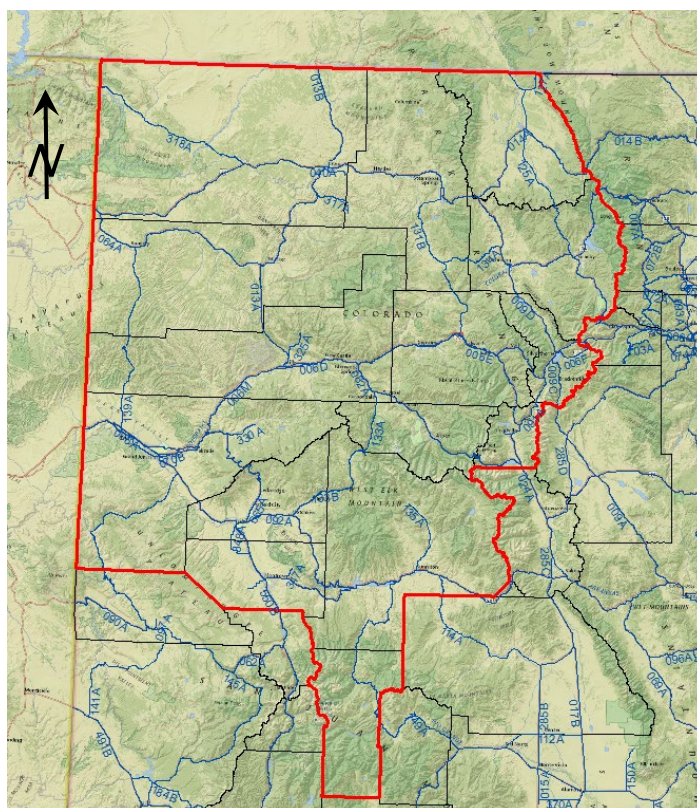


**DEPARTMENT OF TRANSPORTATION
STATE OF COLORADO
HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED
COLORADO PROJECT NO. MTCE R300-297
PROJECT CODE NO. 27473**

R3 FY 27 REGION WIDE STENCILS
HIGHWAYS: 006F,009C,009D,040A
COUNTIES: Summit, Routt, Grand.

PROJECT LOCATION MAP



Sheet No.	Sheet Identification	New and Revised Standards to be used:
1	Title Sheet and Index	S-627-1 Pavement Markings
2	Standard Plans List	January 14, 2026 (11 sheets)
3	Description of Project & Traffic Notes	S-630-1 Traffic Controls for Highway Construction
4-5	General Notes	January 14, 2026 (26 Sheets)
6	Summary of Approximate Quantities	
7	Tabulation of Traffic Control Devices	
8	Storm Water Management Plan (SWMP)	
9	“Birdie Line Details”	
10-11	Detailed Stencil Quantities	

Computer File Information		TITLE SHEET		Project No. / Code	
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PLAN NUMBER	M STANDARD TITLE	PAGE NUMBER	PLAN NUMBER	STANDARD TITLE	PAGE NUMBER
☐	M-100-1	Standard Symbols (3 Sheets).....	☐	S-612-1	Delineator Installations (8 Sheets) <i>(Rev. on April 3, 2025)</i>
☐	M-100-2	Acronyms and Abbreviations (4 Sheets).....	☐	S-613-1	Roadway Lighting (6 Sheets) <i>(Rev. on April 3, 2025)</i>
☐	M-203-1	Approach Roads.....	☐	S-613-2	Alternative Roadway Lighting (4 Sheets) <i>(New, Issued on September 30, 2020)</i>
☐	M-203-2	Ditch Types.....	☐	S-613-3	Pull Box Detail (2 Sheets) <i>(New, Issued on April 4, 2024)</i>
☐	M-203-11	Superelevation Crowned and Divided Highways.....	☐	S-613-4	Traffic Signal One-Line Diagrams (6 Sheets) <i>(New, Issued on June 15, 2023)</i>
☐	M-203-12	Superelevation Streets (2 Sheets)	☐	S-614-1	Ground Sign Placement (2 Sheets) <i>(Revised on Jan. 9, 2026)</i> ..
☐	M-206-1	Excavation and Backfill for Structures (2 Sheets)	☐	S-614-2	Class I Signs <i>(Revised on March 1, 2024)</i>
☐	M-206-2	Excavation and Backfill for Bridges (2 Sheets).....	☐	S-614-3	Class II Signs <i>(Rev. on March 1, 2024)</i>
☐	M-208-1	Temporary Erosion Control (11 Sheets)	☐	S-614-4	Class III Signs (3 Sheets) <i>(Rev. on March 1, 2024)</i>
		<i>(Revised on May 16, 2024)</i>	☐	S-614-5	Break-Away Sign Support Details.....
☐	M-210-1	Mailbox Supports (2 Sheets)			For Class III Signs (2 Sheets)
☐	M-214-1	Nursery Stock Details.....	☐	S-614-6	Concrete Footings and Sign Islands.....
☐	M-216-1	Soil Retention Covering (2 Sheets)			For Class III Signs (2 Sheets)
☐	M-400-1	Safetyedge for Pavement <i>(New, April 25, 2025)</i>	☐	S-614-8	Tubular Steel Sign Support Details (7 Sheets).....
☐	M-412-1	Concrete Pavement Joints (9 Sheets)			<i>(Revised on March 1, 2024)</i>
		<i>(Revised on January 31, 2022)</i>	☐	S-614-9	Pedestrian Push Button Post Assembly (2 Sheets).....
☐	M-412-2	Concrete Pavement Crack Repair (6 Sheets) <i>(Revised on September 6, 2022)</i>			<i>(Superseded on January 22, 2020 by S-614-45)</i>
☐	M-510-1	Structural Plate Pipe H-20 Loading	☐	S-614-10	Marker Assembly Installations
☐	M-601-1	Single Concrete Box Culvert (Cast-in-place) (2 Sheets).....	☐	S-614-11	Milepost Sign Detail for High Snow Areas
☐	M-601-2	Double Concrete Box Culvert (Cast-in-place) (2 Sheets).....	☐	S-614-12	Structure Number Installation (2 Sheets).....
☐	M-601-3	Triple Concrete Box Culvert (Cast-in-place) (2 Sheets)	☐	S-614-14	Flashing Beacon and Sign Installations (4 Sheets).....
☐	M-601-10	Headwall for Pipes			<i>(Revised January 9, 2026)</i>
☐	M-601-11	Type “S” Saddle Headwalls for Pipe	☐	S-614-15	Chain Station Signage (1 Sheet) <i>(Rev. on April 30, 2024)</i>
☐	M-601-12	Headwalls and Pipe Outlet Paving.....	☐	S-614-17	Radar Speed Feedback Sign (RSFS) (3 SHEETS) <i>(New Issued on Jan., 9 2026)</i>
☐	M-601-20	Wingwalls for Pipe or Box Culverts (2 Sheets).....	☐	S-614-20	Typical Pole Mount Sign Installations.....
☐	M-603-1	Metal Pipe (4 Sheets)			<i>(Revised on March 1, 2024)</i>
☐	M-603-2	Reinforced Concrete Pipe.....	☐	S-614-21	Concrete Barrier Sign Post Installations (2 Sheets).....
☐	M-603-3	Precast Concrete Box Culvert.....			<i>(Revised on September 21, 2020)</i>
		<i>(Revised on September 10, 2020)</i>	☐	S-614-22	Typical Multi-Sign Installations
☐	M-603-4	Corrugated Polyethylene Pipe (AASHTO M294).....	☐	S-614-23	J-Post Sign Support (3 Sheets) <i>(New, Issued on March 1, 2024)</i>
		And Corrugated Polypropylene Pipe (AASHTO M330)) (2 Sheets) <i>(Revised on March 7, 2022)</i>	☐	S-614-40	Typical Traffic Signal 30'-75' Double Mast Arms.....
☐	M-603-5	Polyvinyl Chloride (PVC) Pipe (AASHTO M304)			65'-75'- Single Mast Arms (5 Sheets) <i>(Revised on Jan. 9, 2026)</i>
☐	M-603-6	Steel Reinforced Polyethylene Ribbed Pipe	☐	S-614-40A	Alternate Traffic Signal 25'-55' Single Mast Arms
		(AASHTO MP 20)			(4 Sheets) <i>(Revised on Jan. 9, 2026)</i>
☐	M-603-10	Concrete and Metal End Sections.....	☐	S-614-41	Temporary Span Wire Details (13 Sheets)
☐	M-603-12	Traversable End Section and Safety Grates (3 Sheets)	☐	S-614-42	Cabinet Foundation Detail (4 Sheets) <i>(Rev. April 4, 2024)</i>
☐	M-604-10	Inlet, Type C	☐	S-614-43	Traffic Loop and Miscellaneous Signal Details.....
☐	M-604-11	Inlet, Type D			(8 Sheets) <i>(Revised on Jan. 9, 2026)</i>
☐	M-604-12	Curb Inlet Type R (2 Sheets).....	☐	S-614-44	Pedestal Pole Signals (2 Sheets) <i>(Revised on Jan. 9, 2026)</i>
☐	M-604-13	Concrete Inlet Type 13.....	☐	S-614-45	Pedestrian Push Button Post Assembly Details (6 Sheets) <i>(Revised on January 9, 2026)</i>
☐	M-604-20	Manholes (3 Sheets).....			Static Sign Monotube Structures (12 Sheets).....
☐	M-604-25	Vane Grate Inlets (5 Sheets).....	☐	S-614-60	Dynamic Sign Monotube Structures (14 Sheets)
		<i>(Revised on February 3, 2023)</i>	☒	S-627-1	Pavement Markings (11 Sheets)
☐	M-605-1	Subsurface Drains			<i>(Revised on January 14, 2026)</i>
☐	M-606-1	Midwest Guardrail System (MGS).....	☒	S-630-1	Traffic Controls for Highway Construction (26 Sheets).....
		Type 3 W-Beam 31 Inches (19 Sheets) <i>(Revised on March 5, 2020)</i>			<i>(Revised on January 14, 2026)</i>
☐	M-606-13	Guardrail, Type 7, F-Shape Barrier (4 Sheets).....	☐	S-630-2	Barricades, Drums, Concrete Barriers (Temporary).....
☐	M-606-14	Precast Type 7 Concrete Barrier (4 Sheets)			and Vertical Panels
		<i>(Revised on February 9, 2023)</i>	☐	S-630-3	Flashing Beacon (Portable) Details.....
☐	M-606-15	Guardrail Type 9 Single Slope Barrier (11 Sheets).....	☐	S-630-4	Steel Sign Support (Temporary) Installation Details
		<i>(Revised on February 17, 2023)</i>			(2 Sheets)
☐	M-607-1	Wire Fences and Gates (3 Sheets)	☐	S-630-5	Portable Rumble Strips (Temporary) (2 Sheets).....
☐	M-607-2	Chain Link Fence (3 Sheets)	☐	S-630-6	Emergency Pull-Off Area (Temporary) <i>(Revised on Jan. 9, 2026)</i>
☐	M-607-3	Barrier Fence.....	☐	S-630-7	Rolling Roadblocks for Traffic Control (3 Sheets).....
☐	M-607-4	Deer Fence, Gates, and Game Ramps (7 Sheets).....			
		<i>(Revised on July 13, 2020)</i>			
☐	M-607-10	Picket Snow Fence.....			
☐	M-607-15	Road Closure Gate (9 Sheets).....			
☐	M-608-1	Curb Ramps (10 Sheets).....			
☐	M-609-1	Curbs, Gutters, and Sidewalks (4 Sheets)			
☐	M-611-1	Cattle Guard (2 Sheets)			
☐	M-611-2	Deer Guard (2 Sheets)			
☐	M-614-1	Rumble Strips (3 Sheets)			
☐	M-614-2	Sand Barrel Arrays (2 Sheets)			
☐	M-615-1	Embankment protector Type 3			
☐	M-615-2	Embankment Protector Type 5			
☐	M-616-1	Inverted Siphon			
☐	M-620-1	Field Laboratory Class 1			
☐	M-620-2	Field Laboratory Class 2 (2 Sheets).....			
☐	M-620-11	Field Office Class 1			
☐	M-620-12	Field Office Class 2			
☐	M-629-1	Survey Monuments (2 Sheets)			

All of the M&S standard plans, as supplemented and revised, apply to this project when used by designated pay item or subsidiary item.

The M&S standard plans used to design this project are indicated by a marked box [x], and will be attached to the plans. All other M&S standard plans are still eligible for use in construction if approved by an appropriate CDOT engineer.

COLORADO
DEPARTMENT OF TRANSPORTATION

STANDARD PLANS LIST
M&S STANDARDS
JULY 31, 2019

JANUARY 16, 2026

Computer File Information			STANDARD PLANS LIST		Project No. / Code
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Scale: NA Units: English					Sheet Number: 2

DESCRIPTION OF PROJECT

This project will consist of refreshing existing crosswalks, stop bars, word and symbol pavement markings with inlaid preformed thermoplastic material on the roadways listed in the table below.

ROUTE	MILE POINT	
	BEGIN	END
040A	133.82	229.28
006F	208.73	216.07
009C	86.36	97.09
009D	101.63	138.39

TRAFFIC NOTES

- 1) ***The Contractor shall follow the Region 3 Lane Closure Strategy (R3 LCS) for all highways within Region 3, unless noted otherwise, in writing, by the project engineer.*** For lane closure and working time limitation the Region 3 Lane Closure Strategy, 2nd Edition, Region 3 West Vail Pass Addendum and the Region 1 Lane Closure Strategy, 3rd Edition shall be in effect and can be found at: <http://www.coloradodot.info/library/traffic/traffic-manuals-guidelines/lane-close-work-zone-safety/lane-closure-strategies>
 - a) Please note that this document allows for an exemption request; however, some work may be required to be done at night in some locations. Specifications regarding artificial lighting and traffic control device reflectivity shall be in effect for night work.
- 2) In addition to the criteria listed in the Region 3 Lane Closure Strategy, the Contractor shall immediately remove his operation from the roadway and not resume until the Engineer gives permission, for the following conditions:
 - a) If traffic at any time is backed up for 10 minutes or longer.
 - b) If traffic at any time is so adversely affected by the operation that the Engineer determines that the situation is unsafe

Computer File Information		PROJECT DESCRIPTION & TRAFFIC NOTES		Project No. / Code
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Scale: NA Units: English				Sheet Number: 3

GENERAL NOTES

1. All work shall be performed in accordance with the Colorado Department of Transportation (CDOT) Standard Specifications for Roads and Bridge Construction (2023) as amended and according to manufacturer's recommendations unless stated otherwise in the plans, CDOT specifications, or as directed by the Engineer.
2. Contractor shall not use CDOT right of way, maintenance yards, or rest areas for staging equipment or supplies without the approval of the local maintenance foreman and the Project Engineer. All equipment and material staging will occur in previously disturbed areas. Contractor is responsible for providing adequate storage for equipment and materials, a forklift for loading and unloading materials, and all other accommodations to complete the work. These items will not be measured and paid for separately but shall be included in the work.
3. The Contractor shall limit work to one defined work area at a time. The contractor shall provide a Traffic Control Plan for each situation to CDOT for review and approval.
4. All preformed thermoplastic material is required to be a minimum thickness of 125 mil.
5. All stencils shall be inlaid 90 mils $\pm$ 10 mils. This will require grinding and removal of all stencils to be replaced to a depth of 90 mils $\pm$ 10 mils or as determined by the CDOT project inspector.
6. Disposal of all grinding material and removed thermoplastic shall be the responsibility of the Contractor. All material on the roadway that was loosened during grinding and cleaning of the surface shall be removed from the roadway by use of any means necessary. All waste material shall be disposed of at an appropriate, off-site, non-CDOT waste disposal facility. These items shall not be measured and paid for separately but shall be included in the work.
7. The Contractor's method statement shall include the manufacturer's recommended installation procedure.
8. The Contractor shall hold a training session with the manufacturer's representative at the work location to demonstrate proper installation procedures. This is done concurrently to the work.
9. Stencils shall be installed on a clean surface, as recommended by the manufacturer. It is the Contractor's responsibility to ensure proper surface preparation, by any means necessary. Cleaning of the pavement surface shall not be measured and paid for separately but shall be included in the work.
10. If the manufacturer requires a sealer, the sealer will not be paid for separately but shall be included in the cost of the stencil installation.
11. All stop bars shall be refreshed with 24-inch-wide bars. All crosswalks shall be refreshed with continental style crosswalks with 2-ft by 9-ft crosswalk bars. Side streets shall only have the crosswalk and stop bars installed where already existing or as directed by the project engineer.
12. Equipment shall not be left in the work zone while work is not being performed.
13. Payment shall be made only for items in the pay item list. All other work necessary to replace the preformed pavement markings shall be considered incidental to the work.
14. The Contractor foreman shall reconcile all quantities with the Project Inspector at the end of each day of work.
15. Quantities shall be installed according to the location priorities of the Engineer, until the quantities are exhausted. The Engineer may adjust quantities, substitute locations or add new locations for any bid item. Such additions or substitutions will be on any highways within Region 3, and payment will be based on the contract bid price for each item. Additional quantities may be added as funding allows and directed by the Engineer.

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GENERAL NOTES (CONTINUED)

16. There shall be no stockpiling or side casting of waste material adjacent to any storm drain system, vegetative swale, waterway, stream, ditches, or wetland. Prior to the pavement being prepared for striping, the Contractor shall review Section 107.25 and Section 208 in the Standard Specifications to prevent pollutants from entering storm drains and waterways.
17. All staging, stockpiling, and parking shall occur on previously disturbed areas or be approved by CDOT Biologist.
18. The Contractor's work shall be restricted to the hours of 7:00 am to 7:00 pm, unless noted otherwise in the plans, or approved by the Project Engineer. A maximum of 12 hours in a 24-hour period shall be worked. The workweek shall be a maximum of 5 days per week, Monday through Friday – or as directed by the Project Engineer. The Project Engineer must approve any deviation from the above daily and weekly work time constraints in writing. If night work is needed it must be approved by the project engineer.
19. In mountainous areas and/or mountain passes (Elevation greater than 8,000 ft), night work shall be kept to a schedule of 4 nights working with 3 nights of no work, temporary lighting will be used with directional shielding to focus the lighting onto the work area, and monitor lighting to ensure that it does not exceed the approved lighted area and that lights are on only when necessary to reduce the effects of the project on Canada lynx populations to an insignificant amount.

Computer File Information		GENERAL NOTES CONTINUED		Project No. / Code	
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R3 FY 26 REGION STENCIL SUMMARY OF APPROXIMATE QUANTITIES

	CONTRACT ITEM	UNIT	QUANTITY
202-00250	Removal of Pavement Marking (Grinding)	SF	36772.19
626-00000	Mobilization	LS	1
627-30407	Preformed Thermoplastic Pavement Marking (Word-Symbol) (Special)	SF	7798.39
627-30411	Preformed Thermoplastic Pavement Marking (Crosswalk-Stop Line) (Special)	SF	28660
630-00000	Flagging	HOURL	300
630-00012	Traffic Control Management	DAY	45
630-80341	Construction Traffic Sign (Panel A)	EACH	21
630-80342	Construction Traffic Sign (Panel B)	EACH	15
630-80358	Advance Warning Flashing or Sequencing (C Type)	EACH	2
630-80380	Traffic Cone	EACH	200
700-70010	FA Minor Contract Revisions	FA	1

SUMMARY OF APPROXIMATE QUANTITIES

CONTRACT ITEM NO.	STENCIL TYPE	# OF EACH	SF	ITEM TOTAL (SF)
(Word / Symbol)	Arrow – Left Turn	220	3542	7798.39
	Arrow – Right Turn	147	2366.7	
	Merge Arrow Left	7	406	
	Birdie	487	326.29	
	Straight Arrow Elongated	1	12.1	
	Left Thru Right Arrow	1	39.8	
	Thru Left Arrow	2	55	
	Only	15	337.5	
	I-70 Shield	1	75	
	Cardinal direction	1	80	
	School	8	264	
	Yield Bars	42	126	
	Wrong Way Arrow	7	168	
(Crosswalk / Stop Line)	Crosswalk Bars (2-ft wide)	1133	20034	28660
	Stop Bars (2-ft wide)	4313 LF	8626	

Computer File Information		SUMMARY OF APPROXIMATE QUANTITIES		Project No. / Code	
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TABULATION OF TRAFFIC CONTROL DEVICES

SIGN CODE	LEGENDS	SIZE	ITEM 630 – CONSTRUCTION TRAFFIC SIGN PANEL (EACH)		
			A	B	C
R2-1(40)	Speed Limit 40	24" X 30"	2		
R2-1(45)	Speed Limit 45	24" X 30"	2		
R2-1(50)	Speed Limit 50	24" X 30"	2		
R2-1(55)	Speed Limit 55	24" X 30"	2		
G50-5	Work Zone	24" X 18"	2		
R52-6a	Begin Fines Double in Work Zone	24" X 24"	2		
R52-6b	End Fines Double in Work Zone	24" X 24"	2		
R3-6R	Straight/Right Turn Arrow	30" X 36"	1		
R3-6L	Straight/Left Turn Arrow	30" X 36"	1		
R3-7L	Left Lane Must Turn Left	30" X 30"	1		
W3-4	Be Prepared to Stop	36" X 36"		2	
W4-7	Thru Traffic Merge Right	36" X 36"		1	
36W 20-1	ROAD/WORK/AHEAD	36" X 36"		4	
36W20-5R	RIGHT LANE CLOSED (DIST.)	36" X 36"		1	
36W20-5L	LEFT LANE CLOSED (DIST.)	36" X 36"		1	
36W4-2L	LEFT LANE TRANSITION SYMBOL	36" X 36"		1	
36W4-2R	RIGHT LANE TRANSITION SYMBOL	36" X 36"		1	
36W20-4	ONE LANE ROAD XX FT	36" X 36"		2	
36W20-7a	Flagging Symbol	36" X 36"		2	
	SIGN TOTALS		21	15	0

Computer File Information		TABLUTION OF TRAFFIC CONTROL DEVICES		Project No. / Code	
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STORMWATER MANAGEMENT PLAN (SWMP)

MTCE 27473 R3 FY 27 Region Wide Stencil Project STORMWATER MANAGEMENT PLAN (SWMP)

1. SITE DESCRIPTION

This project shall consist of the removal, supply and application of preformed thermoplastic word / symbol and crosswalk stencils as designated by the Engineer and in the tabulation of pavement markings on all on the designated highways; highways will include 040A, 006F, 009C, 009D. All pavement markings and stencils shall be ground to create a recessed groove as indicated in the detailed quantity spreadsheet.

2. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

The contractor shall perform the following:

A. POTENTIAL POLLUTANT SOURCES

1. Evaluate, identify, and describe all potential sources of pollutants at the site in accordance with subsection 107.25 and place any Control Measures required to contain potential pollutants.

3. DURING CONSTRUCTION

The SWMP should be considered a “living document” that is continuously reviewed and modified. During construction, the following items shall be added, updated, or amended as needed by the Contractor in accordance with Section 208.

A. MATERIALS HANDLING AND SPILL PREVENTION

Materials handling shall be in accordance with subsection 208.06.

The Contractor shall inspect equipment and vehicles daily to ensure petroleum, oils, and lubricants (POL) are not leaking onto the soil or pavement. Absorbent material or containers approved by the CDOT Construction Manager shall be used to prevent leaking POL from reaching the soil or pavement. The Contractor shall have onsite approved absorbent material or containers of sufficient capacity to contain any POL leak that can reasonably be foreseen. All materials resulting from POL leakage control and cleanup shall become the property of the Contractor and shall be removed from the site. The cost for control, cleanup and removal of by-products resulting from POL leaks will not be paid for separately but shall be included in the work.

B. STOCKPILE MANAGEMENT AND WASTE DISPOSAL

There shall be no stockpiling or side casting of waste materials including but not limited to paint chips, epoxy or plastic grindings, asphalt millings, and concrete debris adjacent to state waters. All waste materials shall be disposed of at an appropriate, off-site, non-CDOT waste disposal facility.

C. STREET CLEANING

Shall be in accordance with subsection 208.04.

D. GENERAL HOUSEKEEPING

At the end of each day the Contractor shall collect all trash and dispose of it in appropriate containers. Containers shall be emptied as needed.

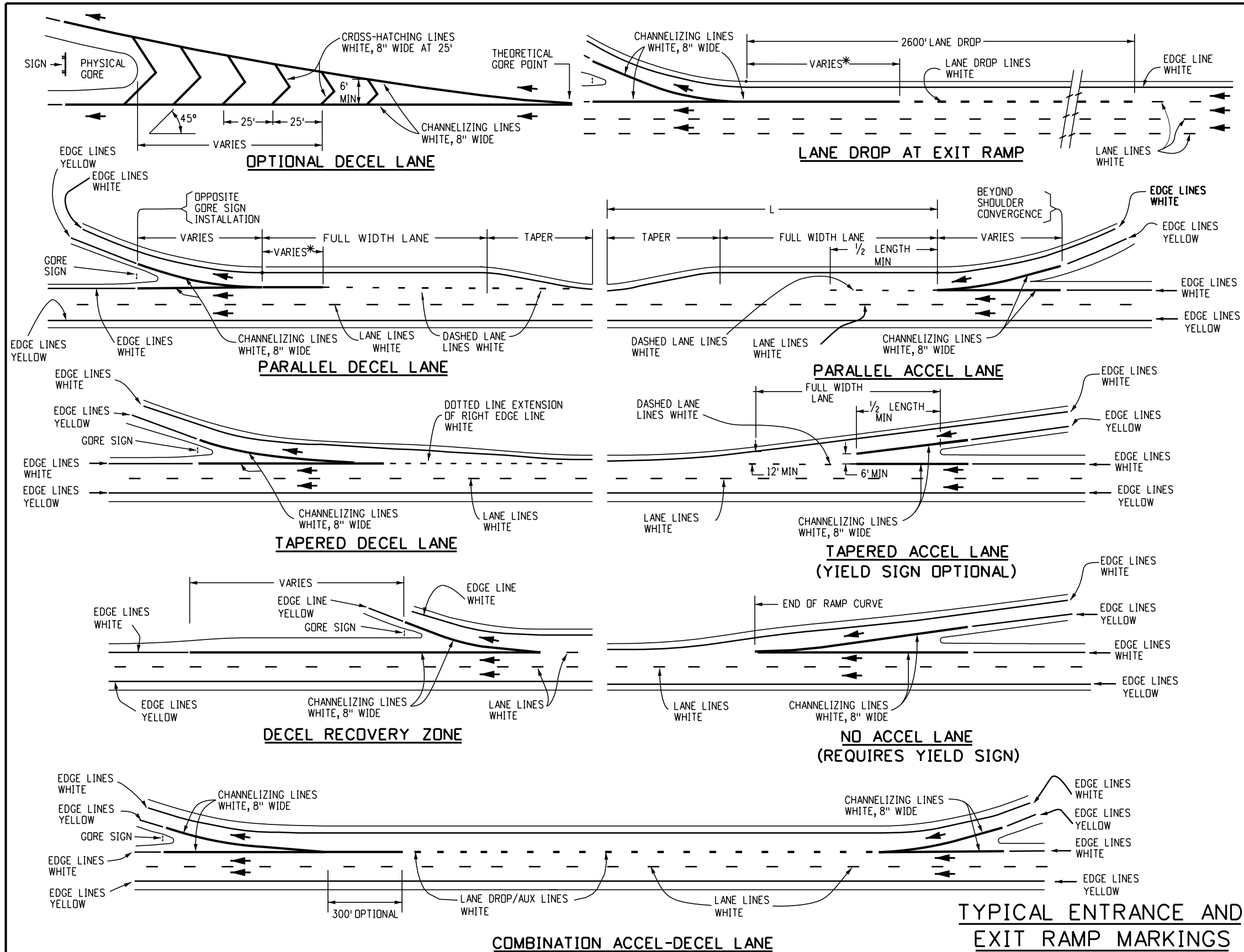
Computer File Information		STORM WATER MANAGEMENT PLAN		Project No. / Code	
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“Birdie” Intersection Line Details (*Note 1*)

The “Birdie” line shall consist of an 8-inch wide line and will be used to replace a portion of the striping at T-intersections with left- and right-turn deceleration lanes. The contractor shall use 8-inch preformed thermoplastic marking to form the curved portion of the striping. Refer to the image below.



Computer File Information		BIRDIE LINE DETAILS		Project No. / Code	
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GENERAL NOTES

1. MINIMUM LONGITUDINAL PAVEMENT MARKING WIDTH						
Facility Type	Speed	Edge Lines	Lane Lines	Center Lines ¹	Dotted Lane Lines	Lane Drop/Aux Lines
2-Lane Facilities	All	6"	n/a	4"	n/a	n/a
3- Lane Facilities	All	6"	6"	4"	6"	8"
Multi-Lane Facilities ≥ 50 MPH		6"	6"	4"	6"	8"
Multi-Lane Facilities ≤ 45 MPH		4"	4"	4"	4"	8"

¹Applies to facility types with double yellow lines, painted median, or undivided highway.

2. TEMPORARY PAVEMENT MARKING
4 INCHES WIDE MARKING CAN BE USED INSTEAD OF 6 INCHES WIDE MARKING FOR TEMPORARY MARKING UNLESS OTHERWISE DIRECTED BY THE REGION TRAFFIC ENGINEER.
3. CENTER LINES
a. BROKEN YELLOW, 4 INCHES WIDE 10-FOOT SEGMENTS WITH 30-FOOT GAPS.
b. SOLID YELLOW, 4 INCHES WIDE. THESE LINES SEPARATE ADJACENT-OPPOSITE DIRECTION TRAFFIC LANES. DOUBLE LINES SHALL BE SPACED 4 INCHES APART.
4. LANE LINES
a. BROKEN WHITE, 4 OR 6 INCHES WIDE 10-FOOT SEGMENTS WITH 30-FOOT GAPS.
b. SOLID WHITE, 4 OR 6 INCHES WIDE. THESE LINES SEPARATE ADJACENT-SAME DIRECTION TRAFFIC LANES. A SOLID LINE MAY BE USED TO DISCOURAGE LANE CHANGING, WHILE TWO PARALLEL SOLID WHITE LINES ARE REQUIRED TO PROHIBIT LANE CHANGING.
5. EDGE LINES
a. SOLID WHITE OR YELLOW EDGE LINES SHALL BE 4 OR 6 INCHES WIDE. YELLOW EDGE LINES SHALL BE USED ONLY FOR LEFT EDGE, IN THE DIRECTION OF TRAVEL OF DIVIDED STREETS AND HIGHWAYS (SEPARATED BY OTHER THAN A PAINTED MEDIAN) AND ONE-WAY ROADWAYS (INCLUDING RAMPs).
b. EDGE LINES ARE NOT CONTINUED THROUGH INTERSECTIONS AND ARE NOT BROKEN FOR DRIVEWAYS. CARE MUST BE TAKEN TO AVOID EDGE LINE APPEARING AS LANE LINE ALONG ROADWAYS WITH WIDE SHOULDERS AND/OR CLOSELY SPACED DRIVEWAYS.
6. DOTTED LINE EXTENSIONS
BROKEN WHITE, WIDTH MATCHING THE LINE BEING EXTENDED 2-FOOT SEGMENTS WITH 4-FOOT GAPS. THESE LINES ARE USED TO DELINEATE THE EXTENSION OF A LINE THROUGH AN INTERSECTION OR INTERCHANGE AREA.
7. LANE DROP / AUX LINES
BROKEN WHITE, 8 INCHES WIDE 3-FOOT SEGMENTS WITH 12-FOOT GAPS. THESE LINES SHOULD BEGIN 2600 FEET IN ADVANCE OF THE THEORETICAL GOREPOINT TO DISTINGUISH THE LANE DROP FROM A CONTINUOUS LANE.
8. DASHED LANE LINES
BROKEN WHITE, 4 OR 6 INCHES WIDE 3-FOOT SEGMENTS WITH 12-FOOT GAPS. LINE WIDTH SHALL MATCH THE ADJACENT LANE LINE. THESE LINES SEPARATE A THROUGH LANE FROM AN ADJACENT DECELERATION OR ACCELERATION LANE.
9. CHANNELIZING LINES
SOLID WHITE, 8 INCHES WIDE. THESE LINES ARE USED WITH ACCELERATION-DECELERATION LANES, PAVEMENT WIDTH TRANSITIONS, AND LEFT-RIGHT TURN SLOTS OR ISLANDS.

* THE CHANNELIZING LINE MAY BE EXTENDED 300 FEET (TYPICAL) UPSTREAM FROM THE THEORETICAL GORE. FINAL LENGTH DEPENDS ON SITE CONDITIONS.

(CONTINUED ON SHEET NO. 2)

TYPICAL ENTRANCE AND EXIT RAMP MARKINGS

Computer File Information		Sheet Revisions		Colorado Department of Transportation	PAVEMENT MARKINGS	STANDARD PLAN NO.	
Creation Date: 07/04/12		Date:	Comments			S-627-1	
Created By: SCL		(R-7) 01/14/26	11TH EDITION MUTCD NOTES UPDATE	 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219		Standard Sheet No. 1 of 11	
Last Modification Date: 01/14/26		(R-6) 12/20/24	DASHED LANE LINE UPDATE			Project Sheet Number:	
Last Modified By: NRIVERA		(R-5) 04/30/24	FORMATTING				
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English		(R-4) 04/14/23	UPDATED NUMBER OF SHEETS				
				Traffic Safety & Engineering	EB	Issued By: Traffic Safety & Engineering Branch July 31, 2019	

GENERAL NOTES

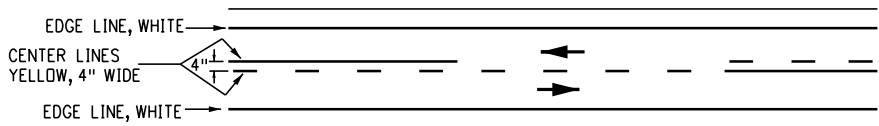
(CONTINUED FROM SHEET NO. 1)

10. CROSS-HATCHING LINES
- a. SOLID WHITE OR YELLOW, 8 INCHES WIDE-45 DEGREE DIAGONAL, SPACED AT 25 FEET INTERVALS. THESE LINES ARE OPTIONAL AND MAY BE PLACED AT LOCATIONS INDICATED ON THE PLANS OR DETERMINED BY THE ENGINEER. YELLOW SHALL BE USED FOR PAINTED MEDIANS OR PAVEMENT WIDTH TRANSITIONS ONLY.
- b. OPTIONAL DIAGONAL SHOULDER MARKINGS SHALL BE SOLID WHITE, 8 INCHES WIDE, SPACED AT INTERVALS OF 20 FEET MINIMUM TO 100 FEET MAXIMUM.
11. PARKING LINES
- SOLID WHITE, 3 INCHES WIDE-DIAGONAL OR PARALLEL AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
12. STOP LINES
- SOLID WHITE, 24 INCHES WIDE-EXTEND PARALLEL TO INTERSECTED ROADWAY ACROSS ALL APPROACH LANES OR AS INDICATED AT LOCATIONS ON THE PLANS. LOCATE AT THE DESIRED STOPPING POINT, NOT MORE THAN 30 FEET, NOR LESS THAN 4 FEET FROM THE NEAREST EDGE OF THE INTERSECTED TRAFFIC LANE.
13. YIELD LINES
- a. SOLID WHITE, THE INDIVIDUAL TRIANGLES COMPRISING YIELD LINES SHALL HAVE A BASE OF 12 TO 24 INCHES WIDE AND A HEIGHT EQUAL TO 1.5 TIMES THE BASE AND SHALL BE PARALLEL TO THE INTERSECTED ROADWAY ACROSS ALL APPROACH LANES OR AS INDICATED AT LOCATIONS ON THE PLANS.
- b. THE SPACE BETWEEN EACH TRIANGLE SHALL BE 3 TO 12 INCHES.
14. CROSSWALK LINES
- a. SOLID WHITE, 12 INCHES WIDE FOR TRANSVERSE LINE TYPE. EXTEND ACROSS ENTIRE WIDTH OF PAVEMENT. IF NO ADVANCE STOP LINE IS PROVIDED, INCREASE THE WIDTH OF THE CROSSWALK LINES TO 24 INCHES. THE DISTANCE BETWEEN THE LINES IS USUALLY DETERMINED BY THE WIDTH OF THE SIDEWALKS CONNECTED, IN ANY CASE THIS SHALL NOT BE LESS THAN 6 FEET.
- b. COMPLICATED AND/OR CHANNELIZED INTERSECTIONS AND MID-BLOCK CROSSWALKS SHALL BE SOLID WHITE, 12 INCHES TO 24 INCHES WIDE AND 8 TO 10 FEET LONG FOR LONGITUDINAL LINE TYPE AS DETAILED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
15. WORD, ARROW AND SYMBOL MARKINGS
- ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH "THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION.
16. MERGING TAPER LENGTH
- L = MINIMUM LENGTH OF TAPER.
S = DESIGN SPEED FOR NEW CONSTRUCTION OR NUMERICAL VALUE OF THE POSTED SPEED LIMIT OF THE 85TH PERCENTILE SPEED OF EXISTING TRAFFIC.
W = WIDTH TRANSITIONED.
- FORMULA: FOR SPEED 45 MPH OR MORE, $L = S \times W$
- FOR SPEED 40 MPH OR LESS, $L = \frac{WS^2}{60}$
17. TRANSITION LINES
- SOLID YELLOW, 8 INCHES WIDE. THESE LINES ARE USED WHERE ADDITIONAL EMPHASIS OR VISIBILITY IS DESIRABLE AT PAVEMENT WIDTH TRANSITIONS. PLACE AT LOCATIONS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
18. SPEED MEASURING MARKING
- SOLID WHITE, 24 INCHES EXTEND 4 FEET FROM OUTSIDE OF EDGE LINES ON SHOULDERS.
19. ALL SPACING IS DETERMINED CENTER ON CENTER EXCEPT FOR DOUBLE LINES.

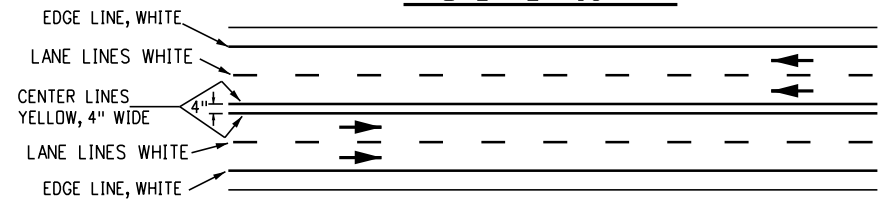
▲ NOTE:
AP = ADVANCE PLACEMENT DISTANCE FROM THE LANE ENDS SIGN (W4-2) TO THE BEGINNING OF THE MERGING TAPER. SEE SECTION 2C OF THE MUTCD FOR ADVANCE PLACEMENT DISTANCES.

LEGEND

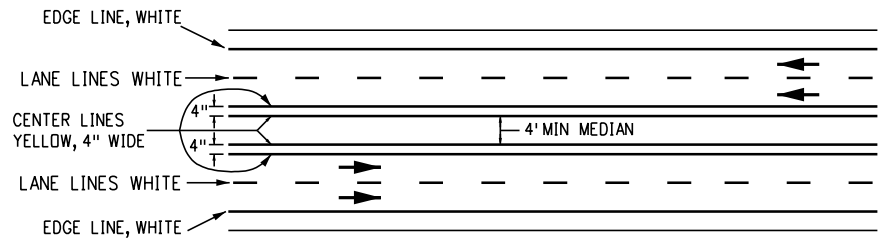
➔ Direction of Travel



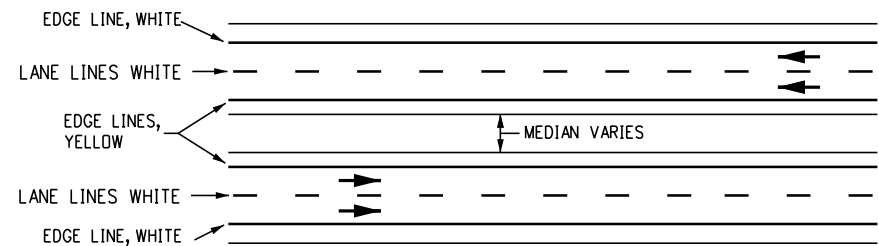
TWO LANE HIGHWAY



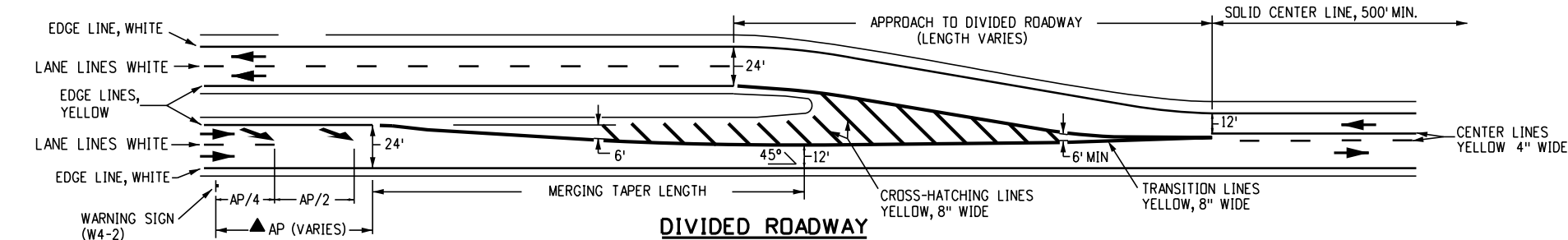
FOUR LANE UNDIVIDED HIGHWAY



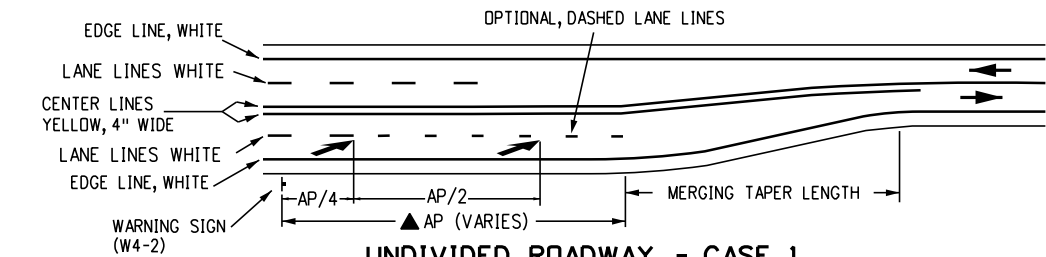
FOUR LANE PAINT DIVIDED HIGHWAY



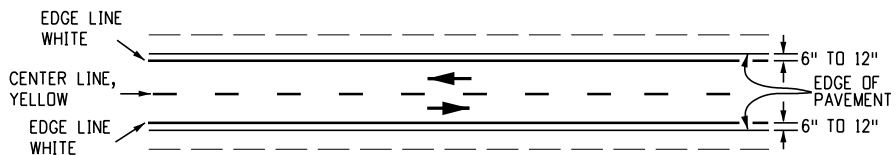
FOUR LANE DIVIDED HIGHWAY



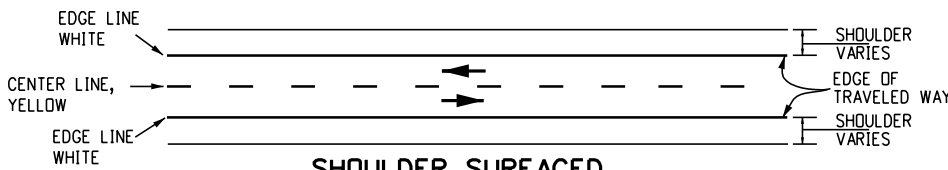
DIVIDED ROADWAY



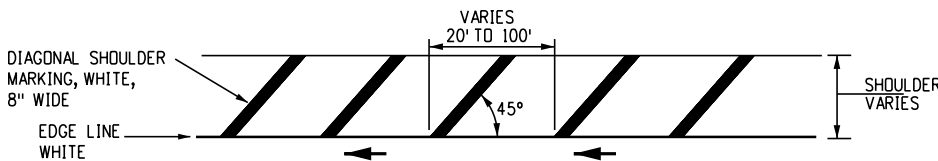
UNDIVIDED ROADWAY - CASE 1



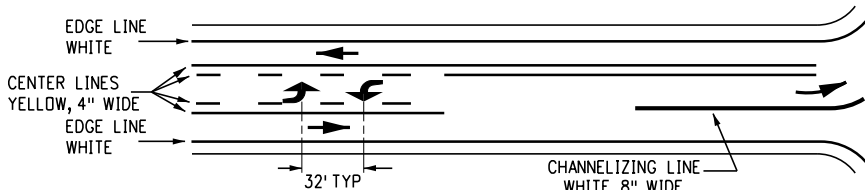
NO SHOULDER OR UNSURFACED SHOULDER



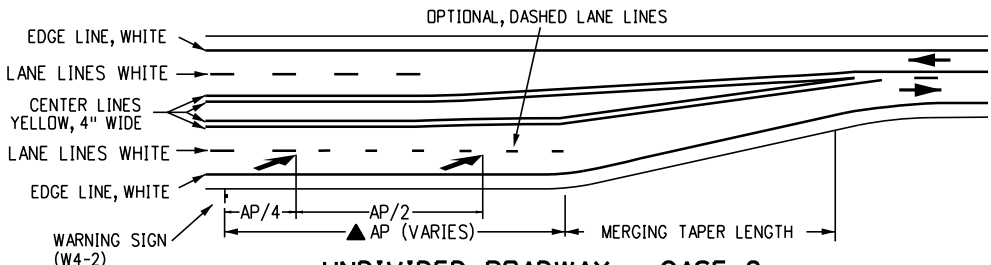
SHOULDER SURFACED



EDGE LINE WITH OPTIONAL DIAGONAL SHOULDER MARKING



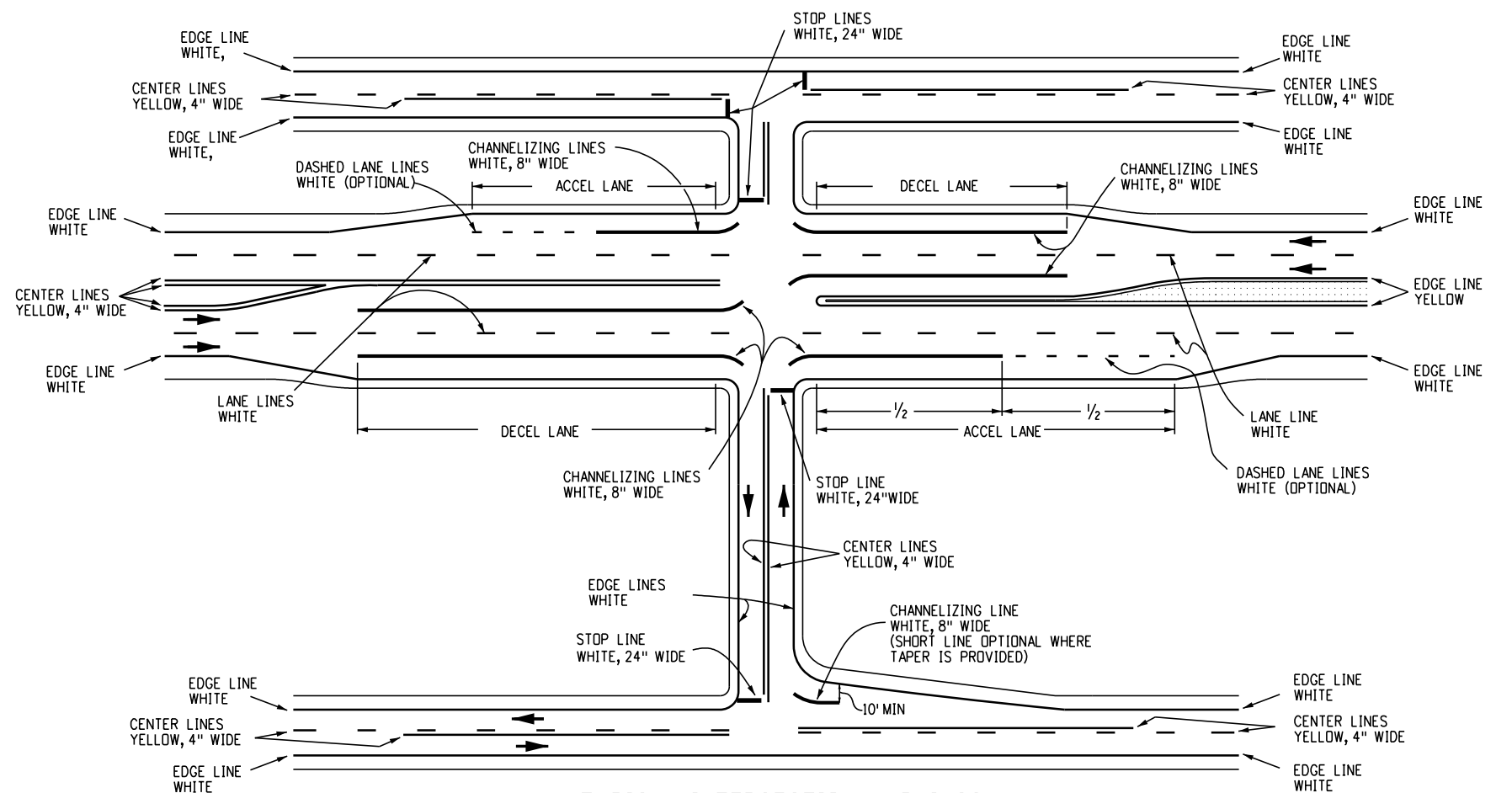
TYPICAL TWO WAY LEFT TURN LANE



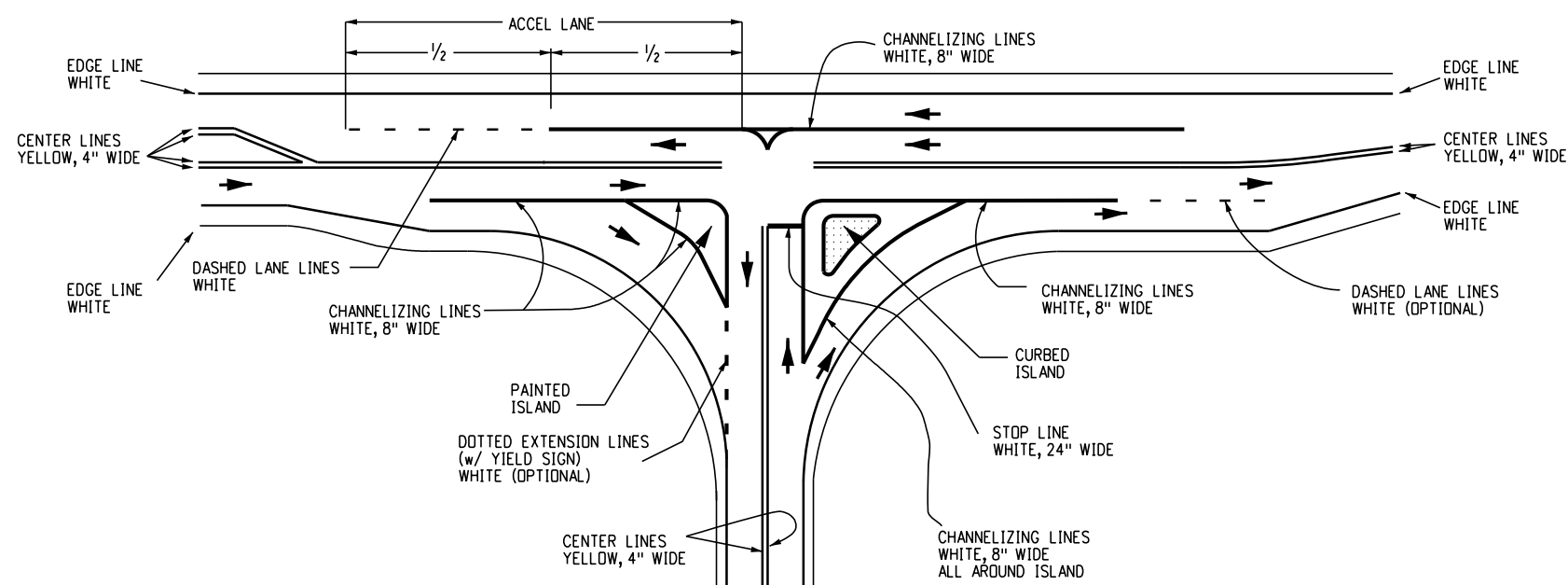
UNDIVIDED ROADWAY - CASE 2

TYPICAL PAVEMENT WIDTH TRANSITION MARKINGS

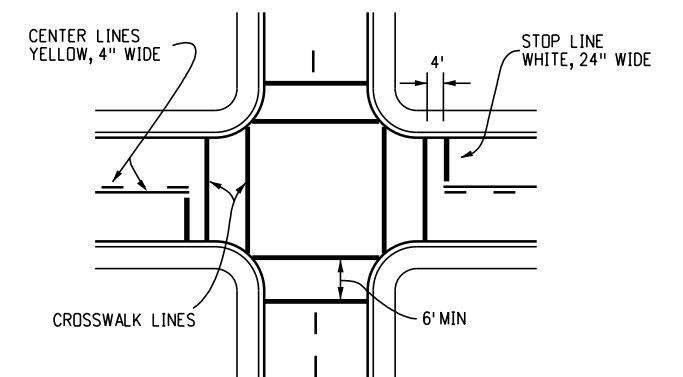
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Creation Date: 07/04/12		Date:	Comments	 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219	EB		S-627-1		
Created By: KEN	(R-6)	12/20/24	UPDATE DASHED LANE LINES				Standard Sheet No. 2 of 11		
Last Modification Date: 12/20/24	(R-5)	04/30/24	LANE REDUCTION ARROWS ADDED UPDATED UNDIVIDED AND DIVIDED ROADWAY		Project Sheet Number:				
Last Modified By: NRIVERA	(R-4)	04/14/23	ADD GENERAL NOTE 13 & UPDATE NUMBER OF SHEETS						
CAD Ver.:MicroStation V8 Scale:Not to Scale Units: English	(R-3)	07/22/22	GENERAL NOTES UPDATE		Issued By: Traffic Safety & Engineering Branch July 31, 2019				
				Traffic Safety & Engineering					



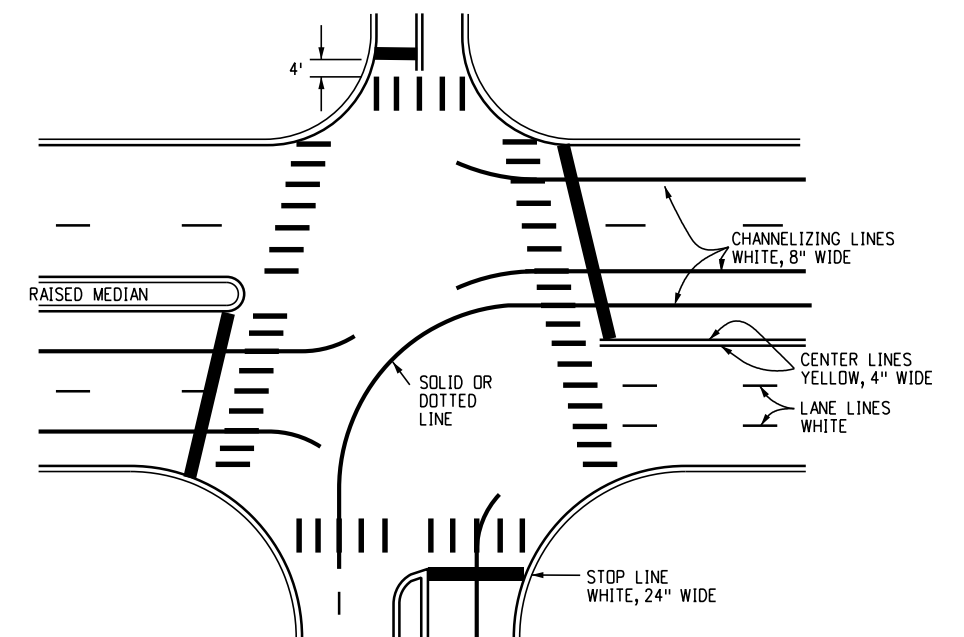
TYPICAL INTERSECTION MARKINGS



TYPICAL ISLAND MARKINGS



TYPICAL TRANSVERSE LINE CROSSWALK MARKINGS



TYPICAL CONTINENTAL CROSSWALK MARKINGS

CROSSWALK LINE DETAIL



LEGEND

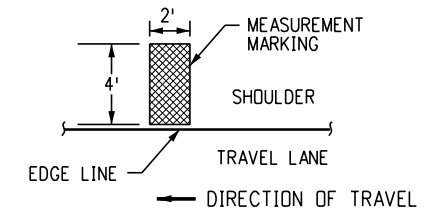
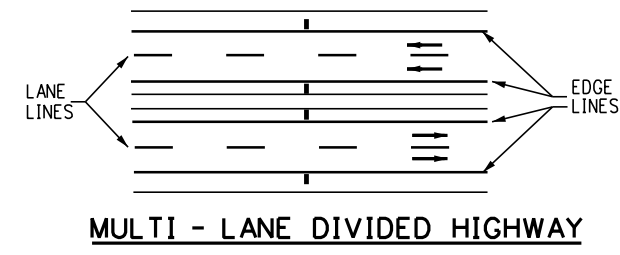
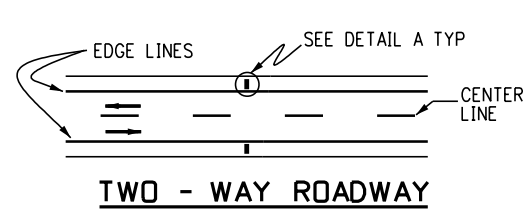
➔ Direction of Travel

CONTINENTAL CROSSWALK NOTES

1. CENTER CROSSWALKS ON CURB RAMPS. IF SUCH RAMPS ARE NOT PROVIDED, CENTER ON SIGNAL POLES WHEREVER PRACTICAL.
2. CENTER CROSSWALKS ON EDGE LINES, LANE LINES AND CHANNELIZING LINES.
3. CENTER CROSSWALKS BETWEEN ADJACENT LINES.
4. MARKINGS SHALL NOT BE WITHIN WHEEL PATH OF VEHICLES.
5. CENTER ON EXTENDED FLOW LINE.
6. LINES AND SPACES TO APPROXIMATE ADJACENT PATTERN.

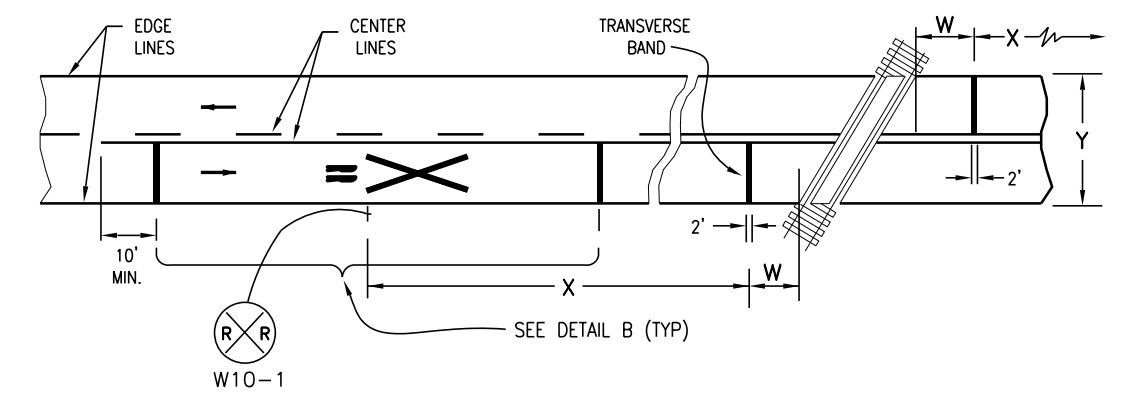
INTERSECTIONS, ISLANDS AND CROSSWALKS

Computer File Information		Sheet Revisions		Colorado Department of Transportation 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	PAVEMENT MARKINGS		STANDARD PLAN NO.	
Creation Date: 07/04/12		Date:	Comments		S-627-1		Standard Sheet No. 3 of 11	
Created By: JSW	(R-5)	12/20/24	UPDATED DASHED LANE LINES		Issued By: Traffic Safety & Engineering Branch July 31, 2019		Project Sheet Number:	
Last Modification Date: 12/20/24	(R-4)	04/14/23	UPDATED NUMBER OF SHEETS					
Last Modified By: NRIVERA	(R-3)	07/22/22	Changed Accel Lane Lines To Dotted Lane Lines					
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-2)	02/16/21	ADDED DEC TAPER TO TYPICAL ISLAND MARKINGS					

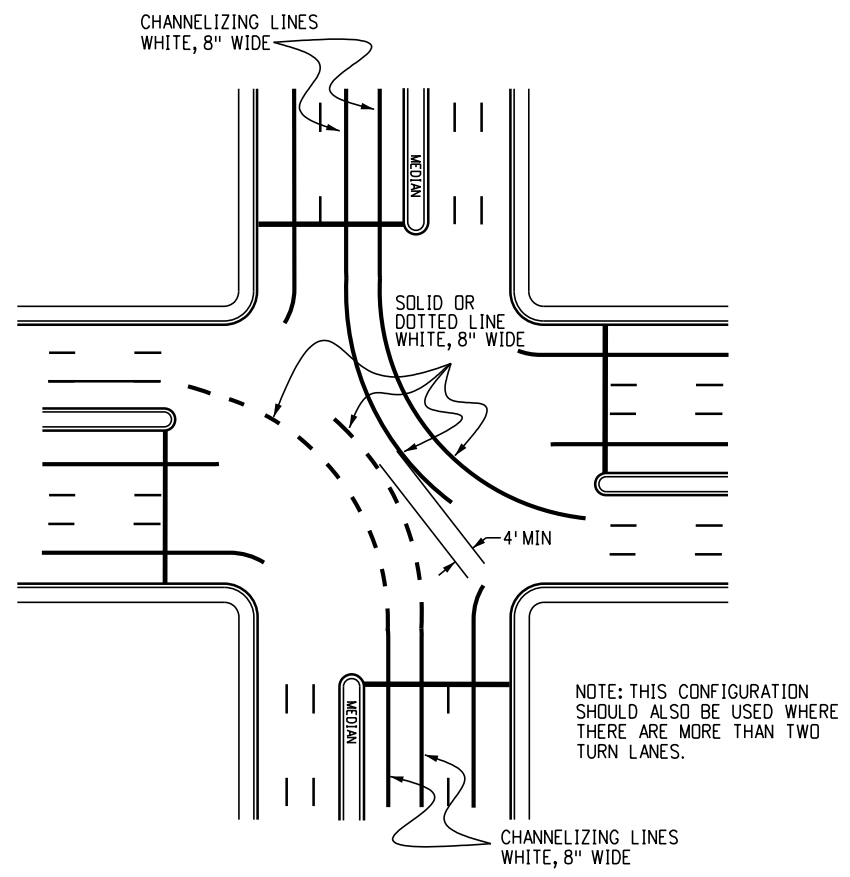


DETAIL A

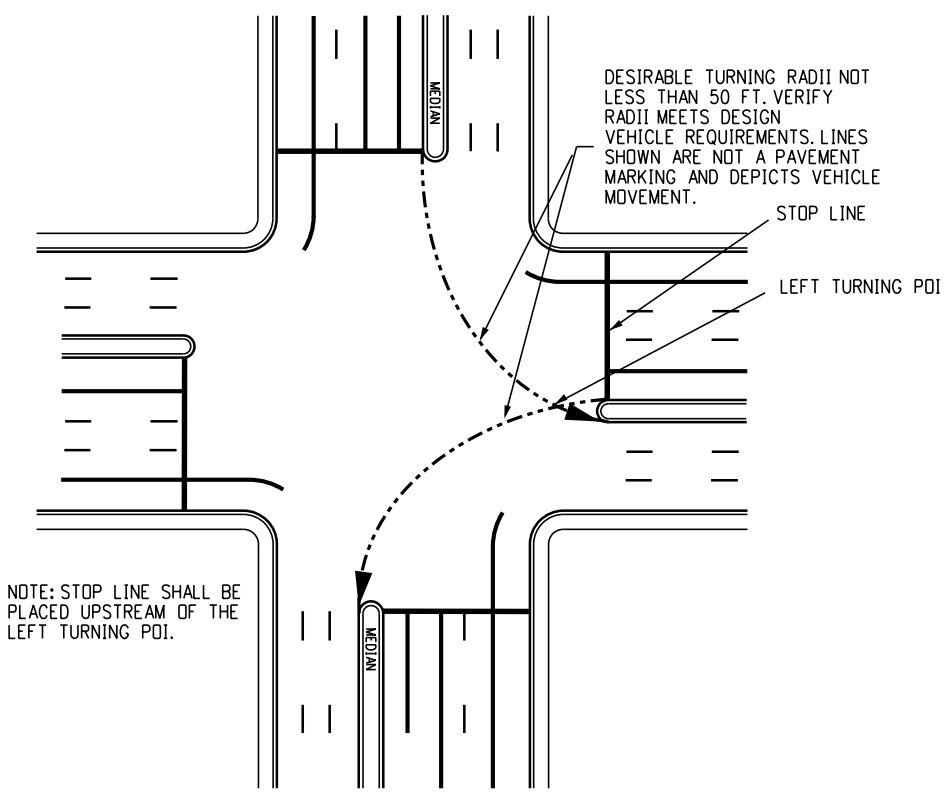
TYPICAL SPEED MEASUREMENT MARKING



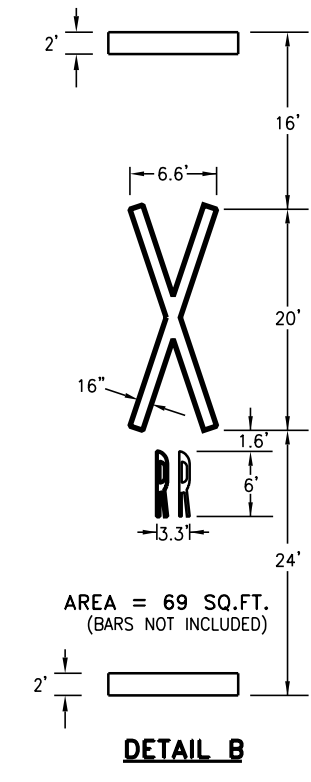
TYPICAL PAVEMENT MARKING AT RAILROAD CROSSING



TYPICAL DOUBLE LEFT TURN MARKINGS



TYPICAL STOP LINE PLACEMENT

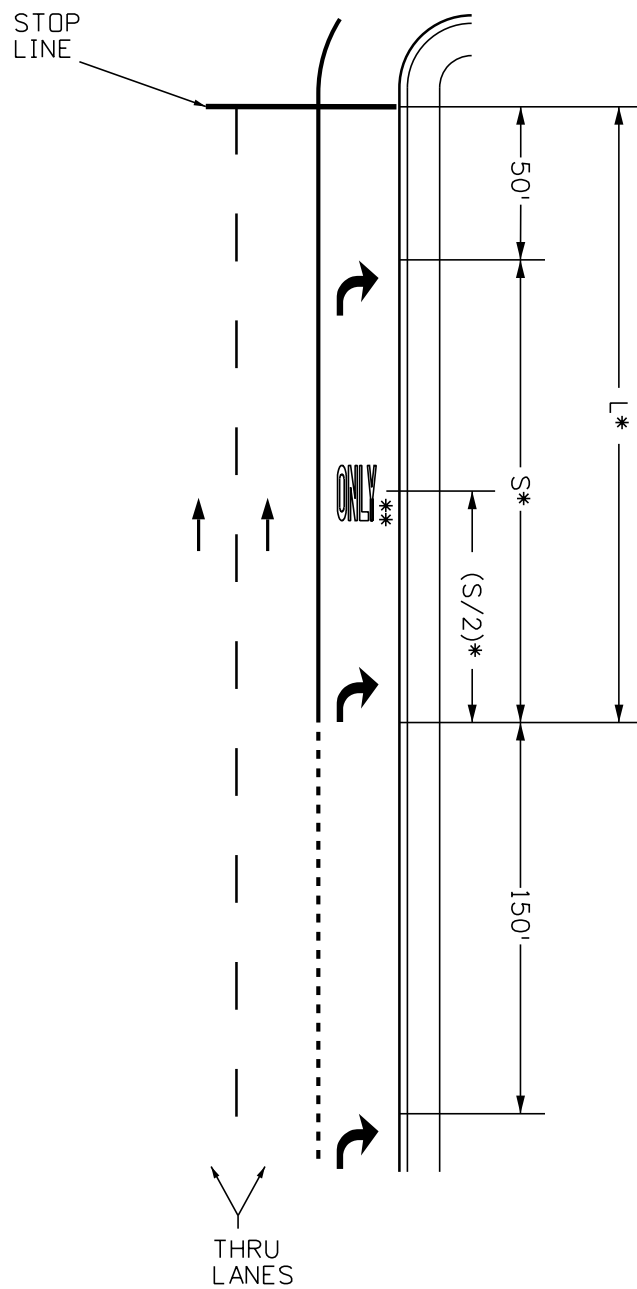


- W= APPROXIMATELY 15 FT. (STOP LINE SHOULD BE 8' IN ADVANCE OF ACTIVE TRAFFIC CONTROL SYSTEMS; I.E., AUTOMATIC GATES AND/OR FLASHING SIGNALS).
- X= THE DISTANCE FROM THE RAILROAD CROSSING MARKING TO THE NEAREST TRACK WILL VARY ACCORDING TO THE APPROACH SPEED AND THE SIGHT DISTANCE OF THE VEHICULAR TRAFFIC APPROACHING, BUT NOT LESS THAN 100 FT. (REFERENCE NOTE 1).
- Y= ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL RR SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

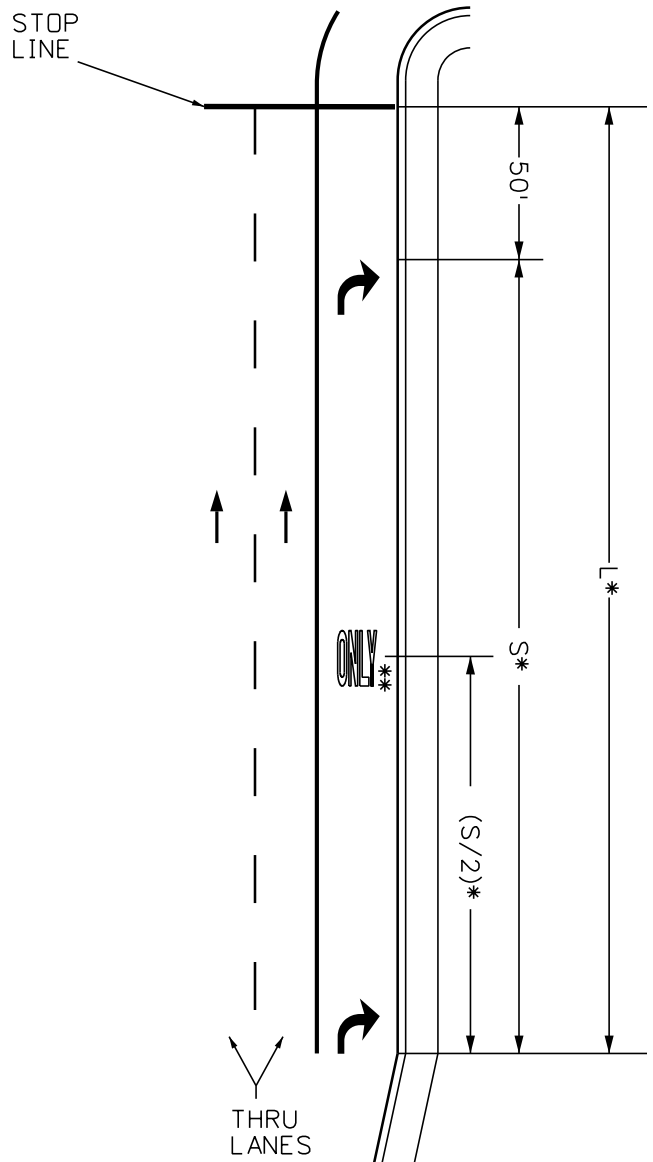
NOTES

1. THE WARNING SIGN SHALL BE PLACED ACCORDING TO THE WARNING SIGN PLACEMENT TABLE IN THE MUTCD (CHAPTER 2C, TABLE 2C-3). IF CONDITIONS DO NOT ALLOW PLACEMENT ACCORDING TO THE TABLE, IT SHALL BE AS APPROVED BY THE ENGINEER.
2. FOR RR SYMBOL DETAILS, REFER TO "THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION.

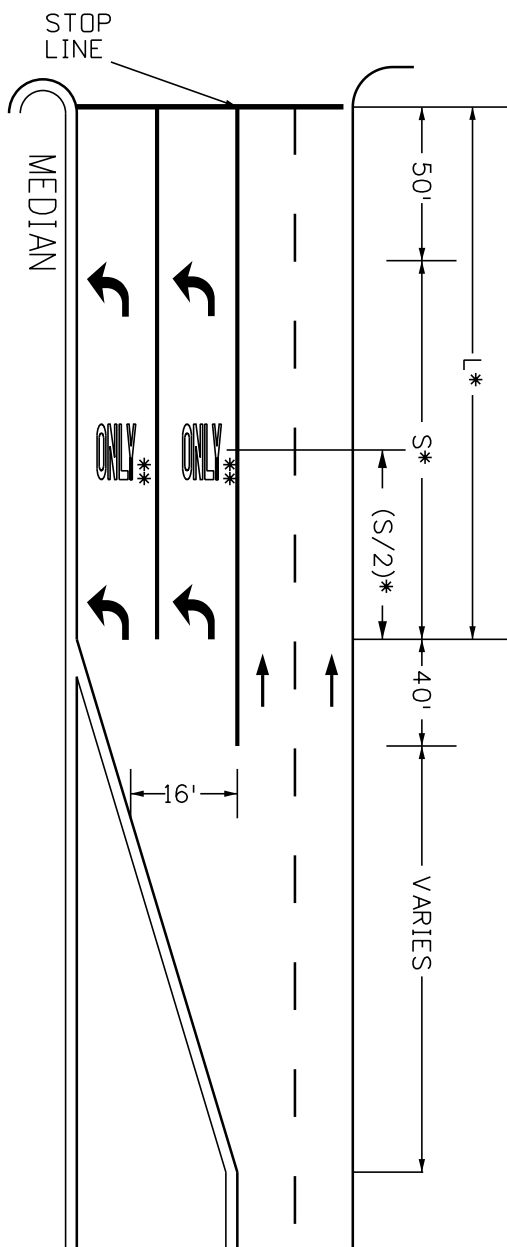
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Creation Date: 07/04/12			Date:	Comments		S-627-1			
Created By: SCL			04/14/23	UPDATED NUMBER OF SHEETS		Standard Sheet No. 4 of 11			
Last Modification Date: 04/14/23						Project Sheet Number:			
Last Modified By: AVu						Issued By: Traffic Safety & Engineering Branch July 31, 2019			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English									



LANE DROP



POCKET LANE



DOUBLE TURNING

GENERAL NOTES

- 1. THE SPACING, IN THE TABLE APPLIES TO LEFT & RIGHT TURN LANES.
- * 2. THE 'ONLY' WORD MARKING IS OPTIONAL. CONTACT THE REGION TRAFFIC ENGINEER FOR GUIDANCE.
- 3. WHEN ONE (1) ARROW IS USED, IT SHALL BE PLACED AT THE BEGINNING OF THE FULL WIDTH TURN LANE, OTHERWISE USE THE TABLE BELOW FOR ARROW PLACEMENT.

LENGTH (L)	LEFT AND RIGHT TURN ARROW		NO. OF 'ONLY' PER LANE
	NO. OF ARROWS PER LANE	SPACING (S)	
L < 200'	1	NA	NA
200' - 350'	2	EVENLY SPACED BETWEEN 150'-300'	1
350' - 650'	3		2
650' - 950'	4		3
950' ≤	≥5		≥4

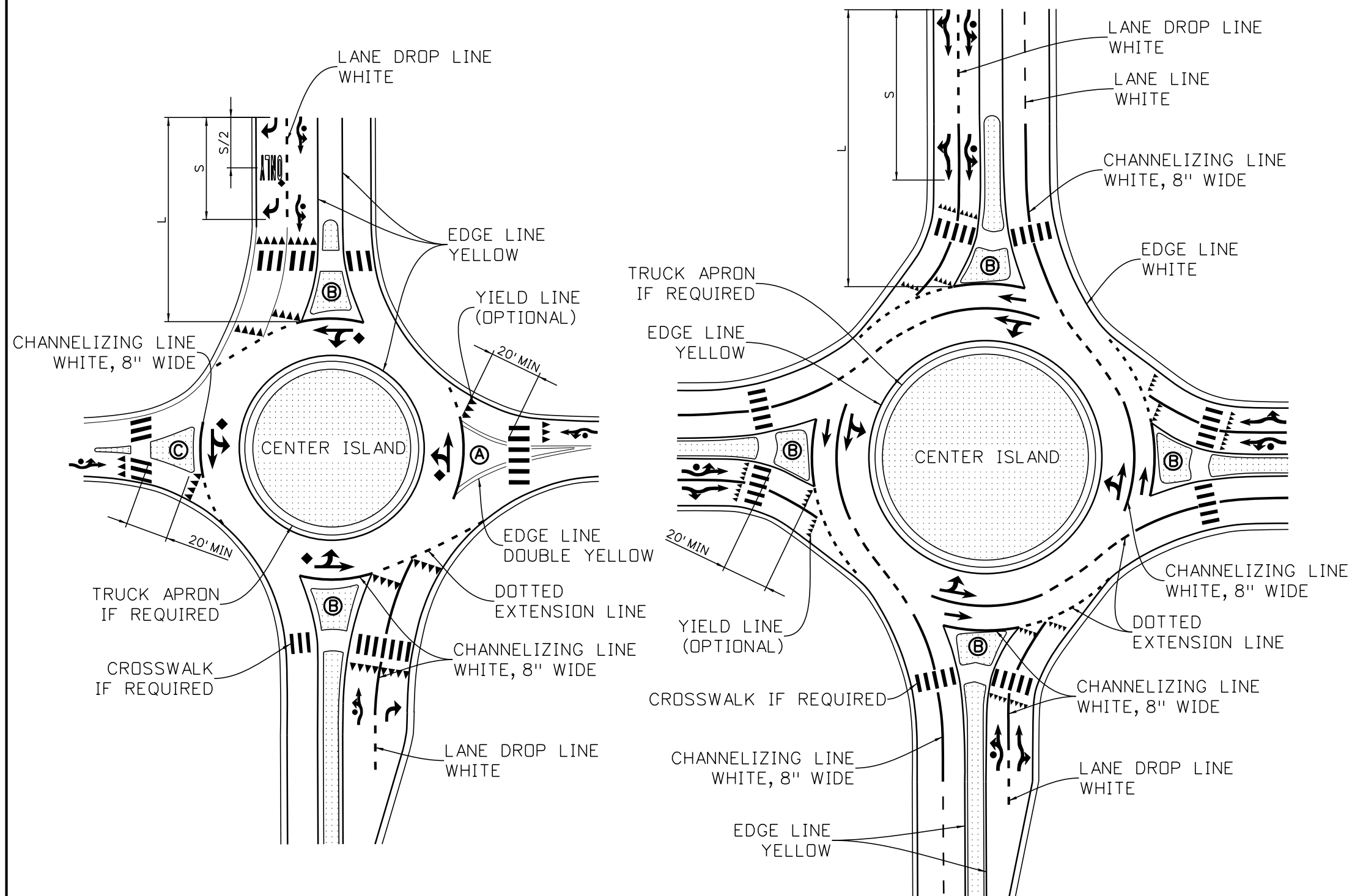
*L (LENGTH) AND *S (SPACING) PROVIDED IN THE TABLE ABOVE WILL HELP DETERMINE THE NUMBER OF ARROWS AND ONLY MARKINGS NEEDED PER LANE.

LEGEND

→ Direction of Travel

ARROW PLACEMENTS AT INTERSECTIONS

Computer File Information		Sheet Revisions		Colorado Department of Transportation Traffic Safety & Engineering EB	PAVEMENT MARKINGS Issued By: Traffic Safety & Engineering Branch July 31, 2019	STANDARD PLAN NO.	
Creation Date: 02/08/17		Date:	Comments			S-627-1	
Created By: MBhat		01/24/26	REVISED NOTE 2			Standard Sheet No. 5 of 11	
Last Modification Date: 01/24/26		04/14/23	UPDATED NUMBER OF SHEETS			Project Sheet Number:	
Last Modified By: AVu							
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							



SINGLE LANE ROUNDABOUT (TYPICAL)
NOTE: SPLITTER ISLAND MAY BE FORMED BY TWO YELLOW LINES, RAISED NON-MOUNTABLE, OR RAISED MOUNTABLE.

TWO LANE ROUNDABOUT (TYPICAL)

ROUNDABOUT PAVEMENT MARKINGS

NOTES

- 1. UNLESS SHOWN IN THIS STANDARD, THE WIDTHS OF PAVEMENT MARKINGS SHALL MATCH THE LARGEST LINE WIDTH OF THE ADJACENT FACILITIES.
- 2. PAVEMENT MARKING LINES ALONG NON-MOUNTABLE SPLITTER ISLANDS ARE OPTIONAL.
- 3. NORMAL LANE-USE ARROWS SHALL BE USED IN THE ROUNDABOUT.
- 4. NORMAL OR FISH-HOOK LANE-USE ARROWS MAY BE USED ON THE APPROACH. ADVANCED SIGNING SHALL MATCH THE PAVEMENT MARKING USED.
 - A. WHEN ONE (1) ARROW IS USED ON THE APPROACH, IT SHALL BE PLACED AT THE BEGINNING OF THE CHANNELIZING LINE. OTHERWISE, USE TABLE BELOW.
- 5. THE INSCRIBED OVAL IS OPTIONAL AND MAY BE COMBINED WITH THE LANE-USE ARROW IN THE LEFT-MOST LANE.
- 6. SEE SHEET 10 FOR LANE-USE ARROW DIMENSIONS.
- 7. YIELD LINES UTILIZED AT CROSSWALK SHALL BE PLACED 20 TO 50 FEET IN ADVANCED OF THE CROSSWALK.

LENGTH (L)	LEFT AND RIGHT TURN ARROW		NO. OF 'ONLY' PER LANE
	NO. OF ARROWS PER LANE	SPACING (S)	
L < 200'	1	NA	NA
200' - 350'	2	EVENLY SPACED BETWEEN 150'-300'	1
350' - 650'	3		2
650' - 950'	4		3
950' ≤	≥5		≥4

LEGEND

- Ⓐ SPLITTER ISLAND FORMED BY TWO YELLOW LINES
- Ⓑ RAISED NON-MOUNTABLE SPLITTER ISLAND
- Ⓒ MOUNTABLE SPLITTER ISLAND
- ◆ OPTIONAL

Computer File Information	
Creation Date: 04/14/23	
Created By: AVu	
Last Modification Date: 12/20/24	
Last Modified By: NRIVERA	
CAD Ver.: MicroStation V8	Scale: Not to Scale Units: English

Sheet Revisions	
Date:	Comments
12/20/24	UPDATE DOTTED EXTENSION LINES



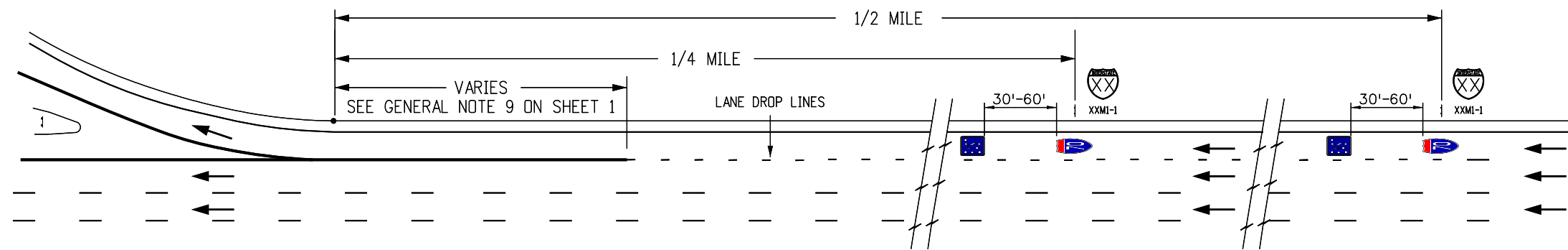
Colorado Department of Transportation
2829 W. Howard Pl.
Denver, CO 80204
Phone: 303-757-9654
FAX: 303-757-9219

Traffic Safety & Engineering **EB**

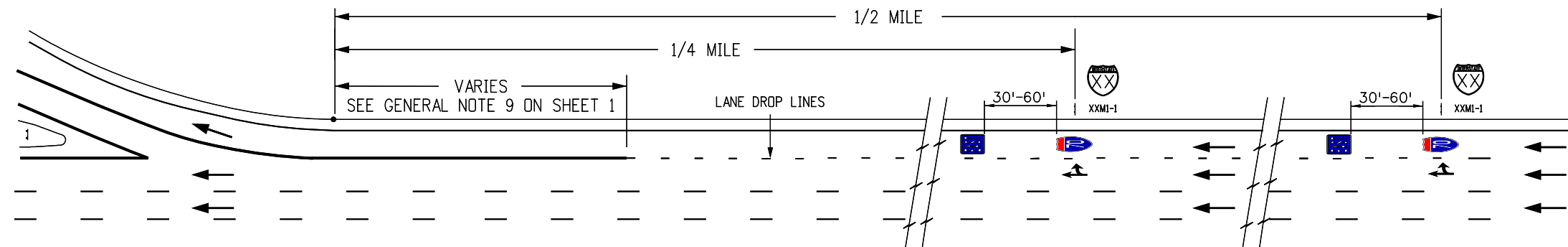
PAVEMENT MARKINGS

Issued By: Traffic Safety & Engineering Branch July 31, 2019

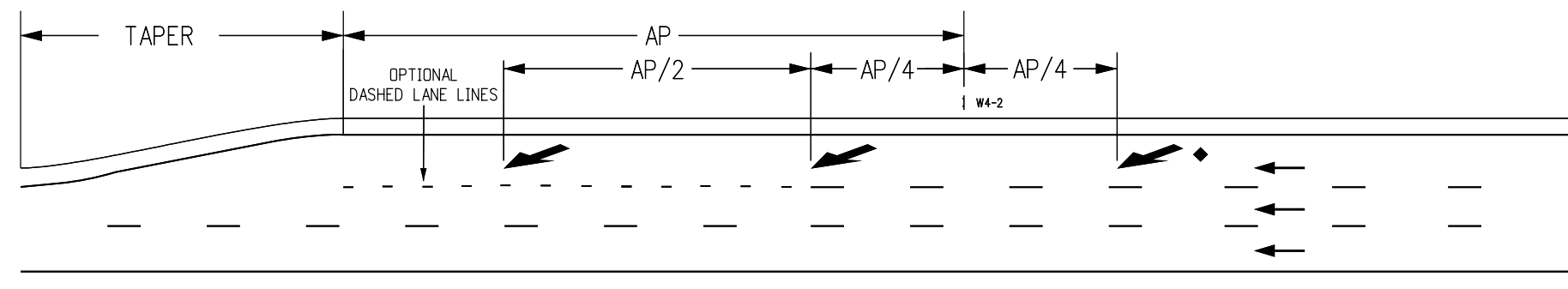
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S-627-1
Standard Sheet No. 6 of 11
Project Sheet Number:



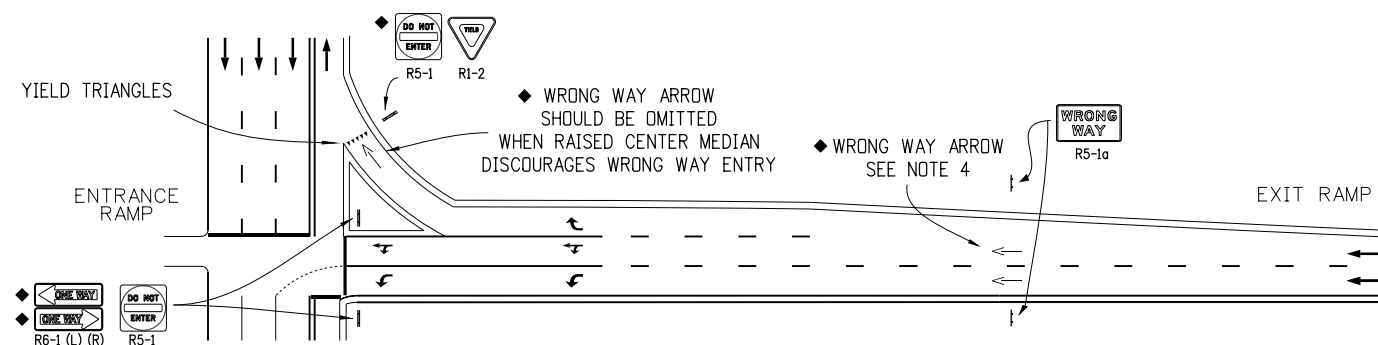
TYPICAL SHIELD PLACEMENT



TYPICAL SHIELD & OPTION ARROW PAVEMENT MARKING PLACEMENT

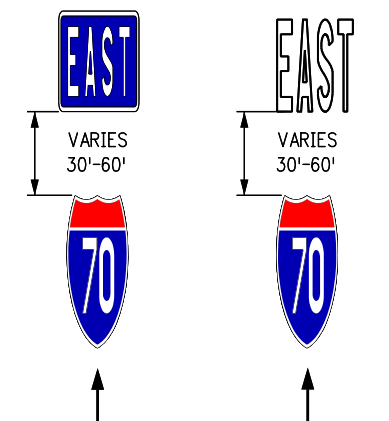


LANE REDUCTION MARKINGS



TYPICAL WRONG WAY WAY ARROW MARKING PLACEMENT

SHIELD LAYOUT DETAIL



NOTES

- SHIELD AND CARDINAL DIRECTION PAVEMENT MARKINGS ARE OPTIONAL AND SHALL BE INSTALLED AS SHOWN IN THE PLANS.
- LANE-REDUCTION ARROW MARKINGS ARE NOT REQUIRED FOR ACCELERATION LANES. LANE-REDUCTION ARROW MARKINGS MAY BE INSTALLED IN LONG ACCELERATION LANES AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
- LANE-REDUCTION ARROW MARKINGS ARE OPTIONAL FOR SPEEDS LESS THAN 45 MPH.
- WRONG WAY ARROW MARKINGS MAY BE INSTALLED AS DIRECTED BY THE ENGINEER. IF USED, WRONG WAY ARROW MARKINGS SHALL BE THE LAST ARROW MARKING IN SEQUENCE FROM THE INTERSECTION TO THE BEGINNING OF THE EXIT RAMP.
- REFER TO SHEET 5 FOR LANE USE ARROW PLACEMENT AT INTERSECTIONS. SEE ARROW DETAILS ON SHEETS 9 AND 10.
- SEE NOTE 2 "CARDINAL DIRECTIONS" ON SHEET 11

LEGEND

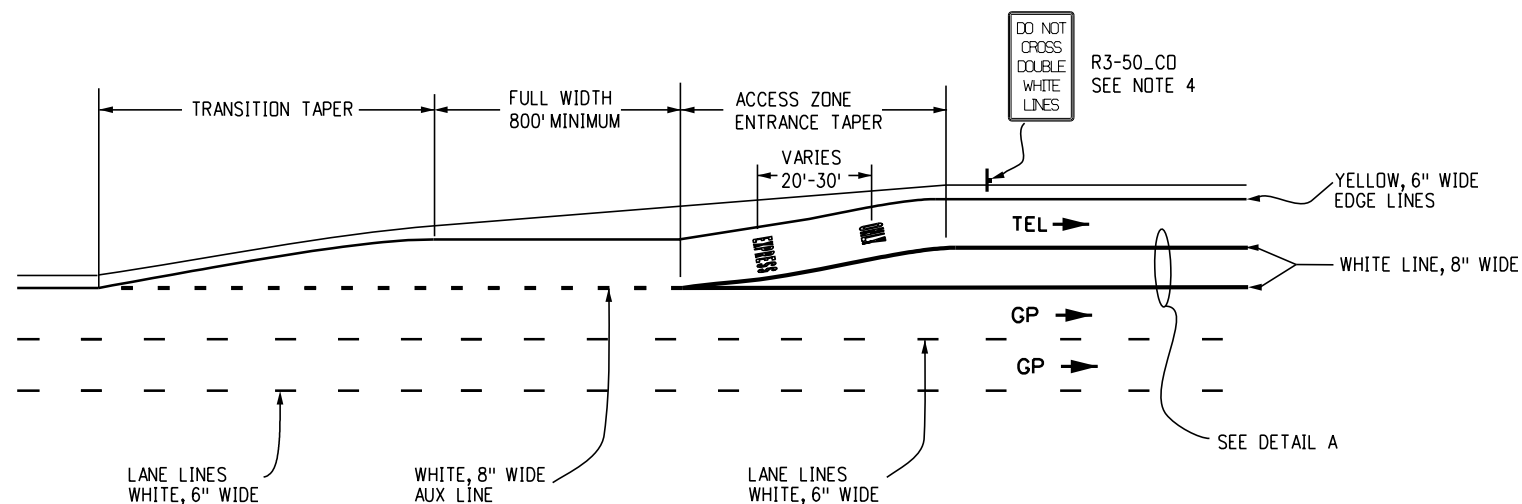
← DIRECTION OF TRAVEL

AP = ADVANCE PLACEMENT DISTANCE FROM THE LANE ENDS SIGN (W4-2) TO THE BEGINNING OF THE MERGING TAPER. SEE SECTION 2C OF THE MUTCD FOR ADVANCE PLACEMENT DISTANCES.

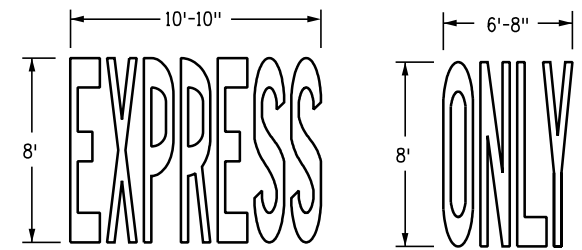
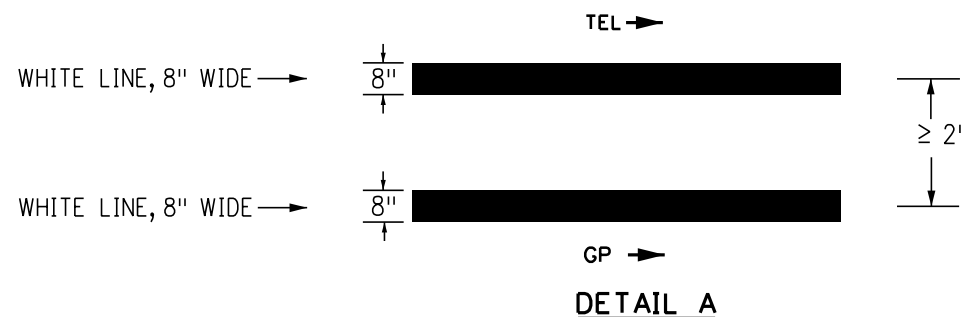
◆ OPTIONAL

TYPICAL ARROW AND SHIELD PAVEMENT MARKINGS

Computer File Information		Sheet Revisions		Colorado Department of Transportation 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219	PAVEMENT MARKINGS Issued By: Traffic Safety & Engineering Branch July 31, 2019	STANDARD PLAN NO.
Creation Date: 02/08/17		Date:	Comments			S-627-1
Created By: MBhat	(R-4)	12/20/24	ADDED TYPICAL WRONG WAY ARROW DETAIL	Traffic Safety & Engineering EB	Standard Sheet No. 7 of 11 Project Sheet Number:	
Last Modification Date: 12/20/24	(R-3)	04/30/24	NOTES, LEGEND, AND ALL DETAILS UPDATED			
Last Modified By: NRIVERA	(R-2)	04/14/23	UPDATED SHEET NUMBER			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-1)	07/22/22	Lane Drop to Thru Lane Reduction Markings			



**TYPICAL ENTRANCE MARKING FOR BUFFER
WIDTH ≥2' AND WHERE BUFFER CROSSING IS PROHIBITED**



GENERAL NOTES

- FOR TRANSITION TAPER USE 25:1 RATIO.
- FOR ACCESS ZONE ENTRANCE TAPER LENGTH USE:
 $L = S \times W$
 L = MINIMUM LENGTH OF TAPER
 S = DESIGN SPEED FOR NEW CONSTRUCTION OR NUMERICAL VALUE OF THE POSTED SPEED LIMIT
 W = WIDTH TRANSITIONED
- IF BUFFER SPACE IS WIDER THAN 4 FEET, CHEVRON MARKINGS SHOULD BE INSTALLED (SEE MUTCD SECTION 3B.25, 3E.02, AND FIGURE 3E-2(A)).
- FOR EACH SECTION PROHIBITING ENTERING AND EXITING MOVEMENTS, THE R3-50_CD SIGN SHALL BE INSTALLED WITHIN 300 FEET OF THE START OF THE EXPRESS LANE. ADDITIONAL R3-50_CD SIGNAGE SHALL BE INSTALLED AS SHOWN IN THE PLANS.
- FOR EACH SECTION PROHIBITING ENTERING AND EXITING MOVEMENTS, AN EXPRESS ONLY MARKING SHOULD BE PLACED WITHIN 50 FEET OF THE START OF THE EXPRESS LANE.
- EXPRESS ONLY MARKINGS SHOULD SUPPLEMENT THE SIGNS.

LEGEND

TEL - TOLL/EXPRESS LANE
GP - GENERAL PURPOSE LANE
➡ - DIRECTION OF TRAVEL

TOLL EXPRESS LANE PAVEMENT MARKINGS

Computer File Information		Sheet Revisions		Colorado Department of Transportation		PAVEMENT MARKINGS		STANDARD PLAN NO.	
Creation Date: 07/31/19		Date:	Comments	 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219	EB	S-627-1		Standard Sheet No. 8 of 11	
Created By: EButta	(R-4)	01/14/26	REVISED NOTE 3						
Last Modification Date: 01/14/26	(R-3)	12/20/24	REVISED LANE LINE TYPES						
Last Modified By: NRIVERA	(R-2)	04/14/23	ADD LEGEND & UPDATED SHEET NUMBER			Issued By: Traffic Safety & Engineering Branch July 31, 2019		Project Sheet Number:	
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-1)	04/17/20	STRIPING LAYOUT & GENERAL NOTE UPDATE						

WORD AND SYMBOL NOTES

- 1. IF HEIGHT IS INCREASED OR DECREASED THEN ALL MEASUREMENTS CHANGE PROPORTIONATELY. EXAMPLE: "H" MEASUREMENT FOR STOP IS REDUCED TO 4 FT. FROM 8 FT. THEN SQUARE FEET 5.75 (1/4 OF 23.0 SQ. FT.).
- 2. PAVEMENT WORD AND SYMBOL MARKINGS, TRANSVERSE AND LONGITUDINAL (CONTINENTAL) CROSSWALK LINES, AND STOP LINES WILL BE PAID FOR IN SQUARE FEET USING THEIR SPECIFIC BID ITEMS.
- 3. LETTER SPACING SHALL BE 8 IN. EXCEPT FOR THE LETTER "A" WHICH IS 6 IN..
- 4. USE THE MARKING WORD "BIKE" IF 6 FT. TO 8 FT. BIKE LANES ARE INSTALLED.

TAPERING NOTES

- 1. ALL PAVEMENT MARKING APPROACH EDGES FROM THE VEHICLE DIRECTION OF TRAVEL SHALL BE TAPERED USING A PUTTY KNIFE OR SIMILAR TOOL.

DESIGNATED PAYMENT AREAS

FOR THE FOLLOWING H, W, AND S DIMENSIONS PAY:

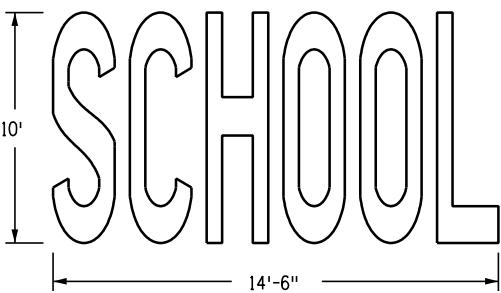
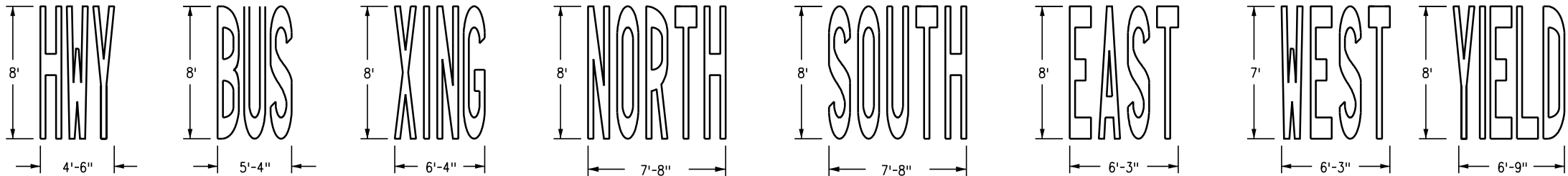
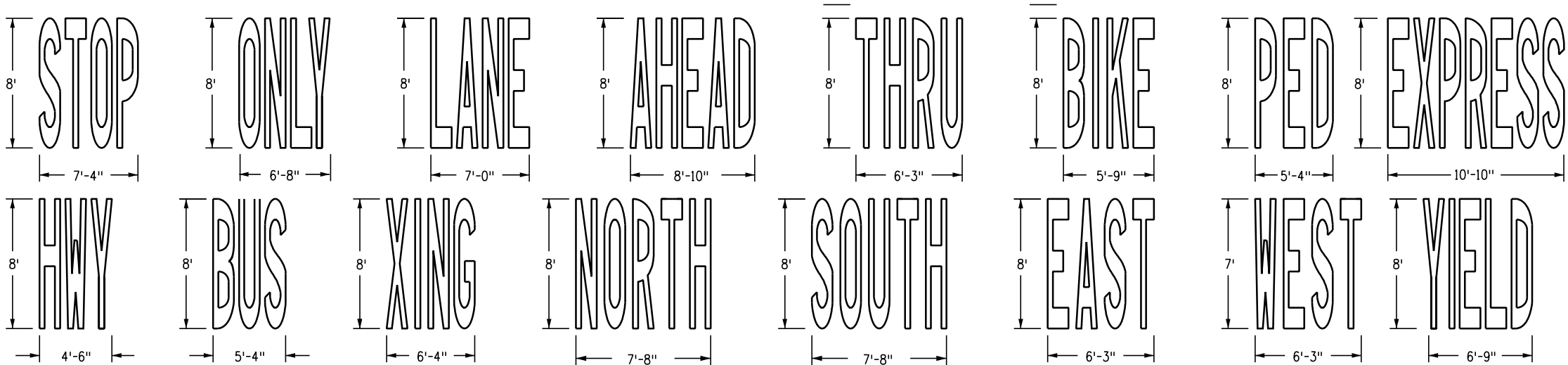
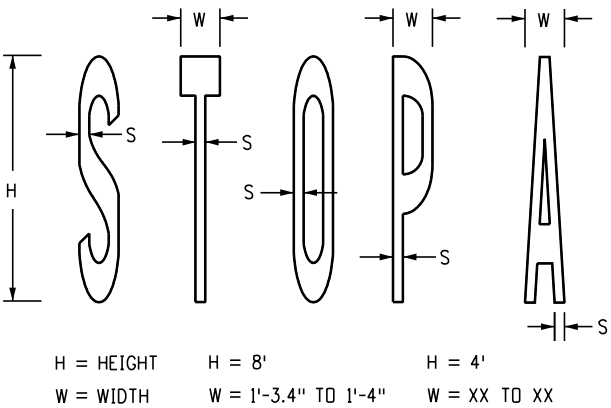
H = 4' WORDS

BIKE - 5.5 SQ.FT. LANE - 6.0 SQ.FT.
ONLY - 6.0 SQ.FT. XING - 5.0 SQ.FT.

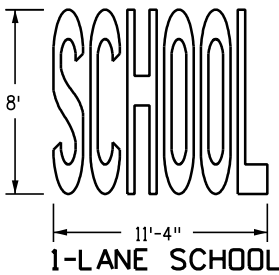
H = 8' WORDS

STOP - 23.0 SQ.FT. XING - 20.0 SQ.FT.
ONLY - 22.5 SQ.FT. LANE - 22.5 SQ.FT.
AHEAD - 29.0 SQ.FT. BIKE - 21.0 SQ.FT.
BUS - 18.5 SQ.FT. HWY - 16.5 SQ.FT.
SCHOOL(1L) - 33.0 SQ.FT. THRU - 22.0 SQ.FT.
SCHOOL(2L) - 85.0 SQ.FT. PED - 17.5 SQ.FT.
NORTH - 30.6 SQ.FT. SOUTH - 28.5 SQ.FT.
EAST - 22.1 SQ.FT. WEST - 23.7 SQ.FT.
X with RR - 69 SQ.FT. EXPRESS - 41 SQ.FT.
YIELD - 23 SQ.FT.

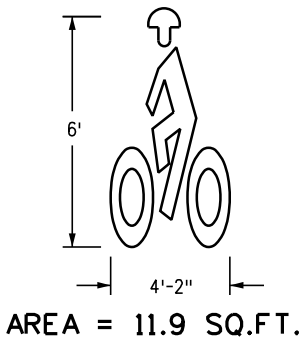
TYPICAL LETTER MEASUREMENTS



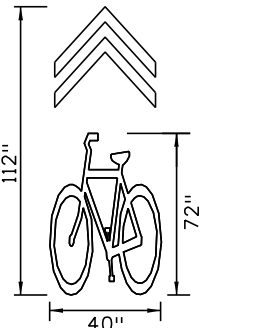
STROKE = 8"
2-LANE SCHOOL



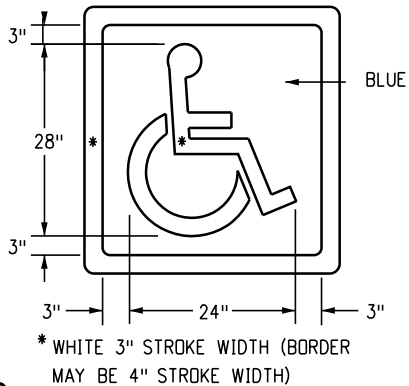
1-LANE SCHOOL



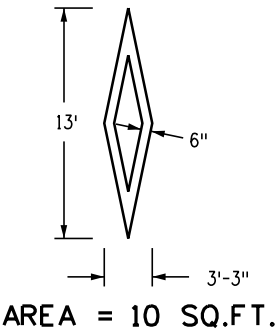
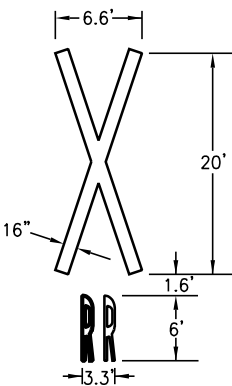
AREA = 11.9 SQ.FT.



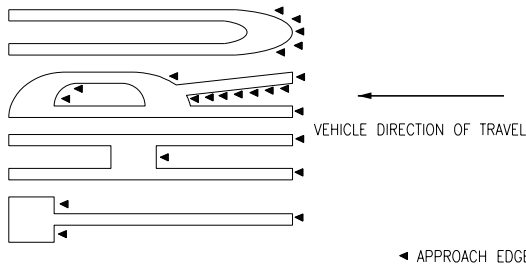
"SHARROW"
SHARED LANE MARKING



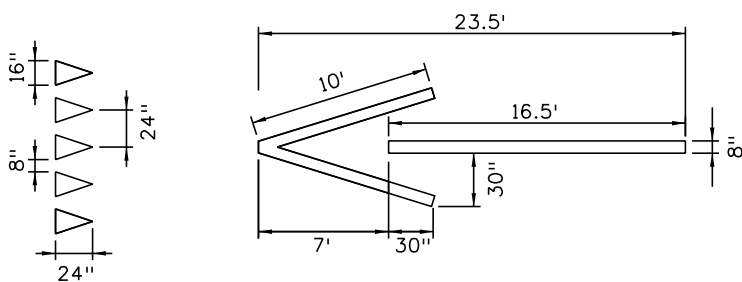
* WHITE 3" STROKE WIDTH (BORDER MAY BE 4" STROKE WIDTH)



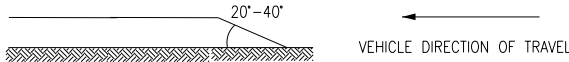
AREA = 10 SQ.FT.



TYPICAL APPROACH EDGE TAPERING VIEW



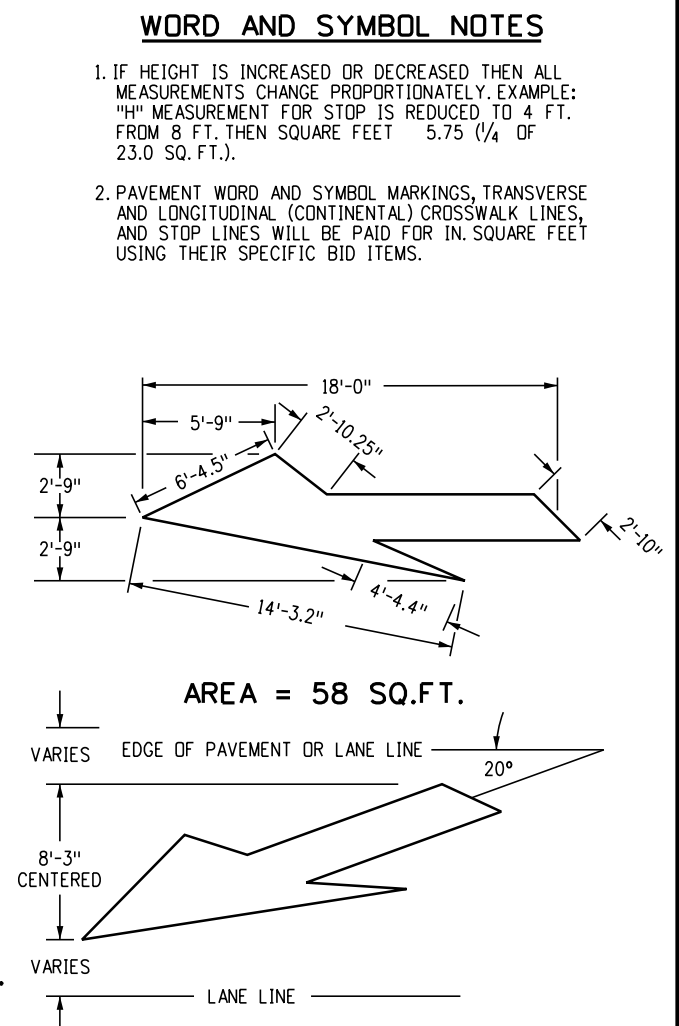
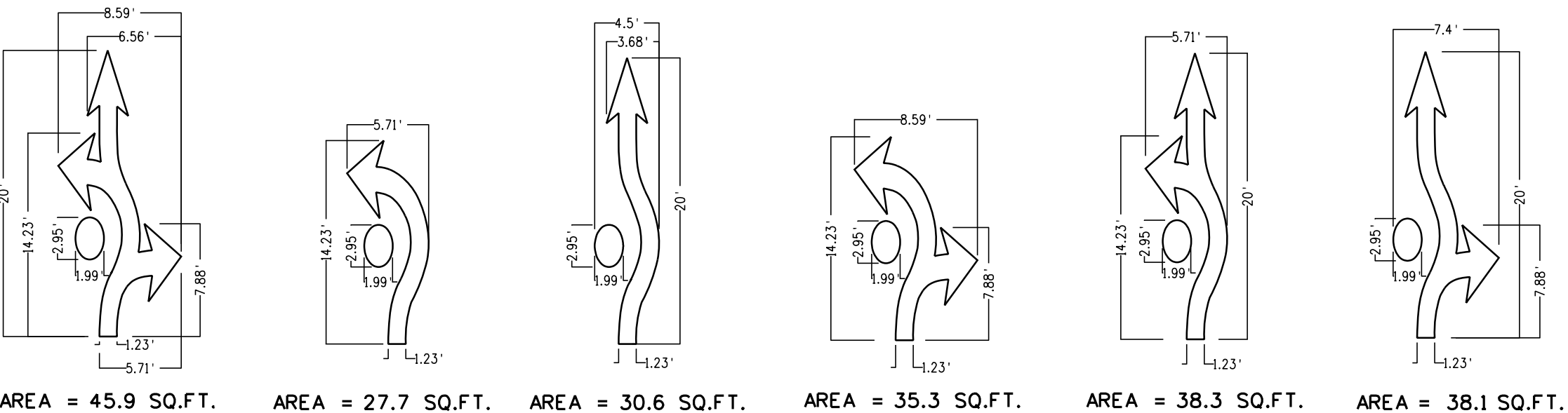
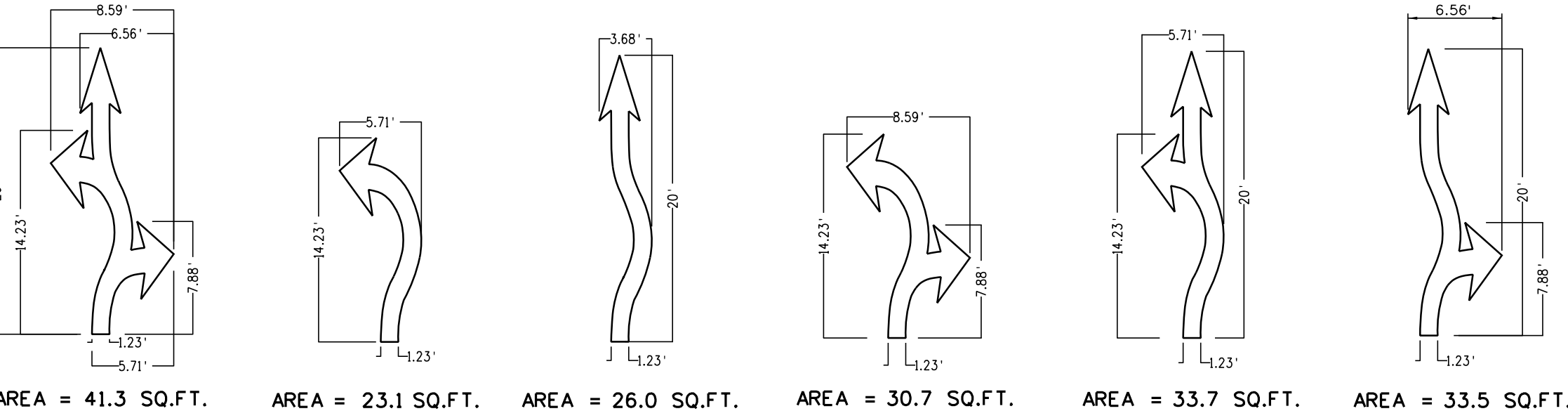
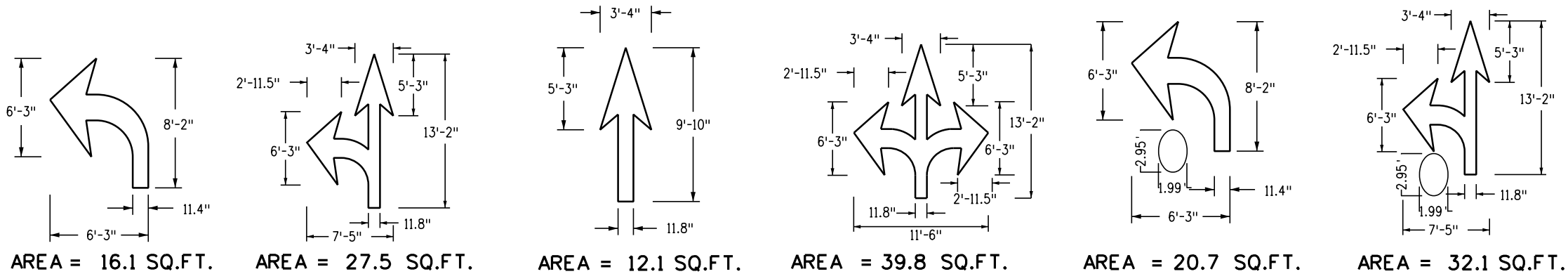
TYPICAL YIELD TRIANGLES AND WRONG WAY ARROW



TYPICAL APPROACH EDGE TAPERING PROFILE VIEW

PAVEMENT MARKING WORDS AND SYMBOLS (PAGE 1)

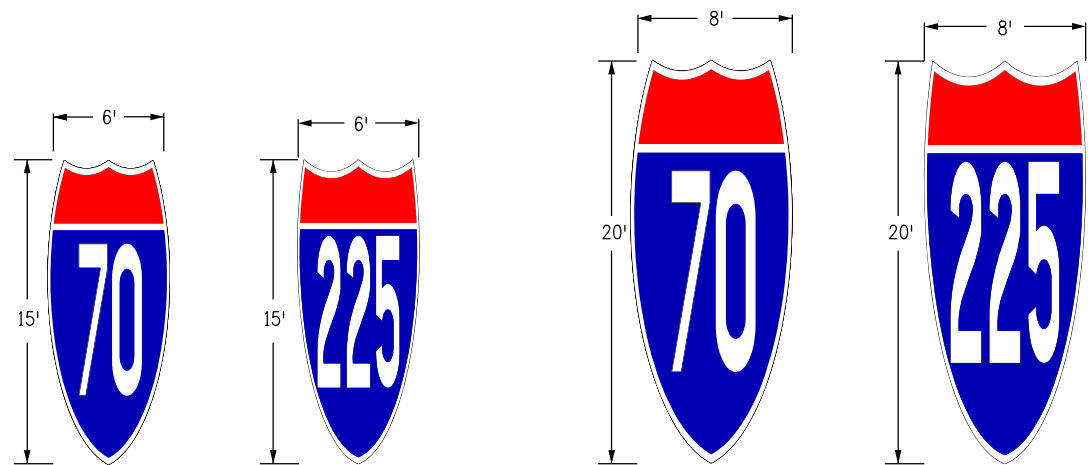
Computer File Information		Sheet Revisions		Colorado Department of Transportation  2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	PAVEMENT MARKINGS		STANDARD PLAN NO.		
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Created By: SCL	R-3	01/14/26	ADDED SHARROW SYMBOL						
Last Modification Date: 01/14/26	R-2	12/20/24	YIELD TRIANGLES AND WRONG WAY ARROW						
Last Modified By: NRIVERA	R-1	04/14/23	MOVED ARROWS DIMENSIONS TO SHEET 10						
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English			UPDATED SHEET NUMBER			Issued By: Traffic Safety & Engineering Branch July 31, 2019		Project Sheet Number:	



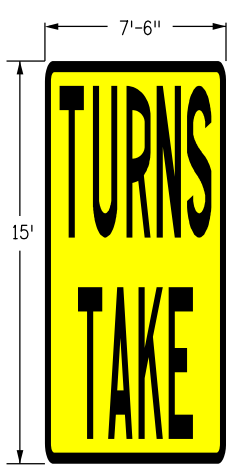
PAVEMENT MARKING WORDS AND SYMBOLS (PAGE 2)

Computer File Information		R-1 0000	Sheet Revisions		Colorado Department of Transportation		PAVEMENT MARKINGS		STANDARD PLAN NO.	
Creation Date: 04/14/23			Date:	Comments	2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB				S-627-1	
Created By: AVu			01/14/26	MOVED LANE REDUCTION ARROW DETAILS TO SHEET 10			Standard Sheet No. 10 of 11			
Last Modification Date: 01/14/26										
Last Modified By: NRIVERA										
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							Issued By: Traffic Safety & Engineering Branch July 31, 2019			
						Project Sheet Number:				

ELONGATED INTERSTATE ROUTE SHIELDS



LATE/ZIPPER MERGE



AREA = 112.5 SQ.FT.

DESIGNATED PAYMENT AREAS

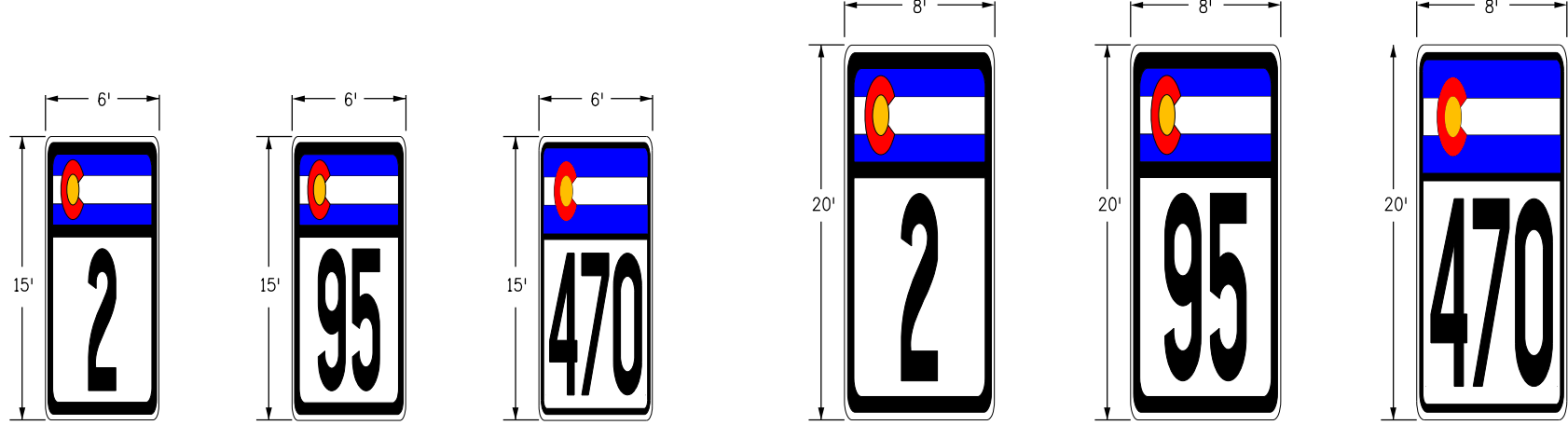
FOR THE FOLLOWING ROUTE SHIELDS
& CARDINAL DIRECTIONS DIMENSIONS PAY:

INTERSTATE	
6' X 15' - 75 SQ.FT.	8' X 20' - 128 SQ.FT.
COLORADO STATE	
6' X 15' - 90 SQ.FT.	8' X 20' - 160 SQ.FT.
US HIGHWAYS	
7' X 16' - 112 SQ.FT.	9' X 21' - 189 SQ.FT.
CARDINAL	
8' X 10' - 80 SQ.FT.	9' X 10' - 90 SQ.FT.

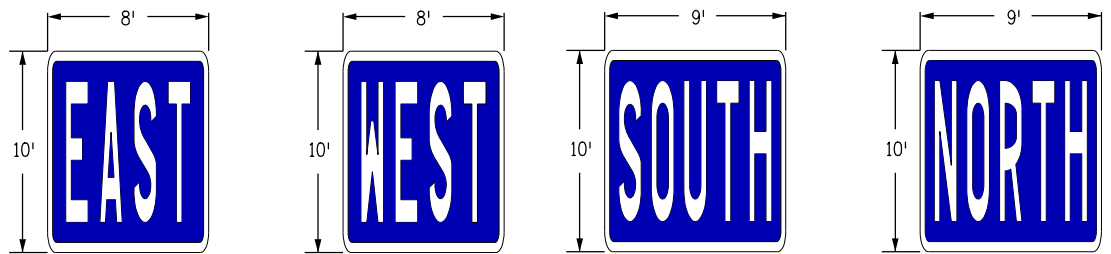
NOTES

- DIMENSIONS**
ELONGATED ROUTE SHIELDS SHALL BE AT LEAST 8'x20' WHEN USED ON HIGH SPEED ROADWAYS (55 MPH OR MORE).
PER FIGURE 3B-25 OF THE 2009 MUTCD ELONGATED ROUTE SHIELD COLORS SHALL CONFORM WITH THE STANDARD HIGHWAY SIGNS AND MARKINGS BOOK.
- CARDINAL DIRECTIONS**
USE CARDINAL DIRECTIONS WITH WHITE ON BLUE WHEN USING INTERSTATE ROUTE SHIELDS
USE CARDINAL DIRECTIONS WITH BLACK ON WHITE WHEN USING EITHER COLORADO STATE OR US HIGHWAY ROUTE SHIELDS.
CARDINAL DIRECTION MARKING WORD SYMBOL FROM SHEET 9 OF 11 MAY BE USED INSTEAD OF PLAQUE.

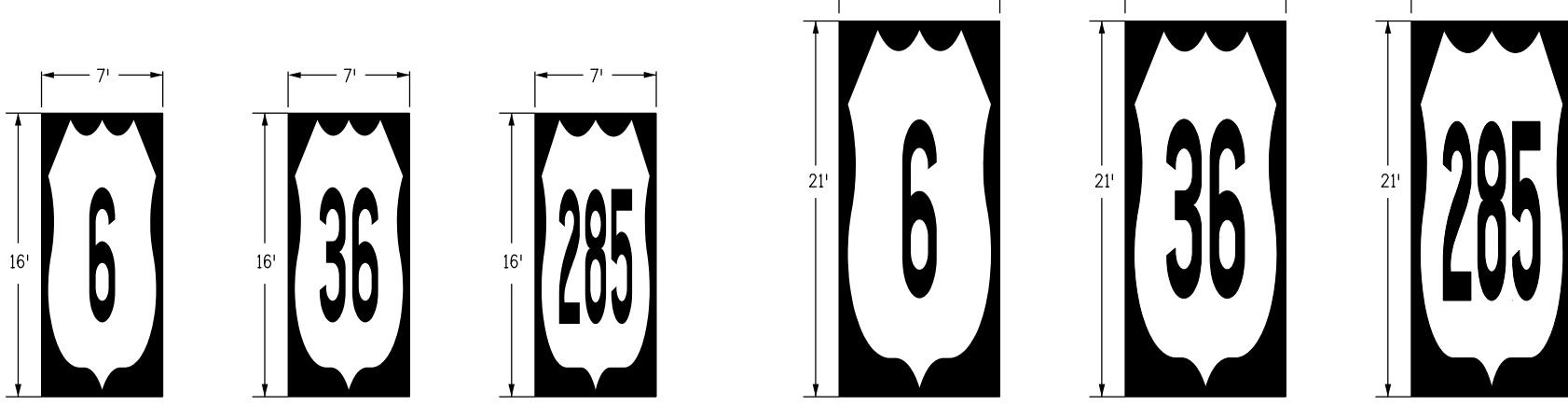
ELONGATED COLORADO STATE ROUTE SHIELDS



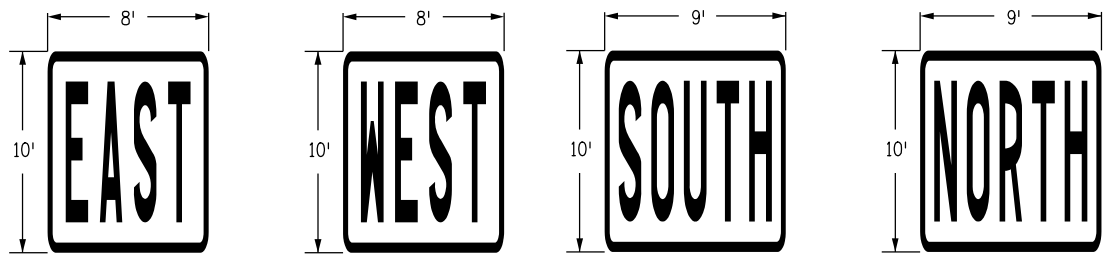
CARDINAL DIRECTIONS
(WHITE LETTERING ON BLUE BACKGROUND)



ELONGATED US HIGHWAY ROUTE SHIELDS



CARDINAL DIRECTIONS
(BLACK LETTERING ON WHITE BACKGROUND WITH BLACK BORDER)



ELONGATED ROUTE SHIELDS & CARDINAL DIRECTION MARKINGS

Computer File Information		Sheet Revisions		Colorado Department of Transportation  2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	PAVEMENT MARKINGS		STANDARD PLAN NO.	
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Last Modified By: IronStride Solutions	(R-2)	04/14/23	UPDATED SHEET NUMBER					
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Last Modification Date: 01/20/23

Last Modified By: NRIVERA

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Sheet Revisions

Date:01/20/23

Comments

ADD CASE NUMBERS 40, 41, AND 42

MOVED TO SHEET 1 UPDATED TABLE

Colorado Department of Transportation

CDOT

2829 W. Howard Pl.
Denver, CO 80204
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Traffic Safety & Engineering

EB

TRAFFIC CONTROLS
FOR HIGHWAY
CONSTRUCTION

Issued By: Traffic Safety & Engineering Branch July 31, 2019

STANDARD PLAN NO.

S-630-1

Standard Sheet No. 1 of 26

Project Sheet Number:

GENERAL NOTES

1.

ALL CONSTRUCTION ZONE TRAFFIC CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO BARRICADES, SIGNS, ARROW PANELS, FLASHING BEACON (PORTABLE), AND CHANNELIZING DEVICES, SHALL BE FURNISHED, INSTALLED, MAINTAINED (INCLUDING WASHING), REPLACED IF DAMAGED, REMOVED WHEN TEMPORARILY NOT IN USE AND RETURNED WHEN REQUIRED, RESET AS NECESSARY DURING THE PROGRESS OF CONSTRUCTION, AND REMOVED ENTIRELY WHEN THE PROJECT IS COMPLETED. ALL DEVICES SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF THE ATSSA "QUALITY GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES & FEATURES".
2.

WORK ON THE PROJECT SHALL NOT BE STARTED UNTIL ALL REQUIRED TRAFFIC CONTROL DEVICES ARE IN PLACE, AND APPROVED BY THE ENGINEER.
3.

WHEN SPEED LIMIT REDUCTION IS REQUIRED, SUCH REDUCTION SHALL BE IN ACCORDANCE WITH CDDT FORM 568, "CDDT TEMPORARY SPEED LIMIT REDUCTION."

WHEN A CHANGE IN AN EXISTING SPEED LIMIT IS REQUIRED, THE R2-1 SIGNS, SHOWN ON THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES, SHOULD BE INSTALLED AT THE LOCATIONS SHOWN ON THE TYPICAL CASES BY R2-1 (OPTIONAL) SIGNS.

AN ADVISORY SPEED PLATE (W13-1P) MAY BE USED WITH A WARNING SIGN WHEN THE MAXIMUM RECOMMENDED SPEED FOR CONDITION NAMED IS LOWER THAN THE POSTED SPEED LIMIT.

THE REGULATORY OR ADVISORY SPEED REDUCTION DISPLAYED SHALL NOT EXCEED 15 MPH PER SIGN INSTALLATION.
4.

WORK ZONE (G20-5P) AND FINES DOUBLE (R2-6P) SIGNS SHALL BE PROVIDED EVERY 2640' BETWEEN R2-10 AND R2-11 SIGNS. THE SPACING OF THESE SIGNS MAY BE CHANGED AS DIRECTED BY THE ENGINEER.
5.

ANY TRAFFIC CONTROL DEVICE THAT IS DAMAGED, WEATHERED, WORN, OR OTHERWISE DEEMED UNACCEPTABLE BY THE ENGINEER, SHALL BE REPLACED.
6.

CONTRACTOR AND PERSONAL VEHICLE PARKING IS PROHIBITED WITHIN THE RIGHT-OF-WAY UNLESS DESIGNATED ON THE PLANS, OR APPROVED BY THE ENGINEER.
7.

CONSTRUCTION TRAFFIC SIGNS SHALL BE MEASURED BY THE FOLLOWING SIZES AND DESCRIPTIONS:

PANEL SIZE A

0.01 TO 9.00 SQ. FT. (INCLUDING TYPE 1 AND TYPE 2 BARRICADES).

PANEL SIZE B

9.01 TO 16.00 SQ. FT.

PANEL SIZE C

GREATER THAN 16 SQ. FT.

CONSTRUCTION TRAFFIC SIGN (SPECIAL), SQ. FT., MAY BE USED FOR SOME PROJECT SPECIFIC INFORMATION SIGNS.

FOR DETAILED DIMENSIONS OF SIGNS WITH SIGN CODE NUMBERS, SEE "STANDARD HIGHWAY SIGNS" AND THE "COLORADO SUPPLEMENT" THERETO. SIGN LAYOUTS FOR OTHER SIGNS WILL BE FURNISHED IN THE PLANS, TRANSMITTED TO THE ENGINEER AFTER AWARD, OR MAY BE AVAILABLE UPON REQUEST.

W20-5 WARNING SIGNS SHALL BE FURNISHED WITH EXCHANGEABLE PLAQUES READING "RIGHT", "LEFT", "CENTER", "RIGHT 2", ETC. AT NO ADDITIONAL COST.
8.

ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF THE ROADWAY ON DIVIDED HIGHWAYS, MULTI-LANE RAMPS, ONE-WAY STREETS, AND AS DIRECTED BY THE ENGINEER, EXCEPT WHERE ONLY ONE SHOULDER IS CLOSED (EX: CASE 11 ON SHEET 7).
9.

ADDITIONAL TRAFFIC CONTROL DEVICES ADDRESSING FLAGGING, SPEED REDUCTION, ETC. WILL BE NECESSARY FOR SET-UP AND TAKE-DOWN OF MOST CASE APPLICATIONS; DAILY WORK SITE ACCESS; AND PAVEMENT MARKING REMOVAL AND INSTALLATION OPERATIONS.
10.

BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS, THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.

11.

IF CONSTRUCTION RELATED TRAFFIC CONGESTION BACKS UP BEYOND THE INSTALLED ADVANCE SIGN SEQUENCE, ADDITIONAL ADVANCE SIGNING SHALL BE PLACED BEYOND THE CONGESTION.
12.

ALL SIGN MATERIAL SHALL BE SOUND AND DURABLE TO THE DEGREE NECESSARY FOR MAINTAINING EFFECTIVE AND NEAT APPEARING TRAFFIC CONTROLS, AND:

a.

SIGN PANELS MAY BE FABRICATED FROM PLYWOOD, STEEL, ALUMINUM, OR OTHER SUITABLE MATERIAL.

b.

REFLECTIVE SHEETING SHALL CONFORM TO ASTM D4956. THE TYPE SHALL BE AS DESCRIBED IN THE STANDARD SPECIFICATIONS AND/OR AS SHOWN ON THE PLANS.

c.

SYMBOLS AND LEGEND SHALL BE OF GOOD WORKMANSHIP (UNEVEN OR HAND LETTERING WILL NOT BE ACCEPTED).

d.

PORTABLE OR TEMPORARY MOUNTING SHALL NOT BE CONSTRUCTED OR WEIGHTED BY ANY METHOD OR MATERIAL THAT MAKES THEM HAZARDOUS TO TRAFFIC.

e.

CERTAIN POST SIZES AND SHAPES REQUIRE A "BREAK-AWAY" DEVICE. SEE THE APPLICABLE STANDARD PLAN. OTHER POST DESIGNS OR SYSTEMS REQUIRE THE SUBMITTAL OF AN FHWA LETTER OF ACCEPTANCE TO THE ENGINEER, AND MUST BE APPROVED BY THE ENGINEER PRIOR TO THEIR USE.
13.

ALL CONSTRUCTION SIGN PLACEMENT SHALL BE IN ACCORDANCE WITH STANDARD PLAN "TYPICAL GROUND SIGN PLACEMENT" UNLESS OTHERWISE APPROVED.

SIGNS APPROVED TO BE MOUNTED ON PORTABLE SUPPORTS, OR APPROPRIATE SIGNS MOUNTED ON BARRICADES, MAY BE AT LOWER HEIGHTS, BUT THE BOTTOM OF THE SIGNS SHALL NOT BE LESS THAN ONE FOOT ABOVE THE PAVEMENT ELEVATION.
14.

SIGNS MOUNTED ON THE MEDIAN OF DIVIDED HIGHWAYS WHERE MEDIAN BARRIER IS IN PLACE MAY BE MOUNTED ON THE BARRIER WITH A SADDLE TYPE BRACKET. IF THE BRACKET ALLOWS THE SIGN PANEL TO BE TURNED PARALLEL TO THE ROADWAY, THE SIGN MAY REMAIN IN PLACE WHEN NOT APPLICABLE, BUT LAYING THE SIGN PANEL DOWN IN A HORIZONTAL POSITION IS NOT PERMITTED.
15.

TRAFFIC CONES SHALL BE AT LEAST 28 INCHES IN HEIGHT. HOWEVER, THE MINIMUM SIZE SHALL BE 36 INCHES WHEN THEY ARE USED ON FREEWAYS AND EXPRESSWAYS, OR DURING NIGHT TIME WORKING HOURS. THEY SHOULD ALSO BE 36 INCHES WHEN USED ON OTHER HIGH SPEED ROADWAYS (45 MPH OR MORE) WITH AN ADT OF 6,000 OR MORE.
16.

TYPE 1 BARRICADES SHALL NOT BE USED ON FREEWAYS, EXPRESSWAYS, OR OTHER HIGH SPEED ROADWAYS (55 MPH OR MORE).
17.

WHEN TWO-WAY TRAFFIC IS PLACED ON ONE ROADWAY OF A NORMALLY DIVIDED HIGHWAY, OPPOSING TRAFFIC SHALL BE SEPARATED EITHER WITH CONCRETE BARRIER (TEMPORARY), OR WITH CHANNELIZING DEVICES APPROVED FOR THIS APPLICATION, THROUGHOUT THE LENGTH OF TWO-WAY OPERATION. THE TRANSITION ZONES SHALL HAVE CONCRETE BARRIER (TEMPORARY). THE BARRIER SHALL BE TIED TO AN EXISTING STRUCTURE OR GUARD RAIL, FLARED OR EXTENDED, TO MEET CLEAR ZONE REQUIREMENTS, OR FITTED WITH AN IMPACT ATTENUATION DEVICE.
18.

CHANNELIZING DEVICE SPACING, IN FEET, SHALL BE AS FOLLOWS:

a.

FOR TAPERS AND TRANSITIONS, SPACING EQUALS THE NUMERICAL VALUE OF THE SPEED LIMIT.
(e.g. 45 MPH = 45 FEET)

b.

FOR TANGENTS ALONG THE BUFFER SPACE OR WORK AREA, SPACING MAY NOT BE GREATER THAN TWO TIMES THE SPEED LIMIT. (e.g. 50 MPH = 50 FEET TO 100 FEET MAXIMUM)

19.

FOR DETAILS ON BARRICADES, CONCRETE BARRIER (TEMPORARY), VERTICAL PANELS, AND FLASHING BEACON (PORTABLE), SEE THE APPLICABLE STANDARD PLANS.
20.

FLAGGER STATION SHALL COMPRISE OF EITHER A FLAGGER OR AN AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD). SEE THE MOST RECENT CDDT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION FOR ADDITIONAL GUIDANCE REGARDING AFAD.
21.

FLAGGING OPERATIONS SHALL NOT OVERRIDE VISIBLE REGULATORY SIGNING OR TRAFFIC SIGNALS, EVEN WHEN TRAFFIC SIGNALS HAVE BEEN DISABLED OR SET TO FLASH MODE. ONLY A UNIFORMED POLICE OFFICER MAY DIRECT TRAFFIC IN A SIGNALIZED INTERSECTION. FLAGGING IS NOT PERMITTED ON INTERSTATES UNLESS APPROVED BY THE REGION TRAFFIC ENGINEER.
22.

FLOOD LIGHTS SHALL BE USED TO ILLUMINATE FLAGGER STATIONS DURING THE HOURS OF DARKNESS UNLESS OTHERWISE APPROVED. A TYPICAL LIGHT SHOULD PROVIDE THE FOLLOWING: A FULLY DIRECTIONAL SWIVEL MOUNT QUARTZ LIGHT SOURCE (500 WATT MINIMUM), SELF-SUPPORTING STAND WITH VARIABLE LIGHT HEIGHT FROM A MINIMUM OF EIGHT FEET ABOVE THE ROADWAY, AND A POWER SOURCE. IT SHALL ILLUMINATE THE STATION AREA AND A FLAGGER ESCAPE PATH, BUT SHALL NOT PRESENT ANY GLARE TO TRAFFIC.
23.

FOR TEMPORARY PAVEMENT MARKINGS AND CONTROL POINTS FOR INSTALLING THOSE PAVEMENT MARKINGS FOR UNDIVIDED ROADWAYS THAT ARE BEING CONSTRUCTED UNDER TRAFFIC, FULL COMPLIANCE CENTER LINE, LANE LINE, AND EDGE LINE TEMPORARY MARKINGS SHALL BE IN PLACE AT THE END OF EACH WORK DAY IN ACCORDANCE WITH THE MOST RECENT CDDT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

FOR ADDITIONAL PAVEMENT MARKING DETAILS, SEE STANDARD PLAN S-627-1 "PAVEMENT MARKINGS".
24.

BUFFER SPACE IS OPTIONAL. NEED MUST BE DETERMINED ON A PROJECT OR SITE SPECIFIC BASIS AS DIRECTED BY THE ENGINEER. WHEN A BUFFER SPACE IS USED, DIMENSIONS AND/OR DEVICES USED ARE TO BE INCORPORATED IN THE TRAFFIC CONTROL PLAN (TCP) OR THE CONTRACTOR'S METHOD OF HANDLING TRAFFIC (MHT).
25.

ADDITIONAL VMS SIGNAGE SHOULD BE CONSIDERED AT LEAST A MILE IN ADVANCE OF THE SIGNING SHOWN IN THE DETAIL FOR ANY LANE CLOSURES ON INTERSTATE AND OTHER HIGH SPEED FACILITIES ESPECIALLY WHEN THE LEVEL OF SERVICE IS SIGNIFICANTLY REDUCED AS A RESULT OF CONSTRUCTION. THE LEGENDS SHOULD BE CHANGED TO ADVISE MOTORISTS OF UPCOMING TRAFFIC CONDITIONS AND TO ALERT THEM OF UPCOMING LANE USAGE.

ADDITIONAL ADVANCE WARNING SIGNAGE IS ENCOURAGED IN ALL CASES WHERE TRAFFIC VOLUMES AND SPEEDS ARE HIGH AND/OR WHERE THERE ARE INFREQUENT EXITS. ADDITIONAL SIGNAGE IS ALSO ENCOURAGED IN LOCATIONS WHERE DRIVERS' LINE OF SIGHT TO ADVANCE WARNING SIGNS IS OBSTRUCTED.
26.

WHEN ARROW BOARDS ARE USED TO CLOSE MULTIPLE LANES, A SEPARATE ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

IF ARROW BOARDS ARE USED FOR SHOULDER WORK, BLOCKING THE SHOULDER, FOR ROADSIDE WORK NEAR THE SHOULDER, OR FOR TEMPORARILY CLOSING ONE LANE ON A TWO-LANE, TWO-WAY ROADWAY, USE THE ARROW BOARDS ONLY IN THE CAUTION MODE.
27.

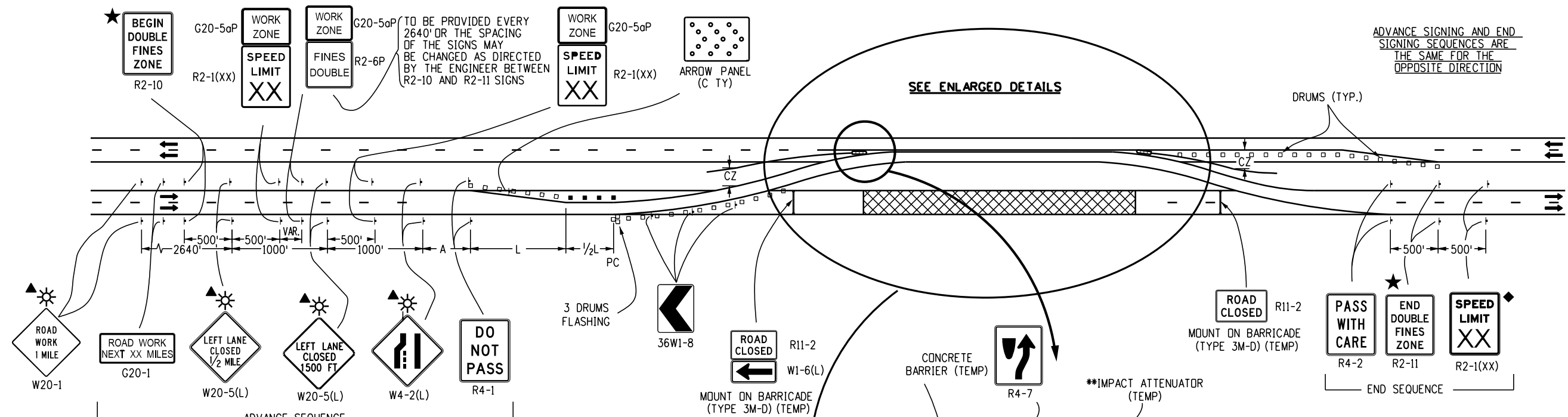
RAISED PAVEMENT MARKERS MAY BE USED TO SUPPLEMENT TEMPORARY STRIPING DURING NON-SNOW PERIODS. THEIR USE IS ENCOURAGED ON HIGHER SPEED FACILITIES WHEN TRAFFIC IS BEING DIVERTED FROM ITS USUAL COURSE.
28.

THE TYPICAL CASES DEPICTED IN THIS STANDARD REFLECT THE MINIMUM REQUIREMENTS, UNLESS AS OTHERWISE DIRECTED BY THE PROJECT PLANS AND SPECIFICATIONS, AND/OR THE PROJECT ENGINEER.
29.

A SIGNIFICANT PROJECT IS DEFINED AS ONE THAT, ALONE OR IN COMBINATION WITH OTHER CONCURRENT PROJECTS NEARBY, IS ANTICIPATED TO CAUSE SUSTAINED WORK ZONE IMPACTS AT A LOCATION FOR THREE OR MORE CONSECUTIVE DAYS WITH EITHER INTERMITTENT OR CONTINUOUS LANE CLOSURES.
30.

PROJECT INFORMATION SIGNAGE MAY BE INSTALLED IF SPECIFIED IN PROJECT SPECIAL PROVISION 626 - PUBLIC INFORMATION SERVICES.

Computer File Information		R-3 R-2	Sheet Revisions		Colorado Department of Transportation  2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	STANDARD PLAN NO.
Creation Date: 07/04/12	Date:		Comments	S-630-1			
Created By: Nakao	01/14/26		ADDED NOTE 30	Standard Sheet No. 2 of 26			
Last Modification Date: 01/14/26	07/20/23		ADDED NOTE 21. UPDATED NOTES LAYOUT.			Issued By: Traffic Safety & Engineering Branch July 31, 2019	
Last Modified By: NRIVERA							
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							Project Sheet Number:



LEGEND

■ CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS.

□ DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE MERGING TAPERS, SHIFTING TAPERS, AND ONE LANE, TWO-WAY TRAFFIC TAPERS.

— TYPE III BARRICADE
— CONCRETE BARRIER (TEMPORARY)
— FLAGGER STATION
— DIRECTION OF TRAVEL

▨ WORK AREA

L **TRANSITION TAPER LENGTH:**
L = MINIMUM LENGTH OF TAPER
SPEED 45 MPH OR MORE: $L = S \times W$
SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
S = NUMERICAL VALUE OF SPEED LIMIT
OR 85 PERCENTILE SPEED
W = WIDTH OF OFFSET

▨ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL

A = 100' (URBAN LOW SPEED)
350' (URBAN HIGH SPEED)
500' (RURAL)
1,000' (EXPRESSWAY / FREEWAY)

CZ CLEAR ZONE (SEE GENERAL NOTE 17 ON SHEET 2).

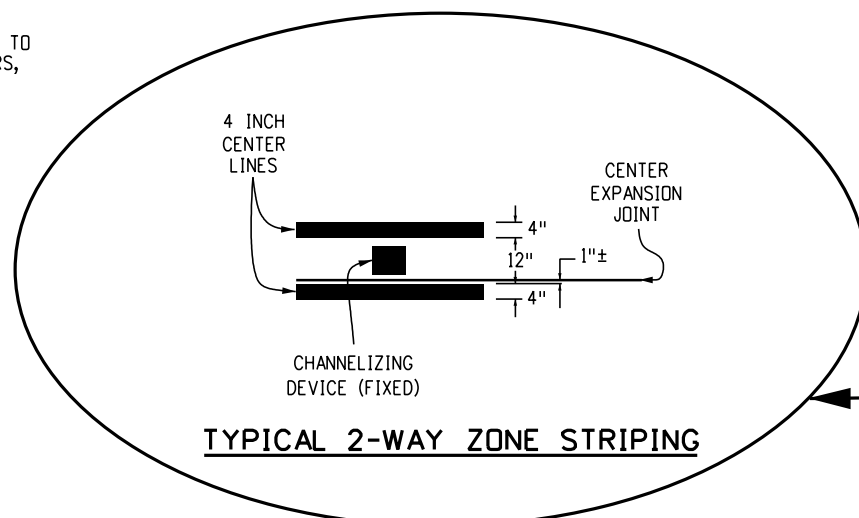
▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.

VAR. BUFFER SPACE (SEE GENERAL NOTE 23 ON SHEET 2).

▨ IMPACT ATTENUATOR AS DETAILED ON THE PLANS

☀ FLASHING BEACON

TYPICAL 2-WAY ZONE STRIPING



◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.

* THESE ITEMS ARE NOT REQUIRED WHEN CONTINUOUS CONCRETE BARRIER IS USED FOR CHANNELIZATION.

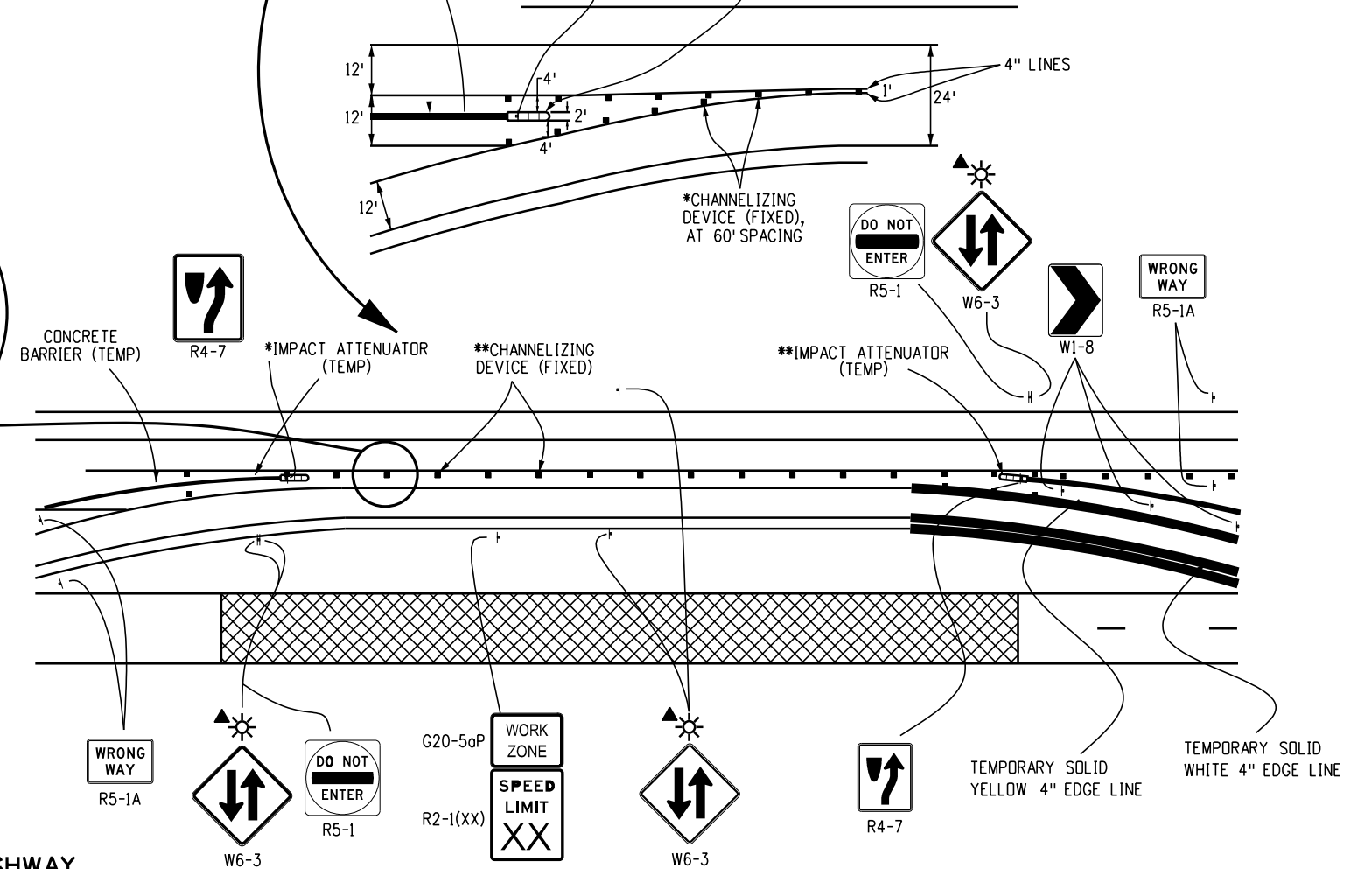
** SEE GENERAL NOTE 17 ON SHEET 2.

★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

CASE NO. 1

TYPICAL APPLICATION

CLOSURE OF ONE ROADWAY 4-LANE DIVIDED HIGHWAY



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Colorado Department of Transportation



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TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

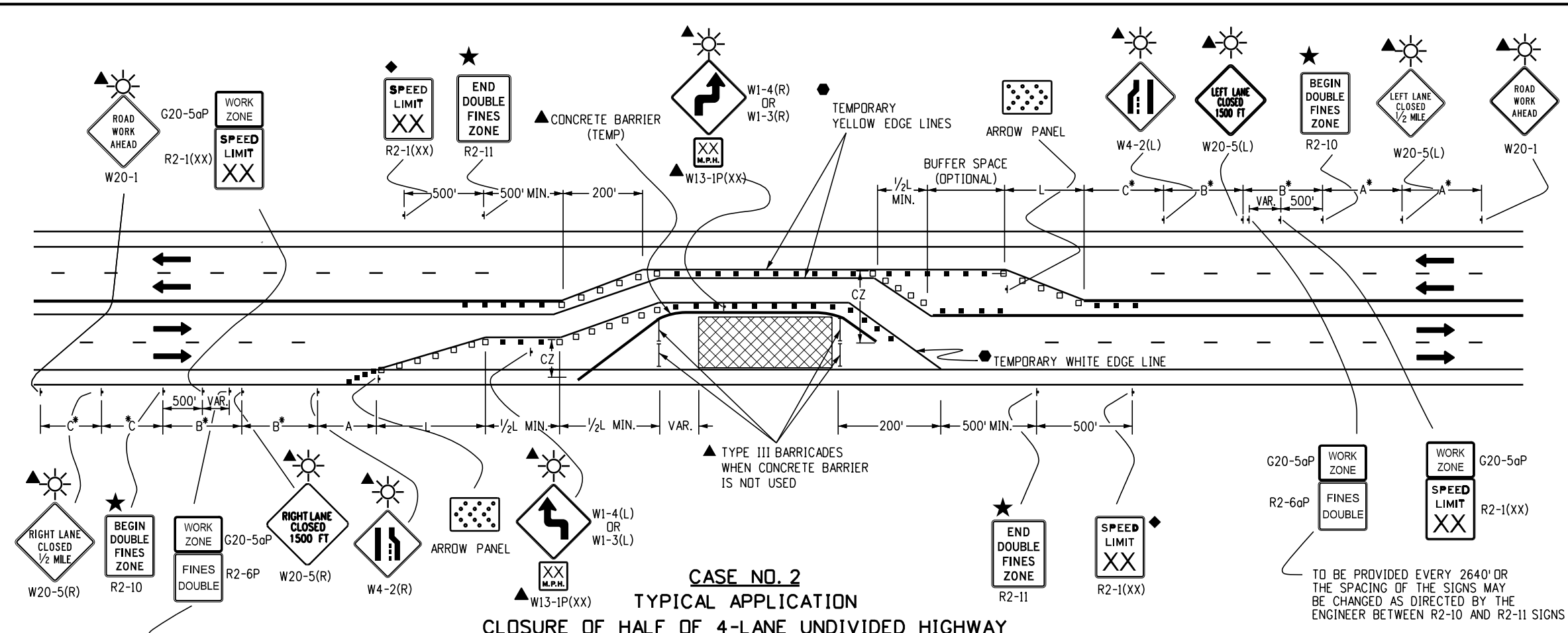
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STANDARD PLAN NO.

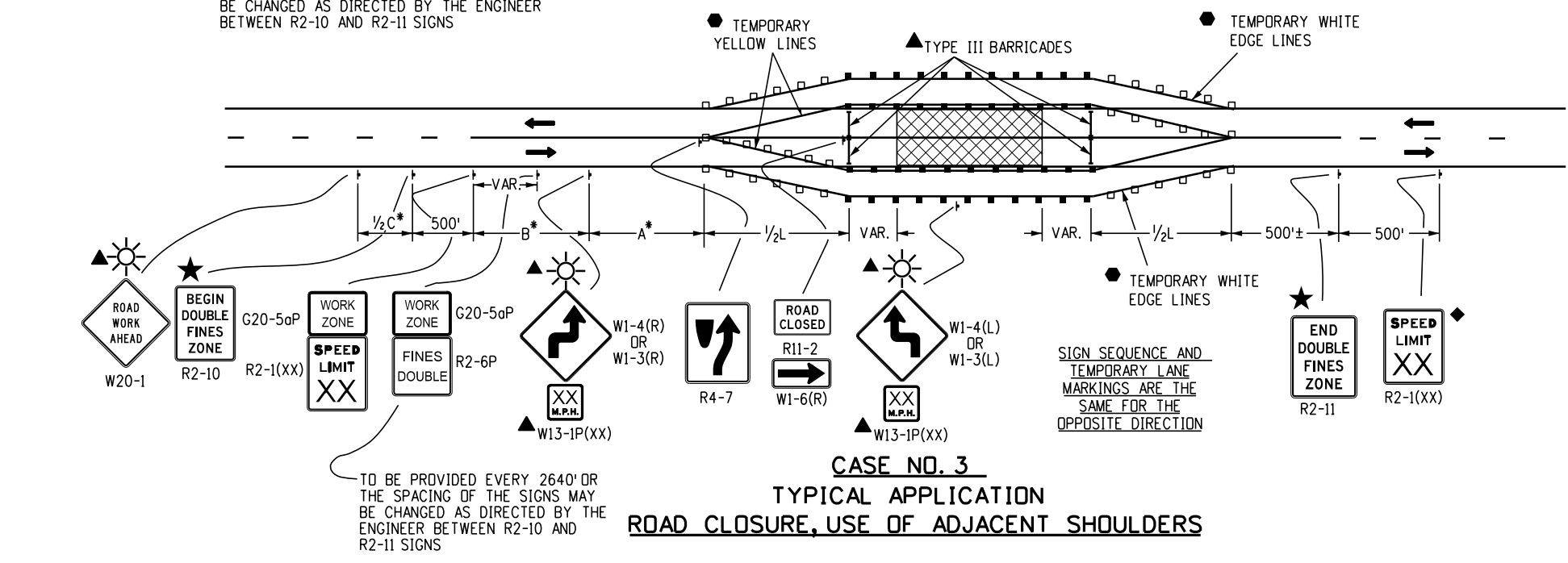
S-630-1

Standard Sheet No. 3 of 26

Project Sheet Number:



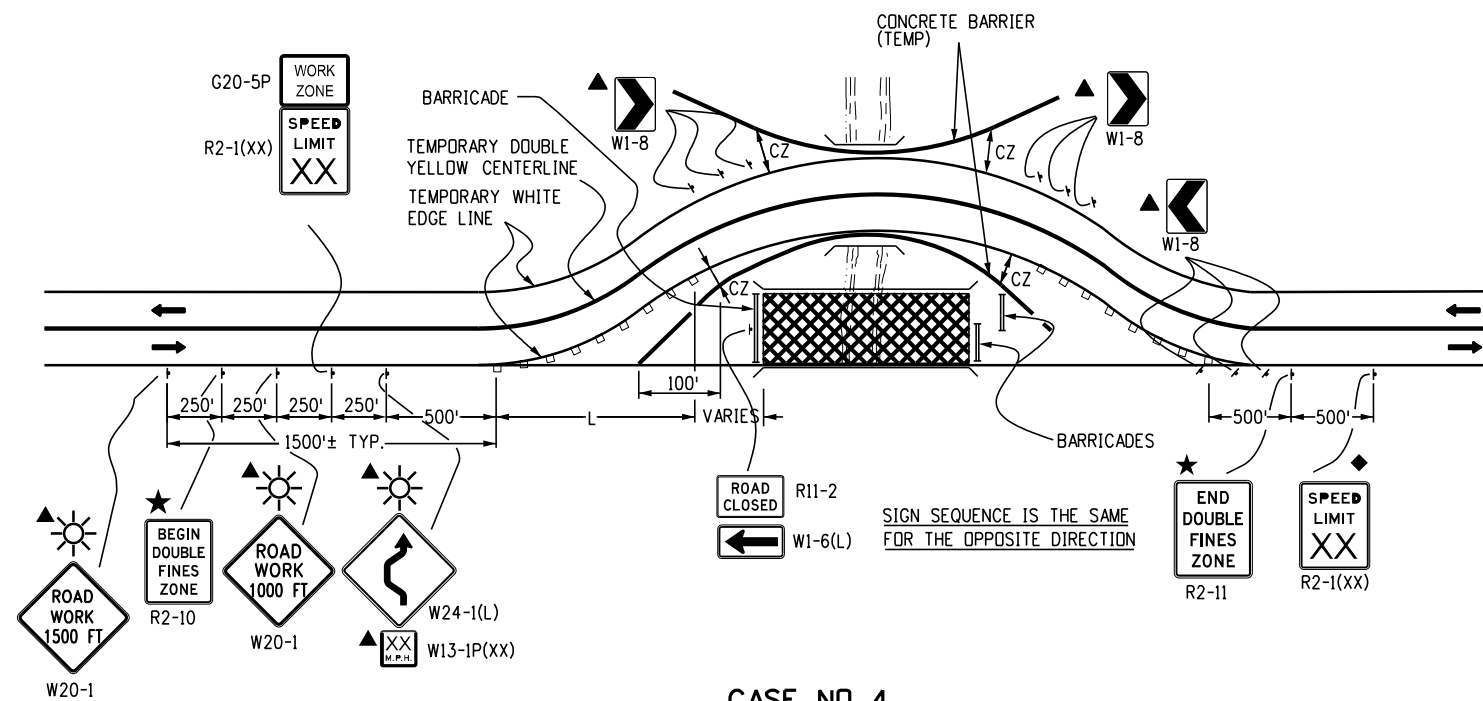
- ### LEGEND
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 - TYPE III BARRICADE
 - FLAGGER STATION
 - DIRECTION OF TRAVEL
 - WORK AREA
- L TRANSITION TAPER LENGTH:**
- L = MINIMUM LENGTH OF TAPER
- SPEED 45 MPH OR MORE: $L = S \times W$
- SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
- S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
- W = WIDTH OF OFFSET
- SHOULDER TAPER = 1/3 L
- A** ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
- A = 100' (URBAN LOW SPEED)
350' (URBAN HIGH SPEED)
500' (RURAL)
1,000' (EXPRESSWAY / FREEWAY)
- CZ** CLEAR ZONE (SEE GENERAL NOTE 17 ON SHEET 2).
- ▲** THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- ◆** THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- VAR.** BUFFER SPACE (SEE GENERAL NOTE 23 ON SHEET 2).
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- ☀** FLASHING BEACON
- ★** SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.



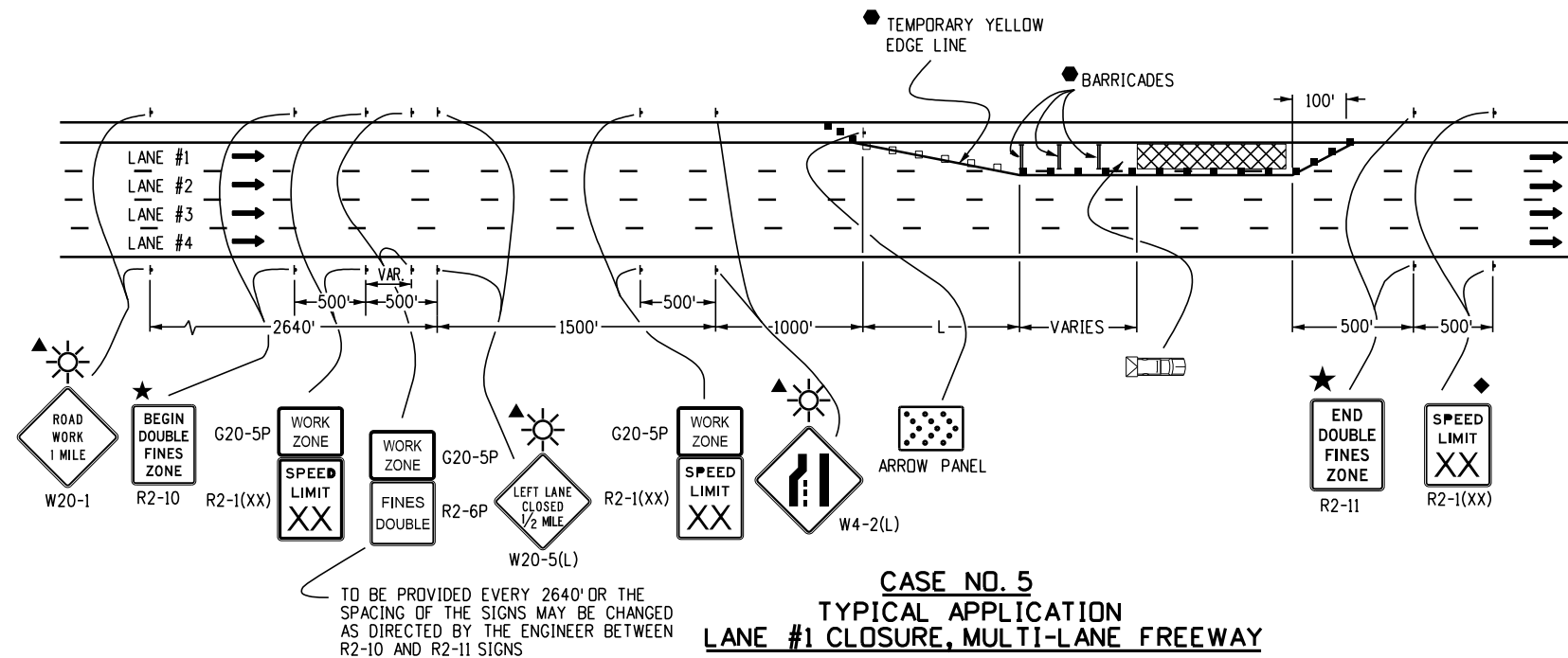
* KEY TO ADVANCE SIGNING DISTANCES

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (<=40 MPH)	100	100	100
URBAN (>=45 MPH)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1500	2640

Computer File Information Creation Date: 07/04/12 Created By: Nakao Last Modification Date: 01/14/26 Last Modified By: NRIVERA CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English		Sheet Revisions <table border="1"> <tr> <th>Date:</th> <th>Comments</th> </tr> <tr> <td>01/14/26</td> <td>REMOVED G20-10/11</td> </tr> <tr> <td>01/20/23</td> <td>Replaced R52-a(b) with R2-10(11) Updated G20-11 Added Drum/Vertical Panel Symbol Updated Case 3 Lane Lines</td> </tr> </table>		Date:	Comments	01/14/26	REMOVED G20-10/11	01/20/23	Replaced R52-a(b) with R2-10(11) Updated G20-11 Added Drum/Vertical Panel Symbol Updated Case 3 Lane Lines	Colorado Department of Transportation 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering		TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION Issued By: Traffic Safety & Engineering Branch July 31, 2019		STANDARD PLAN NO. S-630-1 Standard Sheet No. 4 of 26 Project Sheet Number:	
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CASE NO. 4
TYPICAL APPLICATION
ROAD CLOSURE, BYPASS DETOUR PROVIDED



CASE NO. 5
TYPICAL APPLICATION
LANE #1 CLOSURE, MULTI-LANE FREEWAY

LEGEND

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- VARIES BUFFER SPACE (SEE GENERAL NOTE 23 ON SHEET 2).
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- ▨ MOBILE ATTENUATOR
- ☀ FLASHING BEACON
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

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Colorado Department of Transportation

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TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

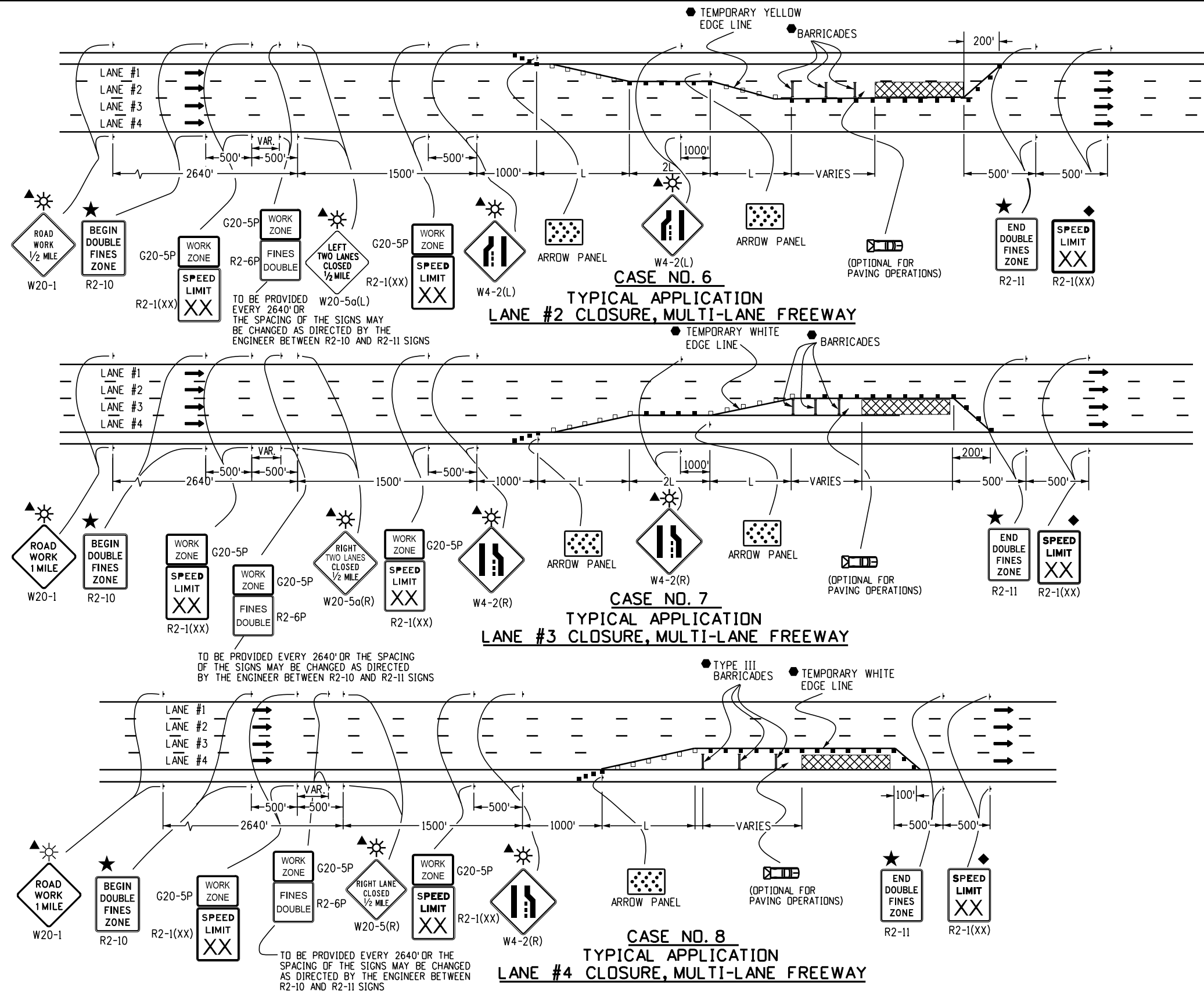
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STANDARD PLAN NO.

S-630-1

Standard Sheet No. 5 of 26

Project Sheet Number:



- ### LEGEND
- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS.
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Creation Date: 07/04/12			Date:	Comments	 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB			Issued By: Traffic Safety & Engineering Branch July 31, 2019		S-630-1	
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LEGEND

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TYPE III BARRICADE

CONCRETE BARRIER (TEMPORARY)

FLAGGER STATION

DIRECTION OF TRAVEL

WORK AREA

TRANSITION TAPER LENGTH:

L = MINIMUM LENGTH OF TAPER

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SHOULDER TAPER = 1/3 L

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FLASHING BEACON

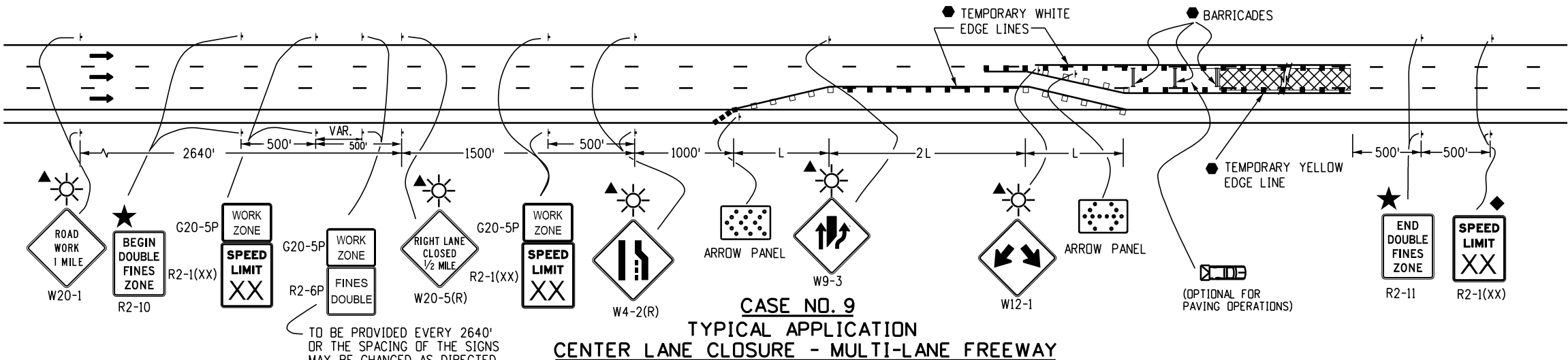
VARIES BUFFER SPACE (SEE GENERAL NOTE 23 ON SHEET 2).

REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.

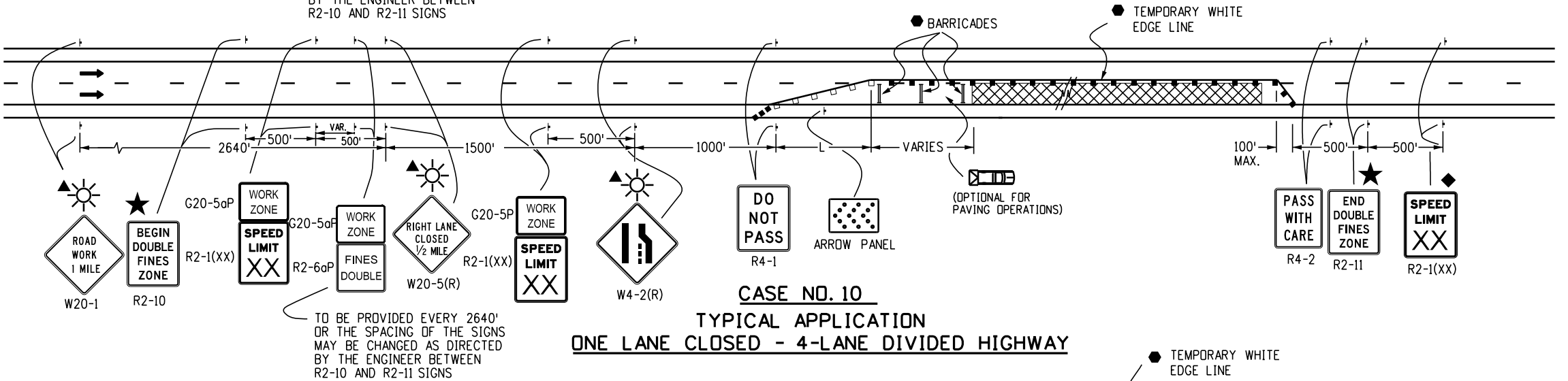
MOBILE ATTENUATOR

CONCRETE BARRIER (TEMPORARY) WITH LIGHTS

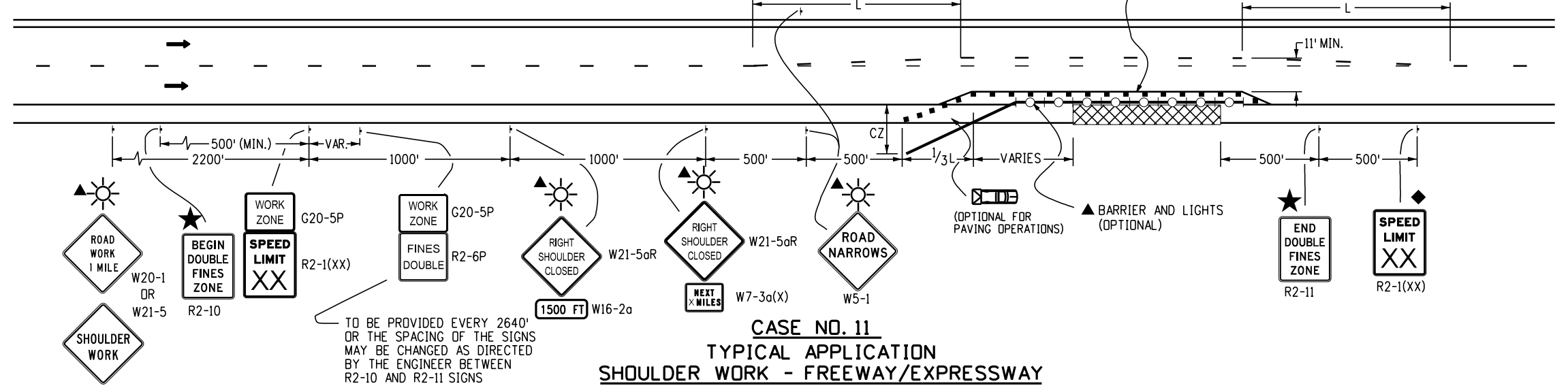
SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.



CASE NO. 9
TYPICAL APPLICATION
CENTER LANE CLOSURE - MULTI-LANE FREEWAY



CASE NO. 10
TYPICAL APPLICATION
ONE LANE CLOSED - 4-LANE DIVIDED HIGHWAY



CASE NO. 11
TYPICAL APPLICATION
SHOULDER WORK - FREEWAY/EXPRESSWAY

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Colorado Department of Transportation



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TRAFFIC CONTROLS
FOR HIGHWAY
CONSTRUCTION

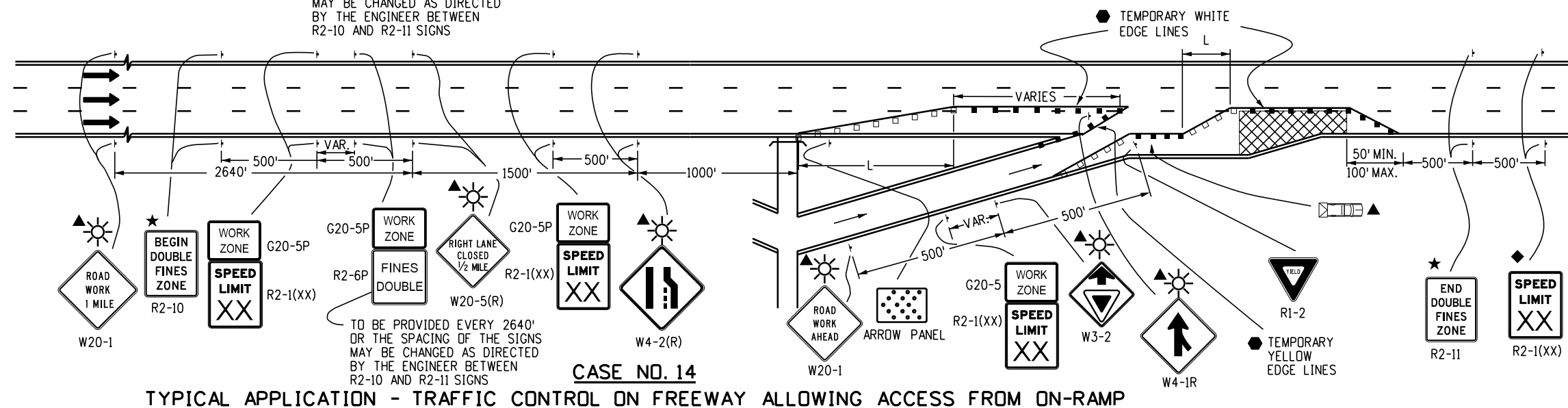
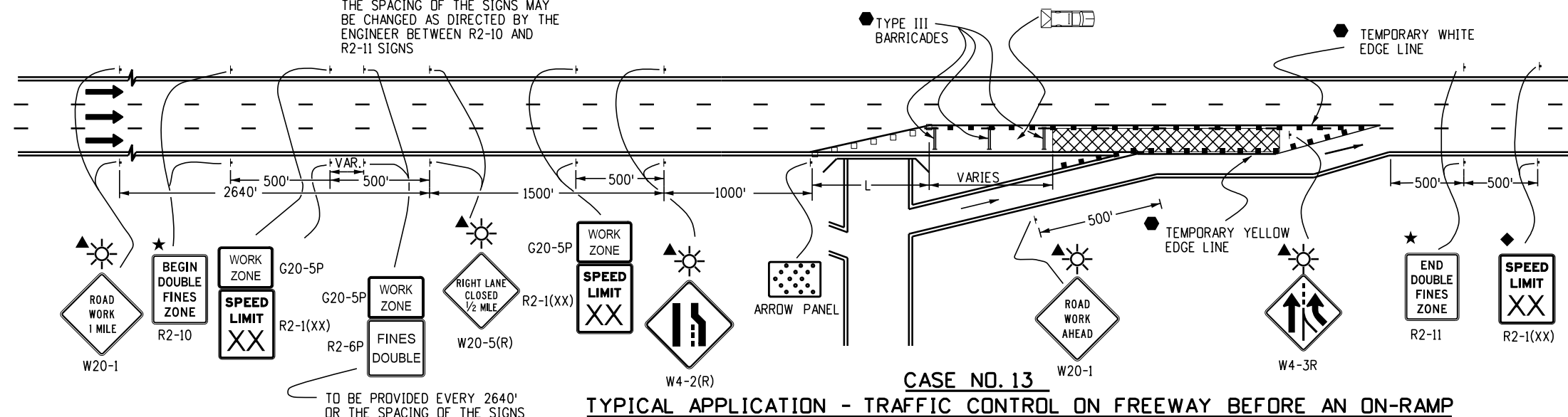
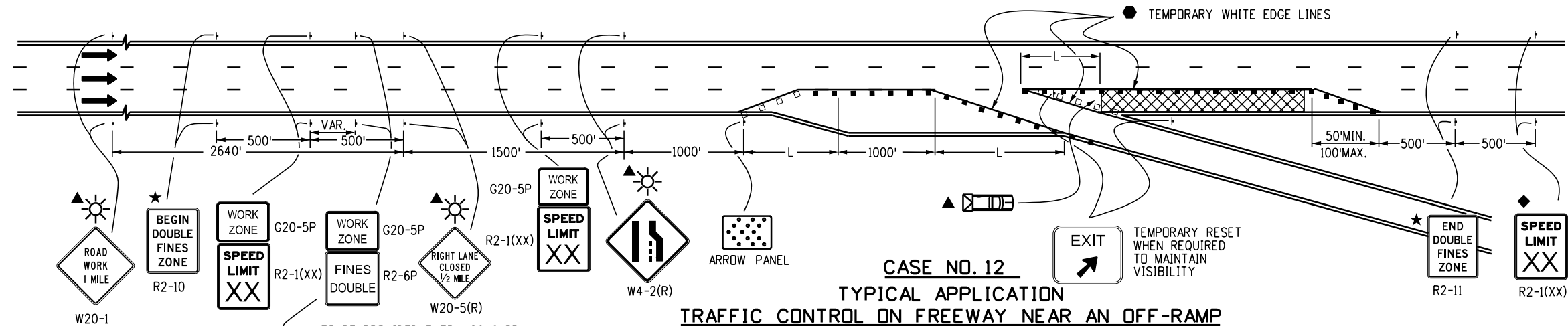
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STANDARD PLAN NO.

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Project Sheet Number:



VARIES BUFFER SPACE (SEE GENERAL NOTE 23).

REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.

TEMPORARY WHITE EDGE LINES

TEMPORARY YELLOW EDGE LINES

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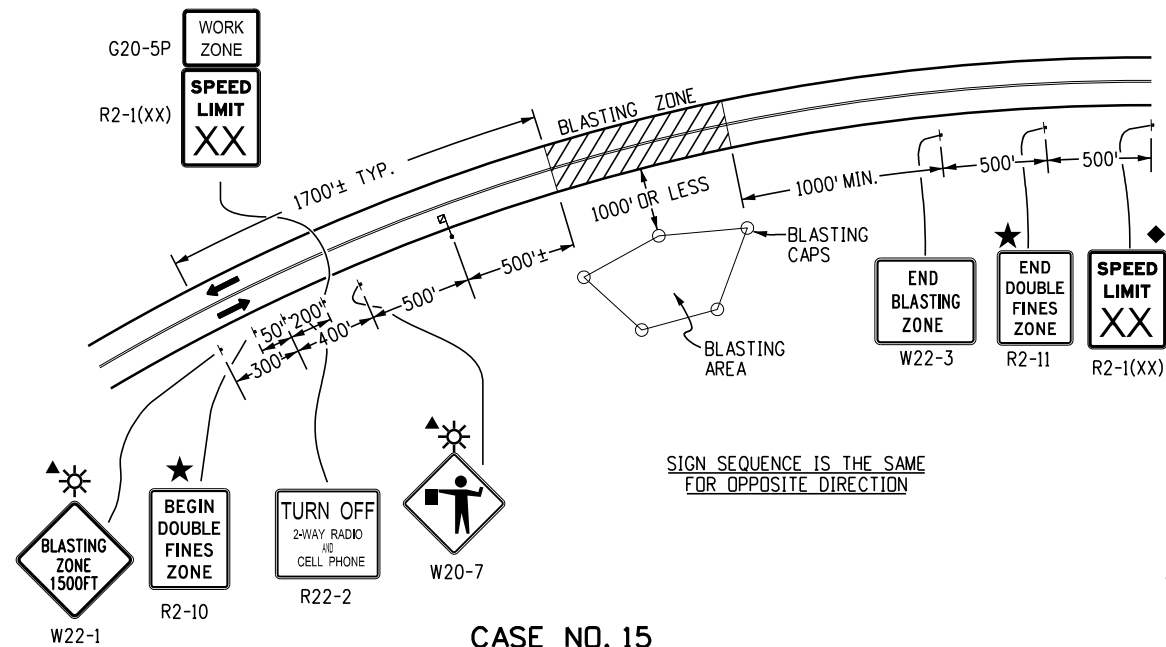
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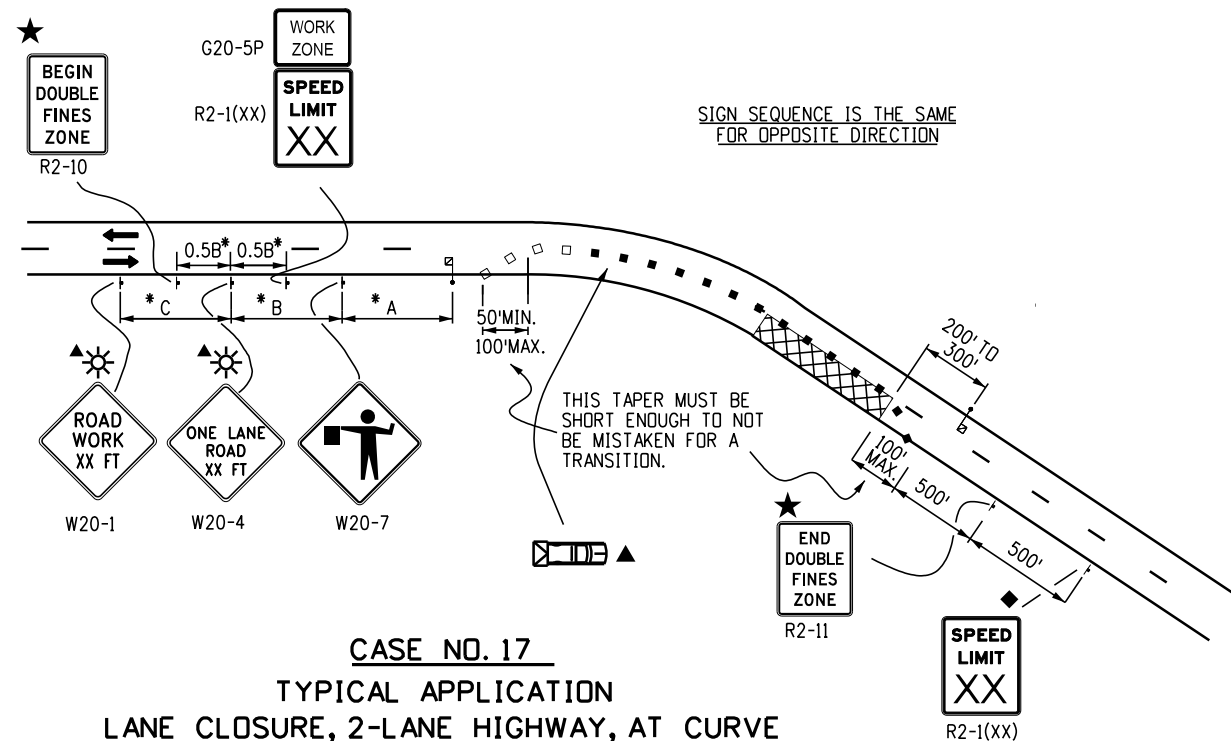
S-630-1

Standard Sheet No. 8 of 26

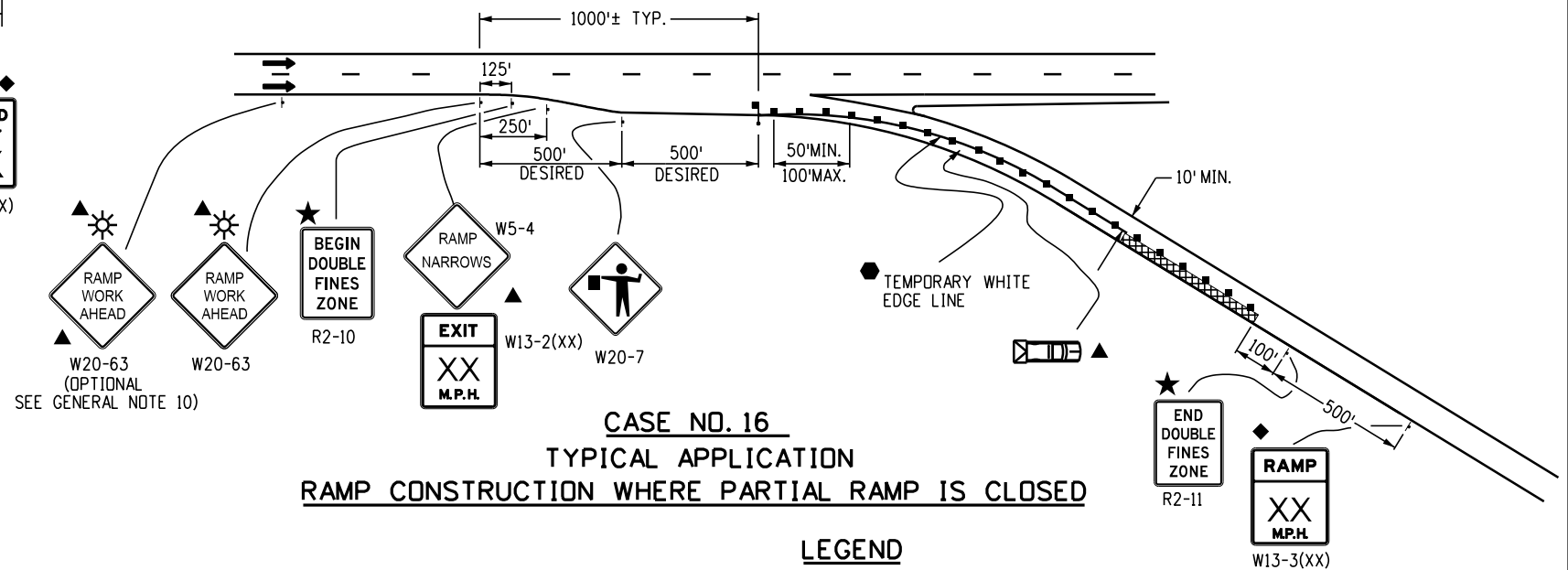
Project Sheet Number:



CASE NO. 15
TYPICAL APPLICATION
BLASTING ZONE



CASE NO. 17
TYPICAL APPLICATION
LANE CLOSURE, 2-LANE HIGHWAY, AT CURVE



CASE NO. 16
TYPICAL APPLICATION
RAMP CONSTRUCTION WHERE PARTIAL RAMP IS CLOSED

LEGEND

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- ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- ☀ FLASHING BEACON
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.

L TRANSITION TAPER LENGTH:
 L = MINIMUM LENGTH OF TAPER
 SPEED 45 MPH OR MORE: $L = S \times W$
 SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
 S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
 W = WIDTH OF OFFSET
 SHOULDER TAPER = 1/3 L

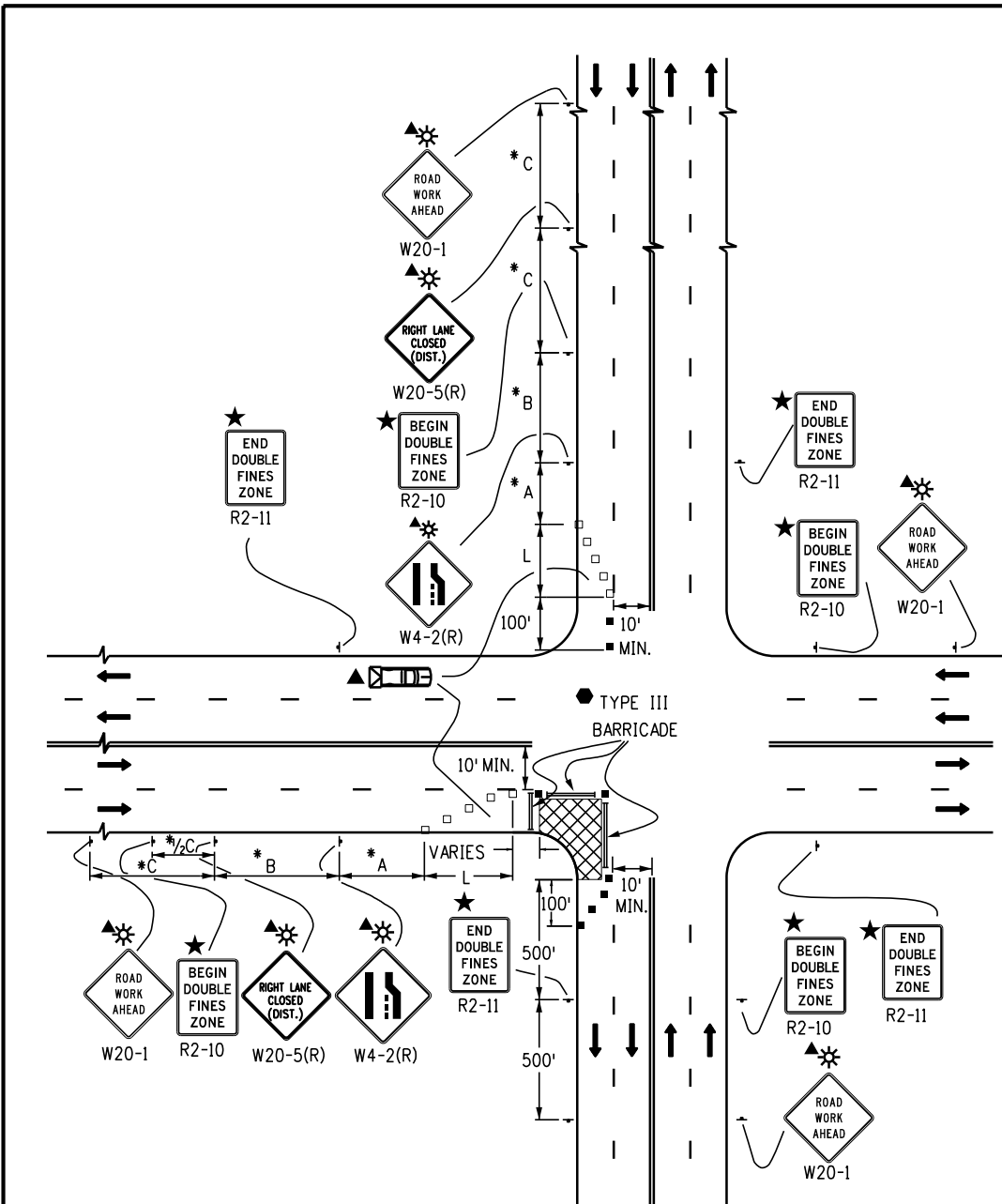
☐ MOBILE ATTENUATOR

★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

*KEY TO ADVANCE SIGNING DISTANCES

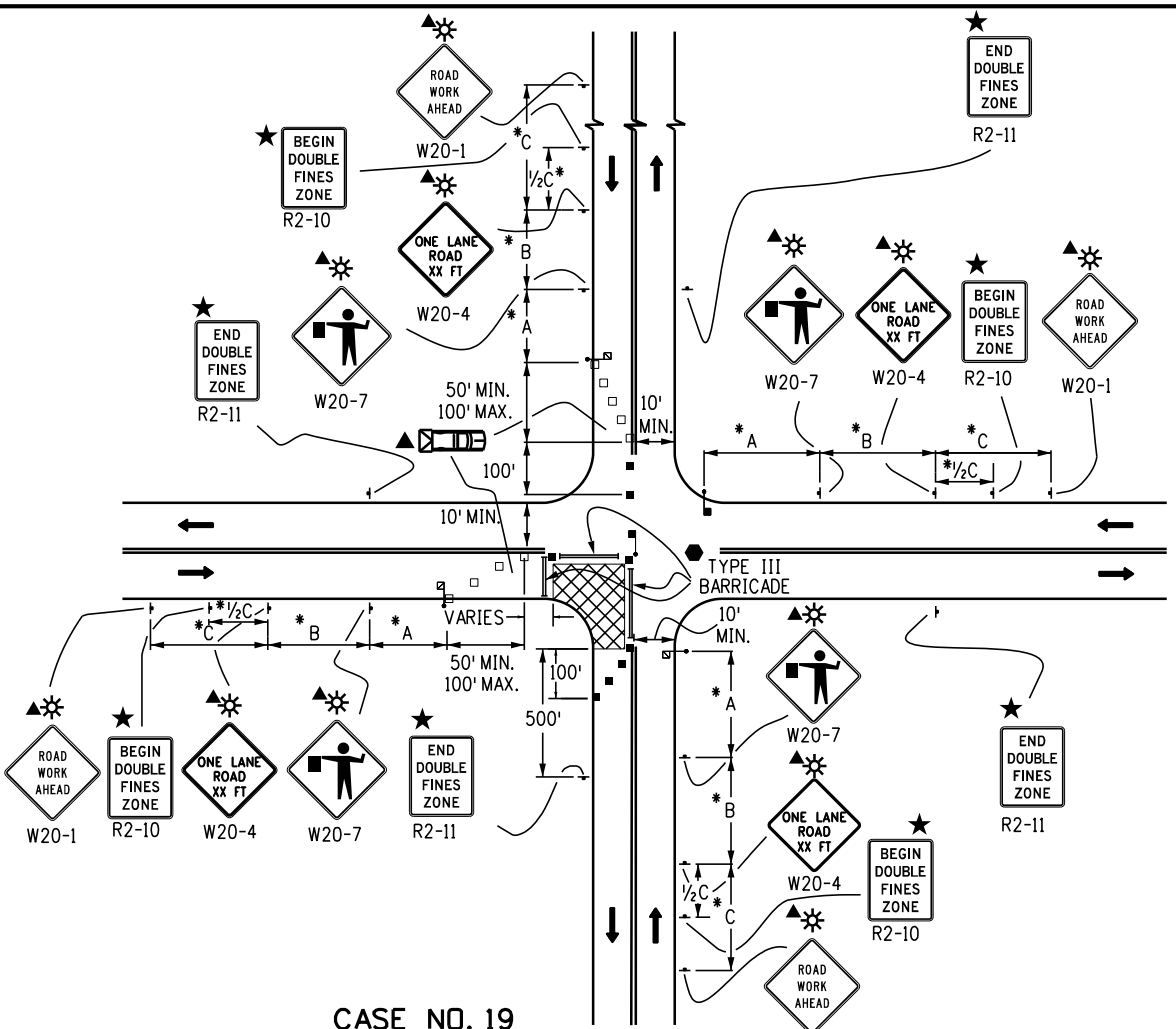
ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (<= 40 MPH)	100	100	100
URBAN (>= 45 MPH)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1500	2640

Computer File Information		R-2 R-1	Sheet Revisions		Colorado Department of Transportation CDOT 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB <th colspan="2">TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION</th><th colspan="2">STANDARD PLAN NO.</th>	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION		STANDARD PLAN NO.	
Creation Date: 07/04/12			Date:	Comments		S-630-1			
Created By: Roybal			01/14/26	REMOVED G20-10/11					
Last Modification Date: 01/14/26			01/20/23	Replaced R52-a(b) with R2-10(11) Updated G20-11 Added Drum/Vertical Panel Symbol					
Last Modified By: NRIVERA									
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English						Project Sheet Number:			

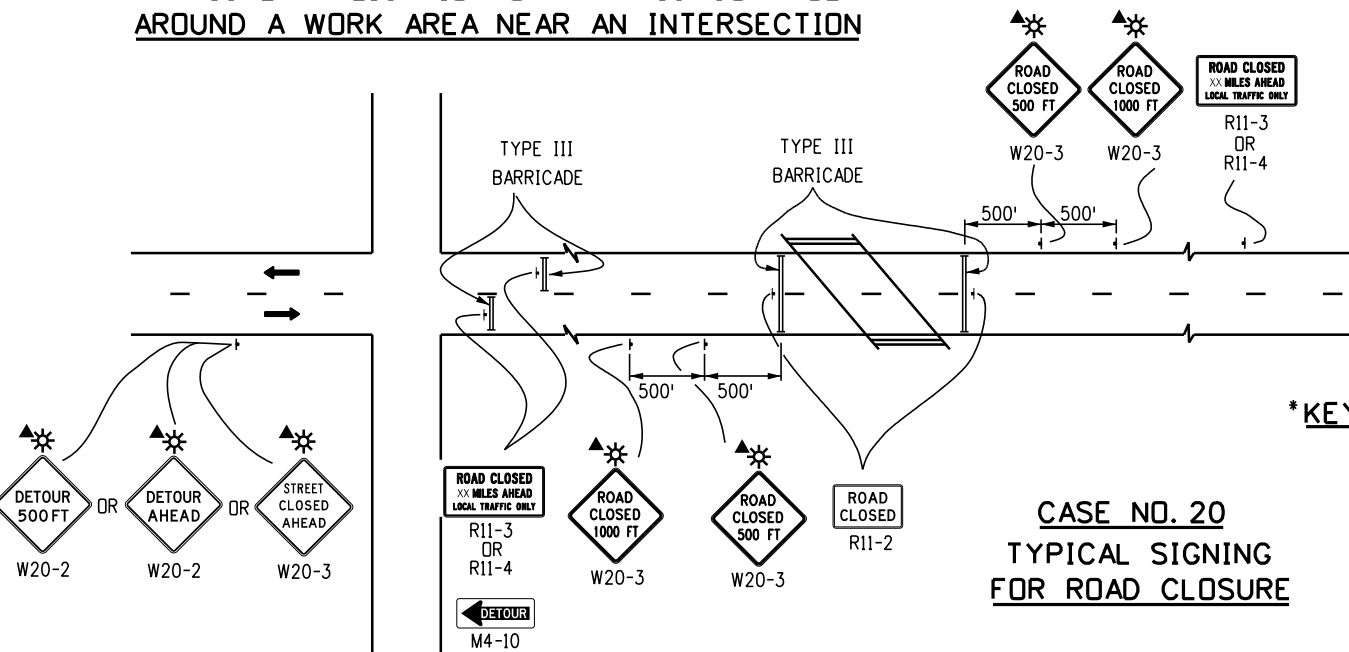


CASE NO. 18
TYPICAL APPLICATION
TRAFFIC CONTROL AROUND A WORK AREA
NEAR AN INTERSECTION, ONE LANE CLOSED

- NOTES:**
- SIGN PLACEMENT SHOWN ON CASES 18 AND 19 TYPIFIES RURAL APPLICATIONS. URBAN APPLICATIONS REQUIRE THE SIGNS TO BE PLACED WITHIN ONE, OR PERHAPS TWO, BLOCKS.
 - TRUCK-MOUNTED ATTENUATORS (TMA) OPTIONAL FOR ALL CASES AS DETERMINED BY THE ENGINEER.



CASE NO. 19
TYPICAL APPLICATION OF TRAFFIC CONTROL
AROUND A WORK AREA NEAR AN INTERSECTION

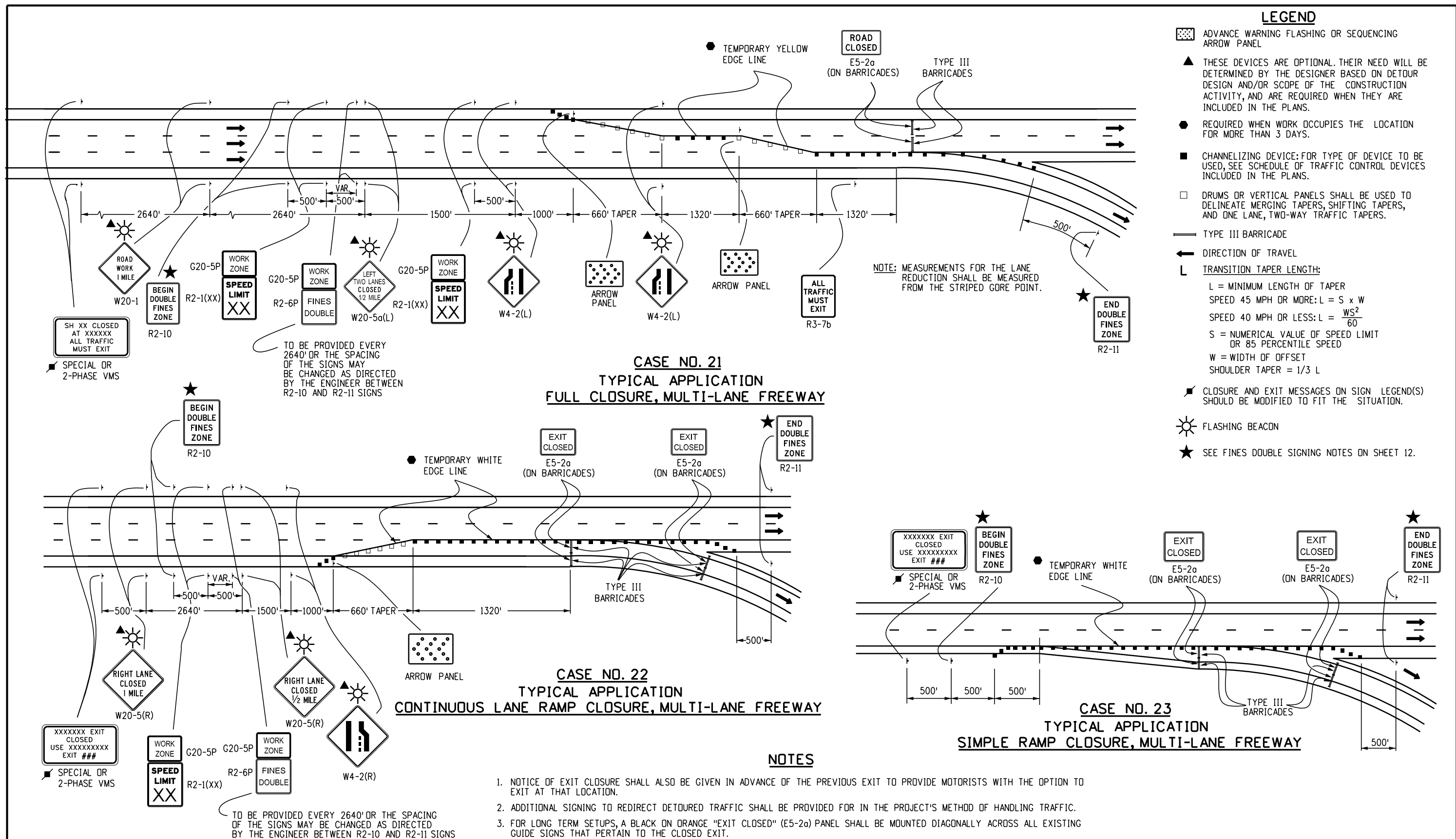


CASE NO. 20
TYPICAL SIGNING
FOR ROAD CLOSURE

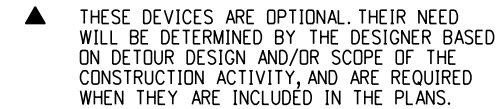
- LEGEND**
- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS.
 - DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE MERGING TAPERS, SHIFTING TAPERS, AND ONE LANE, TWO-WAY TRAFFIC TAPERS.
 - TYPE III BARRICADE
 - CONCRETE BARRIER (TEMPORARY)
 - FLAGGER STATION
 - DIRECTION OF TRAVEL
 - WORK AREA
- TRANSITION TAPER LENGTH:**
 $L = \text{MINIMUM LENGTH OF TAPER}$
 SPEED 45 MPH OR MORE: $L = S \times W$
 SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
 $S = \text{NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED}$
 $W = \text{WIDTH OF OFFSET}$
 SHOULDER TAPER = $1/3 L$
- MOBILE ATTENUATOR
- CZ CLEAR ZONE (SEE GENERAL NOTE 17 ON SHEET 2).
- FLASHING BEACON
- THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- VARIES BUFFER SPACE (SEE GENERAL NOTE 23 ON SHEET 2).
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

***KEY TO ADVANCE SIGNING DISTANCES**

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (<= 40 MPH)	100	100	100
URBAN (>= 45 MPH)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1500	2640



LEGEND



FINES DOUBLE SIGNING NOTES:

1. SIGNS SHALL NOT BE PLACED SOONER THAN FOUR HOURS BEFORE WORK IS TO BEGIN AND SHALL BE REMOVED AS SOON AS WORK ACTIVITIES ARE CONCLUDED, UNLESS POTENTIAL HAZARDS INTRODUCED AS A RESULT OF THE WORK ARE STILL PRESENT AT THE END OF THE WORK DAY. IF SIGNS ARE LEFT IN PLACE AFTER WORK ACTIVITIES, THE TRAFFIC CONTROL SUPERVISOR SHALL MAKE AN ENTRY IN THEIR DAILY DIARY THAT JUSTIFIES THEIR USE.

"HAZARDS" INCLUDE BUT ARE NOT LIMITED TO:

EDGE DROP OFFS
EQUIPMENT, WORKERS OR NON-SHIELDED OBJECTS IN THE CLEAR ZONE
ROUGH PAVEMENT
MAJOR CHANGE IN ALIGNMENT
REDUCED SHOULDER WIDTH
TEMPORARY GUARD RAIL OR BARRIER
LANE CLOSURE

2. SIGNS SHALL ONLY BE PLACED WHERE WORKERS ARE PRESENT IN THE ROADWAY OR CLEAR ZONE OR ARE AT RISK, OR WHERE THERE ARE HAZARDS IN THE TRAVELWAY, SHOULDERS OR CLEAR ZONE.

3. SIGNS SHOULD BE PLACED SO THAT MOTORISTS IMMEDIATELY ASSOCIATE THE SIGNS WITH PRESENT WORK ACTIVITIES. IF THE ZONE OF WORK ACTIVITY MOVES, THE SIGNS SHOULD BE MOVED ACCORDINGLY.

4. SIGNING SHOWN IS REQUIRED TO ENFORCE DOUBLE FINES IN A WORK ZONE. ADDITIONAL SIGNING SHALL BE IN ACCORDANCE WITH THAT NORMALLY REQUIRED FOR THE PARTICULAR WORK ZONE. PLACEMENT OF "FINES DOUBLE" SIGNING MAY BE ADJUSTED AS NEEDED TO PROVIDE A MINIMUM 250' SPACING BETWEEN OTHER SIGNING REQUIRED FOR THE SPECIFIC WORK ZONE SETUP.



TO BE PROVIDED EVERY
2640' OR THE SPACING _____
OF THE SIGNS MAY
BE CHANGED AS DIRECTED
BY THE ENGINEER BETWEEN
R2-10 AND R2-11 SIGNS

ADDITIONAL SIGNS SHOULD BE
ADDED AFTER ALL ACCESSES
THAT FEED SIGNIFICANT TRAFFIC
TO THE HIGHWAY.

TO BE PROVIDED EVERY
2640' OR THE SPACING
OF THE SIGNS MAY
BE CHANGED AS DIRECTED
BY THE ENGINEER BETWEEN
R2-10 AND R2-11 SIGNS

CASE NO. 24

Computer File Information

Creation Date: 07/04/12
Created By: Roybal
Last Modification Date: 01/14/26
Last Modified By: NRIVERA
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions		
	Date:	Comments
R-2	01/14/26	REMOVED G20-10/11
R-1	01/20/23	Replaced R52-a(b) with R2-10(11) Updated G20-11


Colorado Department of Transportation
 2829 W. Howard Pl.
 Denver, CO 80204
 Phone: 303-757-9654
 FAX: 303-757-9219
Traffic Safety & Engineering

TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

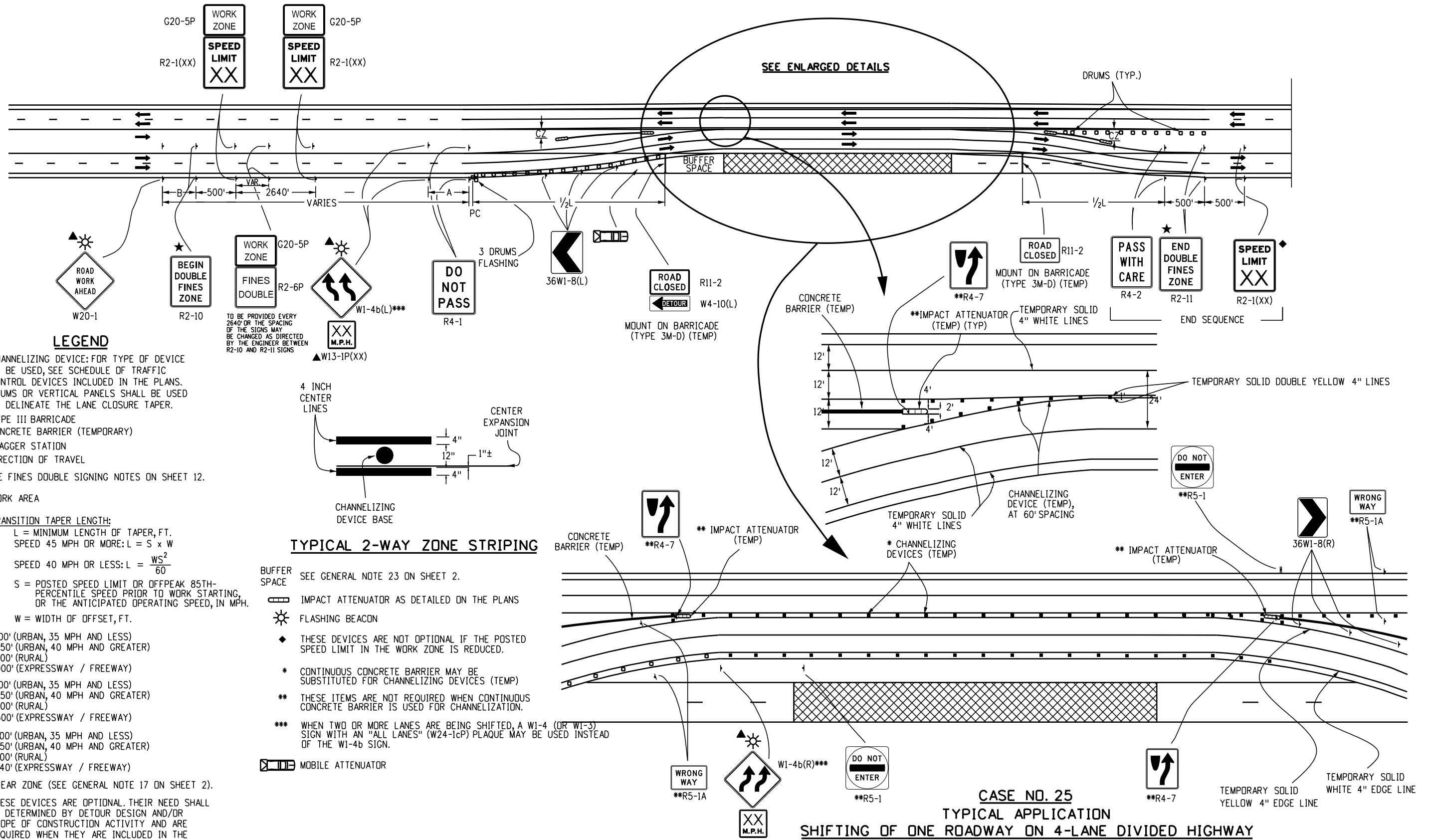
Issued By: Traffic Safety & Engineering Branch July 31, 2019

STANDARD PLAN NO.

S-630-1

Standard Sheet No. 12 of 26

Project Sheet Number:



- LEGEND**
- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE THE LANE CLOSURE TAPER.
 - TYPE III BARRICADE
 - CONCRETE BARRIER (TEMPORARY)
 - FLAGGER STATION
 - DIRECTION OF TRAVEL
 - ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
 - WORK AREA
 - L** TRANSITION TAPER LENGTH:
 $L = \text{MINIMUM LENGTH OF TAPER, FT.}$
 SPEED 45 MPH OR MORE: $L = S \times W$
 SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
 $S = \text{POSTED SPEED LIMIT OR OFFPEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED, IN MPH.}$
 $W = \text{WIDTH OF OFFSET, FT.}$
 - A = 100' (URBAN, 35 MPH AND LESS)
 350' (URBAN, 40 MPH AND GREATER)
 500' (RURAL)
 1,000' (EXPRESSWAY / FREEWAY)
 - B = 100' (URBAN, 35 MPH AND LESS)
 350' (URBAN, 40 MPH AND GREATER)
 500' (RURAL)
 1,500' (EXPRESSWAY / FREEWAY)
 - C = 100' (URBAN, 35 MPH AND LESS)
 350' (URBAN, 40 MPH AND GREATER)
 500' (RURAL)
 2,640' (EXPRESSWAY / FREEWAY)
 - CZ CLEAR ZONE (SEE GENERAL NOTE 17 ON SHEET 2).
 - ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.

TYPICAL 2-WAY ZONE STRIPING

- SEE GENERAL NOTE 23 ON SHEET 2.
- IMPACT ATTENUATOR AS DETAILED ON THE PLANS
- FLASHING BEACON
- THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- CONTINUOUS CONCRETE BARRIER MAY BE SUBSTITUTED FOR CHANNELIZING DEVICES (TEMP)
- THESE ITEMS ARE NOT REQUIRED WHEN CONTINUOUS CONCRETE BARRIER IS USED FOR CHANNELIZATION.
- WHEN TWO OR MORE LANES ARE BEING SHIFTED, A W1-4 (OR W1-3) SIGN WITH AN "ALL LANES" (W24-1cP) PLAQUE MAY BE USED INSTEAD OF THE W1-4b SIGN.
- MOBILE ATTENUATOR

CASE NO. 25 TYPICAL APPLICATION SHIFTING OF ONE ROADWAY ON 4-LANE DIVIDED HIGHWAY

Computer File Information		Sheet Revisions		Colorado Department of Transportation	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	STANDARD PLAN NO.	
Creation Date: 07/04/12		Date:	Comments			S-630-1	
Created By: Roybal	(R-2)	01/14/26	REMOVED G20-10/11	2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219	Issued By: Traffic Safety & Engineering Branch July 31, 2019	Standard Sheet No. 13 of 26	
Last Modification Date: 01/14/26	(R-1)	01/20/23	Replaced R52-a(b) with R2-10(11) Updated G20-11 Added Drum/Vertical Panel Symbol				
Last Modified By: NRIVERA				Traffic Safety & Engineering	EB	Project Sheet Number:	
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							

LEGEND

- CHANNELIZING DEVICE; FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE THE LANE CLOSURE TAPER.

TYPE III BARRICADE

CONCRETE BARRIER (TEMPORARY)

FLAGGER STATION

DIRECTION OF TRAVEL

WORK AREA

L TRANSITION TAPER LENGTH:

L = MINIMUM LENGTH OF TAPER

SPEED 45 MPH OR MORE: $L = S \times W$

S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED

W = WIDTH OF OFFSET

SHOULDER TAPER = $1/3 L$

ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL

CZ CLEAR ZONE (SEE GENERAL NOTE 17 ON SHEET 2).

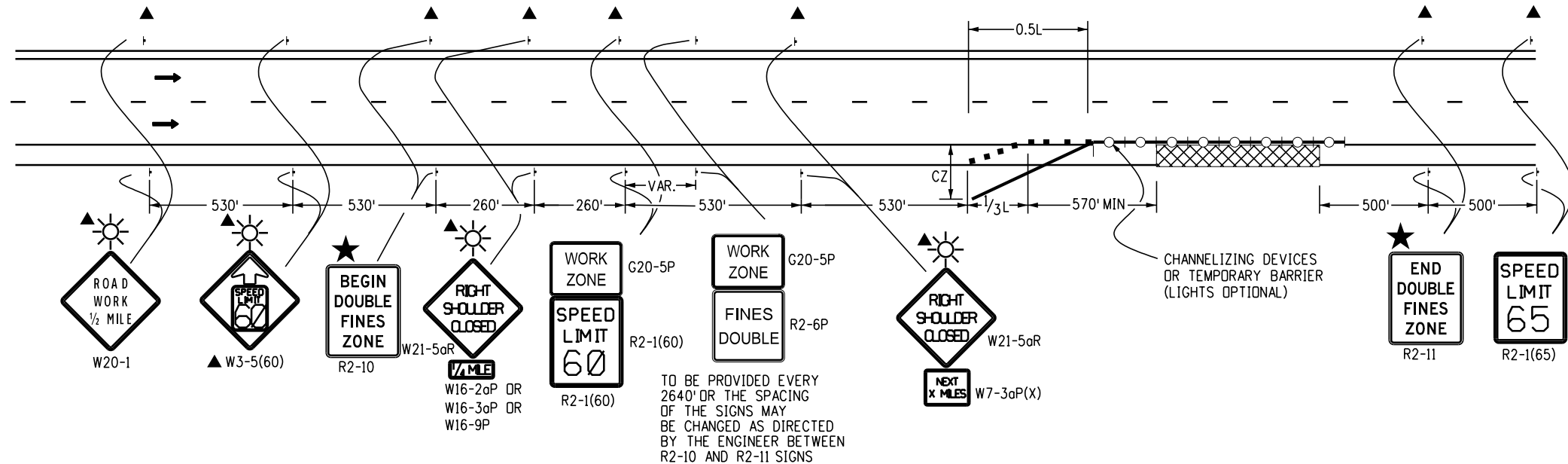
THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY TRAFFIC VOLUMES AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.

REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.

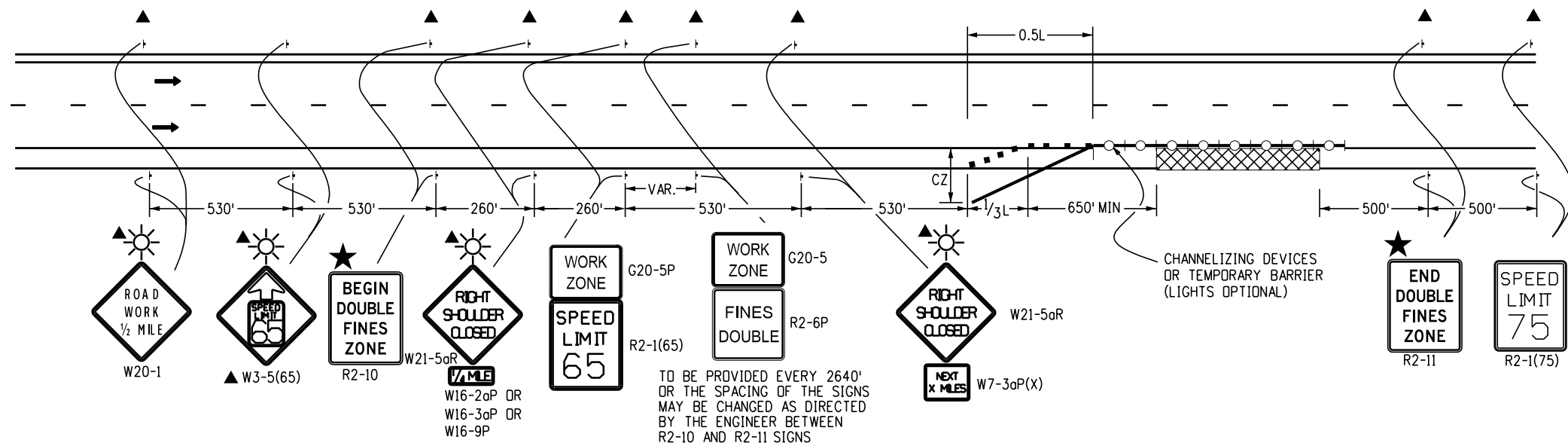
MOBILE ATTENUATOR

FLASHING BEACON

SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.



CASE NO. 26
TYPICAL APPLICATION
SHOULDER WORK - FREEWAY/EXPRESSWAY w/ 65 MPH SPEED LIMIT
 WHEN HAZARDS (WORKERS, EQUIPMENT, OR TEMPORARY BARRIER) ARE WITHIN 8 FT OF TRAVEL WAY



CASE NO. 27
TYPICAL APPLICATION
SHOULDER WORK - FREEWAY/EXPRESSWAY w/ 75 MPH SPEED LIMIT
 WHEN HAZARDS (WORKERS, EQUIPMENT, OR TEMPORARY BARRIER) ARE WITHIN 10 FT OF TRAVEL WAY

Computer File Information

Creation Date: 07/04/12
 Created By: Roybal
 Last Modification Date: 01/14/26
 Last Modified By: NRIVERA
 CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English

Sheet Revisions

Date:	Comments
01/14/26	REMOVED G20-11
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Colorado Department of Transportation



2829 W. Howard Pl.
 Denver, CO 80204
 Phone: 303-757-9654
 FAX: 303-757-9219

Traffic Safety & Engineering

EB

TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION

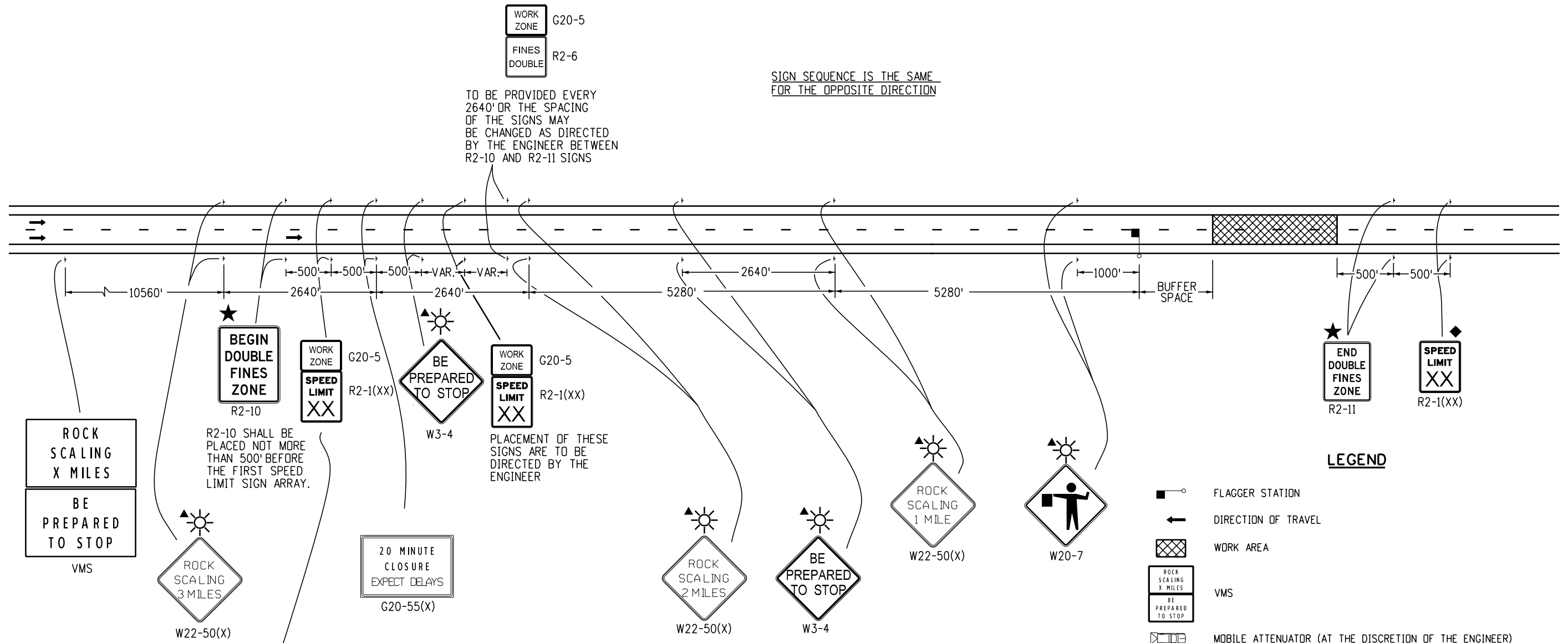
Issued By: Traffic Safety & Engineering Branch July 31, 2019

STANDARD PLAN NO.

S-630-1

Standard Sheet No. 14 of 26

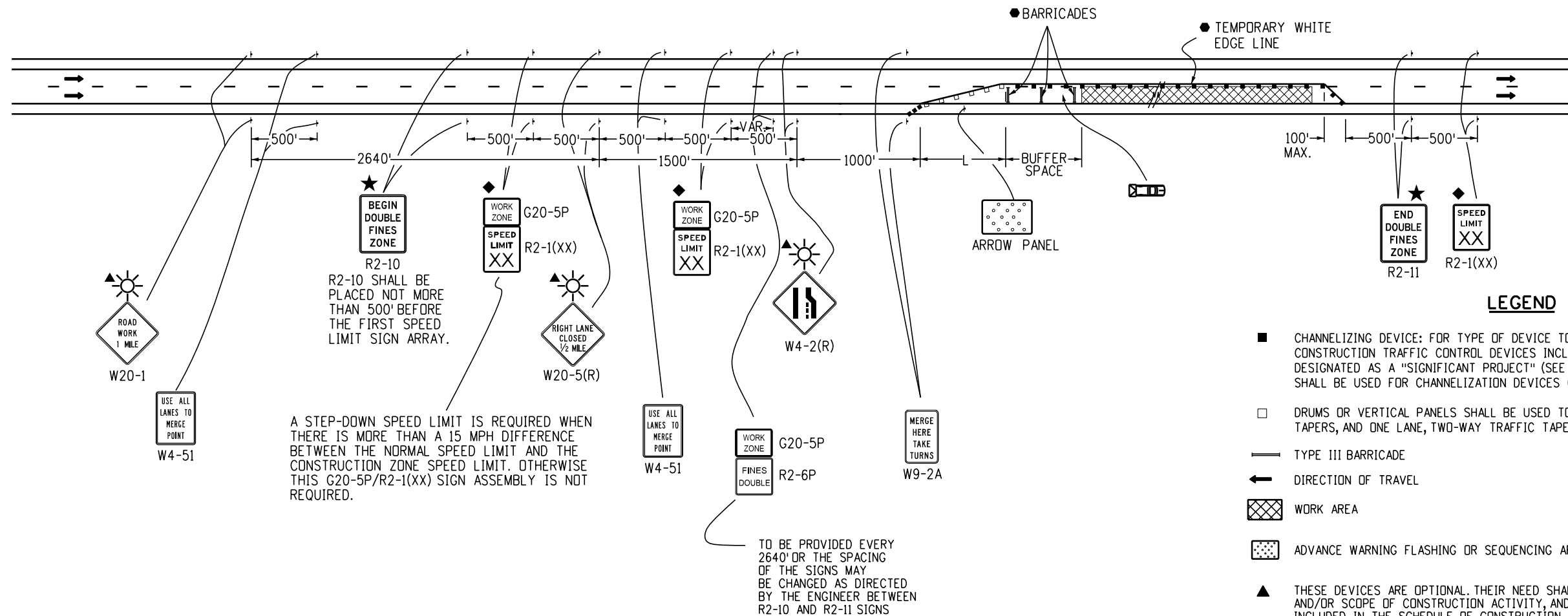
Project Sheet Number:



A STEP-DOWN SPEED LIMIT IS REQUIRED WHEN THERE IS MORE THAN A 15 MPH DIFFERENCE BETWEEN THE NORMAL SPEED LIMIT AND THE CONSTRUCTION ZONE SPEED LIMIT. OTHERWISE THIS G20-5P/R2-1(XX) SIGN ASSEMBLY IS NOT REQUIRED.

CASE NO. 28
TYPICAL APPLICATION
ROCK SCALING - ROAD CLOSURE, 4-LANE DIVIDED HIGHWAY

Computer File Information		R-2 R-1	Sheet Revisions		Colorado Department of Transportation		TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION		STANDARD PLAN NO.	
Creation Date: 07/04/12			Date:	Comments	 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	Issued By: Traffic Safety & Engineering Branch July 31, 2019		Standard Sheet No. 15 of 26		
Created By: Roybal			01/14/26	REMOVED G20-10/11						
Last Modification Date: 01/14/26			01/20/23	Replaced R52-a(b) with R2-10(11) Updated G20-11						
Last Modified By: NRIVERA										
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							Project Sheet Number:			



LEGEND

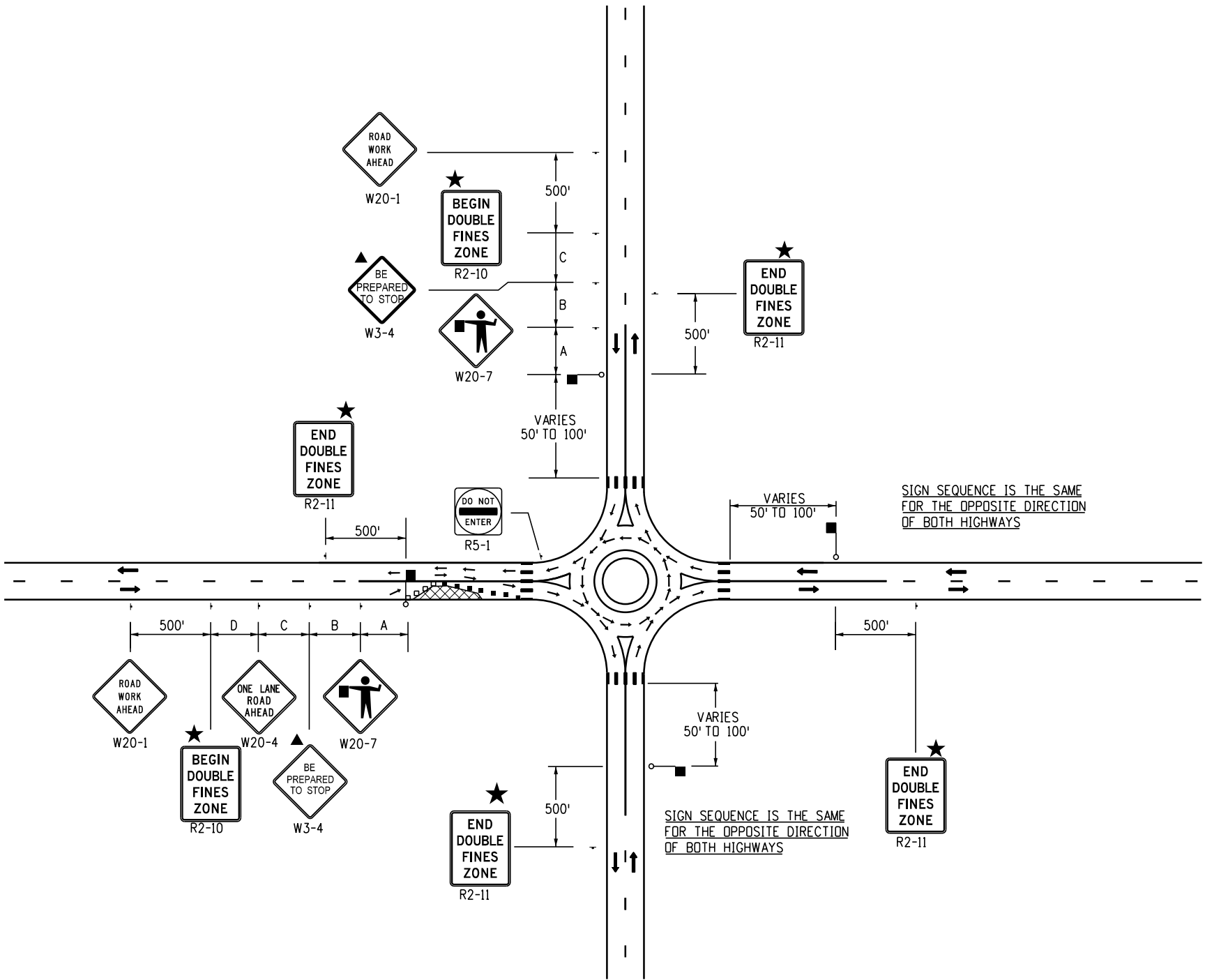
- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. IF PROJECT IS DESIGNATED AS A "SIGNIFICANT PROJECT" (SEE GENERAL NOTE 28), CONCRETE BARRIER SHALL BE USED FOR CHANNELIZATION DEVICES (TEMP) AS DETERMINED BY THE ENGINEER.
- DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE MERGING TAPERS, SHIFTING TAPERS, AND ONE LANE, TWO-WAY TRAFFIC TAPERS.
- TYPE III BARRICADE
- ← DIRECTION OF TRAVEL
- ▨ WORK AREA
- ▤ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
- ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- ☀ FLASHING BEACON
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
- ☐ MOBILE ATTENUATOR
- BUFFER SPACE SEE GENERAL NOTE 23 ON SHEET 2.

CASE NO. 29 TYPICAL APPLICATION LATE/ZIPPER MERGING - ONE LANE CLOSED, 4-LANE DIVIDED HIGHWAY

L TRANSITION TAPER LENGTH:

- L = MINIMUM LENGTH OF TAPER
- SPEED 45 MPH OR MORE: $L = S \times W$
- SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
- S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
- W = WIDTH OF OFFSET
- SHOULDER TAPER = $\frac{1}{3} L$

Computer File Information		Sheet Revisions		Colorado Department of Transportation	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	STANDARD PLAN NO.	
Creation Date: 07/04/12		Date:	Comments			S-630-1	
Created By: Roybal	(R-4)	01/14/26	REMOVED G20-10/11	 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219	Issued By: Traffic Safety & Engineering Branch July 31, 2019	Standard Sheet No. 16 of 26	
Last Modification Date: 01/14/26	(R-3)	09/22/25	Revised sign sequence.			Project Sheet Number:	
Last Modified By: NRIVERA	(R-2)	04/30/24	REVISED G20-11 LEGEND				
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	(R-1)	01/20/23	Replaced R52-a(b) with R2-10(11)				
				Traffic Safety & Engineering	EB		



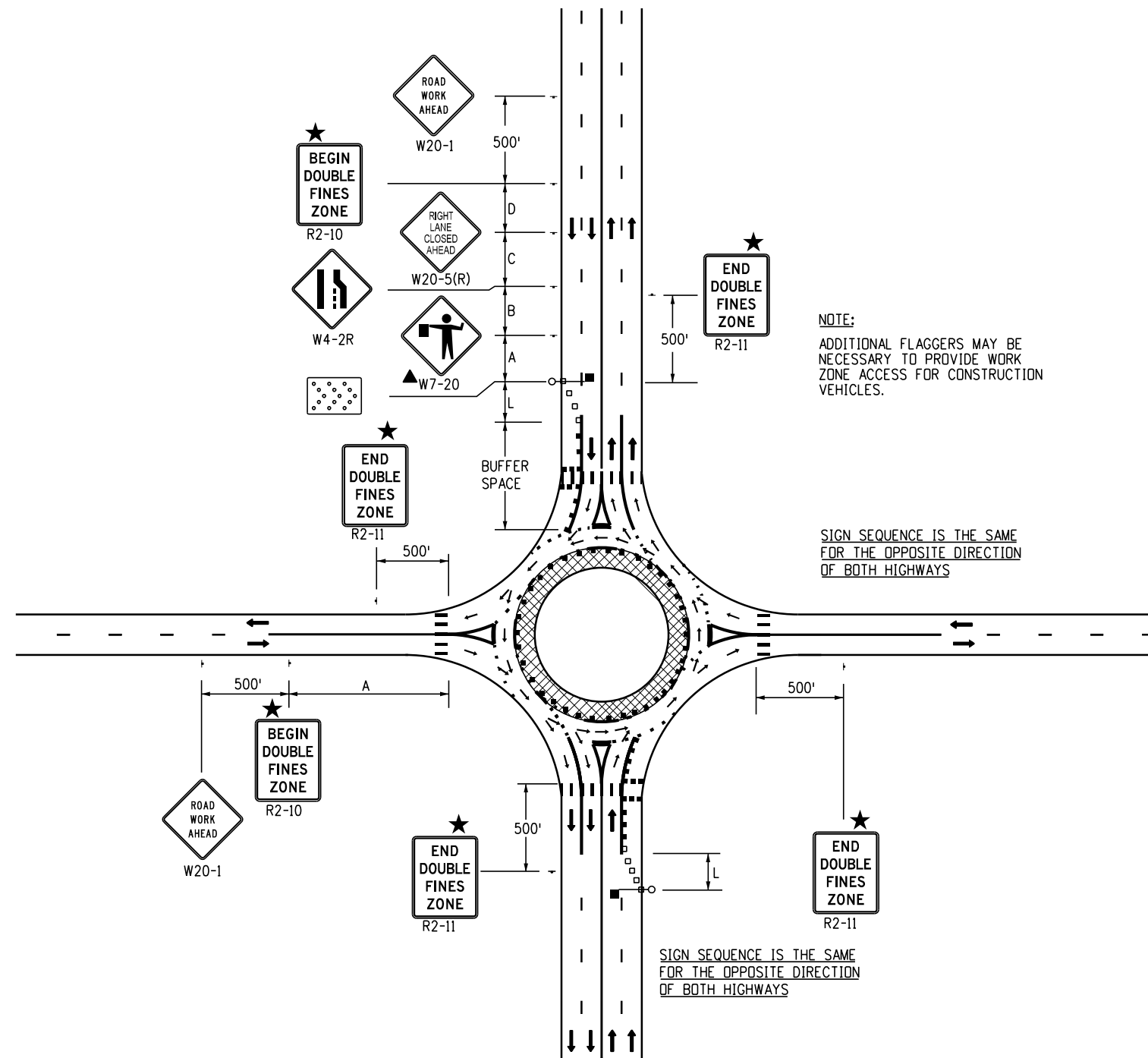
LEGEND

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. IF PROJECT IS DESIGNATED AS A "SIGNIFICANT PROJECT" (SEE GENERAL NOTE 28), CONCRETE BARRIER SHALL BE USED FOR CHANNELIZATION DEVICES (TEMP) AS DETERMINED BY THE ENGINEER.
- DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE MERGING TAPERS, SHIFTING TAPERS, AND ONE LANE, TWO-WAY TRAFFIC TAPERS.
- TYPE III BARRICADE
- DIRECTION OF TRAVEL
- WORK AREA
- ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
- THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
- THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
- FLASHING BEACON
- REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
- SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
- MOBILE ATTENUATOR
- TRANSITION TAPER LENGTH:
 - L = MINIMUM LENGTH OF TAPER
 - SPEED 45 MPH OR MORE: $L = S \times W$
 - SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
 - S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
 - W = WIDTH OF OFFSET
 - SHOULDER TAPER = $\frac{1}{3} L$
- SEE GENERAL NOTE 23 ON SHEET 2.
- FLAGGER STATION

CASE NO. 30
TYPICAL APPLICATION
ROUNDBOUT - PARTIAL CLOSURE NEAR ONE-LANE ROUNDBOUT

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (<= 40 MPH)	100	100	100
URBAN (>= 45 MPH)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1500	2640

Computer File Information		Sheet Revisions		Colorado Department of Transportation	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	STANDARD PLAN NO.	
Creation Date: 07/04/12		Date:	Comments			S-630-1	
Created By: Nakao	(R-2)	01/14/26	REMOVED G20-10/11	 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219	Issued By: Traffic Safety & Engineering Branch July 31, 2019	Standard Sheet No. 17 of 26	
Last Modification Date: 01/14/26	(R-1)	01/20/23	Replaced R52-a(b) with R2-10(11) Updated G20-11 Added Drum/Vertical Panel Symbol			Project Sheet Number:	
Last Modified By: NRIVERA				Traffic Safety & Engineering EB			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							

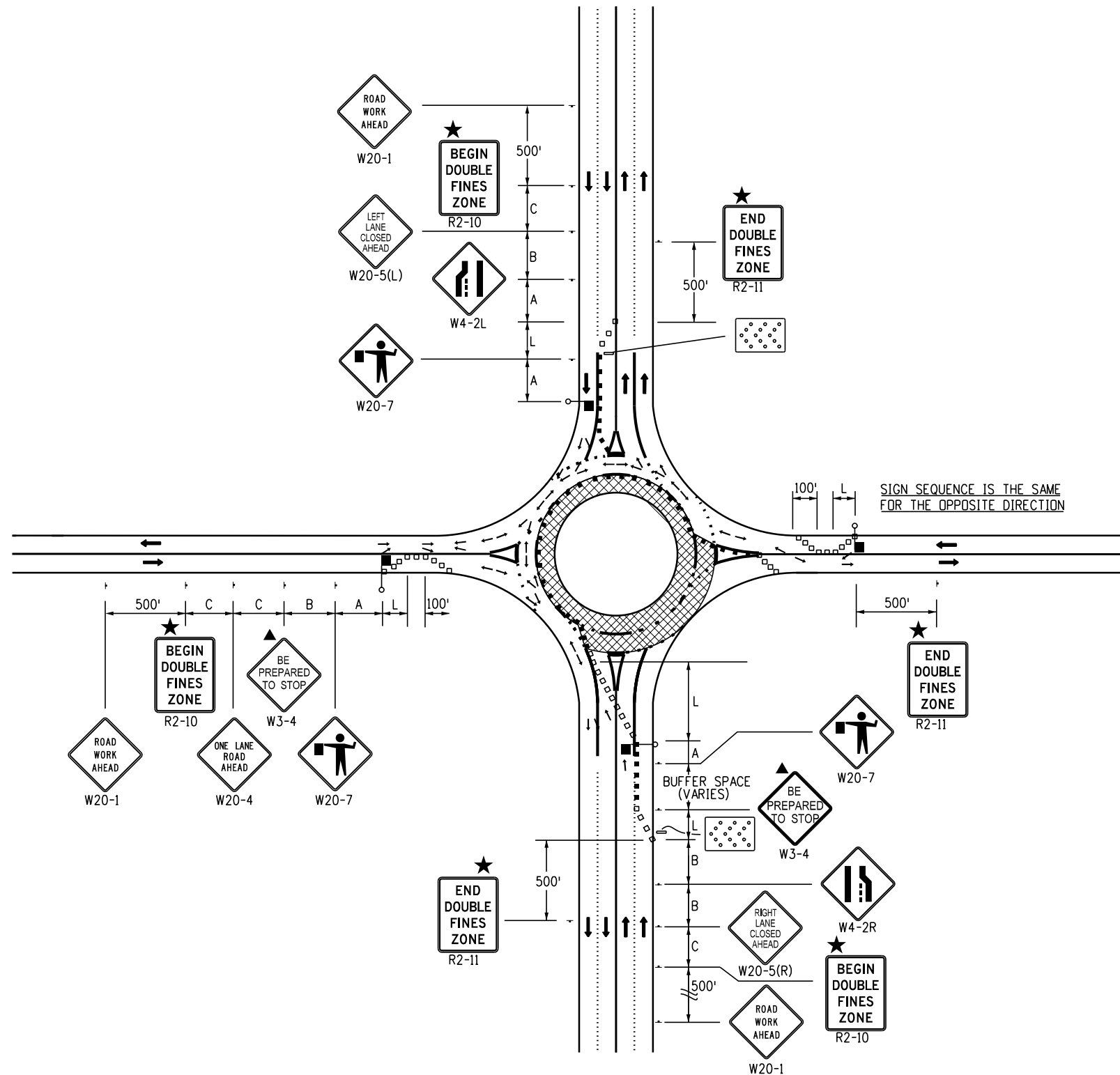


- LEGEND**
- * A TRUCK DETOUR ROUTE MAY BE NECESSARY TO DIVERT TRUCKS AWAY FROM THE ROUNDABOUT CIRCLE. ALSO NECESSARY IS A STREET NAME AND/OR ROUTE NUMBER SIGN, INFORMING MOTORISTS WHERE THEY NEED TO EXIT THE ROUNDABOUT CIRCLE TO ENTER THE DESIRED STREET AND/OR ROUTE NUMBER.
 - CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. IF PROJECT IS DESIGNATED AS A "SIGNIFICANT PROJECT" (SEE GENERAL NOTE 28), CONCRETE BARRIER SHALL BE USED FOR CHANNELIZATION DEVICES (TEMP) AS DETERMINED BY THE ENGINEER.
 - DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE MERGING TAPERS, SHIFTING TAPERS, AND ONE LANE, TWO-WAY TRAFFIC TAPERS.
 - TYPE III BARRICADE
 - ← DIRECTION OF TRAVEL
 - ▨ WORK AREA
 - ▤ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
 - ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
 - ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
 - ☀ FLASHING BEACON
 - REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
 - ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
 - ▬ MOBILE ATTENUATOR
 - L TRANSITION TAPER LENGTH:
L = MINIMUM LENGTH OF TAPER
SPEED 45 MPH OR MORE: $L = S \times W$
SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
W = WIDTH OF OFFSET
SHOULDER TAPER = $\frac{1}{3} L$
 - BUFFER SPACE SEE GENERAL NOTE 23 ON SHEET 2.
 - FLAGGER STATION

CASE NO. 31
TYPICAL APPLICATION *
ROUNDABOUT - INSIDE LANE CLOSURE FOR TWO-LANE ROUNDABOUT

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (<= 40 MPH)	100	100	100
URBAN (>= 45 MPH)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1500	2640

Computer File Information		Sheet Revisions		Colorado Department of Transportation	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	STANDARD PLAN NO.	
Creation Date: 07/04/12		Date:	Comments			S-630-1	
Created By: Nakao	(R-2)	01/14/26	REMOVED G20-10/11 REVISED G20-5	 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	Issued By: Traffic Safety & Engineering Branch July 31, 2019	Standard Sheet No. 18 of 26	
Last Modification Date: 01/14/26	(R-1)	01/20/23	Replaced R52-a(b) with R2-10(11) Updated G20-11			Project Sheet Number:	
Last Modified By: NRIVERA	(O)		Added Drum/Vertical Panel Symbol				
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							

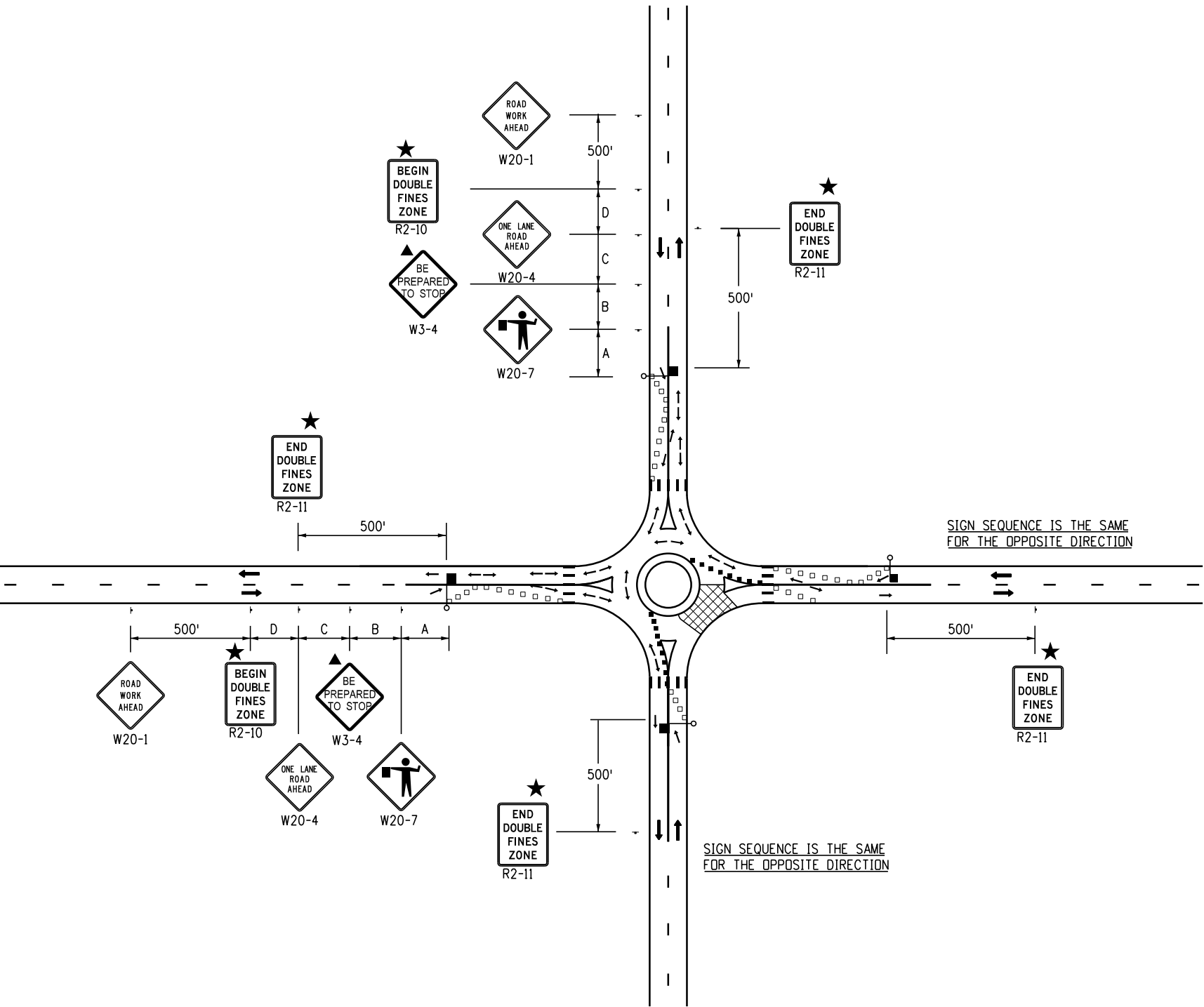


- LEGEND**
- * A TRUCK DETOUR ROUTE MAY BE NECESSARY TO DIVERT TRUCKS AWAY FROM THE ROUNDABOUT CIRCLE. ALSO NECESSARY IS A STREET NAME AND/OR ROUTE NUMBER SIGN, INFORMING MOTORISTS WHERE THEY NEED TO EXIT THE ROUNDABOUT CIRCLE TO ENTER THE DESIRED STREET AND/OR ROUTE NUMBER.
 - CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. IF PROJECT IS DESIGNATED AS A "SIGNIFICANT PROJECT" (SEE GENERAL NOTE 28), CONCRETE BARRIER SHALL BE USED FOR CHANNELIZATION DEVICES (TEMP) AS DETERMINED BY THE ENGINEER.
 - DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE MERGING TAPERS, SHIFTING TAPERS, AND ONE LANE, TWO-WAY TRAFFIC TAPERS.
 - TYPE III BARRICADE
 - ← DIRECTION OF TRAVEL
 - ▨ WORK AREA
 - ▨ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
 - ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
 - ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
 - ☀ FLASHING BEACON
 - REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
 - ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
 - ☐ MOBILE ATTENUATOR
 - L TRANSITION TAPER LENGTH:
L = MINIMUM LENGTH OF TAPER
SPEED 45 MPH OR MORE: $L = S \times W$
SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
W = WIDTH OF OFFSET
SHOULDER TAPER = $\frac{1}{3} L$
 - BUFFER SPACE SEE GENERAL NOTE 23 ON SHEET 2.
 - ◻ FLAGGER STATION

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (<= 40 MPH)	100	100	100
URBAN (>= 45 MPH)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1500	2640

CASE NO. 32
TYPICAL APPLICATION *
ROUNDABOUT - OUTSIDE LANE CLOSURE FOR TWO-LANE ROUNDABOUT

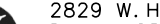
Computer File Information		Sheet Revisions		Colorado Department of Transportation  2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	STANDARD PLAN NO.	
Creation Date: 07/04/12		Date:	Comments			S-630-1	
Created By: Nakao	(R-2)	01/14/26	REMOVED G20-10/11 REVISED G20-5	 EB	Issued By: Traffic Safety & Engineering Branch July 31, 2019	Standard Sheet No. 19 of 26	
Last Modification Date: 01/14/26	(R-1)	01/20/23	Replaced R52-a(b) with R2-10(11) Updated G20-11 Added Drum/Vertical Panel Symbol			Project Sheet Number:	
Last Modified By: NRIVERA							
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							



- LEGEND**
- * A TRUCK DETOUR ROUTE MAY BE NECESSARY TO DIVERT TRUCKS AWAY FROM THE ROUNDABOUT CIRCLE. ALSO NECESSARY IS A STREET NAME AND/OR ROUTE NUMBER SIGN, INFORMING MOTORISTS WHERE THEY NEED TO EXIT THE ROUNDABOUT CIRCLE TO ENTER THE DESIRED STREET AND/OR ROUTE NUMBER.
 - CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE THE SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS. IF PROJECT IS DESIGNATED AS A "SIGNIFICANT PROJECT" (SEE GENERAL NOTE 28), CONCRETE BARRIER SHALL BE USED FOR CHANNELIZATION DEVICES (TEMP) AS DETERMINED BY THE ENGINEER.
 - DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE MERGING TAPERS, SHIFTING TAPERS, AND ONE LANE, TWO-WAY TRAFFIC TAPERS.
 - TYPE III BARRICADE
 - ← DIRECTION OF TRAVEL
 - ▨ WORK AREA
 - ▤ ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
 - ▲ THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.
 - ◆ THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
 - ☀ FLASHING BEACON
 - REQUIRED WHEN WORK OCCUPIES THE LOCATION FOR MORE THAN 3 DAYS.
 - ★ SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.
 - ▬ MOBILE ATTENUATOR
 - L TRANSITION TAPER LENGTH:
 - L = MINIMUM LENGTH OF TAPER
 - SPEED 45 MPH OR MORE: $L = S \times W$
 - SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
 - S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
 - W = WIDTH OF OFFSET
 - SHOULDER TAPER = $\frac{1}{3} L$
 - BUFFER SPACE SEE GENERAL NOTE 23 ON SHEET 2.
 - FLAGGER STATION

CASE NO. 33
TYPICAL APPLICATION *
ROUNDABOUT - PARTIAL CLOSURE FOR ONE-LANE ROUNDABOUT

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (<= 40 MPH)	100	100	100
URBAN (>= 45 MPH)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1500	2640

Computer File Information			Sheet Revisions		Colorado Department of Transportation  2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION		STANDARD PLAN NO.	
Creation Date: 07/04/12			Date:	Comments		S-630-1			
Created By: Nakao	(R-2)		1/14/26	REMOVED G20-10/11		Standard Sheet No. 20 of 26			
Last Modification Date: 01/14/26	(R-1)		01/20/23	Replaced R52-a(b) with R2-10(11) Updated G20-11 Added Drum/Vertical Panel Symbol		Project Sheet Number:			
Last Modified By: NRIVERA						Issued By: Traffic Safety & Engineering Branch July 31, 2019			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English									

LEGEND

- 

MOBILE ATTENUATOR VEHICLE, TWO 360-DEGREE YELLOW FLASHING BEACONS, AND YELLOW FLASHING VEHICLE LIGHTS OR STROBES.
- 

VARIABLE MESSAGE SIGN (VMS).
- 

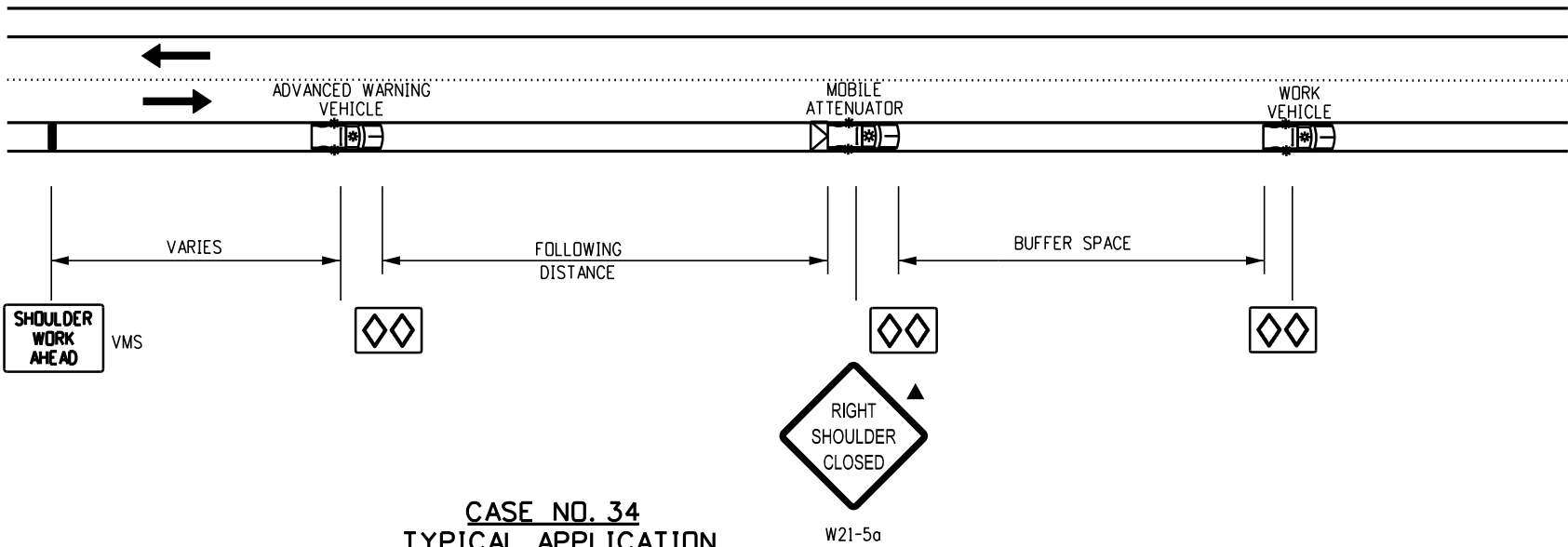
ARROW BOARD
- 

WHEN VMS IS USED, THE "RIGHT SHOULDER CLOSED" (W21-5a) SIGN BECOMES OPTIONAL.
- 

IF TRACKING OF THE WET PAINT IS ANTICIPATED, THE USE OF CONES OR STATIONARY "WET PAINT" SIGNS SHALL BE POSTED.
- 

THE VARIABLE SEPARATION DISTANCE BETWEEN THE "CONE PLACEMENT VEHICLE" AND "CONE PICKUP VEHICLE" SHALL BE DETERMINED BY THE TRACK DRYING TIME OF THE PAVEMENT MARKING MATERIAL.
- 

OPTIONAL

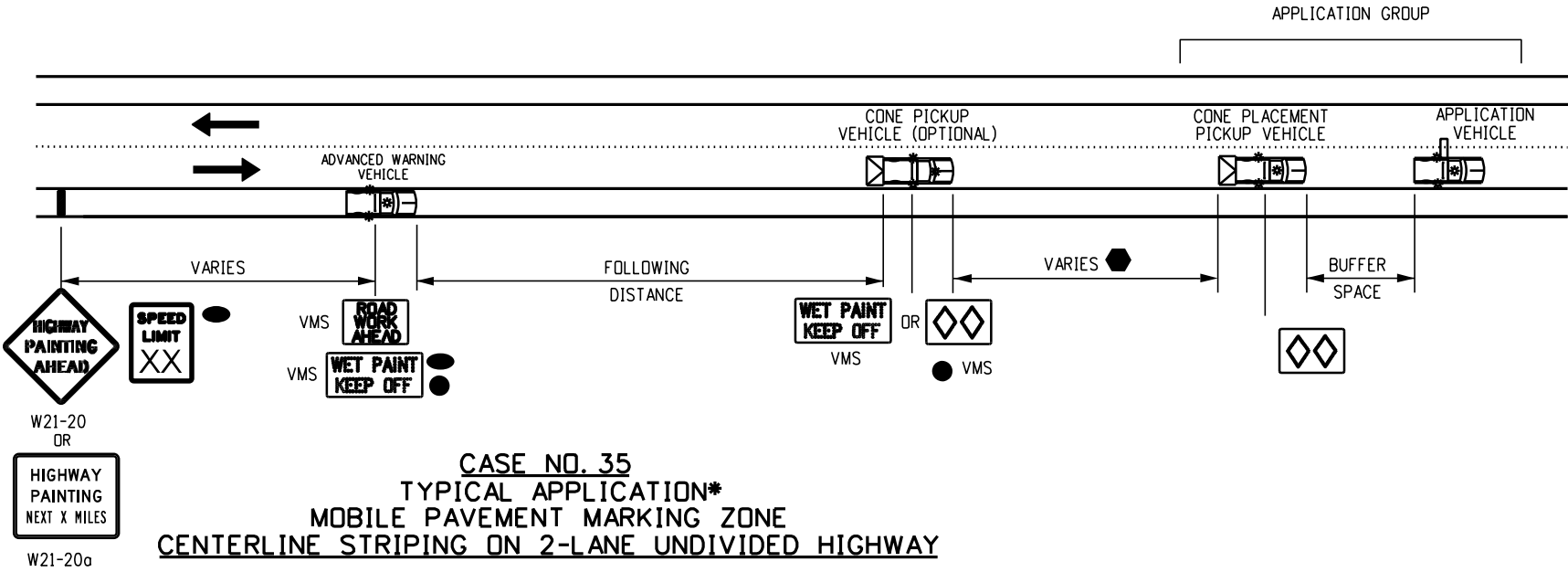


CASE NO. 34
TYPICAL APPLICATION
MOBILE WORK ZONE
MOBILE SHOULDER CLOSURE ON 2-LANE UNDIVIDED HIGHWAY

* USE CASE 35 IF SHOULDER IN CASE 34 IS TOO NARROW FOR GROUP VEHICLE USE.

FOLLOWING DISTANCE CHART FOR WARNING
AND MOBILE ATTENUATOR (OR CONE PICKUP) VEHICLE

POSTED WZ SPEED LIMIT (MPH)	FOLLOWING DISTANCE (FEET)	BUFFER SPACE (FEET)
0 - 30	250 - 550	100 - 120
35 - 40	325 - 700	100 - 120
45 - 50	600 - 900	120 - 140
55	750 - 1200	120 - 140
60	1000 - 1400	180 - 200

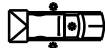


CASE NO. 35
TYPICAL APPLICATION*
MOBILE PAVEMENT MARKING ZONE
CENTERLINE STRIPING ON 2-LANE UNDIVIDED HIGHWAY

Computer File Information		Sheet Revisions		Colorado Department of Transportation  Traffic Safety & Engineering EB	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION Issued By: Traffic Safety & Engineering Branch July 31, 2019	STANDARD PLAN NO.	
Creation Date: 07/04/12	  	Date:	Comments			S-630-1	
Created By: Nakao		01/20/23	UPDATED LEGEND DELETED NOTE UPDATED FOLLOWING DISTANCE CHART MOVED NOTE UNDER CASE 34			Standard Sheet No. 21 of 26	
Last Modification Date: 01/20/23		06/03/21	UPDATED FOR BUFFER SPACE.			Project Sheet Number:	
Last Modified By: NRIVERA							
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							

FOR CASE #36, VEHICLE/SIGN SEQUENCE IS THE SAME FOR THE LEFT SIDE OF HIGHWAY, WHILE TAPER IS MIRRORED ABOUT THE CENTER LANE, WHEN MOBILE WORK ZONE IS LOCATED ON THE LEFT SIDE OF HIGHWAY.

LEGEND

- 

MOBILE ATTENUATOR VEHICLE, TWO 360-DEGREE YELLOW FLASHING BEACONS, AND YELLOW FLASHING VEHICLE LIGHTS OR STROBES.
- 

ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
- 

VARIABLE MESSAGE SIGN (VMS).
- 

ARROW BOARD
- 

WHEN THE VMS IS USED, THE "SHOULDER CLOSED" W21-5a(R/L) AND "RAMP CLOSED AHEAD" W5-40 SIGNS BECOME OPTIONAL.
- 

IF TRACKING OF THE WET PAINT IS ANTICIPATED, THE USE OF CONES OR STATIONARY "WET PAINT" SIGNS SHALL BE POSTED.
- 

THE VARIABLE SEPARATION DISTANCE BETWEEN THE "CONE PLACEMENT VEHICLE" AND "CONE PICKUP VEHICLE" SHALL BE DETERMINED BY THE TRACK DRYING TIME OF THE PAVEMENT MARKING MATERIAL.
- 

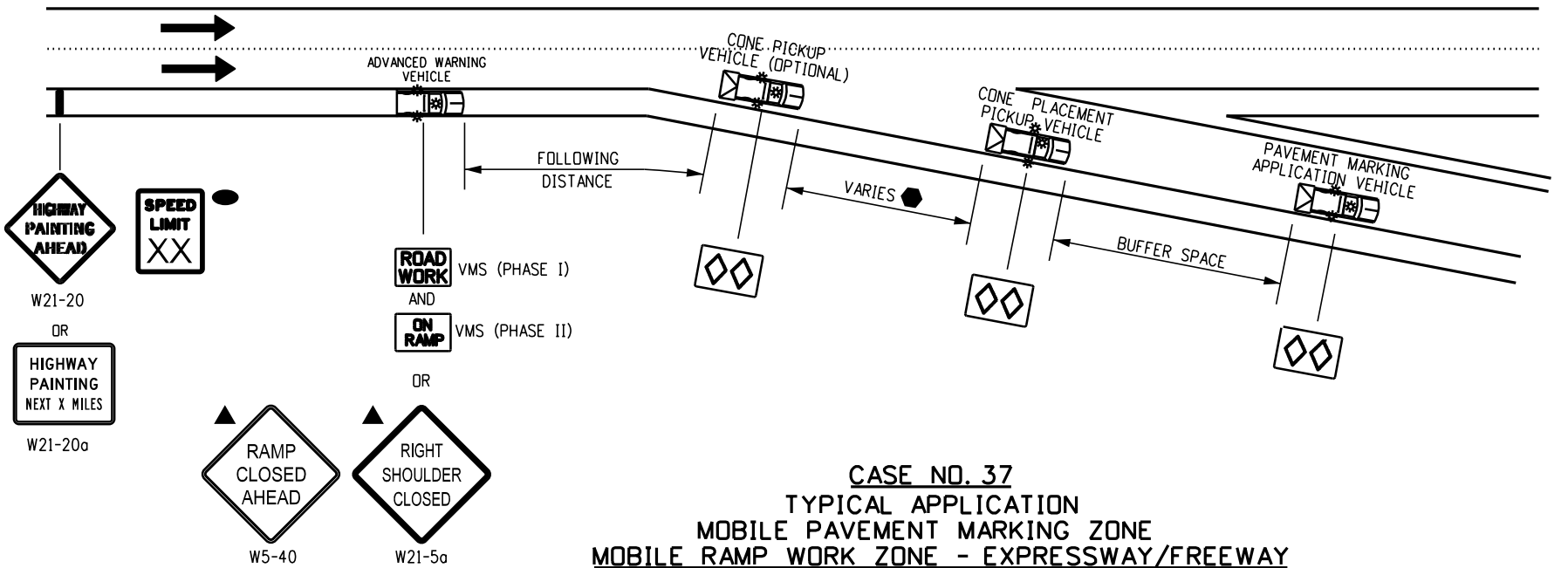
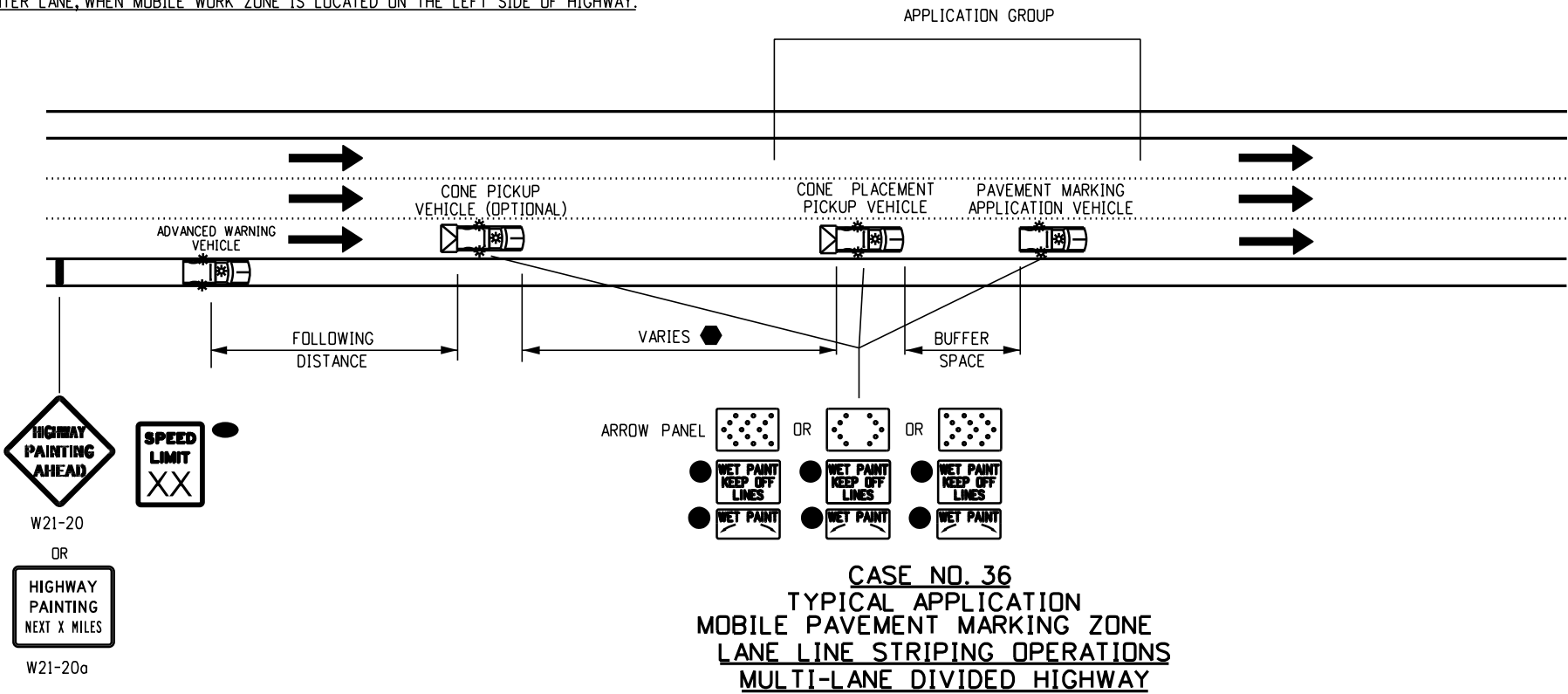
OPTIONAL

NOTES

- THE SIGNING VEHICLES MAY ENCRDACH INTO THE TRAFFIC LANE WHEN THE SHOULDER IS TOO NARROW TO DRIVE ON.
- IF THE RAMP CANNOT BE REOPENED WITHIN 15 MINUTES, USE CASE NO. 22 OF THE S-630-1 STANDARD PLAN.

FOLLOWING DISTANCE CHART FOR WARNING VEHICLE AND CONE PICKUP VEHICLES

POSTED WZ SPEED LIMIT (MPH)	FOLLOWING DISTANCE (FEET)	BUFFER SPACE (FEET)
0 - 30	250 - 550	100 - 120
35 - 40	325 - 700	100 - 120
45 - 50	600 - 900	120 - 140
55	750 - 1200	120 - 140
60	1000 - 1400	180 - 200



Computer File Information		Sheet Revisions		Colorado Department of Transportation  2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	STANDARD PLAN NO.	
Creation Date: 07/04/12	  	Date:	Comments			S-630-1	
Created By: Nakao		01/20/23	UPDATED LEGEND UPDATED FOLLOWING DISTANCE CHART			Standard Sheet No. 22 of 26	
Last Modification Date: 01/20/23						Project Sheet Number:	
Last Modified By: NRIVERA					Issued By: Traffic Safety & Engineering Branch July 31, 2019		
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							

LEGEND

- 

MOBILE ATTENUATOR TRUCK, TWO 360-DEGREE YELLOW FLASHING BEACONS, AND YELLOW FLASHING VEHICLE LIGHTS OR STROBES.
- 

ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL.
- 

WHEN THE VMS IS USED, THE "RIGHT LANE CLOSED AHEAD" W9-3(R/L) SIGN BECOMES OPTIONAL.
- 

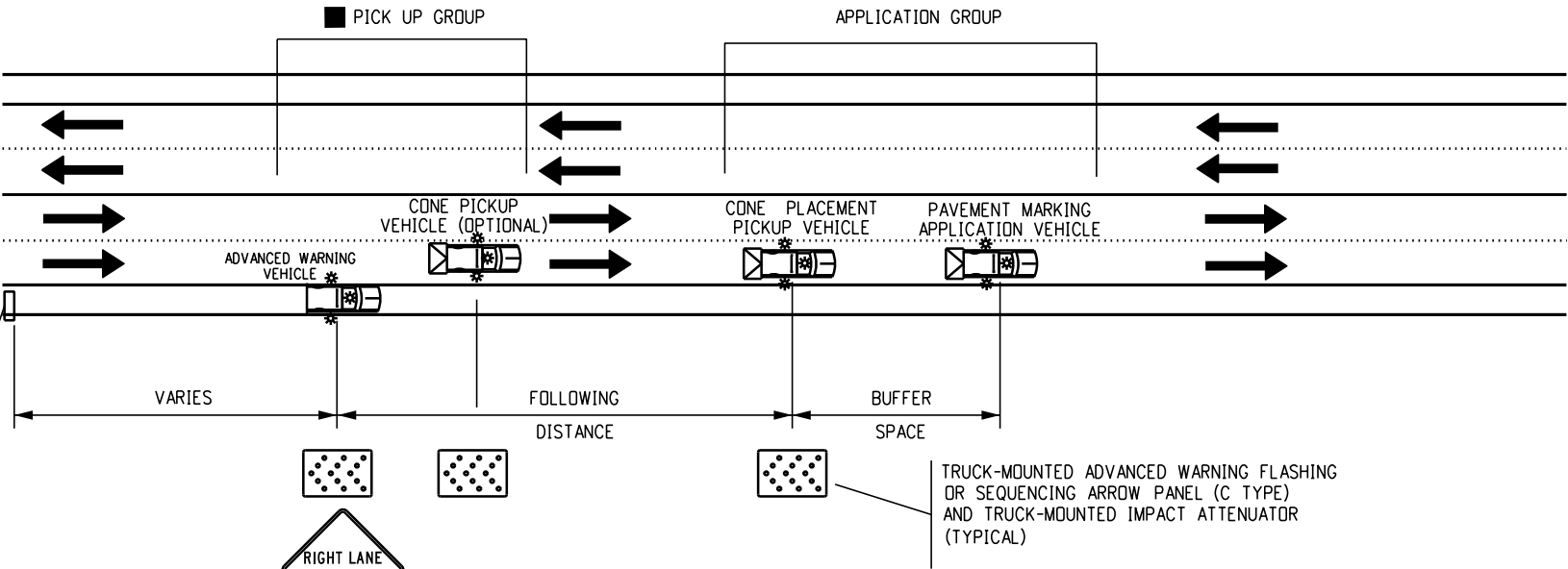
THE "CONE PICK UP VEHICLE" OR "WARNING VEHICLE" MAY ENCRDACH INTO THE TRAFFIC LANE WHEN THE SHOULDER IS TOO NARROW TO DRIVE ON.

NOTES

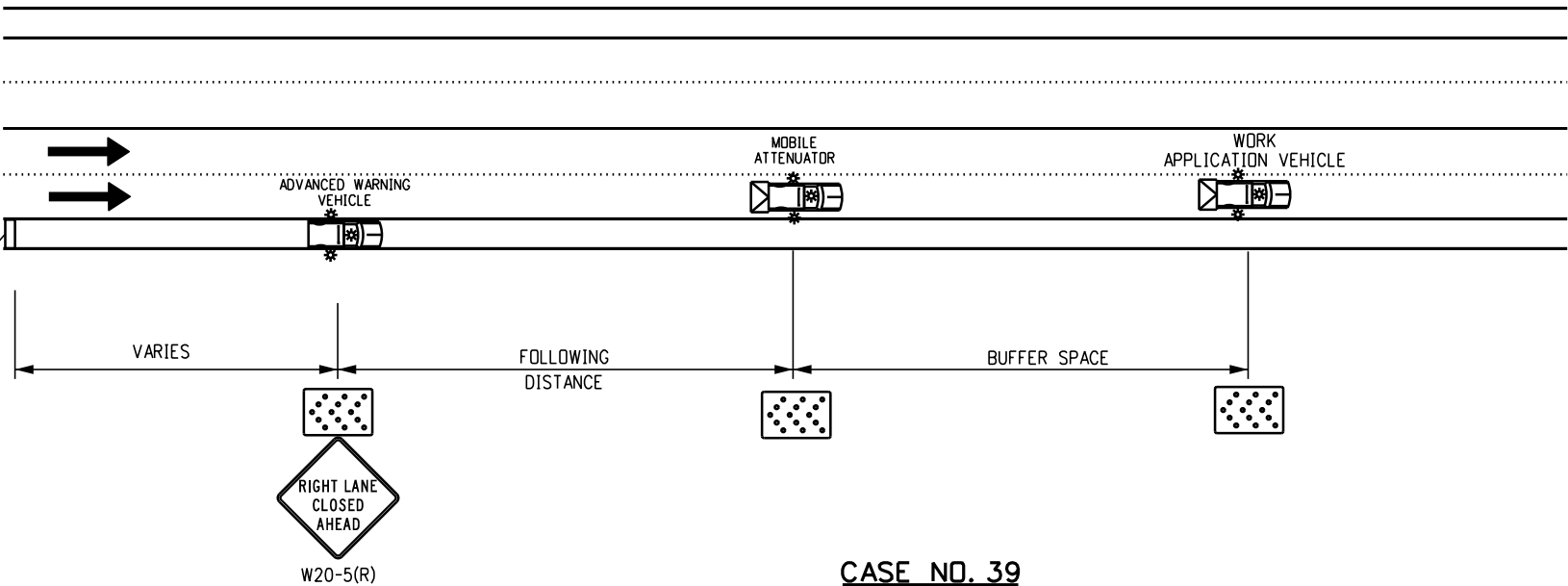
1. IN ROADWAY WHERE THE AADT IS 2,000 OR LESS, A SINGLE WORK VEHICLE WITH APPROPRIATE WARNING DEVICES ON THE VEHICLE MAY BE USED.
2. RADIO COMMUNICATIONS BETWEEN THE WORKCREW AND THE MOVING BLOCKADE ARE REQUIRED TO ADJUST THE BLOCKADE TO INCREASE OR DECREASE THE CLOSURE TIME. RELEASE TRAFFIC ONLY AFTER CONFIRMATION THAT ALL WORKERS AND THEIR VEHICLES ARE CLEAR OF THE ROADWAY.
3. IF APPLICABLE, ALL RAMPS AND ACCESS BETWEEN THE MOVING BLOCKADE AND WORK OPERATION AREA SHALL BE TEMPORARILY CLOSED USING TRAFFIC CONTROL EQUIPMENT AND PERSONNEL. EACH RAMP MUST REMAIN CLOSED UNTIL THE CREW DOING THE WORK GIVES THE "ALL CLEAR" SIGNAL OR UNTIL THE FRONT OF THE MOVING BLOCKADE PASSES THE CLOSED RAMP(S).

FOLLOWING DISTANCE CHART FOR WARNING VEHICLE AND SIGNING VEHICLES

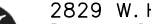
POSTED WZ SPEED LIMIT (MPH)	FOLLOWING DISTANCE (FEET)	BUFFER SPACE (FEET)
0 - 30	250 - 550	100 - 120
35 - 40	325 - 700	100 - 120
45 - 50	600 - 900	120 - 140
55	750 - 1200	120 - 140
60	1000 - 1400	180 - 200

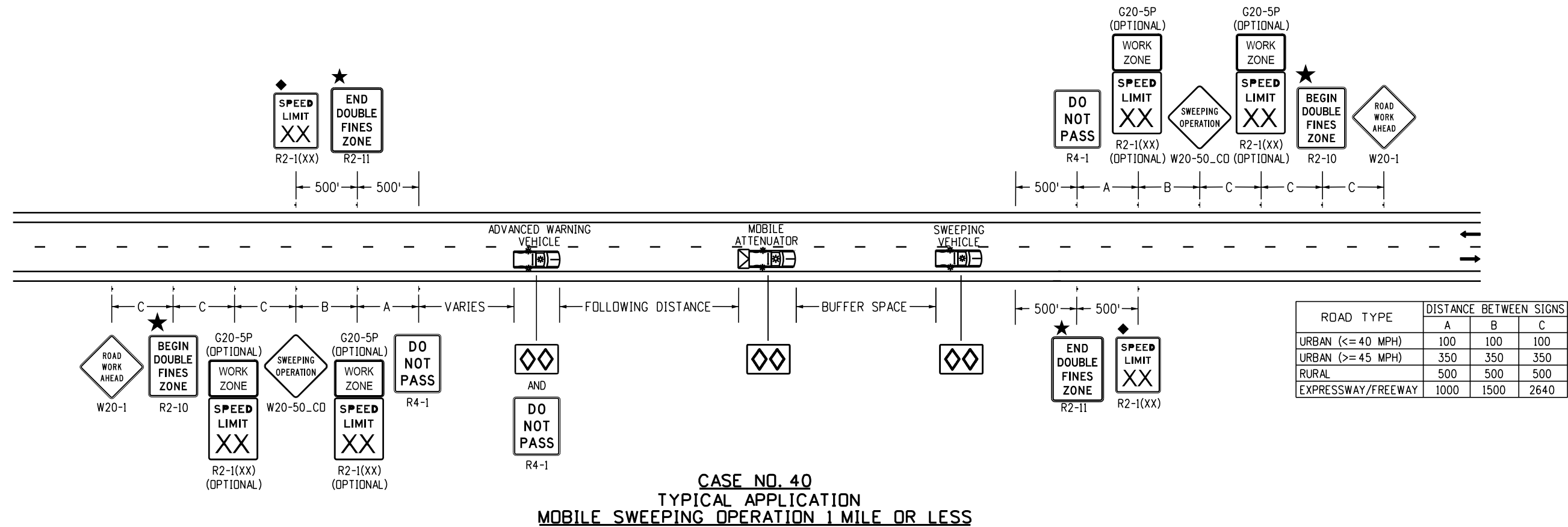


CASE NO. 38
TYPICAL APPLICATION
MOBILE STRIPING OPERATION OF LANE CLOSURE OF MULTI-LANE HIGHWAY
(NOT FOR USE ON FREEWAYS)



CASE NO. 39
TYPICAL APPLICATION
MOBILE OPERATION OF LANE CLOSURE OF MULTI-LANE HIGHWAY

Computer File Information		R=1 R=1	Sheet Revisions		Colorado Department of Transportation  2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	STANDARD PLAN NO.		
Creation Date: 07/04/12	Date:		Comments	S-630-1					
Created By: Nakao	01/14/26		REVISED G20-5(R)	Standard Sheet No. 23 of 26					
Last Modification Date: 01/14/26	01/20/23		UPDATED LEGEND						
Last Modified By: NRIVERA			UPDATED FOLLOWING DISTANCE CHART						
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							Issued By: Traffic Safety & Engineering Branch July 31, 2019	Project Sheet Number:	



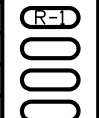
FOLLOWING DISTANCE CHART FOR WARNING AND MOBILE ATTENUATOR (OR SWEEPING) VEHICLE

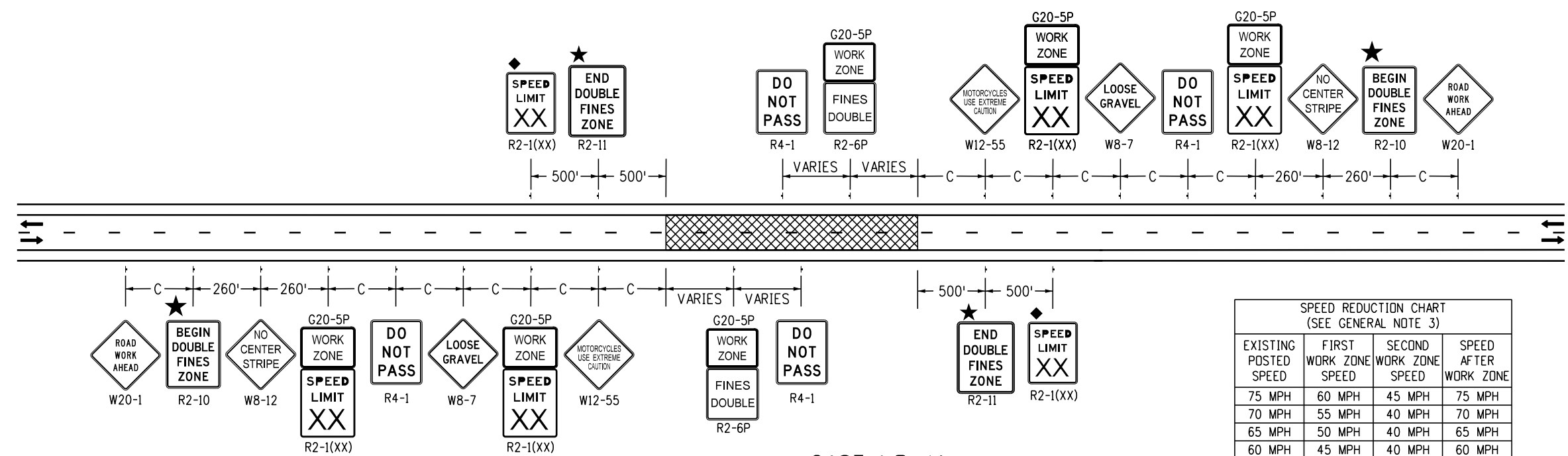
POSTED WZ SPEED LIMIT (MPH)	FOLLOWING DISTANCE (FEET)	BUFFER SPACE (FEET)
0 - 30	250 - 550	100 - 120
35 - 40	325 - 700	100 - 120
45 - 50	600 - 900	120 - 140
55	750 - 1200	120 - 140
60	1000 - 1400	180 - 200

SPEED REDUCTION CHART (SEE GENERAL NOTE 3)			
EXISTING POSTED SPEED	FIRST WORK ZONE SPEED	SECOND WORK ZONE SPEED	SPEED AFTER WORK ZONE
75 MPH	60 MPH	45 MPH	75 MPH
70 MPH	55 MPH	40 MPH	70 MPH
65 MPH	50 MPH	40 MPH	65 MPH
60 MPH	45 MPH	40 MPH	60 MPH
55 MPH	40 MPH	N/A	55 MPH
50 MPH	40 MPH	N/A	50 MPH
45 MPH	40 MPH	N/A	45 MPH

LEGEND

-  MOBILE ATTENUATOR VEHICLE, TWO 360-DEGREE YELLOW FLASHING BEACONS, AND YELLOW FLASHING VEHICLE LIGHTS OR STROBES.
-  ARROW BOARD
-  THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.
-  SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

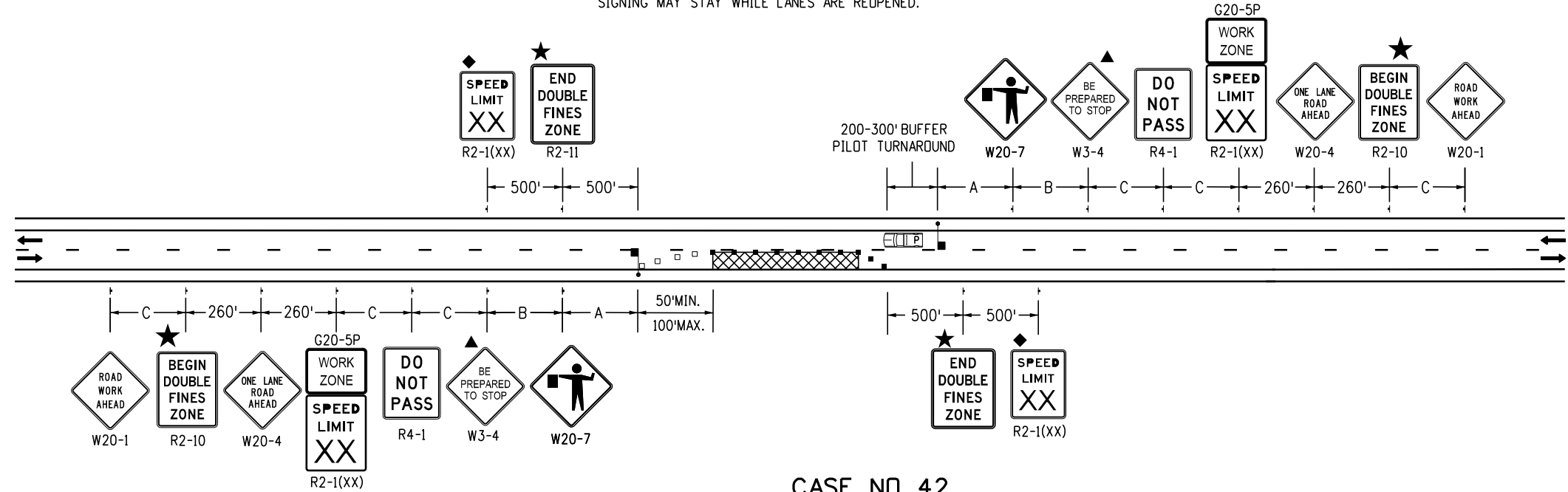
Computer File Information		Sheet Revisions		 Colorado Department of Transportation 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	STANDARD PLAN NO.	
Creation Date: 01/20/23		Date:	Comments			S-630-1	
Created By: AVU		04/30/24	REMOVED G20-11 AND G20-10			Standard Sheet No. 24 of 26	
Last Modification Date: 04/30/24						Project Sheet Number:	
Last Modified By: NRIVERA					Issued By: Traffic Safety & Engineering Branch July 31, 2019		
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English							



CASE NO. 41
TYPICAL APPLICATION
CHIP SEALS - 2-LANE UNDIVIDED HIGHWAY

NOTE: FOLLOW APPLICABLE STANDARDS AS SHOWN IN CASE NO. 17 ON SHEET 9, CASE NO. 19 ON SHEET 10, AND CHAPTER 6H OF THE 2009 MUTCD FOR LANE CLOSURE IN WORK AREA.
SIGNING MAY STAY WHILE LANES ARE REOPENED.

SPEED REDUCTION CHART (SEE GENERAL NOTE 3)			
EXISTING POSTED SPEED	FIRST WORK ZONE SPEED	SECOND WORK ZONE SPEED	SPEED AFTER WORK ZONE
75 MPH	60 MPH	45 MPH	75 MPH
70 MPH	55 MPH	40 MPH	70 MPH
65 MPH	50 MPH	40 MPH	65 MPH
60 MPH	45 MPH	40 MPH	60 MPH
55 MPH	40 MPH	N/A	55 MPH
50 MPH	40 MPH	N/A	50 MPH
45 MPH	40 MPH	N/A	45 MPH



CASE NO. 42
TYPICAL APPLICATION
PILOT CAR - LANE CLOSURE, 2-LANE UNDIVIDED HIGHWAY

NOTES

1. ALL NIGHT HAZARDS WILL BE MARKED AND DELINEATED.
2. ALL SPEED LIMIT SIGNS CONFLICTING WITH WORK ZONE SPEED SHALL BE COVERED DURING SPEED REDUCTION.

LEGEND

- CHANNELIZING DEVICE: FOR TYPE OF DEVICE TO BE USED, SEE SCHEDULE OF TRAFFIC CONTROL DEVICES INCLUDED IN THE PLANS.
- DRUMS OR VERTICAL PANELS SHALL BE USED TO DELINEATE MERGING TAPERS, SHIFTING TAPERS, AND ONE LANE, TWO-WAY TRAFFIC TAPERS.



FLAGGER STATION



DIRECTION OF TRAVEL



WORK AREA



TRANSITION TAPER LENGTH:

L = MINIMUM LENGTH OF TAPER
SPEED 45 MPH OR MORE: $L = S \times W$
SPEED 40 MPH OR LESS: $L = \frac{WS^2}{60}$
S = NUMERICAL VALUE OF SPEED LIMIT OR 85 PERCENTILE SPEED
W = WIDTH OF OFFSET
SHOULDER TAPER = 1/3 L



THESE DEVICES ARE OPTIONAL. THEIR NEED SHALL BE DETERMINED BY DETOUR DESIGN AND/OR SCOPE OF CONSTRUCTION ACTIVITY, AND ARE REQUIRED WHEN THEY ARE INCLUDED IN THE SCHEDULE OF CONSTRUCTION CONTROL DEVICES.



THESE DEVICES ARE NOT OPTIONAL IF THE POSTED SPEED LIMIT IN THE WORK ZONE IS REDUCED.

VARIES

BUFFER SPACE (SEE GENERAL NOTE 23 ON SHEET 2).



PILOT CAR



SEE FINES DOUBLE SIGNING NOTES ON SHEET 12.

KEY TO ADVANCE SIGNING DISTANCES

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (<= 40 MPH)	100	100	100
URBAN (>= 45 MPH)	350	350	350
RURAL	500	500	500
EXPRESSWAY/FREEWAY	1000	1500	2640

Computer File Information		Sheet Revisions		Colorado Department of Transportation 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION	STANDARD PLAN NO.	
Creation Date: 06/03/21		Date:	Comments			S-630-1	
Created By: AVU		01/14/26	REMOVED G20-10/11			Standard Sheet No. 25 of 26	
Last Modification Date: 01/14/26		07/20/23	ADDED G20-5P SIGN TO SHEET			Project Sheet Number:	
Last Modified By: NRIVERA			UPDATED NOTE UNDER CASE NO.41				
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English			UPDATED SIGN SPACINGS				
			UPDATED FLAGGER TAPER LENGTH				

THESE SIGNING NOTES ARE INTENDED AS A QUICK REFERENCE
FOR TYPICAL SIGN USE AND PLACEMENT IN CONSTRUCTION ZONES.

POSTED OR 85TH PERCENTILE SPEED	ADVANCE PLACEMENT DISTANCE (FEET)								
	+ CONDITION A	++ CONDITION B: DECELERATION TO THE LISTED ADVISORY SPEED (MPH) FOR THE CONDITION							
		MPH							
		0	10	20	30	40	50	60	70
20	225	115	●	--	--	--	--	--	--
25	325	155	●	●	--	--	--	--	--
30	460	200	●	●	--	--	--	--	--
35	565	250	●	●	●	--	--	--	--
40	670	305	100*	100*	●	--	--	--	--
45	775	360	125	100*	100*	●	--	--	--
50	885	425	200	175	125	100*	--	--	--
55	990	495	275	225	200	125	●	--	--
60	1100	570	350	325	275	200	100*	--	--
65	1200	645	450	400	350	275	200	100*	--
70	1250	730	525	500	450	375	275	200	--
75	1350	820	625	600	550	475	375	300	150

* PLACEMENT SHOULD BE IN ACCORDANCE WITH WARNING SIGN PLACEMENT TABLE.

Computer File Information		R-2 R-1	Sheet Revisions		Colorado Department of Transportation 2829 W. Howard Pl. Denver, CO 80204 Phone: 303-757-9654 FAX: 303-757-9219 Traffic Safety & Engineering EB	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION		STANDARD PLAN NO.	
Creation Date: 07/04/12			Date:	Comments		S-630-1			
Created By: Nakao			01/14/26	UPDATED ADVANCE PLACEMENT		Standard Sheet No. 26 of 26			
Last Modification Date: 01/14/26			01/20/23	Replaced R52-6a(b) with R2-10(I1) Updated W3-4 and R11-3		Issued By: Traffic Safety & Engineering Branch July 31, 2019			
Last Modified By: NRIVERA						Project Sheet Number:			
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English									