GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO $50\,\mathrm{FEET}$.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE WITH ATTACHED SIGN

+

TYPE "A" WARNING LIGHT (FLASHING)

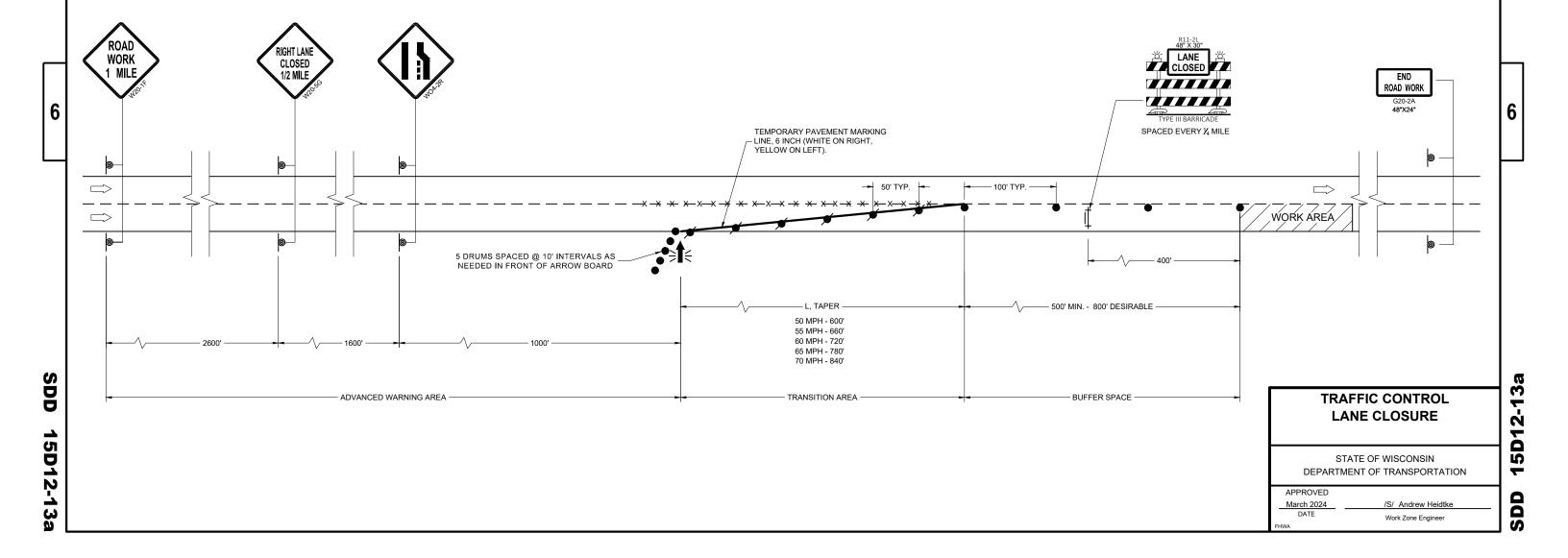
imes X X REMOVING PAVEMENT MARKINGS

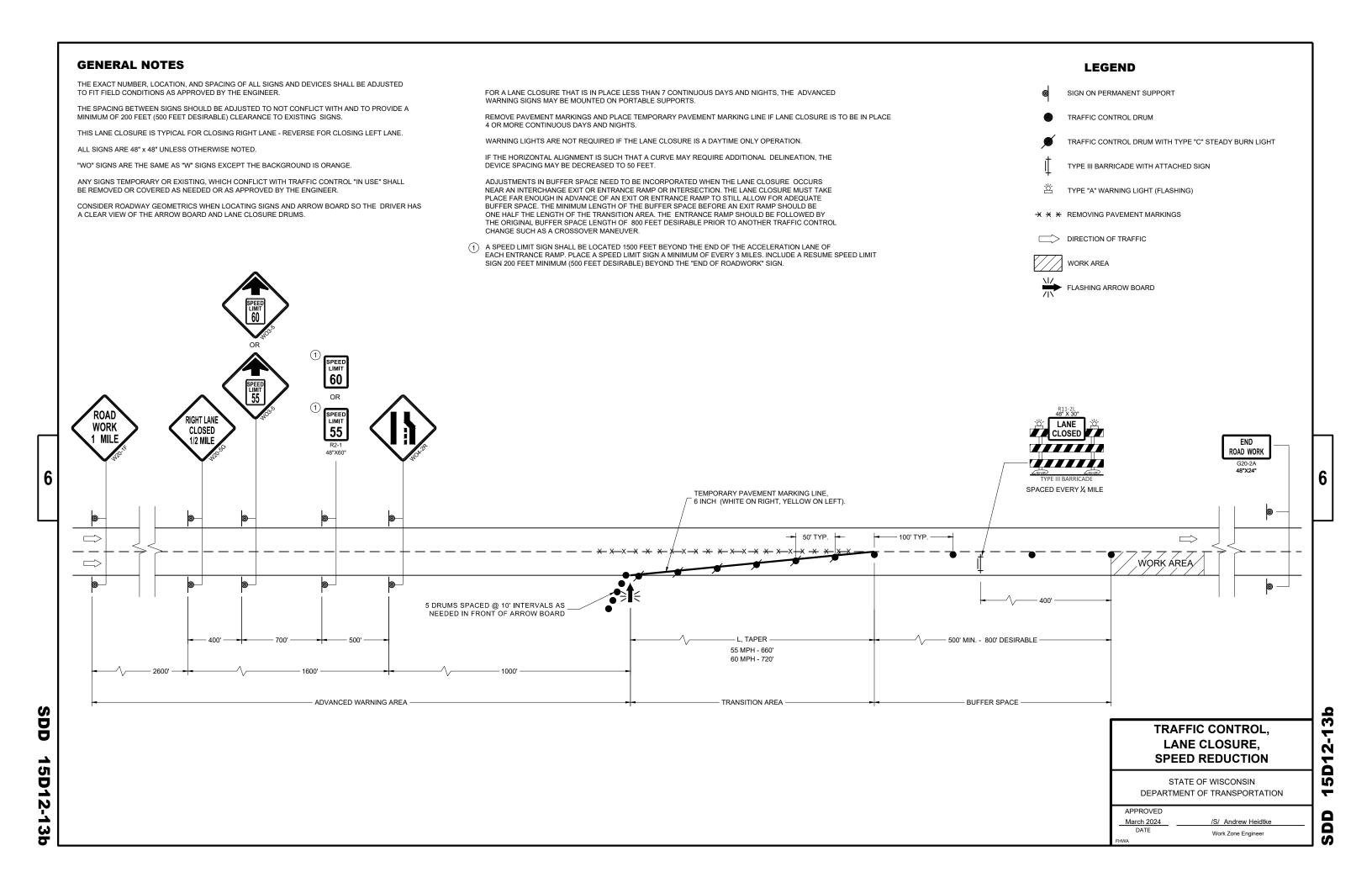
DIRECTION OF TRAFFIC

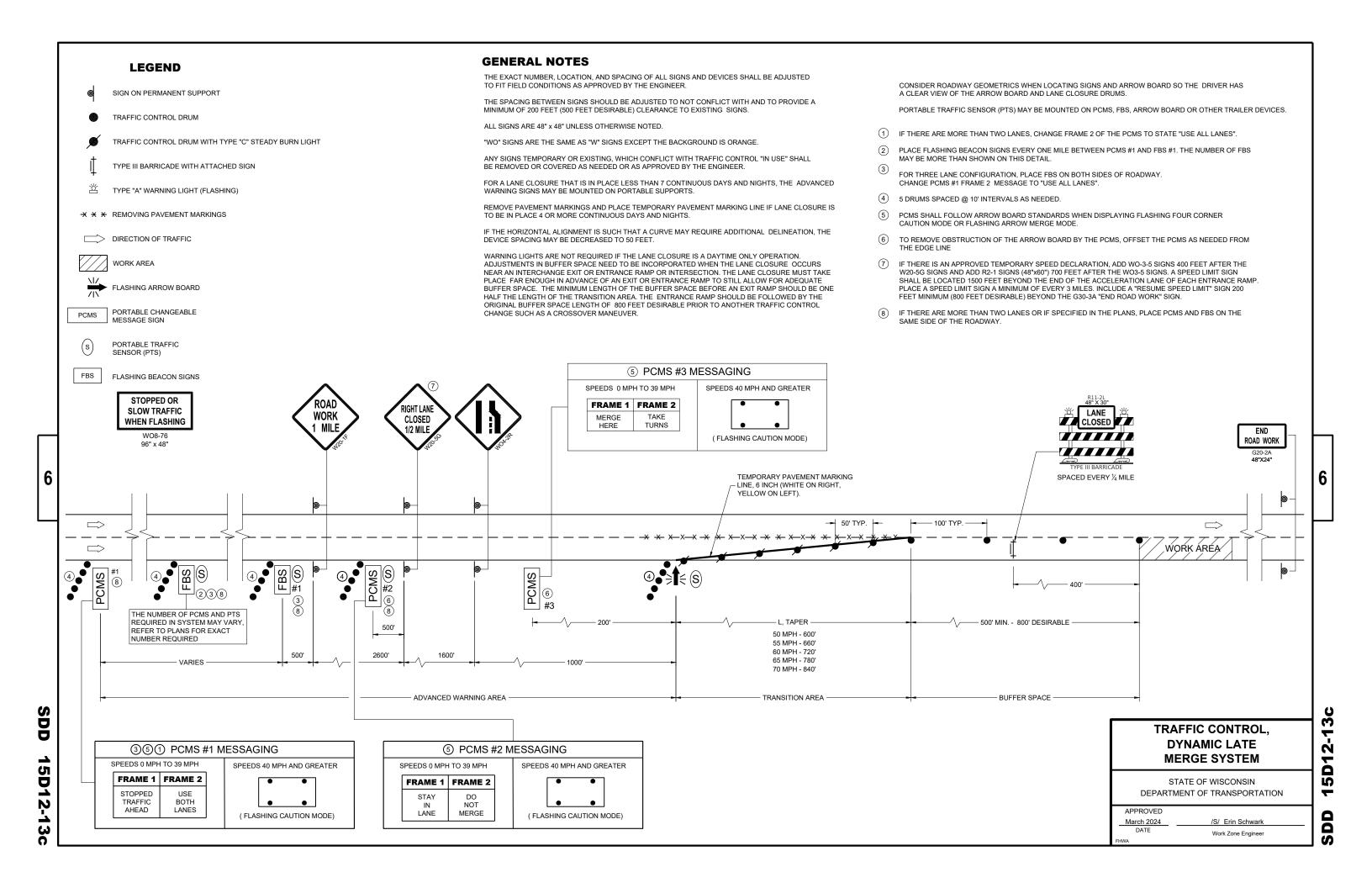
/// wo

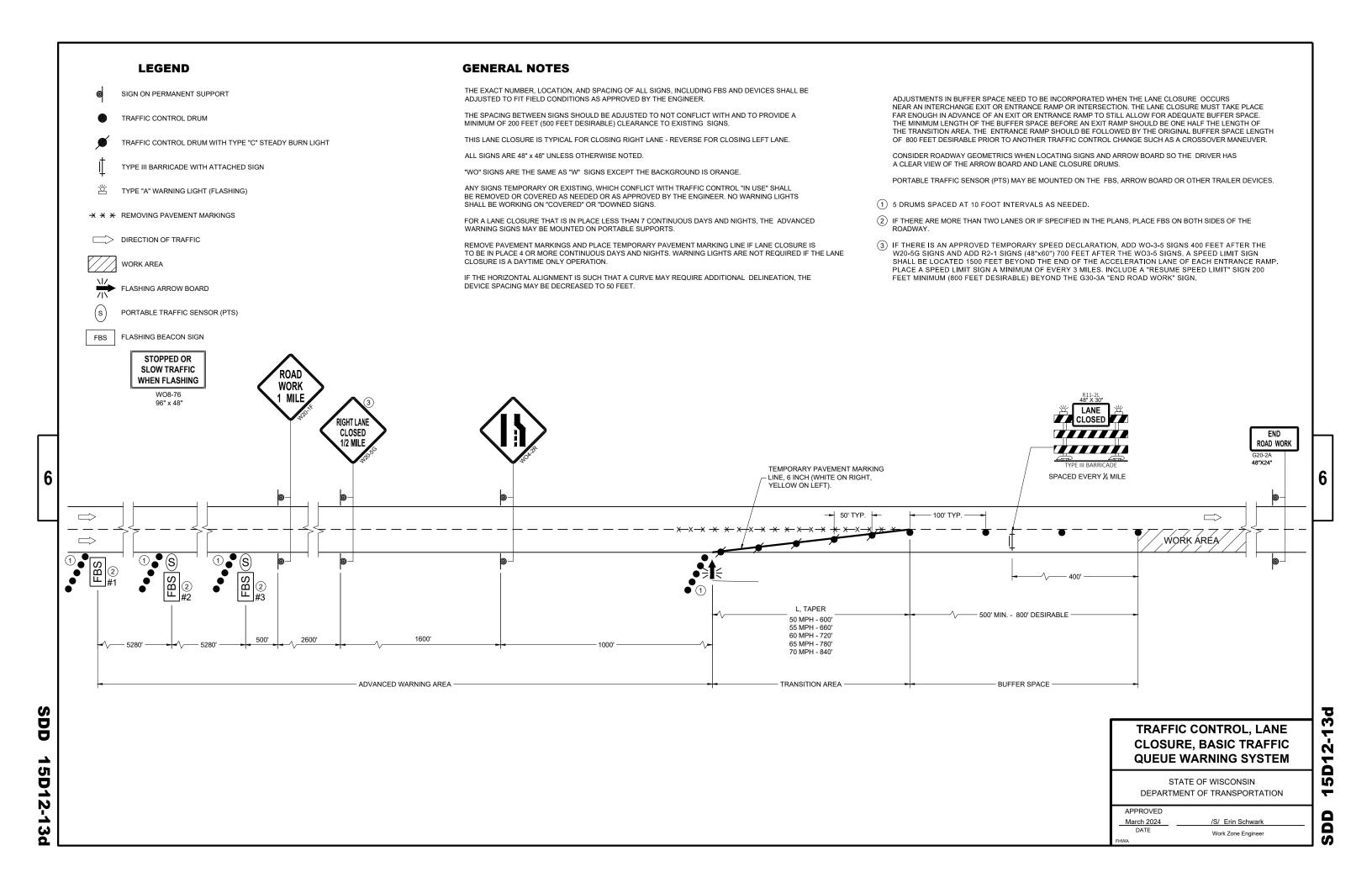
WORK AREA

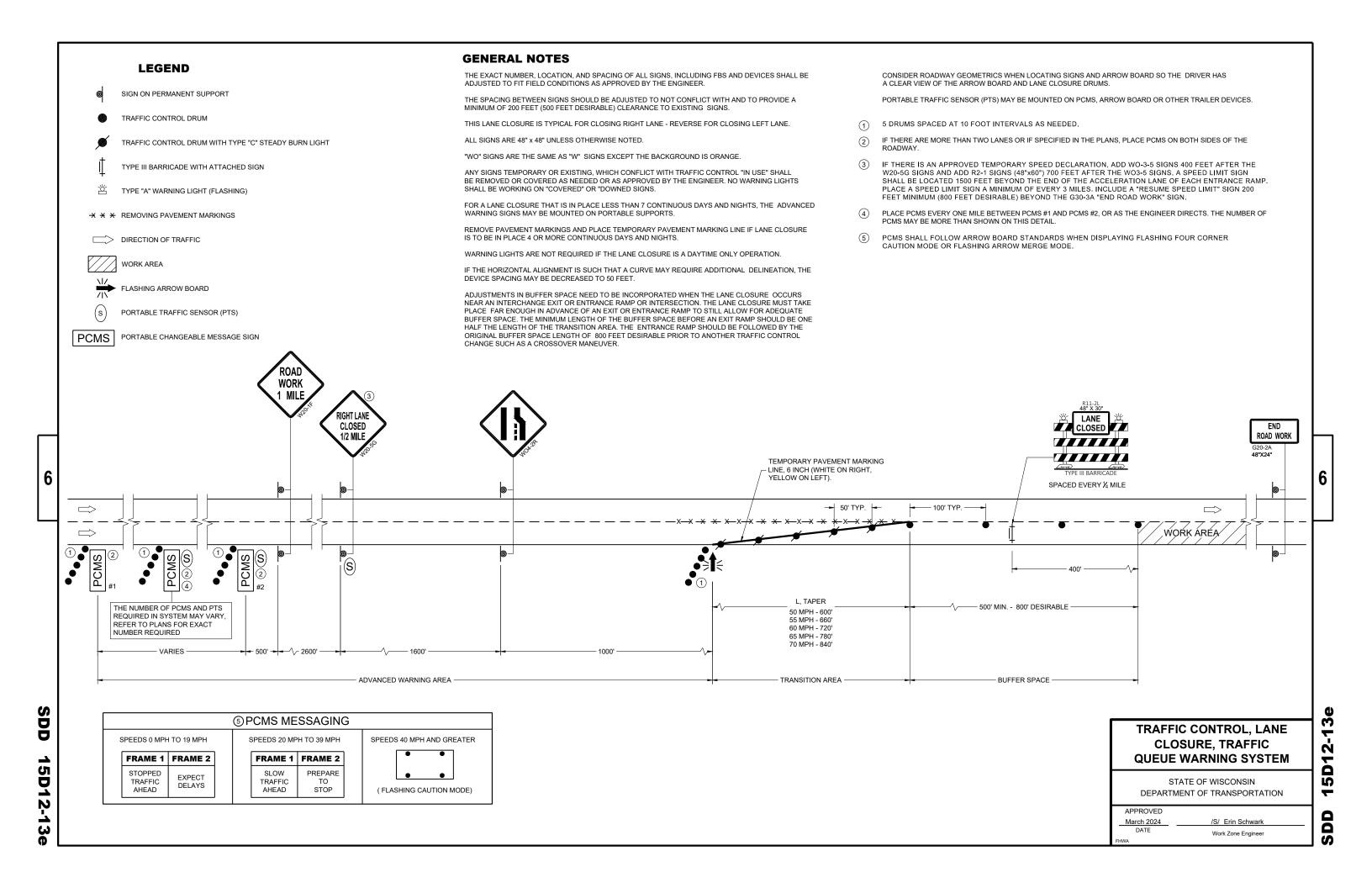
► FLASHING ARROW BOARD

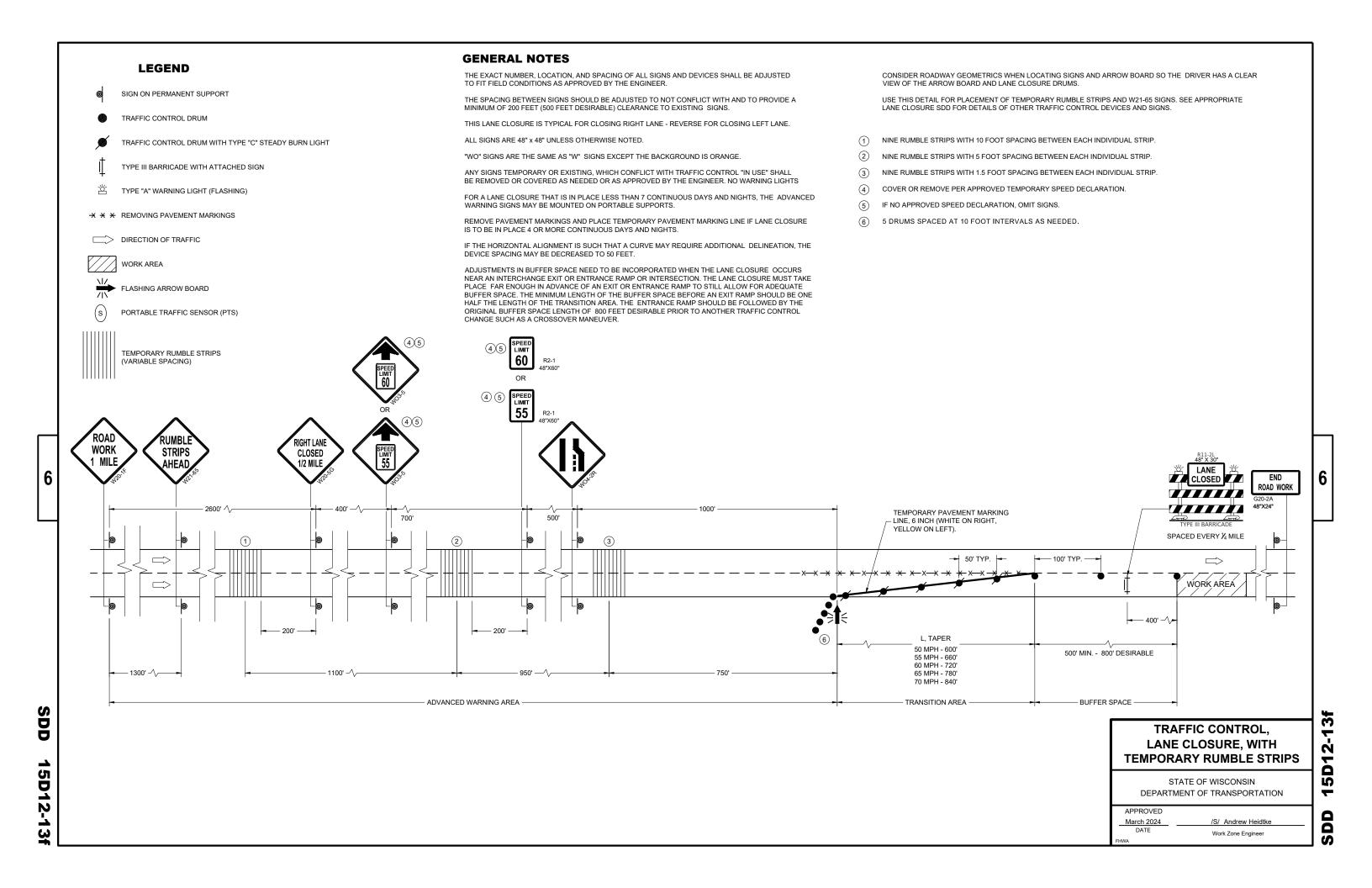












Traffic Control, Lane Closure

Reference:

Part VI from the Wisconsin Manual on Uniform Traffic Control Devices FDM 11-50-20

Bid items associated with this drawing:

ITEM NUMBER	DESCRIPTION	<u>UNIT</u>
643.0300	Traffic Control Drums	DAY
643.0420	Traffic Control Barricades Type III	DAY
643.0715	Traffic Control Warning Lights Type C	DAY
643.0800	Traffic Control Arrow Boards	DAY
643.0900	Traffic Control Signs	DAY
643.1050	Traffic Control Signs PCMS	DAY
643.3200-3299	Temporary Marking Line (Material) 6-Inch	LF
643.3760	Temporary Marking Raised Pavement Marking Type I	EACH
646.1000-1099	Marking Line (Material) 4-Inch	LF
646.2000-2099	Marking Line (Material) 6-Inch	LF
646.9000	Marking Removal Line 4-Inch	LF
646.9060	Marking Removal Line 6-Inch	LF

Standard Special Provisions associated with this drawing:

<u>STSP</u>	NUMBER	<u>TITLE</u>
	·	

NONE

Other SDDs associated with this drawing:

SDD 15C2	Traffic Control, Advanced Width Restriction Signing
SDD 15C11	Traffic Control, Channelizing Devices – Drums, Cones, Barricades and Vertical Panels
SDD 15D5	Traffic Control, Single Lane Crossover Entrance with Barrier
SDD 15D11	Traffic Control, Single Lane Crossover
SDD 15D21	Traffic Control, Intersection within Single Lane Closure

Design Notes:

POSSIBLE TRANSITION AREA MODIFICATIONS:

Temporary Marking, Raised Pavement Markers can be used along with any temporary marking to aid in delineation. Raised markers shall be used when the geometry is such that it is impossible to locate the lane closure with a minimum clear view of 1500 feet in front of lane closure drums. Raised markers should not be used if the lane closure is in place for less than seven (7) continuous days and nights. Consideration should also be given to the speed of the roadway and the traffic volumes. Raised markers shall be placed at 25 foot spacing when they are used as a solid lane line and at 50 foot spacing when they are used as a broken lane line.

Cover existing and permanent signs to prevent conflicts with detours or other traffic operations.

In lieu of covering signs, the contractor may choose to remove and reinstall them.

An overview detail specific to the project should be used in conjunction with this detail. Additional advance warning signs (beyond 1 mile in advance) should be shown on the overview sheet, if necessary.

Contact Person:

Andrew Heidtke (414) 220-6802

Traffic Control, Lane Closure, Speed Reduction

Reference:

Part VI from the Wisconsin Manual on Uniform Traffic Control Devices

FDM 11-50-20

TeOps 13-5-6

Bid items associated with this drawing:

ITEM NUMBER DESCRIPTION

UNIT

Bid items associated with this drawing in addition to those shown on sheet a:

NONE (see sheet a)

Standard Special Provisions associated with this drawing:

STSP NUMBER TITLE

NONE

Other SDDs associated with this drawing:

SDD 15C2 Traffic Control, Advanced Width Restriction Signing

SDD 15C11 Traffic Control, Channelizing Devices – Drums, Cones, Barricades and Vertical Panels

SDD 15D5 Traffic Control, Single Lane Crossover Entrance with Barrier

SDD 15D11 Traffic Control, Single Lane Crossover

SDD 15D21 Traffic Control, Intersection within Single Lane Closure

Design Notes:

POSSIBLE ADVANCE WARNING AREA MODIFICATIONS:

Refer to the Traffic Engineering, Operations and Safety Manual <u>TeOps 13-5-6</u> for additional speed reduction guidance.

POSSIBLE TRANSITION AREA MODIFICATIONS:

Temporary Marking, Raised Pavement Markers can be used along with any temporary marking to aid in delineation. Raised markers shall be used when the geometry is such that it is impossible to locate the lane closure with a minimum clear view of 1500 feet in front of lane closure drums. Raised markers should not be used if the lane closure is in place for less than seven (7) continuous days and nights. Consideration should also be given to the speed of the roadway and the traffic volumes. Raised markers shall be placed at 25 foot spacing when they are used as a solid lane line and at 50 foot spacing when they are used as a broken lane line.

Cover existing and permanent signs to prevent conflicts with detours or other traffic operations.

In lieu of covering signs, the contractor may choose to remove and reinstall them.

An overview detail specific to the project should be used in conjunction with this detail. Additional advance warning signs (beyond 1 mile in advance) should be shown on the overview sheet, if necessary.

Include Temporary Regulatory Speed Limit Reduction Standardized Special Provision (STSP). Miscellaneous quantities should include items and quantities for the additional signing for temporary regulatory speed zone modification as needed. Double mark signs to enhance visibility, i.e. inside and outside shoulder. Indicate location of temporary regulatory speed limit; beyond entrance ramp acceleration lanes, and other locations within the project limits where traffic is allowed to enter .

Contact Person:

Andrew Heidtke (414) 220-6802

UNIT

Traffic Control, Lane Closure, Dynamic Late Merge System 2 Lane

Reference:

Part VI from the Wisconsin Manual on Uniform Traffic Control Devices

FDM 11-50-20

TeOps 13-5-6

Bid items associated with this drawing:

ITEM NUMBER DESCRIPTION

Bid items associated with this drawing in addition to those shown on sheet a:

NONE (see sheet a)

Standard Special Provisions associated with this drawing:

<u>STSP</u> <u>NUMBER</u>	<u>TITLE</u>	
643.1100.S	Dynamic Late Merge System	.DAY

Other SDDs associated with this drawing:

<u>SDD 15C2</u>	Traffic Control, Advanced Width Restriction Signing
SDD 15C11	Traffic Control, Channelizing Devices – Drums, Cones, Barricades and Vertical Panels
SDD 15D5	Traffic Control, Single Lane Crossover Entrance with Barrier
SDD 15D11	Traffic Control, Single Lane Crossover
SDD 15D21	Traffic Control, Intersection within Single Lane Closure
SDD 15D40	Traffic Control, Lane Shift, Multi-Lane Divided or One-Way Road
SDD 15D41	Traffic Control, Lane Shift, Multi-Lane Divided

Design Notes:

LEFT LANE WORK:

For work requiring a left lane closure, use the Dynamic Late Merge System detail to close the right lane of traffic, followed by the Traffic Control Lane Shift detail to shift traffic to the right lane, allowing the left lane to be closed. Do not reverse the traffic control on the Dynamic Late Merge System detail for use on a left lane closure.

POSSIBLE ADVANCE WARNING AREA MODIFICATIONS:

Refer to the Traffic Engineering, Operations and Safety Manual <u>TeOps 13-5-6</u> for additional speed reduction guidance.

POSSIBLE TRANSITION AREA MODIFICATIONS:

Temporary Marking, Raised Pavement Markers can be used along with any temporary marking to aid in delineation. Raised markers shall be used when the geometry is such that it is impossible to locate the lane closure with a minimum clear view 1500 feet in front of lane closure drums. Raised markers should not be used if the lane closure is in place for less than seven (7) continuous days and nights. Consideration should also be given to the speed of the roadway and the traffic volumes. Raised markers shall be placed at 25 foot spacing when they are used as a solid lane line and at 50 foot spacing when they are used as a broken lane line.

Cover existing and permanent signs to prevent conflicts with detours or other traffic operations.

In lieu of covering signs, the contractor may choose to remove and reinstall them.

An overview detail specific to the project should be used in conjunction with this detail.

Miscellaneous quantities should include items and quantities for the additional signing for temporary regulatory speed zone modification as needed. Double mark signs to enhance visibility, i.e. inside and outside shoulder. Indicate location of temporary regulatory speed limit; beyond entrance ramp acceleration lanes, and other locations within the project limits where traffic is allowed to enter .

Contact Person:

Traffic Control, Lane Closure, Basic Traffic Queue Warning System

Reference:

Part VI from the Wisconsin Manual on Uniform Traffic Control Devices

FDM 11-50-20

TeOps 13-5-6

Bid items associated with this drawing:

ITEM NUMBER DESCRIPTION UNIT

Bid items associated with this drawing in addition to those shown on sheet a:

NONE (see sheet a)

Standard Special Provisions associated with this drawing:

STSP	NUMBER	TITLE

Other SDDs associated with this drawing:

SDD 15C2	Traffic Control, Advanced Width Restriction Signing
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SDD 15C11 Traffic Control, Channelizing Devices – Drums, Cones, Barricades and Vertical Panels

SDD 15D5 Traffic Control, Single Lane Crossover Entrance with Barrier

SDD 15D11 Traffic Control, Single Lane Crossover

SDD 15D21 Traffic Control, Intersection within Single Lane Closure

Design Notes:

If truck percentages are greater than 20%, consider placing FBS on both sides of the roadway.

POSSIBLE ADVANCE WARNING AREA MODIFICATIONS:

Refer to the Traffic Engineering, Operations and Safety Manual <u>TeOps 13-5-6</u> for additional speed reduction guidance.

POSSIBLE TRANSITION AREA MODIFICATIONS:

Temporary Marking, Raised Pavement Markers can be used along with any temporary marking to aid in delineation. Raised markers shall be used when the geometry is such that it is impossible to locate the lane closure with a minimum clear view 1500 feet in front of lane closure drums. Raised markers should not be used if the lane closure is in place for less than seven (7) continuous days and nights. Consideration should also be given to the speed of the roadway and the traffic volumes. Raised markers shall be placed at 25 foot spacing when they are used as a solid lane line and at 50 foot spacing when they are used as a broken lane line.

Cover existing and permanent signs to prevent conflicts with detours or other traffic operations.

In lieu of covering signs, the contractor may choose to remove and reinstall them.

An overview detail specific to the project should be used in conjunction with this detail.

Miscellaneous quantities should include items and quantities for the additional signing for temporary regulatory speed zone modification as needed. Double mark signs to enhance visibility, i.e. inside and outside shoulder. Indicate location of temporary regulatory speed limit; beyond entrance ramp acceleration lanes, and other locations within the project limits where traffic is allowed to enter.

Contact Person:

Erin Schwark (414)220-6803

Traffic Control, Lane Closure, Traffic Queue Warning System

Reference:

Part VI from the Wisconsin Manual on Uniform Traffic Control Devices

FDM 11-50-20

TeOps 13-5-6

Bid items associated with this drawing:

ITEM NUMBER DESCRIPTION UNIT

Bid items associated with this drawing in addition to those shown on sheet a:

NONE (see sheet a)

Standard Special Provisions associated with this drawing:

STSP	NUMBER	TITLE

643.1200.S Portable Automated Real-Time Traffic Queue Warning System.......DAY

Other SDDs associated with this drawing:

SDD 15C2	Traffic Control, Advanced Width Restriction Signing
SDD 15C11	Traffic Control, Channelizing Devices – Drums, Cones, Barricades and Vertical Panels

SDD 15D5 Traffic Control, Single Lane Crossover Entrance with Barrier

SDD 15D11 Traffic Control, Single Lane Crossover

SDD 15D21 Traffic Control, Intersection within Single Lane Closure

Design Notes:

POSSIBLE ADVANCE WARNING AREA MODIFICATIONS:

Refer to the Traffic Engineering, Operations and Safety Manual <u>TeOps 13-5-6</u> for additional speed reduction guidance.

POSSIBLE TRANSITION AREA MODIFICATIONS:

Temporary Marking, Raised Pavement Markers can be used along with any temporary marking to aid in delineation. Raised markers shall be used when the geometry is such that it is impossible to locate the lane closure with a minimum clear view 1500 feet in front of lane closure drums. Raised markers should not be used if the lane closure is in place for less than seven (7) continuous days and nights. Consideration should also be given to the speed of the roadway and the traffic volumes. Raised markers shall be placed at 25 foot spacing when they are used as a solid lane line and at 50 foot spacing when they are used as a broken lane line

Cover existing and permanent signs to prevent conflicts with detours or other traffic operations.

In lieu of covering signs, the contractor may choose to remove and reinstall them.

An overview detail specific to the project should be used in conjunction with this detail.

Miscellaneous quantities should include items and quantities for the additional signing for temporary regulatory speed zone modification as needed. Double mark signs to enhance visibility, i.e. inside and outside shoulder. Indicate location of temporary regulatory speed limit; beyond entrance ramp acceleration lanes, and other locations within the project limits where traffic is allowed to enter

Contact Person:

Erin Schwark (414)220-6803

Traffic Control, Advance Warning Temporary Rumble Strip Placement

Reference:

Part VI from the Wisconsin Manual on Uniform Traffic Control Devices

FDM 11-50-20

TeOps 13-5-6

Bid items associated with this drawing:

ITEM NUMBER DESCRIPTION UNIT

Bid items associated with this drawing in addition to those shown on sheet a:

NONE (see sheet a)

Standard Special Provisions associated with this drawing:

STSP NUMBER	<u>TITLE</u>
643.0320.S	Temporary Rumble Strips (Orange)LF

Other SDDs associated with this drawing:

SDD 15C2	Traffic Control, Advanced Width Restriction Signing
SDD 15C11	Traffic Control, Channelizing Devices – Drums, Cones, Barricades and Vertical Panels
SDD 15D5	Traffic Control, Single Lane Crossover Entrance with Barrier
SDD 15D11	Traffic Control, Single Lane Crossover
SDD 15D21	Traffic Control, Intersection within Single Lane Closure
SDD 15D40	Traffic Control, Lane Shift, Multi-Lane Divided or One-Way Road
SDD 15D41	Traffic Control, Lane Shift, Multi-Lane Divided

Design Notes:

POSSIBLE ADVANCE WARNING AREA MODIFICATIONS:

Refer to the Traffic Engineering, Operations and Safety Manual <u>TeOps 13-5-6</u> for additional speed reduction guidance.

POSSIBLE TRANSITION AREA MODIFICATIONS:

Temporary Marking, Raised Pavement Markers can be used along with any temporary marking to aid in delineation. Raised markers shall be used when the geometry is such that it is impossible to locate the lane closure with a minimum clear view 1500 feet in front of lane closure drums. Raised markers should not be used if the lane closure is in place for less than seven (7) continuous days and nights. Consideration should also be given to the speed of the roadway and the traffic volumes. Raised markers shall be placed at 25 foot spacing when they are used as a solid lane line and at 50 foot spacing when they are used as a broken lane line.

Cover existing and permanent signs to prevent conflicts with detours or other traffic operations.

In lieu of covering signs, the contractor may choose to remove and reinstall them.

An overview detail specific to the project should be used in conjunction with this detail.

Miscellaneous quantities should include items and quantities for the additional signing for temporary regulatory speed zone modification as needed. Double mark signs to enhance visibility, i.e. inside and outside shoulder. Indicate location of temporary regulatory speed limit; beyond entrance ramp acceleration lanes, and other locations within the project limits where traffic is allowed to enter.

Contact Person:

Erin Schwark (414)220-6803