
Index 102-602

Two-Lane, Two-Way, Work on Shoulder

ORIGINATION

Date: 8/21/2020

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COMMENTARY

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

Sheet 2: Added Index 102-612 as New Sheet 2; Revised Detail; Deleted 'Distance Between Signs', 'Table I Device Spacing Table', and 'Table II Taper Length - Shoulder' Tables (Moved to 102-600); Deleted Duration Notes and Conditions; Revised 'General Notes'; Changed Index Title.

COMMENTS AND RESPONSES

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

Name: Edgar Munoz

Date: 8/17/2020

COMMENT:

1. 102-602: Label indicates the minimum lane width could be reduced to 10' wide. This is the minimum for MOT, but it always depends on the engineer's consideration for truck traffic. A note should be added to consider the truck traffic.

RESPONSE: *Worksite Traffic Supervisor and Engineer always have the ability to adjust or require changes to the TTC based on site/traffic conditions. The 10' lane width allowance is for roadways with ≤ 45 MPH only.*

No Change

2. 102-602 (1/2): Why note No. 9 indicates to omit "Shoulder Closed" sign when work is at the median? If a shoulder is present and it will be closed.

RESPONSE: *"Shoulder Closed" signs are optional, per the MUTCD, and not previously required in the Standard Plans. However, it is now being added in an effort to give better advanced notice to bicyclist and pedestrians that the shoulder is closed in the work zone. Typically, bicyclist and pedestrians do not use the median shoulder.*

No Change

Date: 8/19/2020

Name: Lance Grace

Date: 8/11/2020

COMMENT: The white stripe can be eliminated if less than 24 hours per note 7. I'm not sure if this is a new requirement per MUTCD. I don't support placing the white stripe. It will be an eradication issue if painted on older pavement. Resurfacing for this reason is cost prohibitive.

Follow-up (8/14/2020): I'd like to see it as an option on a significant project where the pavement is going to be replaced or has resurfacing included within the project scope.

RESPONSE: *The requirement is in addition to the MUTCD requirements/options (i.e., there is no requirement or guidance to include the stripe). However, the concern is acknowledged and for consistency with other Indexes the option to omit the stripe will be extended to durations of 3 days or less.*

Change Made: *Temporary striping note revised from 24 hrs to 3 days.*

Date: 8/19/2020

Name: Sharon Harris

Date: 8/21/2020

COMMENT:

1. Sheet 1 and 2: No detail is provided for shoulder work with greater than 45 mph speed- this work situation occurs in maintenance often.

RESPONSE: *Only the "Less Than 2' From Traveled Way" details are limited to ≤ 45 MPH speeds. The "Shoulder Work Between 2' and 15' From The Traveled Way" details can be used at any speeds. See Note #5 for additional information for roadways with work zone speeds > 45 MPH.*

No Change

2. Sheet 2: 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 Notes #3 and #6. Specification 102 requires all vehicles in the work area to have SAE J595, Class 2 warning lights, regardless of duration or condition. For incidental work only a "Road Work Ahead" would be required.*

No Change

Date: 8/22/2020

Name: Jeffery Cicerello

Date: 8/21/2020

COMMENT:

1. Sheet 1 of 2: what is the intent of Note 8 which refers to the Plans?

RESPONSE: *Consideration for bicycle accommodations should be shown in the Plans and not left to the Contractor. Therefore, the TTC Plans should address what accommodations are provided (i.e., Use: Index 102-661, project specific details, or Do-Nothing).*

No Change

2. Tables with taper lengths and device spacing should remain in all index files. There is an easy way to do this in CADD to ensure 100% consistency. This has been brought up in workgroups and the Districts all agree it should be in every index. Comment applicable for all indices.

RESPONSE: *Comment is acknowledged, and a quick reference sheet will be provided. However, Index 102-600 applies to all Standard TCC Applications in the 102 Series, and as such would frequently need to be referenced for more than just the Tables. This is not unlike other aspects of Plans/Standard Plans (e.g., Soil Surveys, Data Tables, etc.)*

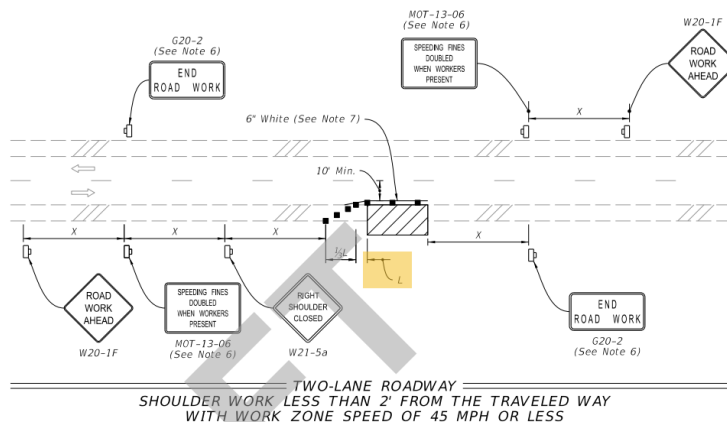
Change Made: *A printable Quick Reference Sheet will be made available on the Standard Plans website.*

3. 6" white edgeline requirement changing from 3 days to 24 hours should not be done. What is the reasoning for the change? Comment applicable for all indices.

RESPONSE: *After further consideration, Agreed.*

Change Made: *Temporary striping note revised from 24 hrs to 3 days.*

4. Seems to be an errant label of L in the below detail.



RESPONSE: *Agreed, the intent was to provide a buffer space.*

Change Made: *Buffer space (B) added to details.*

5. The note stating "When a side road intersections the highway..." was moved into the specifications. However, the wording in the specifications seems a bit weak and seems to only apply to intersection operations.

RESPONSE: *The note was deleted because it is not needed. The Standard TTC Applications included in the 102 Series are rudimentary and often have to be used in combination. Leaving the note on this Index implies that other Indexes without the Note should be treated differently, which is not correct.*





No Change

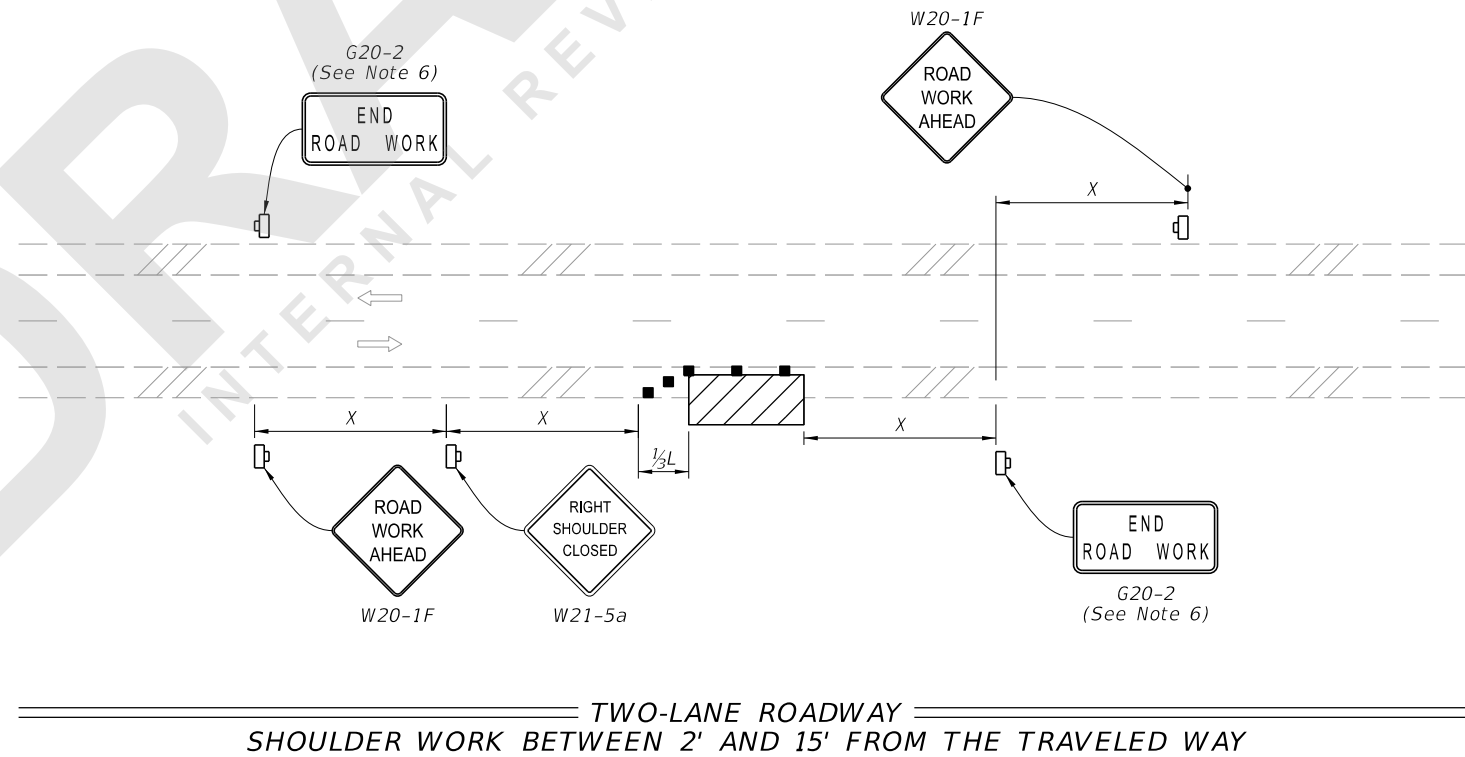
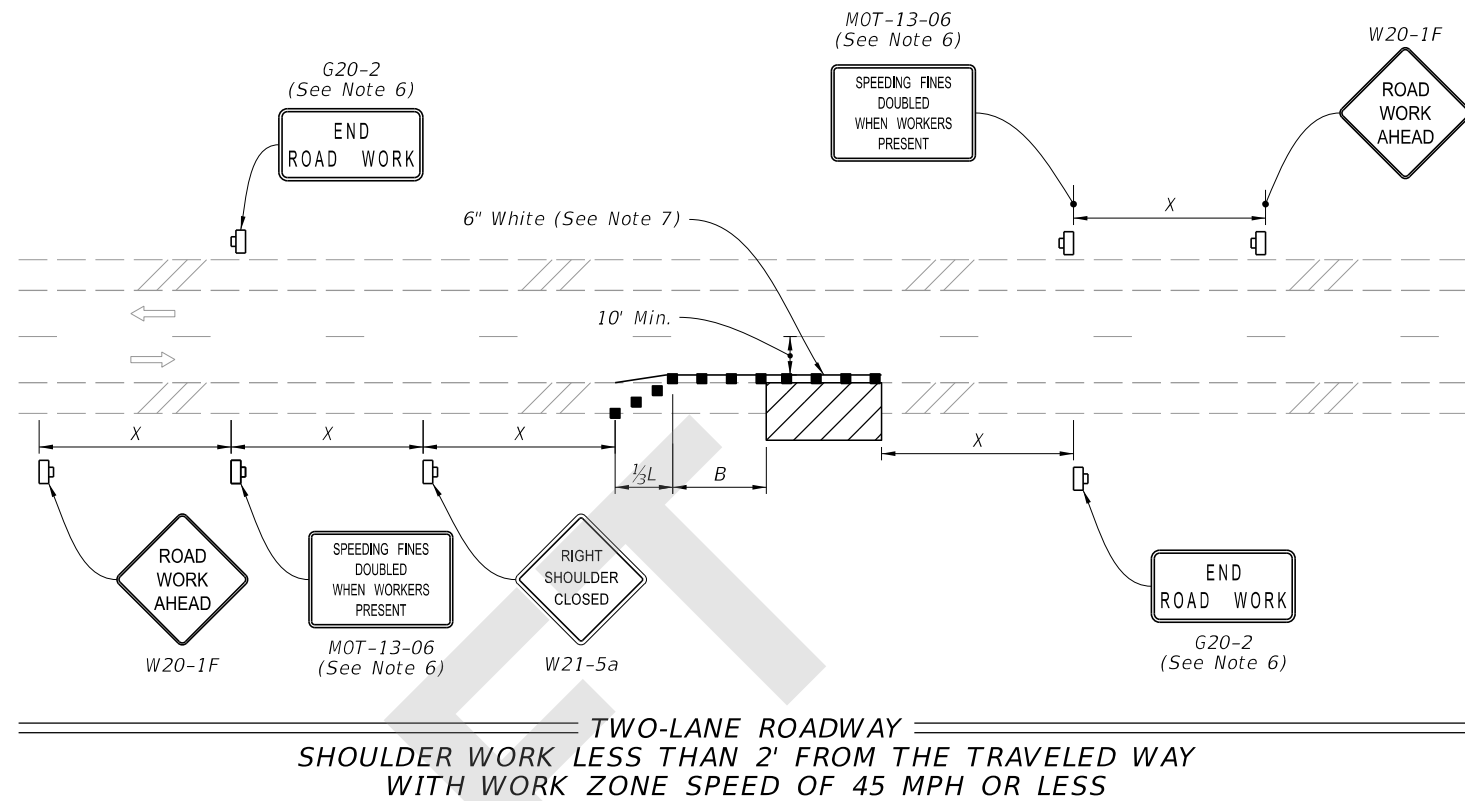
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NOTES:

1. This Index applies to Two-Lane, Two-Way and Multilane Roadways, including Medians of divided roadways, with work on the shoulder.
2. L = Taper Length
X = Work Zone Sign Spacing
See Index 102-600 for "L" and "X" values.
3. For incidental work (e.g. mowing or litter removal), only the Road Work Ahead sign is required.
4. When four or more work vehicles enter the through traffic lanes in a one hour period (excluding establishing and terminating the work area), use a flagger or lane closure to accommodate work vehicle ingress and egress.
5. For work less than two feet from the traveled way and work zone speed is greater than 45 MPH, use a lane closure.
6. The "Speeding Fines Doubled When Workers Present" signs (MOT-13-06) and "End Road Work" Signs (G20-2) along with the associated work zone sign spacing distances may be omitted when the temporary condition is in place for 24 hours or less.
7. Temporary pavement markings may be omitted when the work zone is in place for 3 days or less.
8. If the work encroaches on a marked bicycle lane or rideable shoulder, close the lane or shoulder in accordance with the Plans.
9. Omit "Shoulder Closed" signs (W21-5a) along with associated work zone sign spacing distances for work on the median

SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Lane Identification and Direction of Traffic



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8/28/2020

LAST REVISION 11/01/20	REVISION	DESCRIPTION:
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STANDARD PLANS





TWO-LANE AND MULTILANE, WORK ON SHOULDER

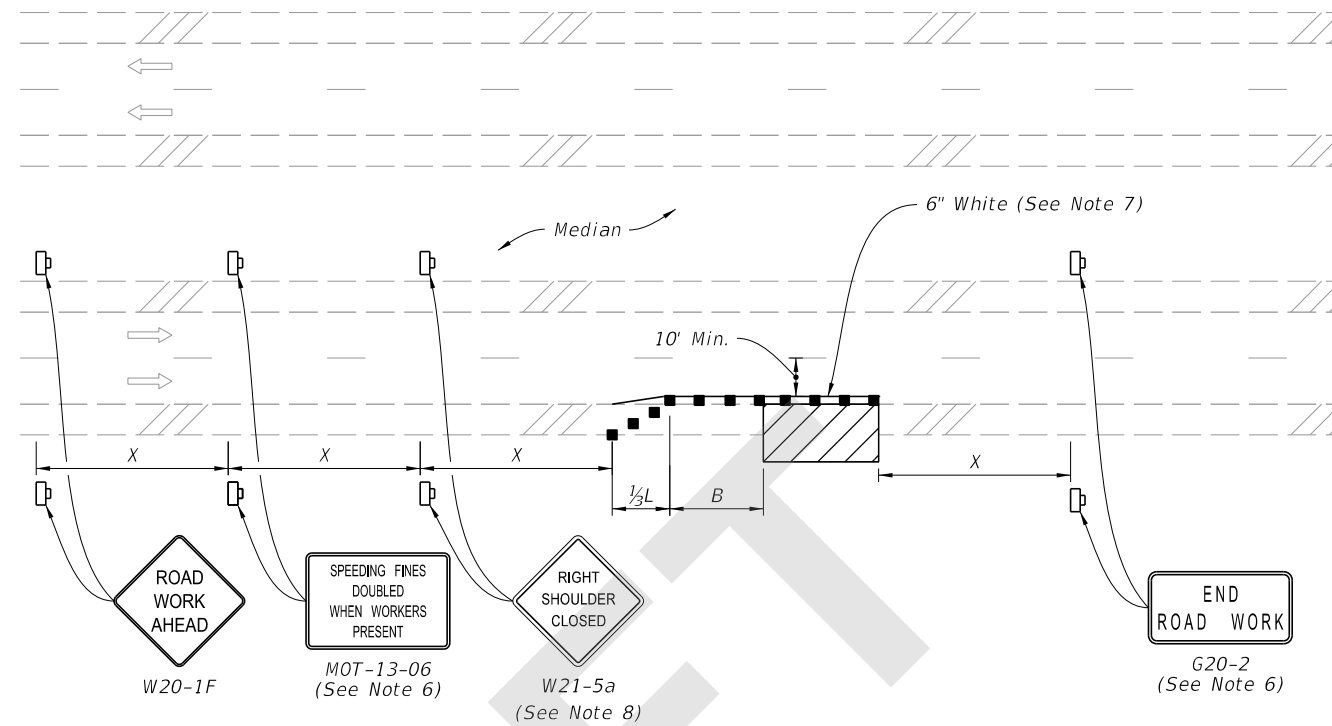
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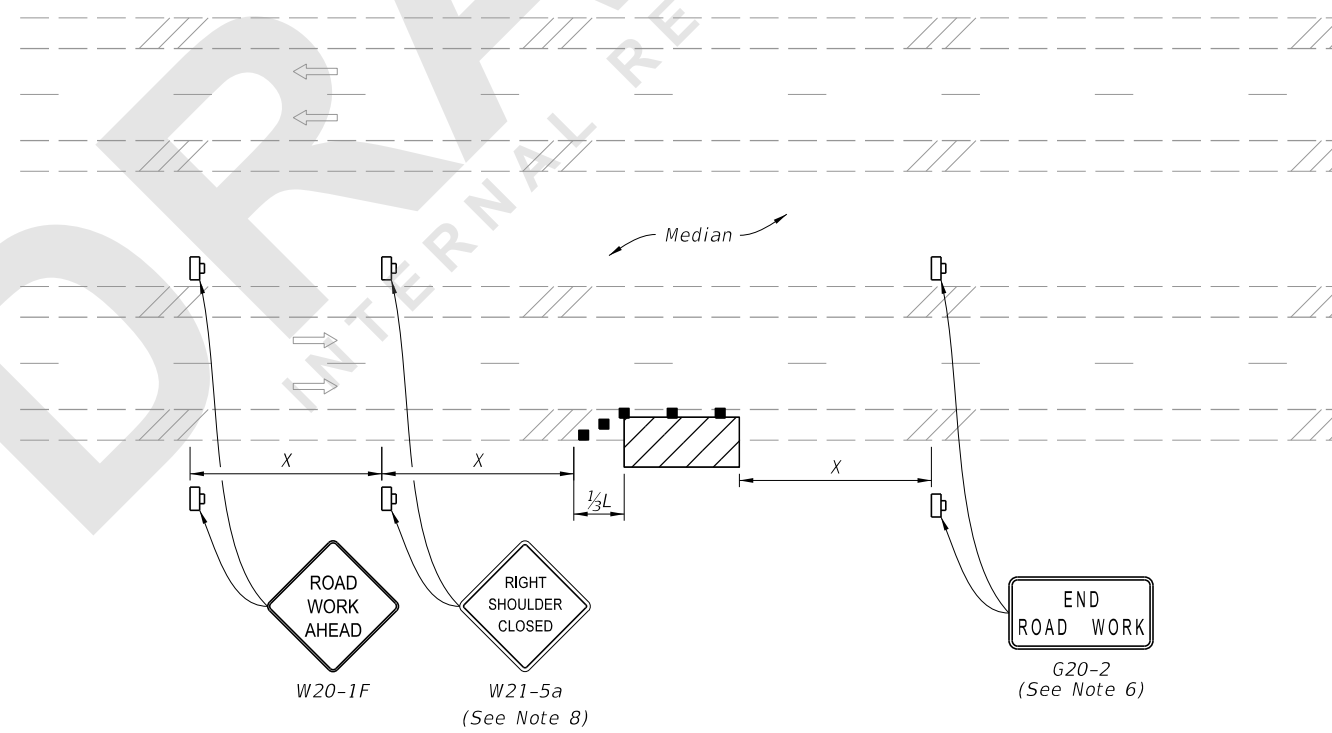
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SYMBOLS:

-  Work Area
-  Channelizing Device (See Index 102-600)
-  Work Zone Sign
-  Lane Identification and Direction of Traffic



MULTILANE ROADWAY
SHOULDER WORK LESS THAN 2' FROM THE TRAVELED WAY
WITH WORK ZONE SPEED OF 45 MPH OR LESS



MULTILANE ROADWAY
SHOULDER WORK BETWEEN 2' AND 15' FROM THE TRAVELED WAY

LAST REVISION 11/01/20	REVISION	DESCRIPTION:
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