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## ORIGINATION FORM

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Proposed Revisions to a Standard Plans Index  
(Please provide all information — Incomplete forms will be returned)

**Contact Information:**

Date: May 26, 2020  
Originator: Derwood Sheppard  
Phone: (850) 414-4334  
Email: derwood.sheppard@dot.state.fl.us

**Standard Plans:**

Index Number: 102-620  
Sheet Number (s): 2  
Index Title: Multilane, Divided, Temporary Diversion Connection

**Summary of the changes:**

Sheet 1: Updated Notes; Deleted Scheme Applications and Conditions; Added "Temporary Diversion for Divided Roadways" Detail (Moved from Sheet 2); consolidated details for all speeds; Renamed Index.

Old Sheet 2: Revised and Renamed 'Scheme 1' to 'Temporary Diversion for Divided Roadways with Work Zone Speeds >50 MPH' and Moved to Sheet 1; Consolidated 'Scheme 2' to with detail on Sheet 1; Deleted 'Scheme 3' and 'Buffer Length' Table; Renamed Index

New Sheet 2: Added Index 102-621 as New Sheet 2; Revised Detail; Consolidated Notes and Moved to Sheet 1; Deleted 'Table II Taper Length - Merge' and Conditions; Renamed Index.

**Commentary / Background:**

**Other Affected Offices / Documents:** (Provide name of person contacted)

Yes	No	
<input type="checkbox"/>	<input type="checkbox"/>	Other Standard Plans –
<input type="checkbox"/>	<input type="checkbox"/>	FDOT Design Manual –
<input type="checkbox"/>	<input type="checkbox"/>	Basis of Estimates Manual –
<input type="checkbox"/>	<input type="checkbox"/>	Standard Specifications –
<input type="checkbox"/>	<input type="checkbox"/>	Approved Product List –
<input type="checkbox"/>	<input type="checkbox"/>	Construction –
<input type="checkbox"/>	<input type="checkbox"/>	Maintenance –

**Origination Package Includes:**

(Email or hand deliver package to Rick Jenkins)

Yes	N/A	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Redline Mark-ups
<input type="checkbox"/>	<input type="checkbox"/>	Proposed Standard Plan Instruction (SPI)
<input type="checkbox"/>	<input type="checkbox"/>	Revised SPI
<input type="checkbox"/>	<input type="checkbox"/>	Other Support Documents

**Implementation:**

<input type="checkbox"/>	Design Bulletin (Interim)
<input type="checkbox"/>	DCE Memo
<input type="checkbox"/>	Program Mgmt. Bulletin
<input checked="" type="checkbox"/>	FY-Standard Plans (Next Release)

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Contact the Roadway Design Office for assistance in completing this form

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




11/01/20

2021-22

MULTILANE ROADWAY, TEMPORARY DIVERSION

LAST REVISION 11/01/17	DESCRIPTION:	 FY 2020-21 STANDARD PLANS	<del>MULTILANE, DIVIDED TEMPORARY DIVERSION CONNECTION</del>	INDEX 102-620	SHEET 1 of 2
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**SYMBOLS**

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Advance Warning Arrow Board
-  Lane Identification + Direction of Traffic

**ADDED "TEMPORARY DIVERSION FOR DIVIDED ROADWAYS WITH WORK ZONE SPEEDS 50 MPH OR GREATER" DETAIL**

**GENERAL NOTES**

- ~~1. TWO-WAY TRAFFIC sign(s) shall be repeated every 1/4 mile in each direction, throughout the tangent distance (T).~~
2.  $L \text{ (min.)} = \frac{WS^2}{60}$  for speeds  $\geq 45$  mph  
 $= \text{---}$  for speeds  $\leq 40$  mph  
 Where:  
 W= Width of lateral transition in feet.  
 S= Posted speed limit (mph).
- ~~3. Where the tangent distance (T) exceeds 250', spacing between Type I or II barricades or vertical panels or drums may be increased to 100' within the limits of the tangent, or post mounted delineators at 50' centers may be substituted for barricades, vertical panels or drums.~~
- ~~4. All existing pavement markings within the realignment which conflict with the revised traffic pattern are to be removed and removable pavement markings used for making new edge lines.~~
- ~~5. When side roads, cross roads or interchanges intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ indexes.~~
- ~~6. For general TCZ requirements and additional information, refer to Index 102-600.~~

UPDATED NOTES

DELETED - MOVED TO 102-600

**SCHEME APPLICATIONS**

- ~~Scheme 1: Restricted Construction Limits.~~
- ~~Scheme 2: Unrestricted Construction Limits And Light To Moderate Traffic.~~
- ~~Scheme 3: Unrestricted Construction Limits And Moderate To Heavy Traffic.~~
- ~~Where: Construction Limits Are The Outward Beginning Or Ending Of Lane Reductions.~~
- ~~Where: Unless A Specific Scheme Is Called For In The Plans, Scheme Selection Shall Be At The Contractor's Option And As Approved By The Engineer.~~

**CONDITIONS**

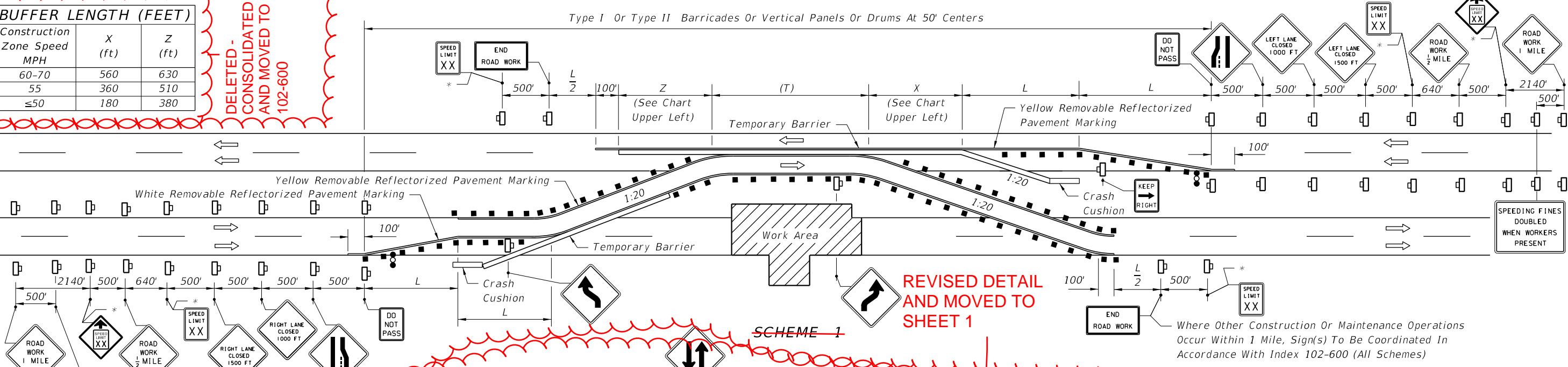
~~WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES REQUIRE THE CLOSURE OF ONE ROADWAY AND THE OPPOSING ROADWAY IS CONVERTED TO TEMPORARY TWO-WAY TRAVEL BY WAY OF CROSSOVERS.~~

**BUFFER LENGTH (FEET)**

Construction Zone Speed MPH	X (ft)	Z (ft)
60-70	560	630
55	360	510
≤50	180	380

**DELETED - CONSOLIDATED AND MOVED TO 102-600**

Type I Or Type II Barricades Or Vertical Panels Or Drums At 50' Centers

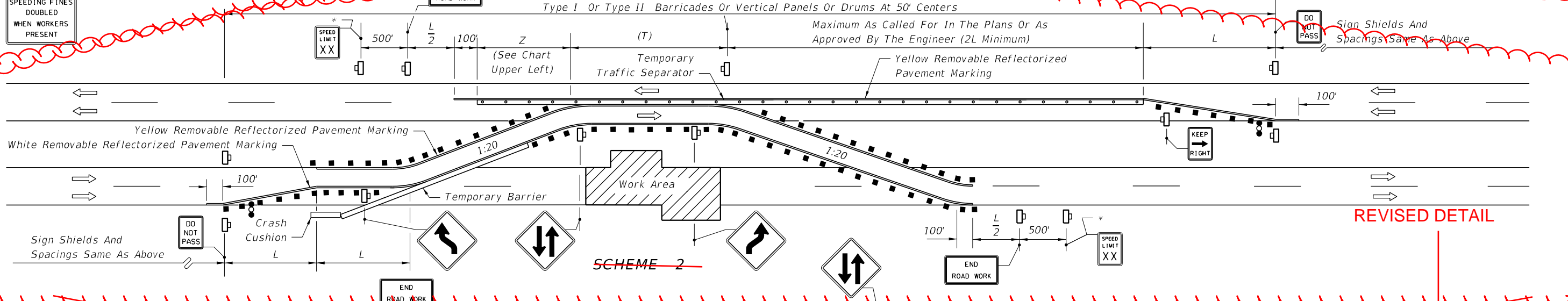


**REVISOR  
REMOVED  
AND MOVED TO  
SHEET 1**

~~SCHEME 1~~

Where Other Construction Or Maintenance Operations Occur Within 1 Mile, Sign(s) To Be Coordinated In Accordance With Index 102-600 (All Schemes)

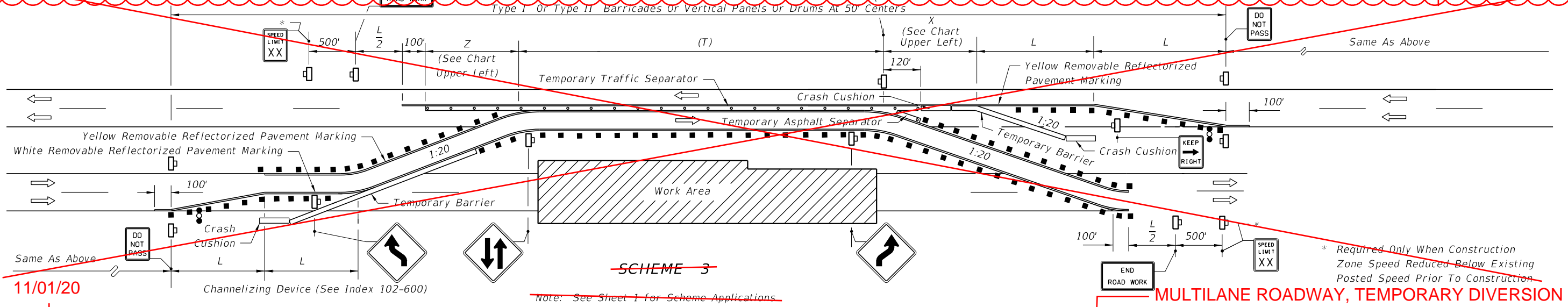
Type I Or Type II Barricades Or Vertical Panels Or Drums At 50' Centers



**REVISOR**

~~SCHEME 2~~

Type I Or Type II Barricades Or Vertical Panels Or Drums At 50' Centers



~~SCHEME 3~~

Note: See Sheet 1 for Scheme Applications.

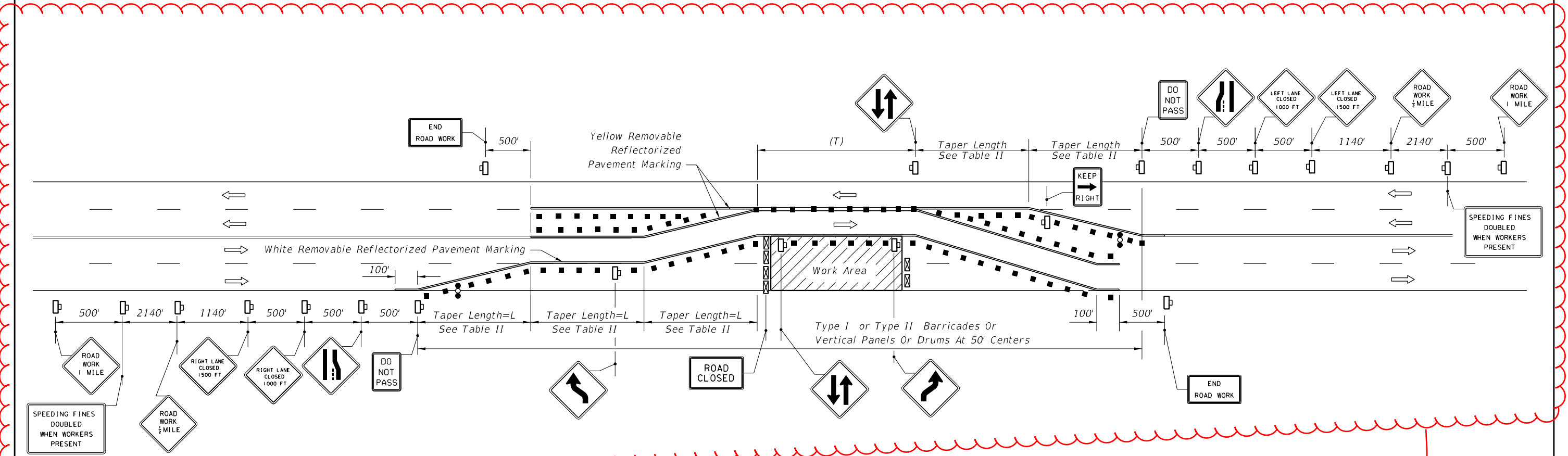
\* Required Only When Construction Zone Speed Reduced Below Existing Posted Speed Prior To Construction

**MULTILANE ROADWAY, TEMPORARY DIVERSION**

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LAST REVISION 11/01/17	DESCRIPTION:	FDOT FY 2020-21 STANDARD PLANS	2021-22	MULTILANE, DIVIDED TEMPORARY DIVERSION CONNECTION	INDEX 102-620	SHEET 2 of 2
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CONSOLIDATED AND MOVED TO SHEET 1

REVISED DETAIL

**GENERAL NOTES**

1. TWO-WAY TRAFFIC signs shall be repeated every 1/4 mile in each direction, through the tangent distance (T).
2. When paved shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travel way. See Index 102-612 for shoulder taper formulas.
3. Where the tangent distance (T) exceeds 250', spacing between cones or tubular markers may be increased to 50' or spacing between Type I or Type II barricades or vertical panels or drums may be increased to 100' within the limits of the tangent.
4. This index does not apply when work is being performed in the middle lane(s) of a six or more lane highway. Special maintenance of traffic details will be required.
5. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
6. For general TCZ requirements and additional information, refer to Index 102-600.

**Table II  
Taper Length - Merge  
(12' Lateral Transition)**

Speed (mph)	L (ft.)	Notes (Merge)
25	125	$L = \frac{WS^2}{60}$
30	180	
35	245	
40	320	$L = WS$
45	540	
50	600	
55	660	
60	720	
65	780	
70	840	

DELETED - CONSOLIDATED AND MOVED TO 102-600

For lateral transitions other than 12' use formula for L shown in the notes column. Where:  
 L = Length of taper in feet  
 W = Width of lateral transition in feet  
 S = Posted speed limit (mph)

**CONDITIONS**

~~WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES REQUIRE THE CLOSURE OF THE LANES IN ONE DIRECTION AND A DIVERSION IS PROVIDED BY UTILIZING ONE LANE OF THE OPPOSING TRAFFIC LANES.~~

MULTILANE ROADWAY, TEMPORARY DIVERSION

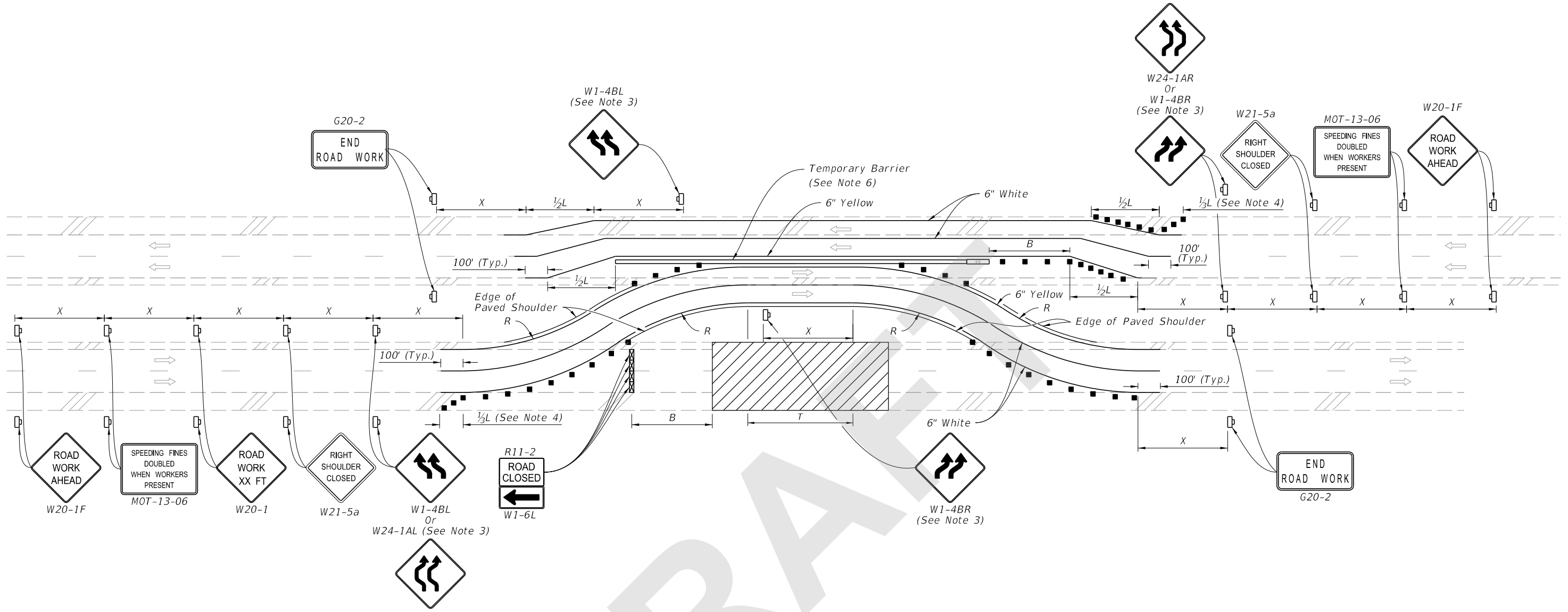
**SYMBOLS**

- Work Area
- Channelizing Device (See Index 102-600)
- Type III Barricade
- Work Zone Sign
- Advance Warning Arrow Board
- Lane Identification + Direction of Traffic

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2021-22



TEMPORARY DIVERSION FOR DIVIDED ROADWAYS

**SYMBOLS:**

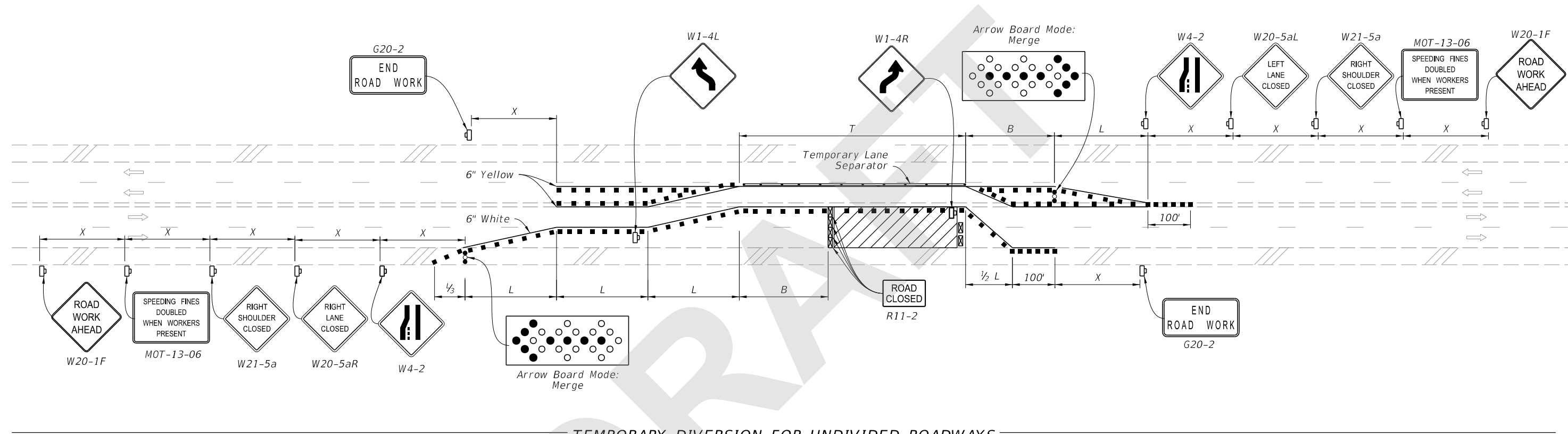
- Work Area
- Channelizing Device (See Index 102-600)
- Work Zone Sign
- Lane Identification and Direction of Traffic
- Crash Cushion
- Type III Barricade

**NOTES:**

1. This Index applies to multilane roadways, except with undivided roadways with 6 or more lanes, where the work requires the closure of the lanes in one direction and diversion is provided to convert the opposing traffic lanes to temporary two-way travel.
2. L=Taper Length  
B=Buffer Length  
X=Work Zone Sign Distance  
R=Radius of Curve  
See Index 102-600 for "L", "B", "X", channelizing device spacing values. See Plans for "R" values.
3. For undivided roadways with a tangent distance "T" less than 600', 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.
4. If the paved shoulder is less than 4' in width, omit the taper and channelizing devices shown on the paved shoulder.
5. If the work encroaches on a marked bicycle lane or rideable shoulder, maintain a 5' minimum outside paved shoulder through the diversion. If the minimum shoulder width can not be provided, close the lane or shoulder in accordance with the Plans.
6. Temporary Lane Separator may be used in lieu of Temporary Barrier for speed limits of 45 mph or less.

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TEMPORARY DIVERSION FOR UNDIVIDED ROADWAYS

**SYMBOLS:**

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

**NOTE:**

Temporary pavement markings may be omitted when the work zone is in place for 3 days or less.

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