

PERFORMANCE ACTIVITY 408

TREE REMOVAL

WORK DESCRIPTION 1
WORK DESCRIPTION 2

Fallen Tree
Standing Tree

408 TREE REMOVAL

ACTIVITY DESCRIPTION

Cut and remove tree as necessary.

WORK DESCRIPTION 1 Fallen Tree

WORK DESCRIPTION 2 Standing Tree

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 are required for planned 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
- DRAWING 405-02** - FLAGGING OPERATIONS
 SINGLE FLAGGER OPERATION
 LOW VOLUME
 LOW SPEED TO INTERMEDIATE SPEED
 TWO-LANE TWO-WAY ROADWAYS
 PRIMARY & SECONDARY ROUTES

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 are required for planned 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, utilize a shadow vehicle 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 are required 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 are required for planned 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