

PERFORMANCE ACTIVITY 701

HAZARDOUS CONDITIONS

WORK DESCRIPTION 1
WORK DESCRIPTION 2
WORK DESCRIPTION 3
WORK DESCRIPTION 4

Winter Weather Operations
Spill Response
Preparation
Roadway Clearing

701 HAZARDOUS CONDITIONS

ACTIVITY DESCRIPTION

Any work performed for the response or preparation of a storm or hazardous condition or in response to a spill / accident.

WORK DESCRIPTION 1 Winter Weather Operations

WORK DESCRIPTION 3 Preparation

DURING EMERGENCY SITUATIONS, COMPLETE CLOSURE OF THE ROADWAY MAY BE NECESSARY.

DURING EMERGENCY SITUATIONS, HOURLY AND DISTANCE REQUIREMENTS FOR FLAGGING OPERATIONS, LANE CLOSURES AND SHOULDER CLOSURES MAY BE DISREGARDED PROVIDED THE WORK CREW INCLUDES NO LESS THAN TWO PERSONS AND A WORK VEHICLE FULLY EQUIPPED WITH THE REQUIRED HIGH INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE AUXILIARY WARNING LIGHTS.

TRAFFIC CONTROL

TWO-LANE TWO-WAY ROADWAYS

Conduct winter weather operations with moving vehicles and equipment. Ensure all vehicles are fully equipped with the required high intensity rotating, flashing, oscillating or strobe auxiliary warning lights.

Road machinery operating within a travel lane should be equipped with high intensity rotating, flashing, oscillating or strobe auxiliary warning lights. If not, utilize a shadow vehicle fully equipped with the required high intensity rotating, flashing, oscillating or strobe auxiliary warning lights as a follow vehicle to the road machinery. The shadow vehicle should maintain a follow distance of approximately 100 feet.

MULTILANE SECONDARY AND PRIMARY ROADWAYS

Conduct winter weather operations with moving vehicles and equipment. Ensure all vehicles are fully equipped with the required high intensity rotating, flashing, oscillating or strobe auxiliary warning lights.

Road machinery operating within a travel lane should be equipped with high intensity rotating, flashing, oscillating or strobe auxiliary warning lights. If not, utilize a shadow vehicle fully equipped with the required high intensity rotating, flashing, oscillating or strobe auxiliary warning lights as a follow vehicle to the road machinery. The shadow vehicle should maintain a follow distance of approximately 100 feet.

INTERSTATE ROADWAYS

Conduct winter weather operations with moving vehicles and equipment. Ensure all vehicles are fully equipped with the required high intensity rotating, flashing, oscillating or strobe auxiliary warning lights.

Road machinery operating within a travel lane should be equipped with high intensity rotating, flashing, oscillating or strobe auxiliary warning lights. If not, utilize a shadow vehicle fully equipped with the required high intensity rotating, flashing, oscillating or strobe auxiliary warning lights as a follow vehicle to the road machinery. The shadow vehicle should maintain a follow distance of approximately 100 feet.

WORK DESCRIPTION 4 Roadway Clearing

DURING EMERGENCY SITUATIONS, COMPLETE CLOSURE OF THE ROADWAY MAY BE NECESSARY.

DURING EMERGENCY SITUATIONS, HOURLY AND DISTANCE REQUIREMENTS FOR FLAGGING OPERATIONS, LANE CLOSURES AND SHOULDER CLOSURES MAY BE DISREGARDED PROVIDED THE WORK CREW INCLUDES NO LESS THAN TWO PERSONS AND A WORK VEHICLE FULLY EQUIPPED WITH THE REQUIRED HIGH INTENSITY ROTATING, FLASHING, OSCILLATING OR STROBE AUXILIARY WARNING LIGHTS.

TRAFFIC CONTROL

TWO-LANE TWO-WAY ROADWAYS

Flagging operations should be utilized for work activities that require equipment, personnel, materials, or any vehicles to encroach upon a travel lane or within 1 foot of a travel lane. When the work may be performed without the necessity for equipment, personnel, materials, or vehicles to encroach within 1 foot of an adjacent travel or without creating a hazard to passing motorists, utilize right shoulder closures.

TYPICAL DRAWING APPLICATIONS

FLAGGING OPERATIONS

DRAWING 405-01-A	-	FLAGGING OPERATIONS MULTIPLE FLAGGERS TWO-LANE TWO-WAY ROADWAYS PRIMARY & SECONDARY ROUTES
DRAWING 405-01-B(1)	-	FLAGGING OPERATIONS MULTIPLE FLAGGERS TWO-LANE TWO-WAY ROADWAYS PRIMARY & SECONDARY ROUTES STOP SIGN CONTROLLED SIDE ROADS
DRAWING 405-01-B(2)	-	FLAGGING OPERATIONS MULTIPLE FLAGGERS TWO-LANE TWO-WAY ROADWAYS PRIMARY & SECONDARY ROUTES 4-WAY STOP CONTROLLED INTERSECTION
DRAWING 405-01-C(1)	-	FLAGGING OPERATIONS MULTIPLE FLAGGERS TWO-LANE TWO-WAY ROADWAYS PRIMARY & SECONDARY ROUTES TRAFFIC SIGNAL CONTROLLED INTERSECTION LAW ENFORCEMENT OFFICER(S)
DRAWING 405-01-C(2)	-	FLAGGING OPERATIONS MULTIPLE FLAGGERS TWO-LANE TWO-WAY ROADWAYS PRIMARY & SECONDARY ROUTES TRAFFIC SIGNAL CONTROLLED INTERSECTION FLAGGERS

- DRAWING 405-01-D(1)** - FLAGGING OPERATIONS
MULTIPLE FLAGGERS
TWO-LANE TWO-WAY ROADWAYS
PRIMARY & SECONDARY ROUTES
WORK ACTIVITY AREA
BEGINNING at an
INTERSECTION with a
TWO-LANE TWO-WAY ROADWAY
DEPARTURE LANE
- DRAWING 405-01-D(2)** - FLAGGING OPERATIONS
MULTIPLE FLAGGERS
TWO-LANE TWO-WAY ROADWAYS
PRIMARY & SECONDARY ROUTES
WORK ACTIVITY AREA
TERMINATING at an
INTERSECTION with a
TWO-LANE TWO-WAY ROADWAY
APPROACH LANE
- DRAWING 405-01-E(1)**
DRAWING 405-01-E(2) - FLAGGING OPERATIONS
MULTIPLE FLAGGERS
TWO-LANE TWO-WAY ROADWAYS
PRIMARY & SECONDARY ROUTES
WORK ACTIVITY AREA
INTERSECTIONS with
LOW SPEED
< / = 35 MPH
MULTILANE ROADWAYS
- DRAWING 405-01-F(1)**
DRAWING 405-01-F(2) - FLAGGING OPERATIONS
MULTIPLE FLAGGERS
TWO-LANE TWO-WAY ROADWAYS
PRIMARY & SECONDARY ROUTES
WORK ACTIVITY AREA
INTERSECTIONS with
INTERMEDIATE SPEED to HIGH SPEED
40 MPH - 60 MPH
MULTILANE ROADWAYS
- SHOULDER CLOSURES**
- DRAWING 515-01-A** - RIGHT SHOULDER CLOSURE
CASE I / CASE II
TWO-LANE TWO-WAY ROADWAYS
PRIMARY & SECONDARY ROUTES

MULTILANE SECONDARY AND PRIMARY ROADWAYS

Lane closures should be utilized for work activities that require equipment, personnel, materials, or any vehicles to encroach upon a travel lane or within 1 foot of a travel lane. When the work may be performed without the necessity for equipment, personnel, materials, or vehicles to encroach within 1 foot of an adjacent travel or without creating a hazard to passing motorists, utilize shoulder closures.

TYPICAL DRAWING APPLICATIONS

LANE CLOSURES

- | | | |
|-------------------------|---|--|
| DRAWING 505-01 | - | LANE CLOSURE
LOW SPEED MULTILANE
</= 35 MPH
PRIMARY & SECONDARY ROUTES |
| DRAWING 505-03-A | - | LANE CLOSURE
INTERMEDIATE SPEED TO HIGH SPEED
40 MPH - 60 MPH
MULTILANE
PRIMARY & SECONDARY ROUTES |

SHOULDER CLOSURES

- | | | |
|-------------------------|---|---|
| DRAWING 515-01-B | - | RIGHT SHOULDER CLOSURE
CASE I / CASE II
MULTILANE
PRIMARY & SECONDARY ROUTES |
| DRAWING 515-02 | - | LEFT SHOULDER CLOSURE
CASE I / CASE I
MULTILANE
PRIMARY & SECONDARY ROUTES |
| DRAWING 515-03 | - | LEFT SHOULDER CLOSURE
CASE I / CASE II
MULTILANE
PRIMARY & SECONDARY ROUTES |

INTERSTATE ROADWAYS

Utilize intermittent mobile operations for these work activities under the following conditions:

Condition 2 - The maximum time duration of a stop is 30 minutes if the vehicles remain in the shoulder areas in their entirety with no encroachment upon an adjacent travel lane.

During intermittent mobile operations, a shadow vehicle should be utilized when the stopping sight distance interval between the work vehicle or road machinery and an approaching motorist is unavailable based upon the posted regulatory speed limit of the work location.

Standard shoulder closures may be used for work activities that cannot be conducted under the conditions required for intermittent mobile operations.

Lane closures should be utilized for planned work activities that require equipment, personnel, materials, or any vehicles to encroach upon a travel lane or within 10 feet of a travel lane. When the work may be performed without the necessity for equipment, personnel, materials, or vehicles to encroach within 10 feet of an adjacent travel or without creating a hazard to passing motorists, utilize shoulder closures.

Lane closures should be utilized for work activities that cannot be conducted under the conditions required for intermittent mobile operations or standard shoulder closures.

TYPICAL DRAWING APPLICATIONS

LANE CLOSURES

- DRAWING 510-01-A - LANE CLOSURE
INTERSTATE ROUTES
- DRAWING 510-01-B - LANE CLOSURE
EXIT / ENTRANCE RAMPS
INTERSTATE ROUTES

SHOULDER CLOSURES

- DRAWING 520-01 - RIGHT SHOULDER CLOSURE
CASE I / CASE II
INTERSTATE ROUTES
- DRAWING 520-02 - LEFT SHOULDER CLOSURE
CASE I / CASE I
NARROW MEDIAN
INTERSTATE ROUTES
- DRAWING 520-03 - LEFT SHOULDER CLOSURE
CASE I / CASE I
WIDE MEDIAN
INTERSTATE ROUTES
- DRAWING 520-04 - LEFT SHOULDER CLOSURE
CASE I / CASE II
WIDE MEDIAN
INTERSTATE ROUTES
- DRAWING 520-05 - LEFT SHOULDER CLOSURE
CASE II / CASE II
WIDE MEDIAN
INTERSTATE ROUTES

MOBILE OPERATIONS – INTERMITTENT

- DRAWING 535-01-A - MOBILE OPERATIONS – INTERMITTENT
STOPPING SIGHT DISTANCE
VEHICLE TRAIN REQUIREMENTS
VERTICAL CURVE (HILL)
- DRAWING 535-01-B - MOBILE OPERATIONS – INTERMITTENT
STOPPING SIGHT DISTANCE
VEHICLE TRAIN REQUIREMENTS
HORIZONTAL CURVE (CURVE)
- DRAWING 535-04-D(1) - MOBILE OPERATIONS – INTERMITTENT
HIGH VOLUME
HIGH SPEED
INTERSTATE ROUTES
- DRAWING 535-04-E - MOBILE OPERATIONS – INTERMITTENT
HIGH VOLUME
HIGH SPEED
INTERIOR TRAVEL LANE OPERATIONS
INTERSTATE ROUTES

WORK DESCRIPTION 2 Spill Response

TRAFFIC CONTROL

CONDUCT THESE OPERATIONS PER DIRECTION OF THE DIRECTOR OF MAINTENANCE.