

SINGLE LANE CLOSURE

GENERAL NOTES:

1. L = Taper Length
B = Buffer Length
X = Work Zone Sign Distance
See Index 102-600 for "L", "B", "X", and channelizing device spacing values.
2. On undivided highways the median signs as shown are to be omitted.
3. On limited access facilities, omit "Shoulder Closed Ahead" signs (W21-5a) and associated work zone sign spacing distances.
4. If the paved shoulder is less than 4' in width, omit the taper and channelizing devices from the paved shoulder.
5. Extend SWZ PCMS upstream, as needed, to ensure the first PCMS viewable to traffic is at least 1/2 mile in advance of expected traffic backup. If SWZ PCMS coverage is extended, also extend SWZ Vehicle Detector coverage to within 1/2 mile of the SWZ PCMS coverage.
6. For Limited Access facilities, spacing of SWZ Vehicle Detectors and SWZ PCMS may be adjusted due to actual field conditions as directed or approved by the Engineer. SWZ Vehicle Detector spacing should not be less than 1/4 Mile nor more than 1/2 mile. SWZ PCMS spacing should not be less than 1/2 mile nor more than 1 mile.

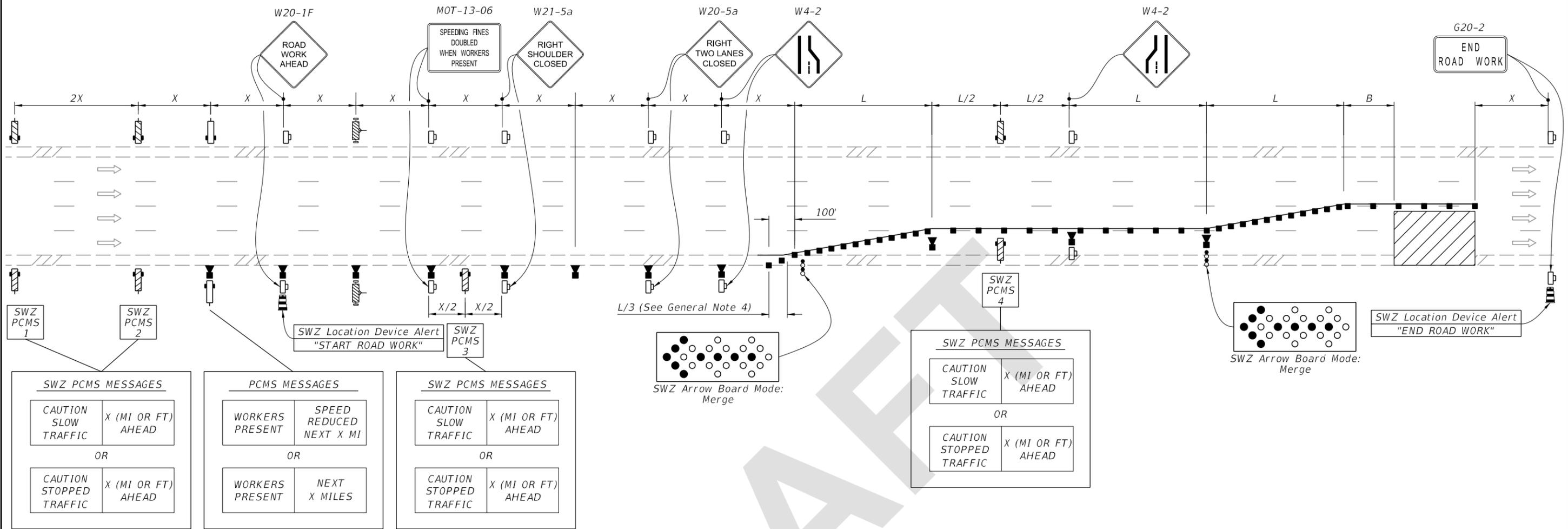
SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- SWZ Arrow Board
- Lane Identification and Direction of Traffic
- (5) SWZ Portable Changeable Message Sign (PCMS)
- (2) Portable Changeable Message Sign (PCMS)
- (2) Portable Variable Speed Limit (VSL) Sign
- (9) SWZ Vehicle Detector
- (2) SWZ Location Device

SWZ PORTABLE CHANGEABLE MESSAGE SIGN SYSTEM LOGIC		
Road Type	Condition	Message
Arterials and Collectors with Work Zone Speed ≤ 40 mph	35 MPH - 15 MPH	SLOW TRAFFIC
	< 15 MPH	STOPPED TRAFFIC
Arterials and Collectors with Work Zone Speed ≥ 45 mph	45 MPH - 20 MPH	SLOW TRAFFIC
	< 20 MPH	STOPPED TRAFFIC
Limited Access Roadways	55 MPH - 35 MPH	SLOW TRAFFIC
	< 35 MPH	STOPPED TRAFFIC

TABLE OF CONTENTS:	
Sheet	Description
1	Single Lane Closure
2	Double Lane Closure
3	Advance SWZ Detail for Triple Lane Closure and Lane Closure with Lane Shift
4	Triple Lane Closure
5	Lane Closure With Lane Shift

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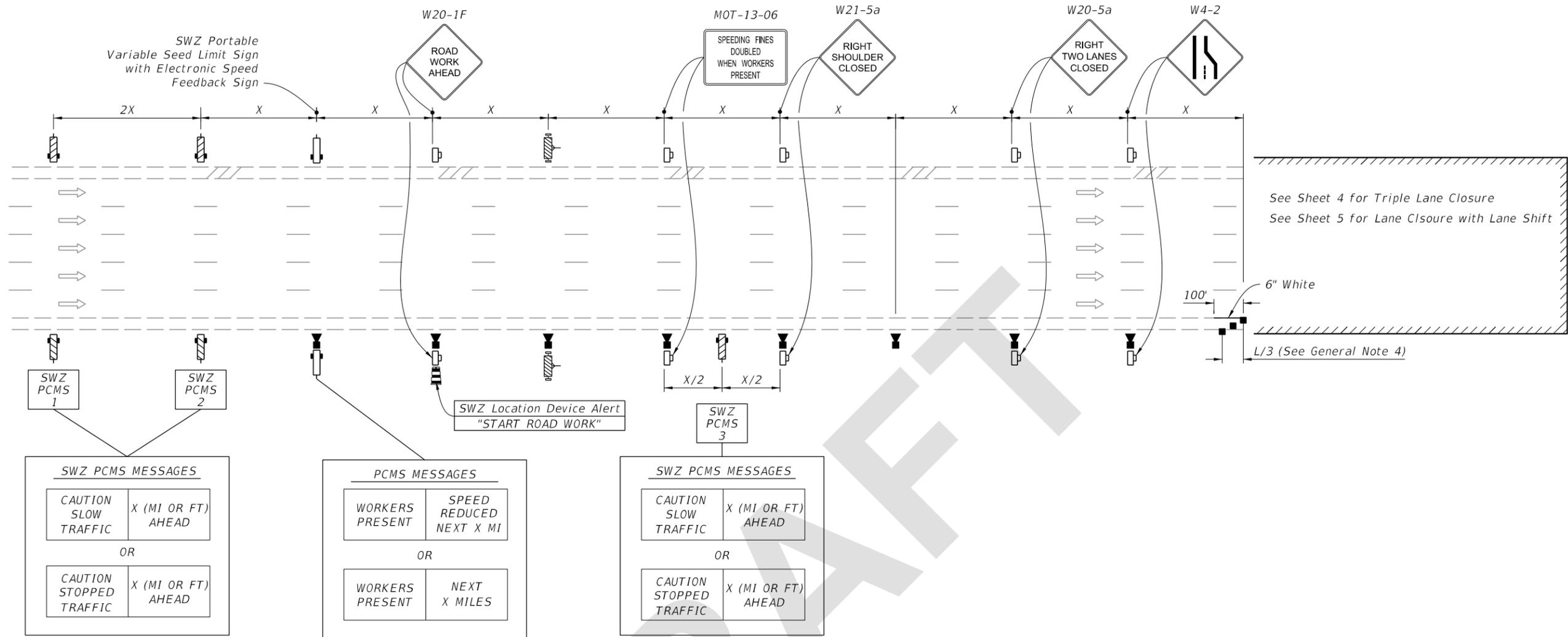
DOUBLE LANE CLOSURE

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- SWZ Arrow Board
- Lane Identification and Direction of Traffic
- (7) SWZ Portable Changeable Message Sign (PCMS)
- (2) Portable Changeable Message Sign (PCMS)
- (2) SWZ Portable Variable Speed Limit (VSL) Sign
- (11) SWZ Vehicle Detector
- (2) SWZ Location Device

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LAST REVISION xx/xx/22	REVISION	DESCRIPTION:		DEVELOPMENTAL STANDARD PLANS	DYNAMIC QUEUE DETECTION AND WARNING - LANE CLOSURE	INDEX D102-613b	SHEET 2 of 5
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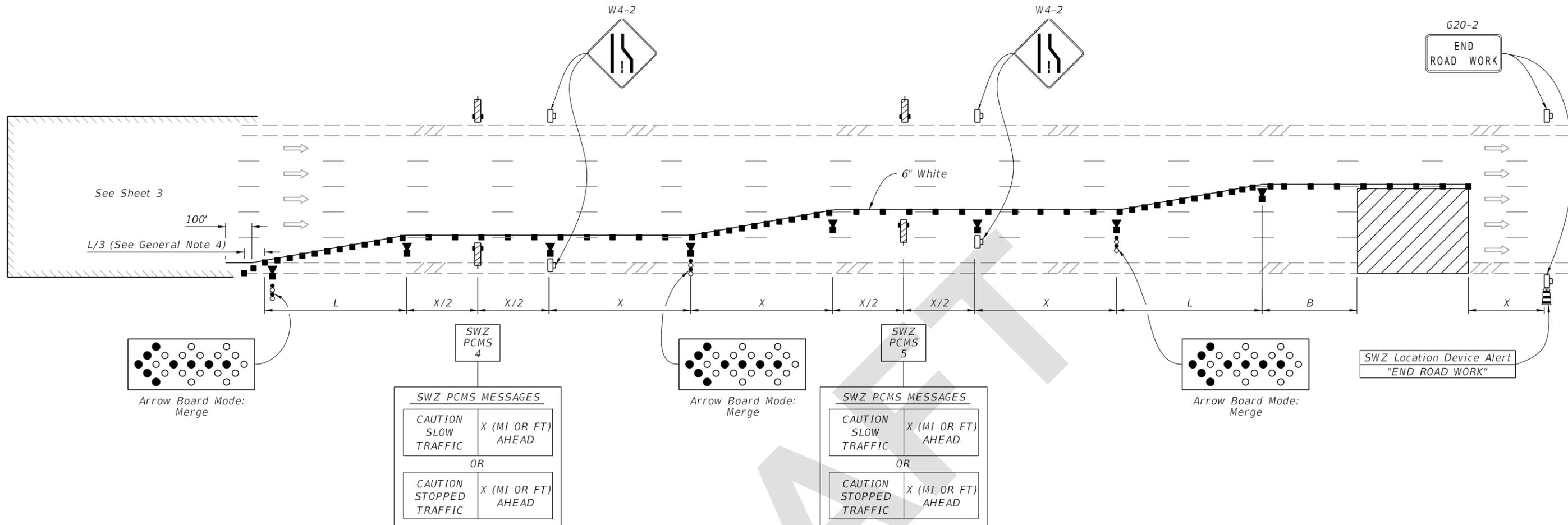
ADVANCE SWZ DETAIL FOR TRIPLE LANE CLOSURE AND LANE CLOSURE WITH SHIFT

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- SWZ Arrow Board
- Lane Identification and Direction of Traffic
- (5) SWZ Portable Changeable Message Sign (PCMS)
- (2) Portable Changeable Sign (PCMS)
- (2) SWZ Portable Variable Speed Limit (VSL) Sign
- (8) SWZ Vehicle Detector
- (1) SWZ Location Device

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LAST REVISION xx/xx/22	REVISION	DESCRIPTION:		DEVELOPMENTAL STANDARD PLANS	DYNAMIC QUEUE DETECTION AND WARNING - LANE CLOSURE	INDEX D102-613b	SHEET 3 of 5
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TRIPLE LANE CLOSURE

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- SWZ Arrow Board
- Lane Identification and Direction of Traffic
- (8) SWZ Portable Changeable Message Sign (PCMS)
- (8) SWZ Vehicle Detector
- (1) SWZ Location Device

SWZ PCMS 4

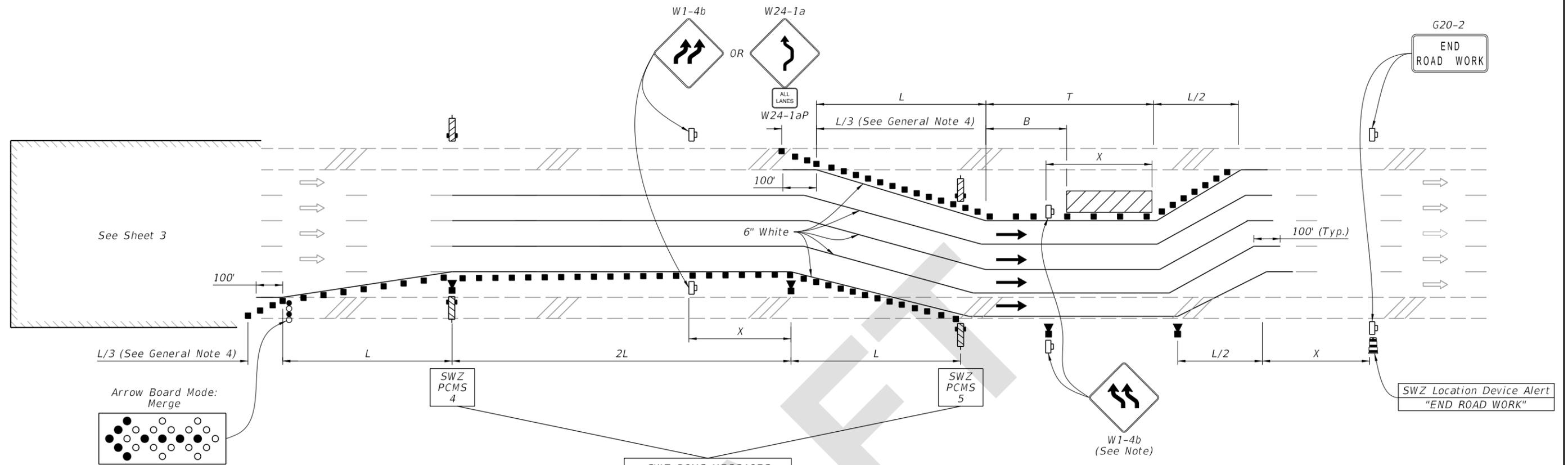
SWZ PCMS MESSAGES	
CAUTION SLOW TRAFFIC	X (MI OR FT) AHEAD
OR	
CAUTION STOPPED TRAFFIC	X (MI OR FT) AHEAD

SWZ PCMS 5

SWZ PCMS MESSAGES	
CAUTION SLOW TRAFFIC	X (MI OR FT) AHEAD
OR	
CAUTION STOPPED TRAFFIC	X (MI OR FT) AHEAD

SWZ Location Device Alert
"END ROAD WORK"

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LANE CLOSURE WITH LANE SHIFT

NOTE:

If the tangent distance "T" is less than 600', then use "Double Reverse Curve" signs (W24-1a) instead of the first pair of "Reverse Curve" signs (W1-4b) and omit the second pair of "Reverse Curve" signs.

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- SWZ Arrow Board
- Lane Identification and Direction of Traffic
- (4) SWZ Portable Changeable Message Sign (PCMS)
- (4) SWZ Vehicle Detector
- (1) SWZ Location Device

SWZ PCMS MESSAGES	
CAUTION SLOW TRAFFIC	X (MI OR FT) AHEAD
OR	
CAUTION STOPPED TRAFFIC	X (MI OR FT) AHEAD

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