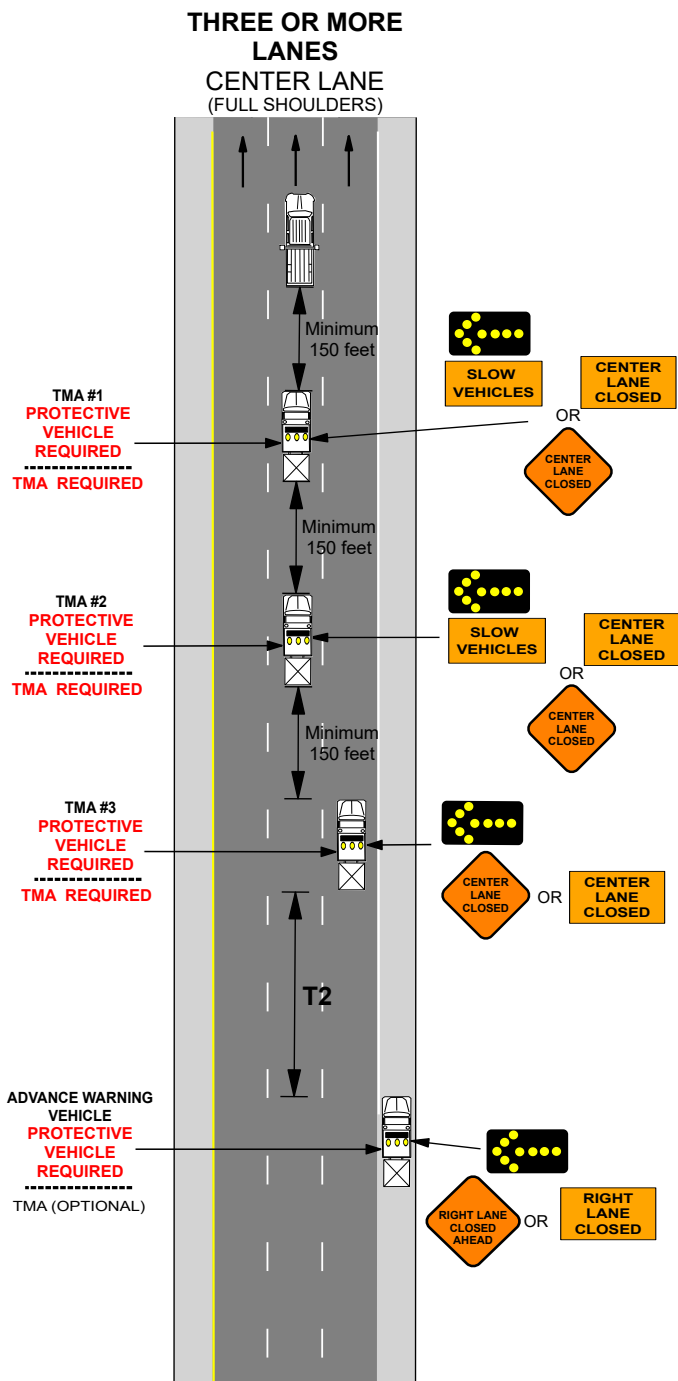
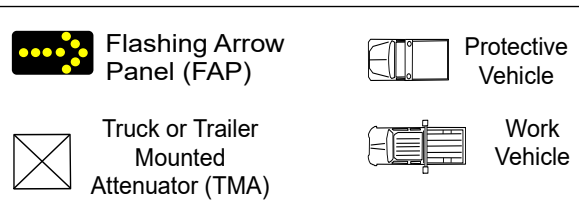
Type of Work:

Location:

Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Three or more lanes: Center Lane Closed with Right Shoulder Advance Warning Vehicle



Date:

Type of Work:

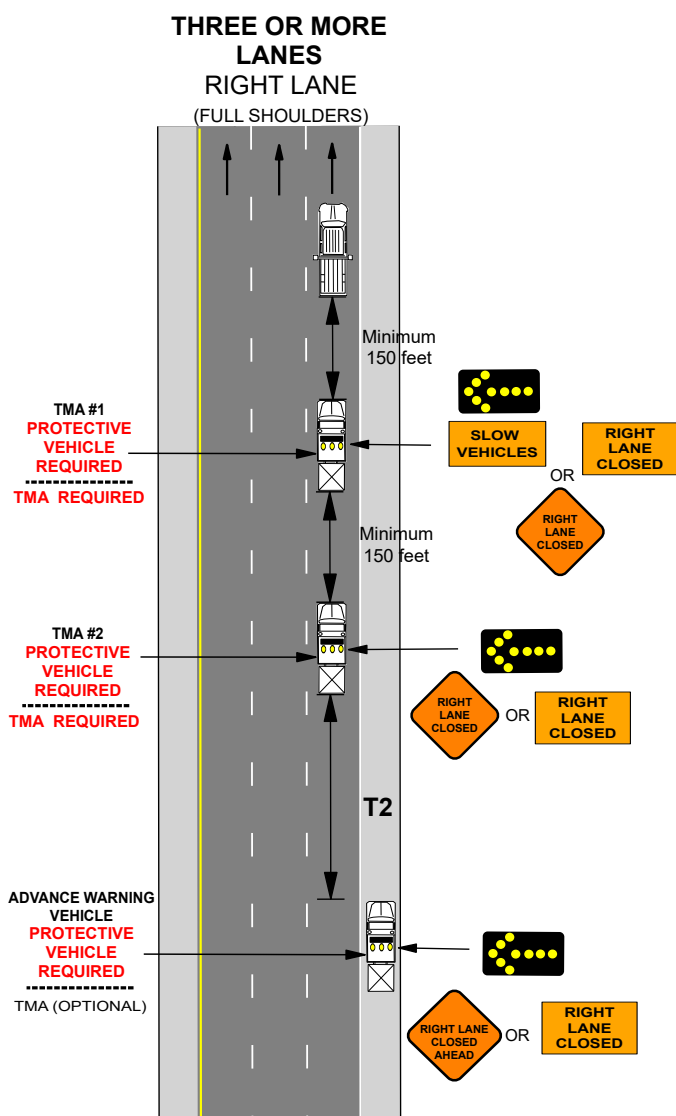
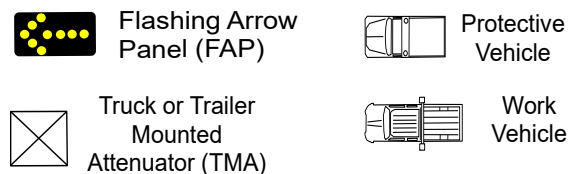
Location:

Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Three or more lanes: Right Lane Closed with Right Shoulder Advance Warning Vehicle

SPEED	SPACING LENGTH (ft.)
Permanent Posted (mph)	Spacing (T2)
0-35	245
40-45	540
50-55	660
60-70	840



Date:

Type of Work:

Location:

Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Three or more lanes: Left Lane Closed with Left Shoulder Advance Warning Vehicle

SPEED	SPACING LENGTH (ft.)
Permanent Posted (mph)	Spacing (T2)
0-35	245
40-45	540
50-55	660
60-70	840



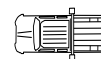
Flashing Arrow Panel (FAP)



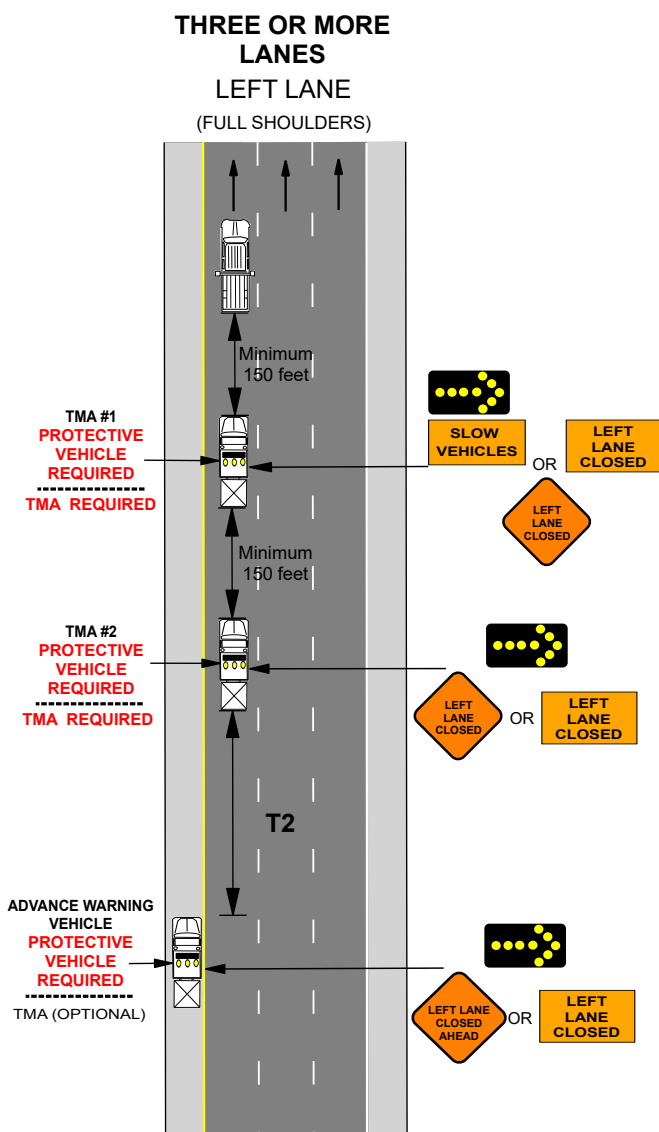
Protective Vehicle



Truck or Trailer Mounted Attenuator (TMA)



Work Vehicle



Date:

Type of Work:

Location:

Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Three or more lanes: Left Lane Closed with Narrow/No Shoulders with Right Shoulder Advance Warning Vehicle



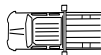
Flashing Arrow
Panel (FAP)



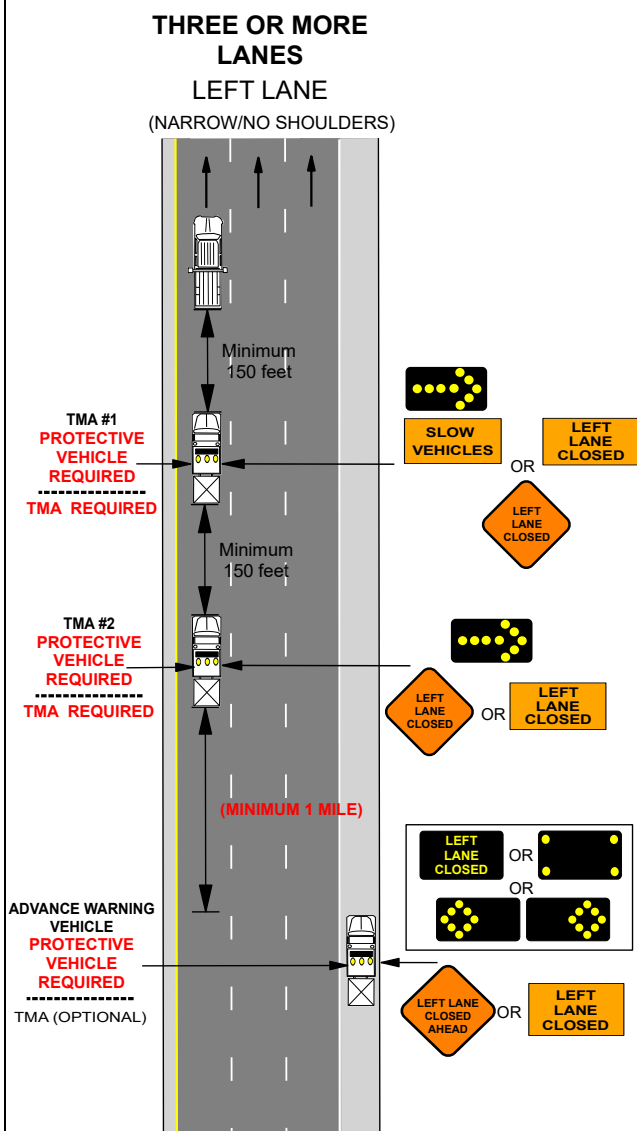
Protective
Vehicle



Truck or Trailer
Mounted
Attenuator (TMA)



Work
Vehicle



Date:

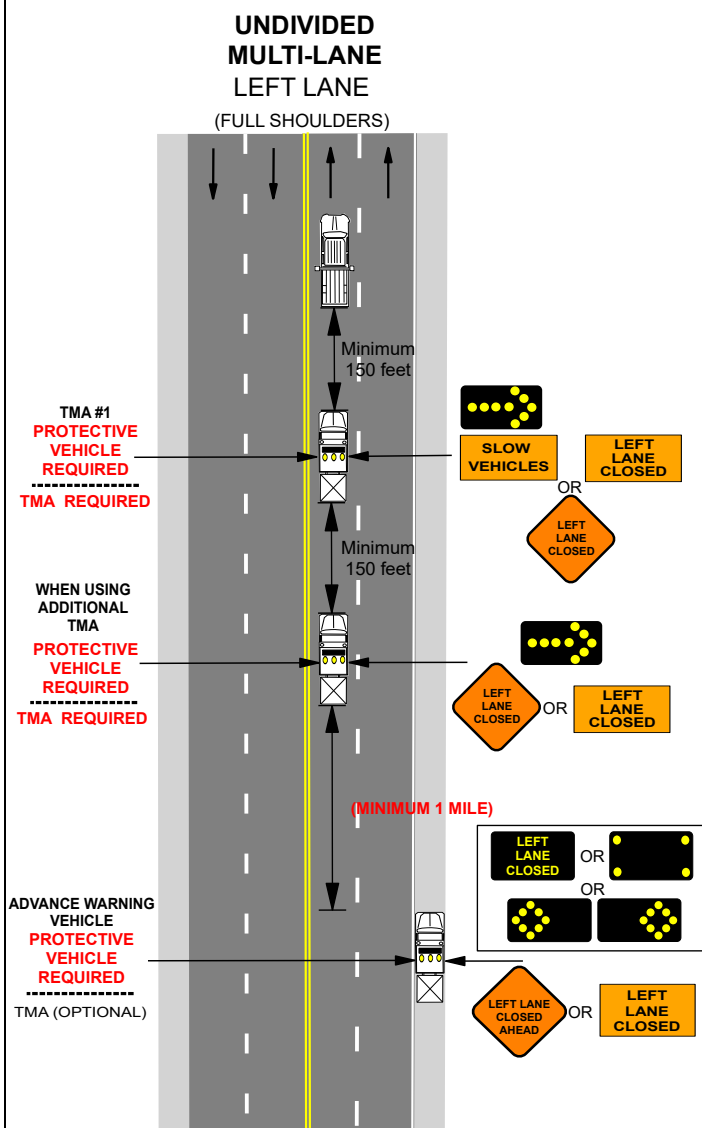
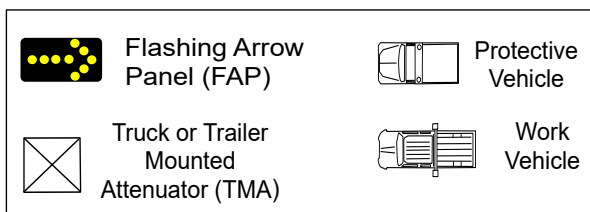
Type of Work:

Location:

Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Undivided Multi-Lanes: Left Lane Closed with Right Shoulder Advance Warning Vehicle



Date:

Type of Work:

Location:

Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Undivided Multi-Lanes: Right Lane Closed with Right Shoulder Advance Warning Vehicle

SPEED	SPACING LENGTH (ft.)
Permanent Posted (mph)	Spacing (T2)
0-35	245
40-45	540
50-55	660
60-70	840



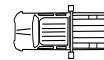
Flashing Arrow Panel (FAP)



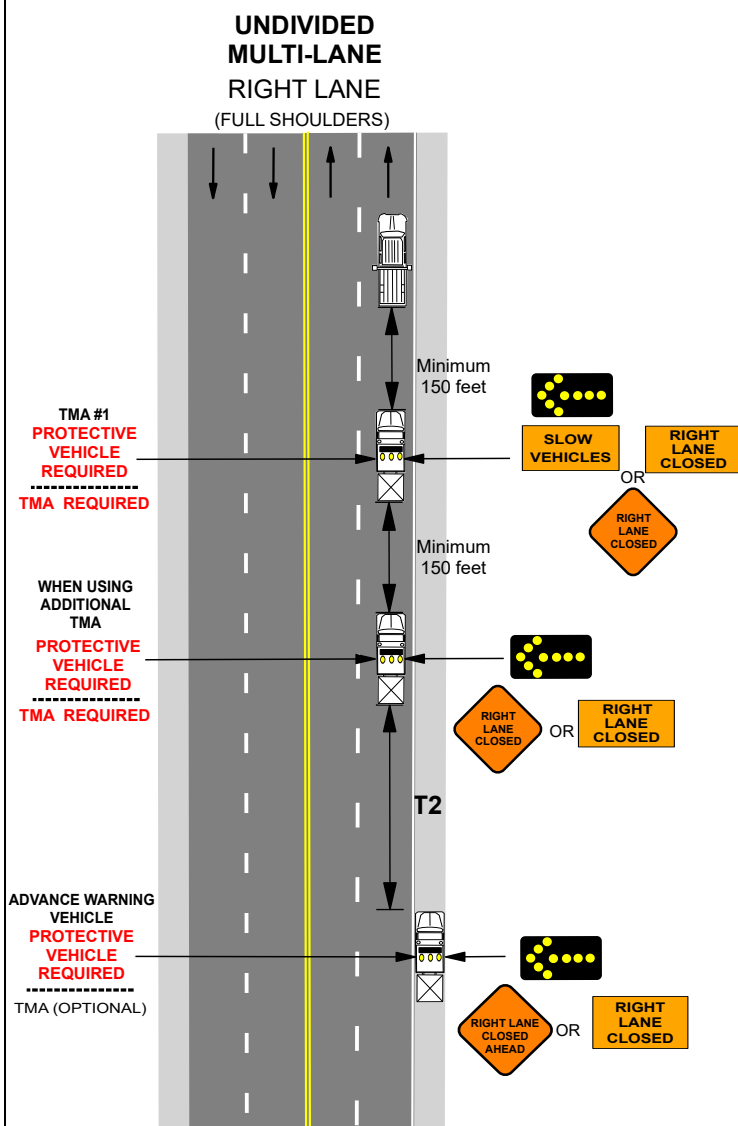
Protective Vehicle



Truck or Trailer Mounted Attenuator (TMA)



Work Vehicle



Date:

Type of Work:

Location:

Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Two lanes: Right Lane Closed with Right Shoulder 45 mph or Below Example

SPEED	SPACING LENGTH (ft.)
Permanent Posted (mph)	Spacing (T2)
0-35	245
40-45	540
50-55	660
60-70	840



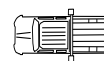
Flashing Arrow Panel (FAP)



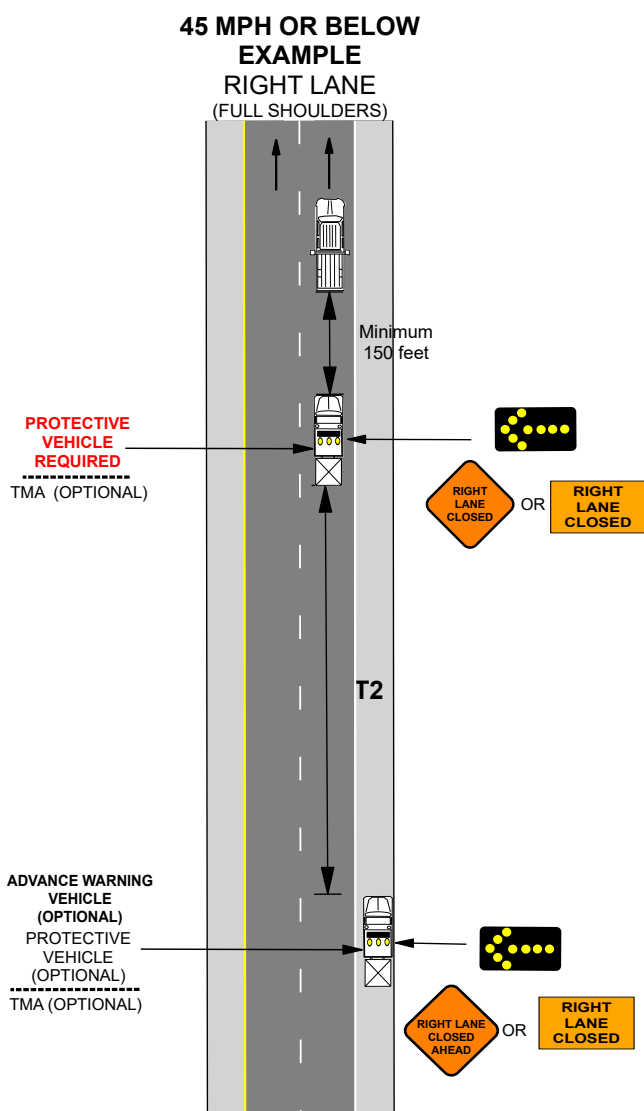
Protective Vehicle



Truck or Trailer Mounted Attenuator (TMA)



Work Vehicle



Date:

Type of Work:

Location:

Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Two lanes: Left Lane Closed with Left Shoulder 45 mph or Below Example

SPEED	SPACING LENGTH (ft.)
Permanent Posted (mph)	Spacing (T2)
0-35	245
40-45	540
50-55	660
60-70	840



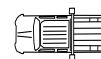
Flashing Arrow Panel (FAP)



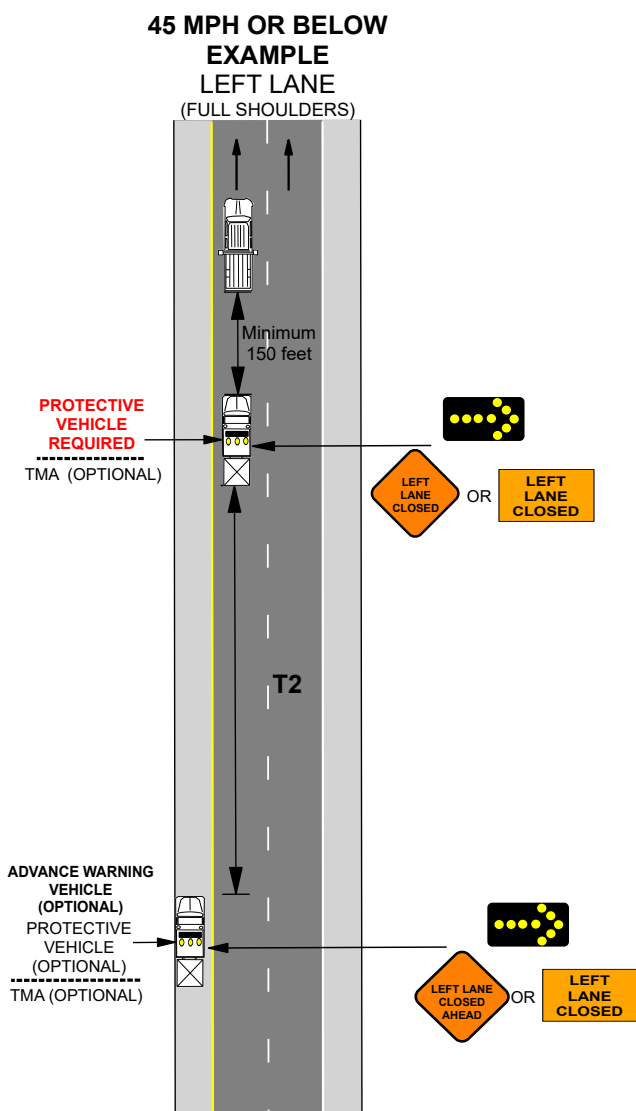
Protective Vehicle



Truck or Trailer Mounted Attenuator (TMA)



Work Vehicle



Date:

Type of Work:

Location:

Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Two lanes: Left/Right Lane Closed with Narrow/No Shoulders 45 mph or Below Example



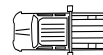
Flashing Arrow
Panel (FAP)



Protective
Vehicle



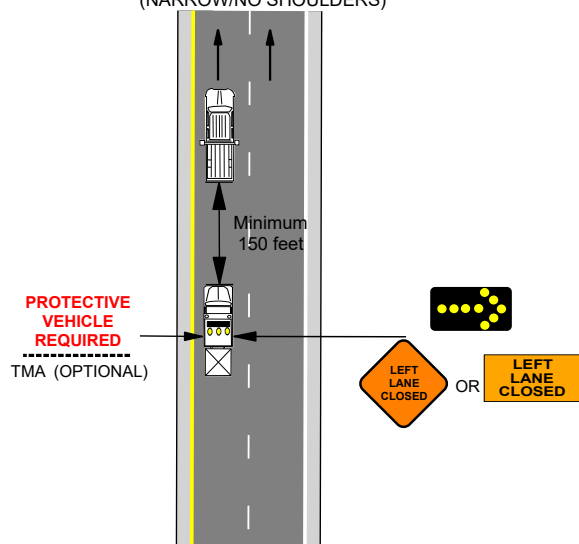
Truck or Trailer
Mounted
Attenuator (TMA)



Work
Vehicle

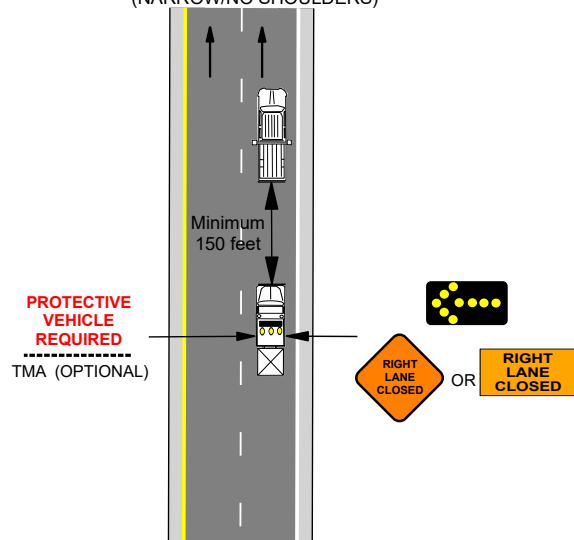
45 MPH OR BELOW EXAMPLE

LEFT LANE
(NARROW/NO SHOULDER)



45 MPH OR BELOW EXAMPLE

RIGHT LANE
(NARROW/NO SHOULDER)



Date:

Type of Work:

Location:

Work Zone Specialist:

Field Notes:

616.8.35M (TA-35M) Three or more lanes: Center Lane Closed 45 mph or Below Example

SPEED	SPACING LENGTH (ft.)
Permanent Posted (mph)	Spacing (T2)
0-35	245
40-45	540
50-55	660
60-70	840



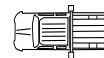
Flashing Arrow Panel (FAP)



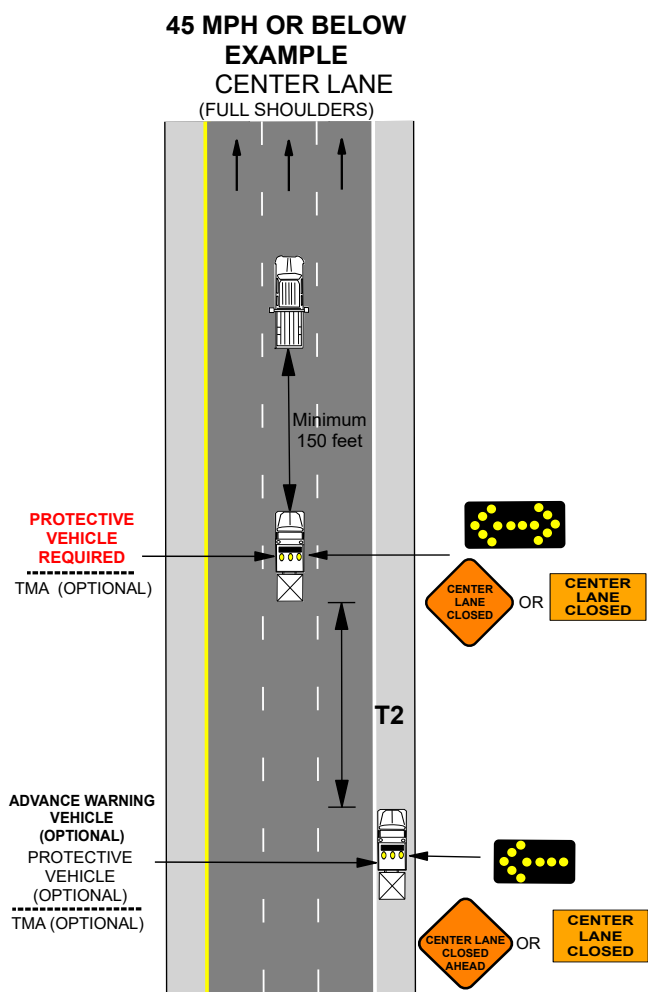
Protective Vehicle



Truck or Trailer Mounted Attenuator (TMA)



Work Vehicle



Date:

Type of Work:

Location:

Work Zone Specialist:

Field Notes: