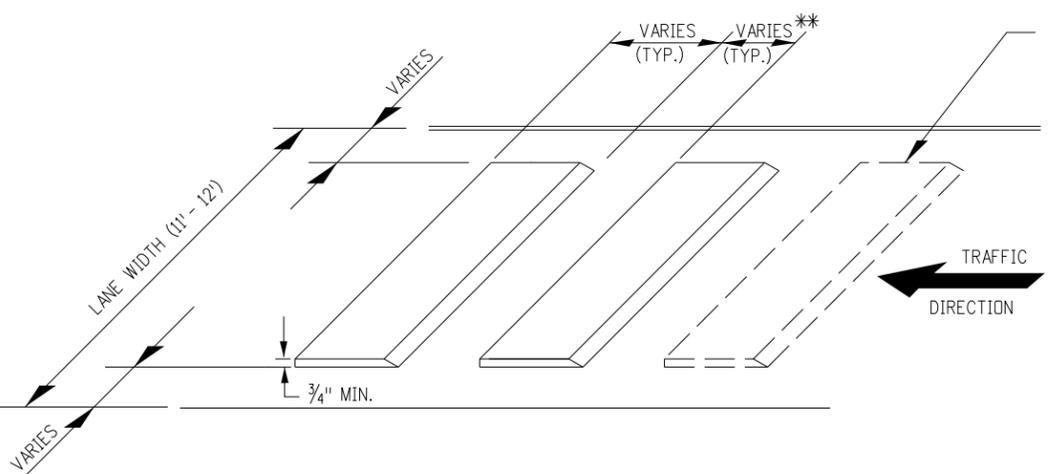


**CASE NO. 1  
TYPICAL APPLICATION  
TWO-LANE UNDIVIDED HIGHWAY**



**DETAIL - TEMPORARY PORTABLE RUMBLE STRIP ARRAY**

**GENERAL NOTES**

OPTIONAL RUMBLE STRIP (SEE NOTE 10)

1. TEMPORARY PORTABLE RUMBLE STRIP ARRAYS SHALL BE PLACED IN ADVANCE OF EACH FLAGGING STATION WHEN CALLED FOR IN THE PLANS.
2. TEMPORARY PORTABLE RUMBLE STRIP ARRAYS ARE USED TO SUPPLEMENT A SERIES OF ADVANCED WARNING SIGNS AND SHALL BE INSTALLED AND REMOVED WHEN THE SIGNS ARE INSTALLED AND REMOVED.
3. REMOVE THE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO REMOVING THE ADVANCED WARNING SIGNS.
4. LANE WIDTHS SHOULD BE MAINTAINED THROUGH WORK ZONE TRAVEL LANES WHEREVER PRACTICAL.
5. DO NOT USE TEMPORARY PORTABLE RUMBLE STRIPS ON SLIPPERY SURFACES, SUCH AS WET OR SANDY PAVEMENT.
6. DO NOT USE TEMPORARY PORTABLE RUMBLE STRIPS ON HORIZONTAL CURVES.
7. USE TEMPORARY PORTABLE RUMBLE STRIPS ON ROADWAYS WITH POSTED WORK ZONE SPEED LIMITS OF 75 MPH OR LESS.
8. FOR THE LOWEST AIR TEMPERATURE TO APPLY THE TEMPORARY PORTABLE RUMBLE STRIPS ON ROAD PAVEMENTS, CONTACT THE TEMPORARY PORTABLE RUMBLE STRIP MANUFACTURER
9. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
10. OPTIONAL RUMBLE STRIP TO INSTALL, AS DIRECTED BY THE ENGINEER.

**LEGEND**

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES INCLUDED IN PLANS.
- ← DIRECTION OF TRAVEL
- ⏏ FLAGGER
- ▨ WORK AREA

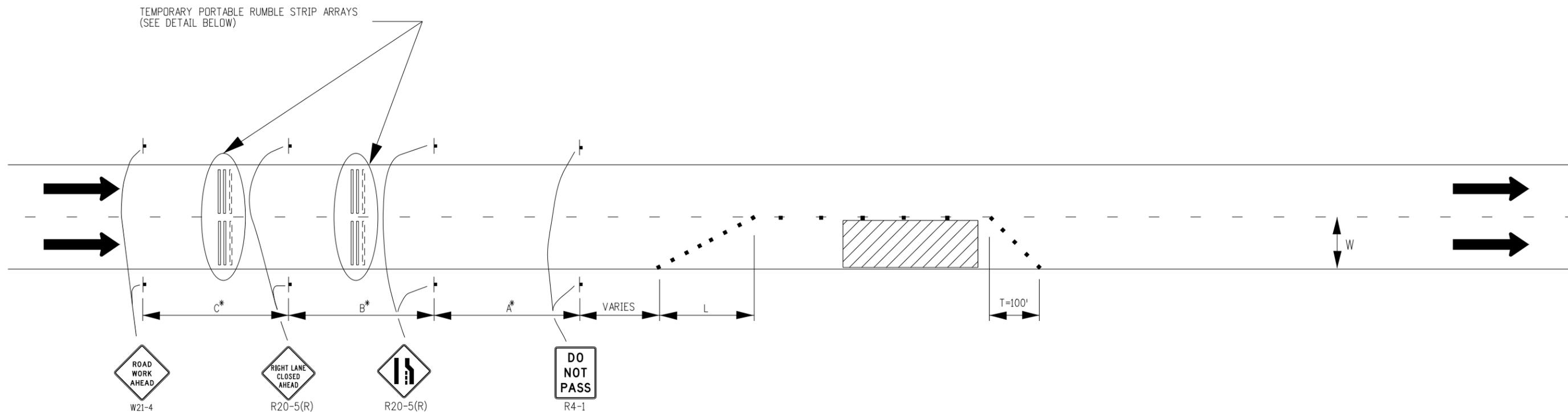
T = TERMINATION TAPER = 100'  
 S = WORK ZONE SPEED LIMIT  
 W = LANE WIDTH  
 L = MERGING TAPER (S > 45 MPH) = WxS  
 L = MERGING TAPER (S < 45 MPH) = (WxS<sup>2</sup>)/60  
 N = NUMBER OF DEVICES (L/S) + 1  
 N = NUMBER OF DEVICES AT TERMINATION TAPER = 5 (MIN.)

**\*KEY TO ADVANCE SIGNING DISTANCES**

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT.)		
	A	B	C
URBAN (S < 45 MPH)	100	100	100
URBAN (S ≥ 45 MPH)	350	350	350
RURAL	500	500	500

\*\* FOR RUMBLE STRIP SPACING DISTANCE, USE MANUFACTURER'S RECOMMENDATIONS.

Computer File Information		Sheet Revisions		Colorado Department of Transportation		<b>PORTABLE RUMBLE STRIPS (TEMPORARY)</b>	<b>STANDARD PLAN NO. S-630-5</b>
Creation Date: 07/04/12	Initials: KEN	Date:	Comments	4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9543 Fax: (303) 757-9219			
Last Modification Date: 08/11/15	Initials: RPR	(R-1) 01/24/13	MADE 3RD RUMBLE STRIP ARRAY OPTIONAL	Safety & Traffic Engineering Branch		Issued By: Safety & Traffic Engineering Branch July 4, 2012	
Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans		(R-2) 07/26/13	CORRECTED SIGN CODE DESIGNATION FOR FLAGGER (SYMBOL) SIGN TO W20-7	KCM/KEN		Sheet No. 1 of 2	
Drawing File Name: S-630-05_1of2.dgn		(R-3) 08/11/15	CHANGED MINIMUM THICKNESS TO 3/4"; MAX SPEED INCREASED TO 75 MPH				
CAD Ver.: MicroStation V8	Scale: Not to Scale	Units: English	(R-X)				



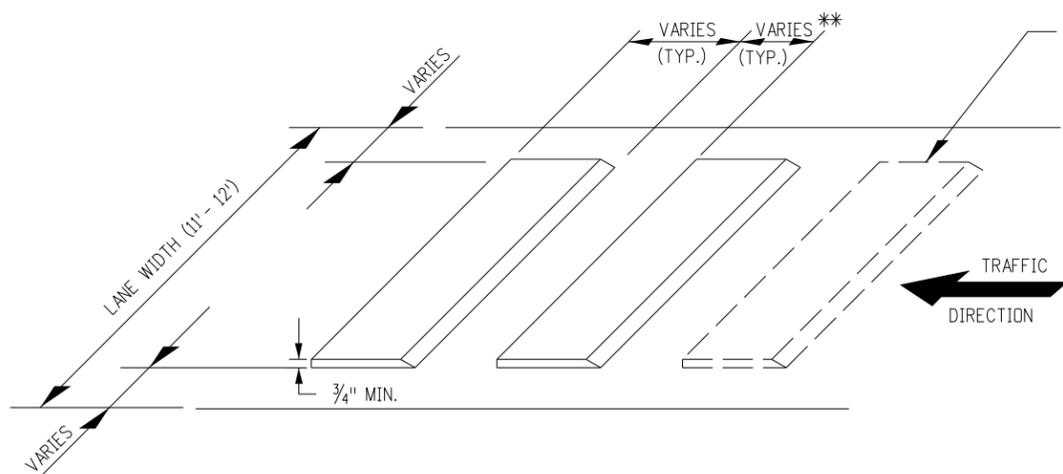
**CASE NO. 2**  
**TYPICAL APPLICATION**  
**MULTI-LANE DIVIDED HIGHWAY WITH RIGHT LANE CLOSED**

**LEGEND**

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES INCLUDED IN PLANS.
  - ➔ DIRECTION OF TRAVEL
  - ▨ WORK AREA
- T = TERMINATION TAPER = 100'  
S = WORK ZONE SPEED LIMIT  
W = LANE WIDTH  
L = MERGING TAPER (S ≥ 45 MPH) = WxS  
L = MERGING TAPER (S < 45 MPH) = (WxS<sup>2</sup>)/60  
N = NUMBER OF DEVICES (L/S) + 1  
N = NUMBER OF DEVICES AT TERMINATION TAPER = 5 (MIN.)

**GENERAL NOTES**

1. TEMPORARY PORTABLE RUMBLE STRIP ARRAYS ARE USED TO SUPPLEMENT A SERIES OF ADVANCED WARNING SIGNS AND SHALL BE INSTALLED AND REMOVED WHEN THE SIGNS ARE INSTALLED AND REMOVED.
2. REMOVE THE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO REMOVING THE ADVANCED WARNING SIGNS.
3. LANE WIDTHS SHOULD BE MAINTAINED THROUGH WORK ZONE TRAVEL LANES WHEREVER PRACTICAL.
4. DO NOT USE TEMPORARY PORTABLE RUMBLE STRIPS ON SLIPPERY SURFACES, SUCH AS WET OR SANDY PAVEMENT.
5. DO NOT USE TEMPORARY PORTABLE RUMBLE STRIPS ON HORIZONTAL CURVES.
6. USE TEMPORARY PORTABLE RUMBLE STRIPS ON ROADWAYS WITH POSTED WORK ZONE SPEED LIMITS OF 75 MPH OR LESS.
7. FOR THE LOWEST AIR TEMPERATURE TO APPLY THE TEMPORARY PORTABLE RUMBLE STRIPS ON ROAD PAVEMENTS, CONTACT THE TEMPORARY PORTABLE RUMBLE STRIP MANUFACTURER
8. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
9. OPTIONAL RUMBLE STRIP TO INSTALL, AS DIRECTED BY THE ENGINEER.



**DETAIL - TEMPORARY PORTABLE RUMBLE STRIP ARRAY**

**\*KEY TO ADVANCE SIGNING DISTANCES**

ROAD TYPE	DISTANCE BETWEEN SIGNS (FT.)		
	A	B	C
URBAN (S < 45 MPH)	100	100	100
URBAN (S ≥ 45 MPH)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1,000	1,500	2,640

\*\* FOR RUMBLE STRIP SPACING DISTANCE, USE MANUFACTURER'S RECOMMENDATIONS.

Computer File Information	
Creation Date: 07/04/12	Initials: KEN
Last Modification Date: 08/11/15	Initials: RPR
Full Path: www.coloradodot.info/library/traffic/traffic-s-standard-plans	
Drawing File Name: S-630-05_2of2.dgn	
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	

Sheet Revisions	
Date:	Comments
(R-1) 01/24/13	MADE 3RD RUMBLE STRIP ARRAY OPTIONAL
(R-2) 08/11/15	REDUCED THICKNESS TO 3/4", INCREASED MAX SPEED TO 75 MPH
(R-X)	
(R-X)	

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Safety & Traffic Engineering Branch KCM/KEN

**PORTABLE RUMBLE STRIPS (TEMPORARY)**

Issued By: Safety & Traffic Engineering Branch July 4, 2012

**STANDARD PLAN NO.**

**S-630-5**

**Sheet No. 2 of 2**