
Index 102-615 Multilane, Work in Intersection

ORIGINATION

Date: May 26, 2020

Name: Derwood Sheppard & Olivia Townsend

Phone: 850-414-4334

Email: Derwood.Sheppard@dot.state.fl.us or Olivia.Townsend@dot.state.fl.us

COMMENTARY

Sheet 1: Revised Detail; Deleted 'Distance Between Signs', and 'Table II Taper Length -Merge' Tables (Moved to 102-600); Deleted Duration Notes and Conditions; Revised 'General Notes'; Changed Index Title.

Sheet 2: Added Index 102-616 Sheets 1 and 2 as Sheet 2; Revised Detail; Deleted 'Distance Between Signs', 'Table I Device Spacing', and 'Table II Taper Length -Merge' Tables (Moved to 102-600); Revised Notes; Changed Index Title.

Sheet 3: Added Index 102-616 Sheet 3 as Sheet 3; Revised Details; Deleted 'Distance Between Signs', 'Table I Device Spacing', and 'Table II Taper Length -Merge' Tables (Moved to 102-600); Revised Notes; Changed Index Title.

Sheet 4: Added Index 102-617 as Sheet 4; Revised Detail and Notes; Deleted 'Distance Between Signs', 'Table I Device Spacing', and 'Table II Taper Length -Merge' Tables (Moved to 102-600); Deleted Duration Notes and Conditions; Changed Index Title.

Sheet 5: Added Index 102-618 as Sheet 5; Revised Details and Notes; Deleted 'Table II Taper Length – Merge' Table (Moved to 102-600) and Conditions; Changed Index Title.

COMMENTS AND RESPONSES

BLACK = Internal Review Comments **RED** = Standard Plans Response

Name: Edgar Munoz

Date: August 17, 2020

COMMENTS:

1. 102-615 (2/5) The top detail shows the road with an existing shoulder. Since there is an existing shoulder, the Arrow Board should be at the beginning of the taper and not within the taper behind the barrier devices.

RESPONSE: *Agreed. For consistency, the arrow boards should be shown at the beginning of the taper for flush shoulder conditions.*

Change Made: *Revised placement of the arrow boards for consistency (i.e., to match Sheet 1 detail).*

2. 102-615 (2/5): The bottom detail shows a W4-2 (Lane Ends) sign when it should be a "Thru Traffic Merges Left" sign. The lane does not end. Traffic that wants to make a right must stay in this lane.

RESPONSE: *Agreed.*

Change Made: *Replaced the W4-2 sign with a W4-7 sign.*

3. 102-615 (3/5): A W4-7 "Thru Traffic Merges Left" is shown at the bottom detail. This is incorrect, should be merges "RIGHT". Why a W4-2 was not used here?

RESPONSE: *Agreed.*

Change Made: *Replaced the W4-7 sign with a W4-2 sign.*

Date: 8/20/2020

Name: K.C. Jones

Date: August 21, 2020

COMMENT: Distance from intersection where gap for left turn begin is to be noted.

RESPONSE: *Agreed. No specific distance is provided in the MUTCD, but guidance is giving to accommodate turning vehicles.*

Change Made: *A note was added; "Provide sufficient Queue Length so that left-turning vehicles do not block through lanes".*

Date: 8/22/2020

Name: Sharon Harris

Date: 8/21/2020

COMMENT: The duration provision has been deleted-this has been used by maintenance.

RESPONSE: *The "Duration" considerations have been revised and are now reflected in the Notes. See Note #5. While it is recognized that short-duration work may not warrant an extensive advanced warning area, signage, and devices of a long-term closure; the details included in this Index are complex and considered necessary for safe operations of a lane closure near/at intersections. However, after additional consideration an allowance for omitting "Arrow Boards" will be included for work operations of 60 minutes or less on roadways with a speed limit of 45 MPH or less.*

The Department will continue to monitor national research and best practices for short-duration work operations for possible future inclusion in the Standard Plans or Specifications.

Change Made: *Note #5 revised to allow for omitting arrow boards for work operations of 60 minutes or less on roadways with a speed limit of 45 MPH or less.*

Date: 8/22/2020

Name: D5

Date: August 21, 2020

COMMENTS:

1. Sheets 2 & 3 Notes: In addition to omitting merge symbol sign for auxiliary lane work only, should omit arrow board to prevent confusion for need to merge. May be encompassed within “omit the merge symbol signs” statement but not clear

RESPONSE: *Agreed*

Change Made: *Clarified notes to include omitting the Arrow Board.*

2. Sheet 5, Bottom Figure: “L” distance ($S^2/5$) fraction not legible unless zoomed in significantly. Consider alternative text or equation size

RESPONSE: *Agreed*








Change Made: *Changed text to make legible.*

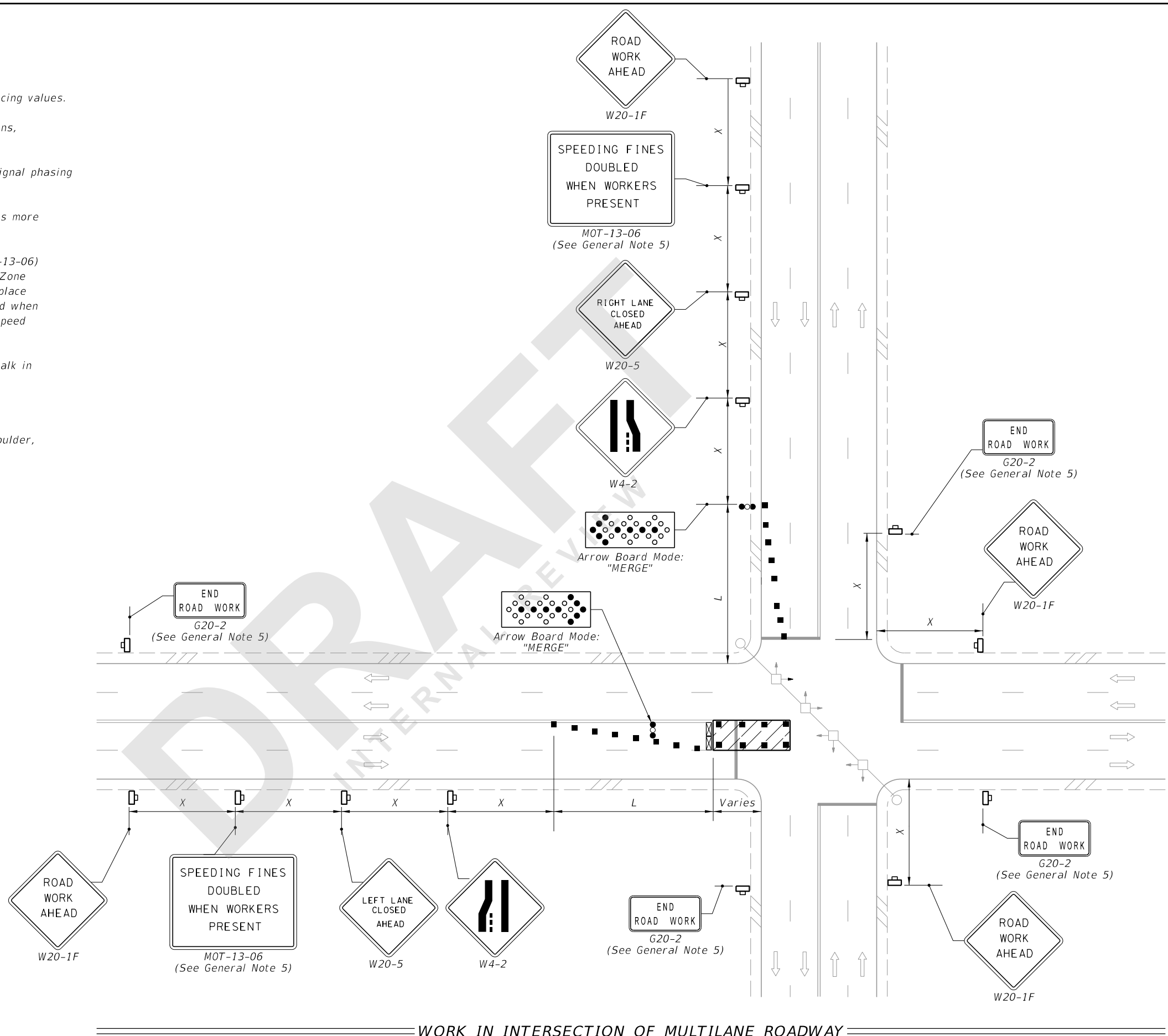
Date: 8/23/2020

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. If vehicles in a parking zone block the line of sight to TCZ signs, locate and post mount signs in accordance with Index 700-101.
3. District Traffic Operations Engineer must approve temporary signal phasing modifications prior to beginning of work.
4. Use temporary "STOP" sign (R1-1) where the existing stop bar is more than 30' from the taper, remove or cover existing sign.
5. The "Speeding Fines Doubled When Workers Present" sign (MOT-13-06) and "End Road Work" Sign (G20-2), along with associated Work Zone Sign Distances, may be omitted when the work zone will be in place for 24 hours or less. Additionally, arrow boards may be omitted when the work zone will be in place for 60 minutes or less and the speed limit is 45 mph or less.
6. If the work area extends across a crosswalk, close the crosswalk in accordance with Index 102-660."
7. Dual signs are required for divided roadways.
8. If the work encroaches on a marked bicycle lane or rideable shoulder, close the lane or shoulder in accordance with the Plans.

SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Type III Barricade
-  Arrow Board
-  Work Zone Sign
-  Stop Bar
-  Lane Identification and Direction of Traffic



WORK IN INTERSECTION OF MULTILANE ROADWAY

8/28/2020 6:13:55 AM

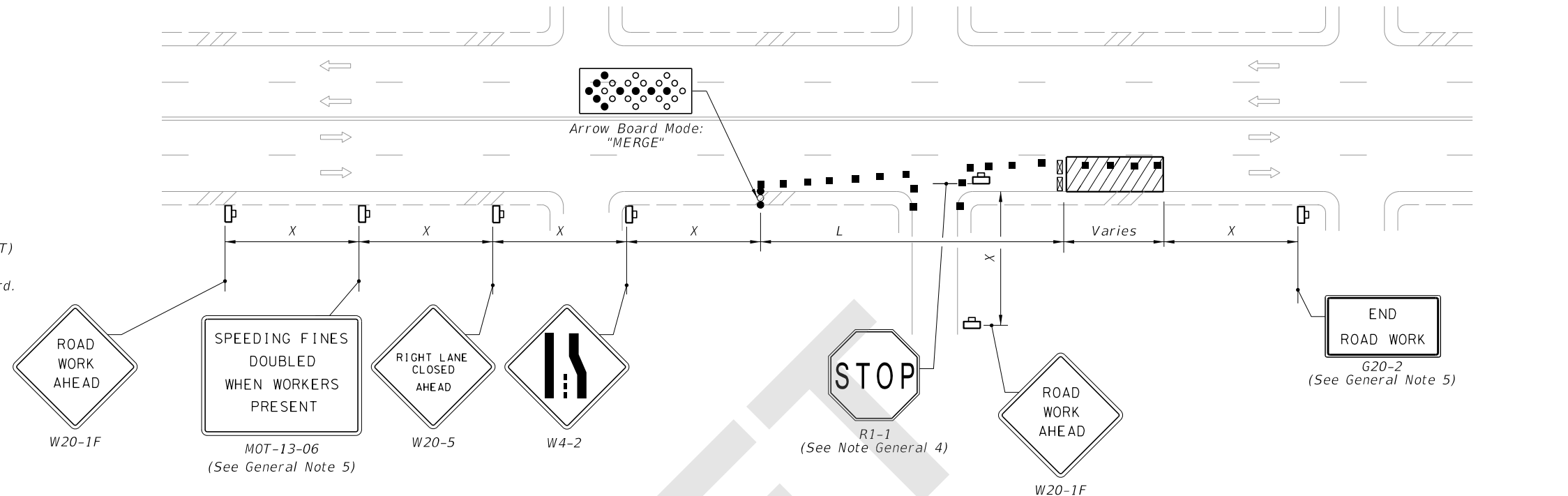
LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, INTERSECTION WORK	INDEX 102-615	SHEET 1 of 5
---------------------------	----------	--------------	--	--------------------------------------	------------------	-----------------

NOTE:

Confine work operations to the following lane or lane combinations:

- a. Outside travel lane
- b. Outside auxiliary lane
- c. Outside travel lane and adjoining auxiliary lane
- d. Inside travel lane
- e. Inside auxiliary lane
- f. Inside travel lane and adjoining auxiliary lane

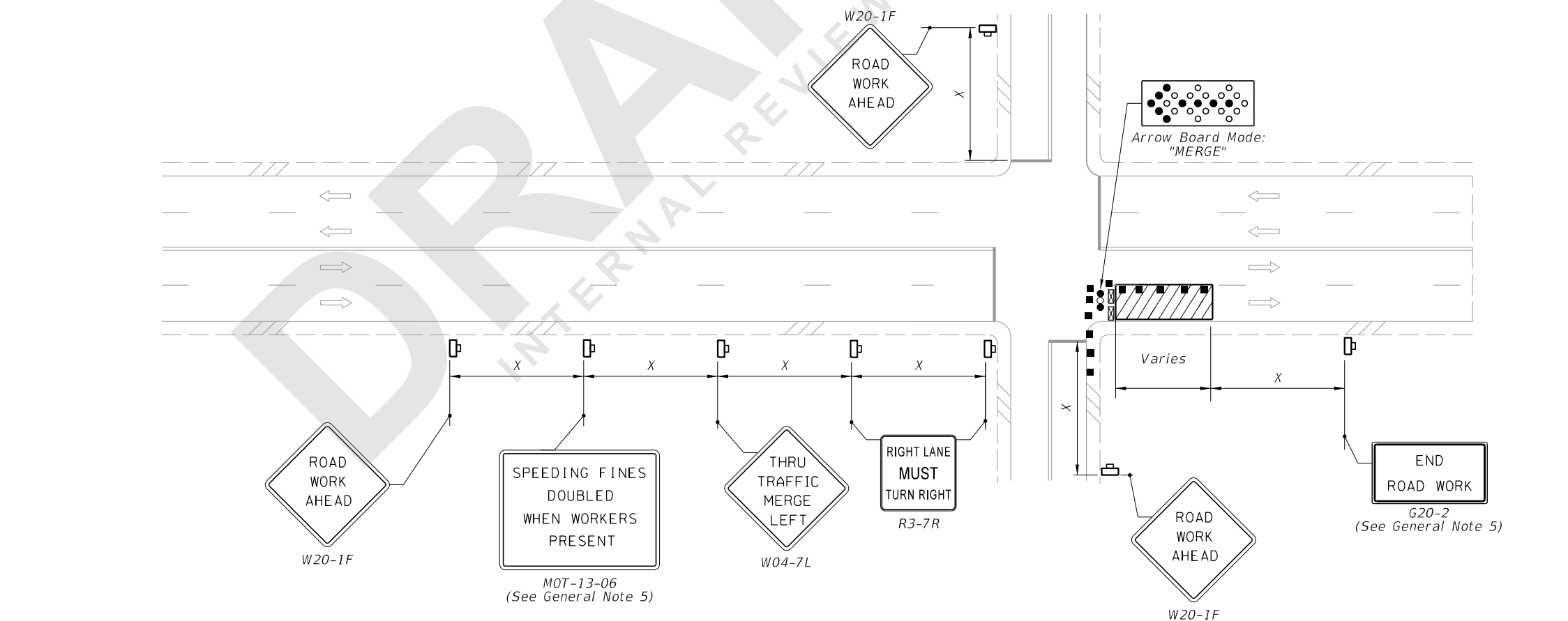
If the work area is confined to an auxiliary lane, the work area must be barricaded. Replace the RIGHT (LEFT) LANE CLOSED AHEAD signs with ROAD WORK AHEAD signs, and omit the merge symbol signs and arrow board.



SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Type III Barricade
- Arrow Board
- Work Zone Sign
- Stop Bar
- Lane Identification and Direction of Traffic

RIGHT LANE CLOSED ON FAR SIDE OF MINOR SIDE STREET



RIGHT LANE CLOSED ON FAR SIDE OF INTERSECTION WITH SIGNIFICANT RIGHT TURNING MOVEMENTS

8/28/2020 6:13:57 AM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, INTERSECTION WORK	INDEX 102-615	SHEET 2 of 5
---------------------------	----------	--------------	----------------------------------	--------------------------------------	------------------	-----------------

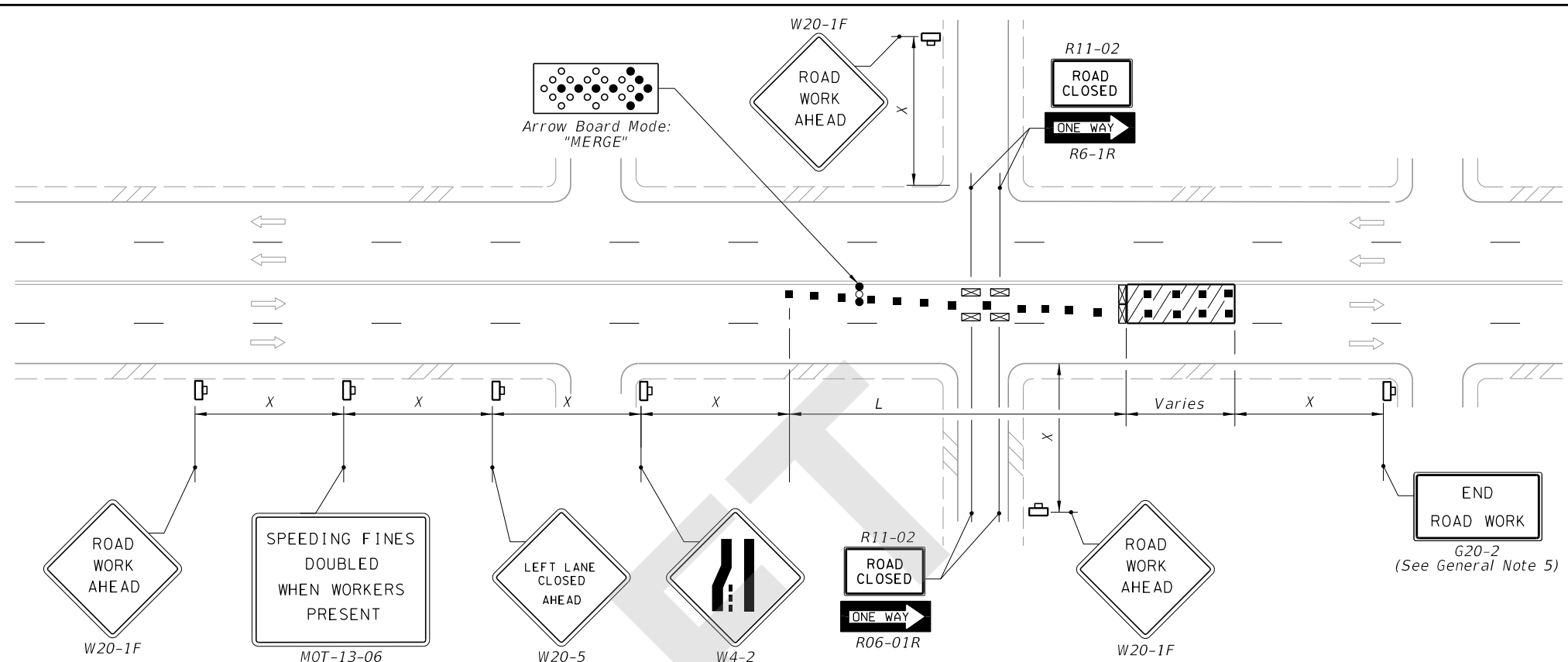
NOTE:

1. Confine work operations to the following lane or lane combinations:

- a. Outside travel lane
- b. Outside auxiliary lane
- c. Outside travel lane and adjoining auxiliary lane
- d. Inside travel lane
- e. Inside auxiliary lane
- f. Inside travel lane and adjoining auxiliary lane

If the work area is confined to an auxiliary lane, the work area must be barricaded. Replace the RIGHT (LEFT) LANE CLOSED AHEAD signs with ROAD WORK AHEAD signs, and omit the merge symbol signs and arrow board.

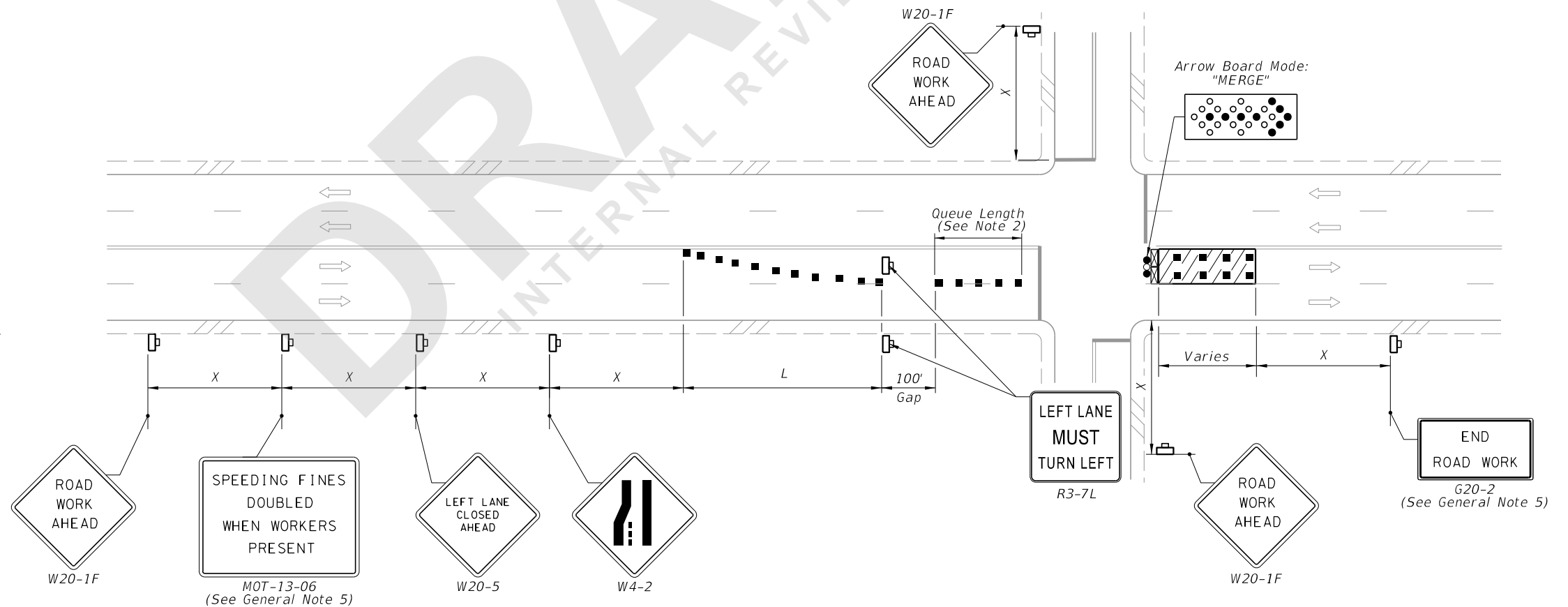
2. Provide sufficient Queue Length so that left-turning vehicles do not block through lanes.



LEFT LANE CLOSED ON FAR SIDE OF MINOR SIDE STREET - RESTRICTED TURNING MOVEMENTS

SYMBOLS:

- Work Area
- Channelizing Device (See Index 102-600)
- Type III Barricade
- Arrow Board
- Work Zone Sign
- Stop Bar
- Lane Identification and Direction of Traffic



LEFT LANE CLOSED ON FAR SIDE OF INTERSECTION TURNING MOVEMENTS ALLOWED










8/28/2020 6:13:58 AM

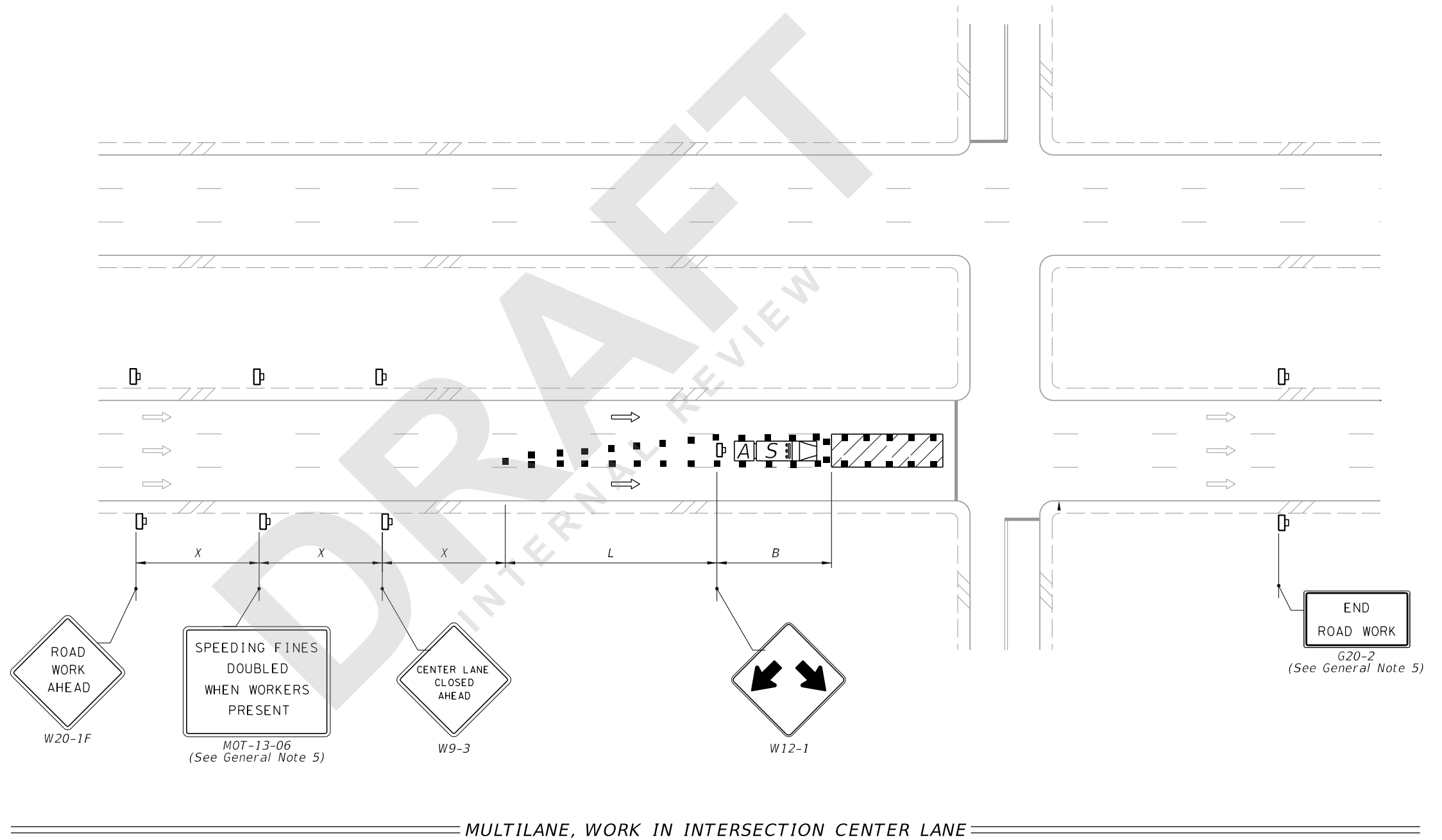
LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, INTERSECTION WORK	INDEX 102-615	SHEET 3 of 5
---------------------------	----------	--------------	----------------------------------	--------------------------------------	------------------	-----------------

NOTE:


1. Confine work operations to one center travel lane and leave the adjacent travel lanes open to traffic.
2. Ensure that the merging taper only directs vehicular traffic into either the right or left lane.

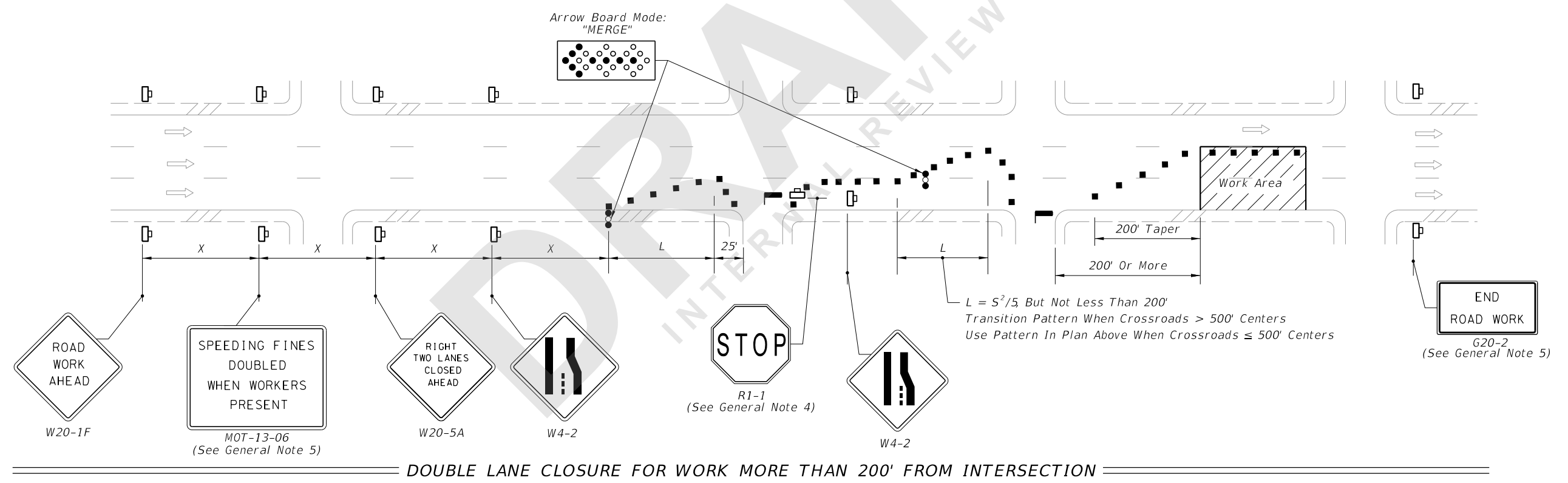
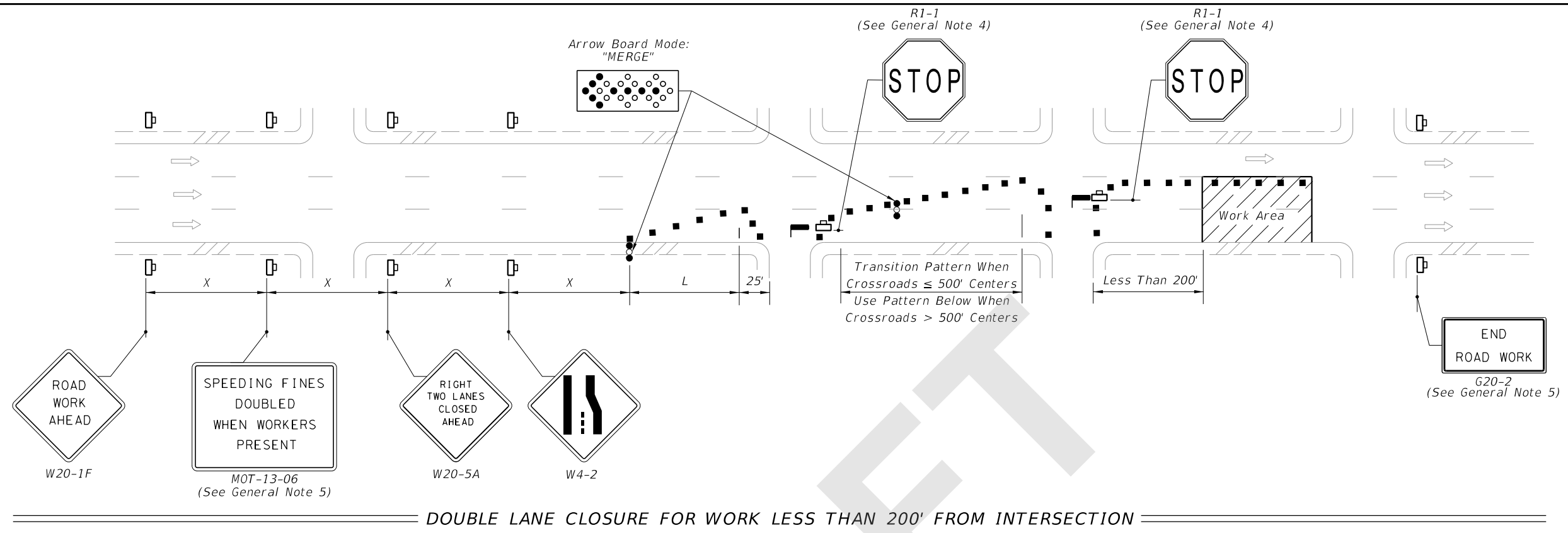
SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Type III Barricade
-  Arrow Board
-  Work Zone Sign
-  Stop Bar
-  Lane Identification and Direction of Traffic
-  Truck/Trailer Mounted Attenuator (TMA)
-  Shadow (S) Vehicle With Warning Lights And Arrow Board



8/28/2020 6:13:59 AM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:	 FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, INTERSECTION WORK	INDEX 102-615	SHEET 4 of 5
---------------------------	----------	--------------	--	--------------------------------------	------------------	-----------------



- SYMBOLS:**
- Work Area
 - Channelizing Device (See Index 102-600)
 - Arrow Board
 - Work Zone Sign
 - Stop Bar
 - Lane Identification and Direction of Traffic

8/28/2020 6:14:01 AM

LAST REVISION 11/01/20	REVISION	DESCRIPTION:		FY 2021-22 STANDARD PLANS	MULTILANE ROADWAY, INTERSECTION WORK	INDEX 102-615	SHEET 5 of 5
---------------------------	----------	--------------	--	------------------------------	--------------------------------------	------------------	-----------------