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Section C: Traffic Control

INDEX OF SECTIONS

General Layout W/Index Estimate W/General Notes Traffic Control Layouts Sign Table Standard Plates C1: C2: C3 to C5: C6: C7 to C11:





SECTION C	FSTIMATE	OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
634E0010	Flagging	50.0	Hour
634E0110	Traffic Control Signs	1,075.2	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
634E0275	Type 3 Barricade	6	Each
634E0330	Temporary Raised Pavement Markers	9,240	Ft
634E0420	Type C Advance Warning Arrow Board	2	Each

SEQUENCE OF OPERATIONS

The Contractor will submit a sequence of operations for approval two weeks prior to the preconstruction meeting. If changes to the sequence of operations are proposed during the project, these must be submitted for review a minimum of one week prior to potential implementation. Approval for changes to the sequence of operations will only be allowed when the proposed changes meet with the Department's intent for traffic control and sequencing of the work.

GENERAL TRAFFIC CONTROL

Existing guide, route, informational logo, regulatory, and warning signs will be temporarily reset and maintained during construction. Removing, relocating, covering, salvaging, and resetting of existing traffic control devices, including delineation, will be the responsibility of the Contractor. Cost for this work will be incidental to the contract unit prices for the various items unless otherwise specified in the plans. Any delineators and signs damaged or lost will be replaced by the Contractor at no cost to the State.

All temporary traffic control sign locations will be set in the field by the Contractor and verified by the Engineer prior to installation.

Portable sign supports will not be located on sidewalks, bicycle facilities, or other areas designated for pedestrian or bicycle traffic.

All construction operations will be conducted in the general direction of traffic movement.

If there is a discrepancy between the traffic control plans, standard plates, and the MUTCD, whichever is more stringent will be used, as determined by the Engineer.

Fixed location signing placed more than 4 calendar days prior to the start of construction will be covered or laid down until the time of construction. The covers must be approved by the Engineer prior to installation. The cost of materials, labor, and equipment necessary to complete this work will be incidental to other contract items. No separate payment will be made.

All fixed location signs, sign posts, and breakaway bases will be removed within 7 calendar days following pavement marking.

All haul trucks will be equipped with an additional flashing amber light that is visible from the backside of the haul truck. The costs for the flashing amber lights will be incidental to the various related contract items.

The Contractor will notify businesses/homeowners a minimum of two weeks prior to construction to inform them of upcoming construction and again a minimum of 48 hours prior to any blocked access to make appropriate arrangements.

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TRAFFIC CONTROL SIGNS

Sufficient traffic control devices have been included in these plans to sign two lane closures to complete work at four intersection corners. If the Contractor elects to work on additional locations simultaneously, the cost for additional traffic control devices will be incidental to the contract unit price per square foot for "Traffic Control Signs".

Traffic control devices have been included in these plans to sign one additional left turn lane closure at the intersection of Broadway Ave. and 4th St. The Contractor will not be allowed to simultaneously work on the left turn lane and close the adjacent shoulders at the intersection of Broadway Ave. and 4th St.

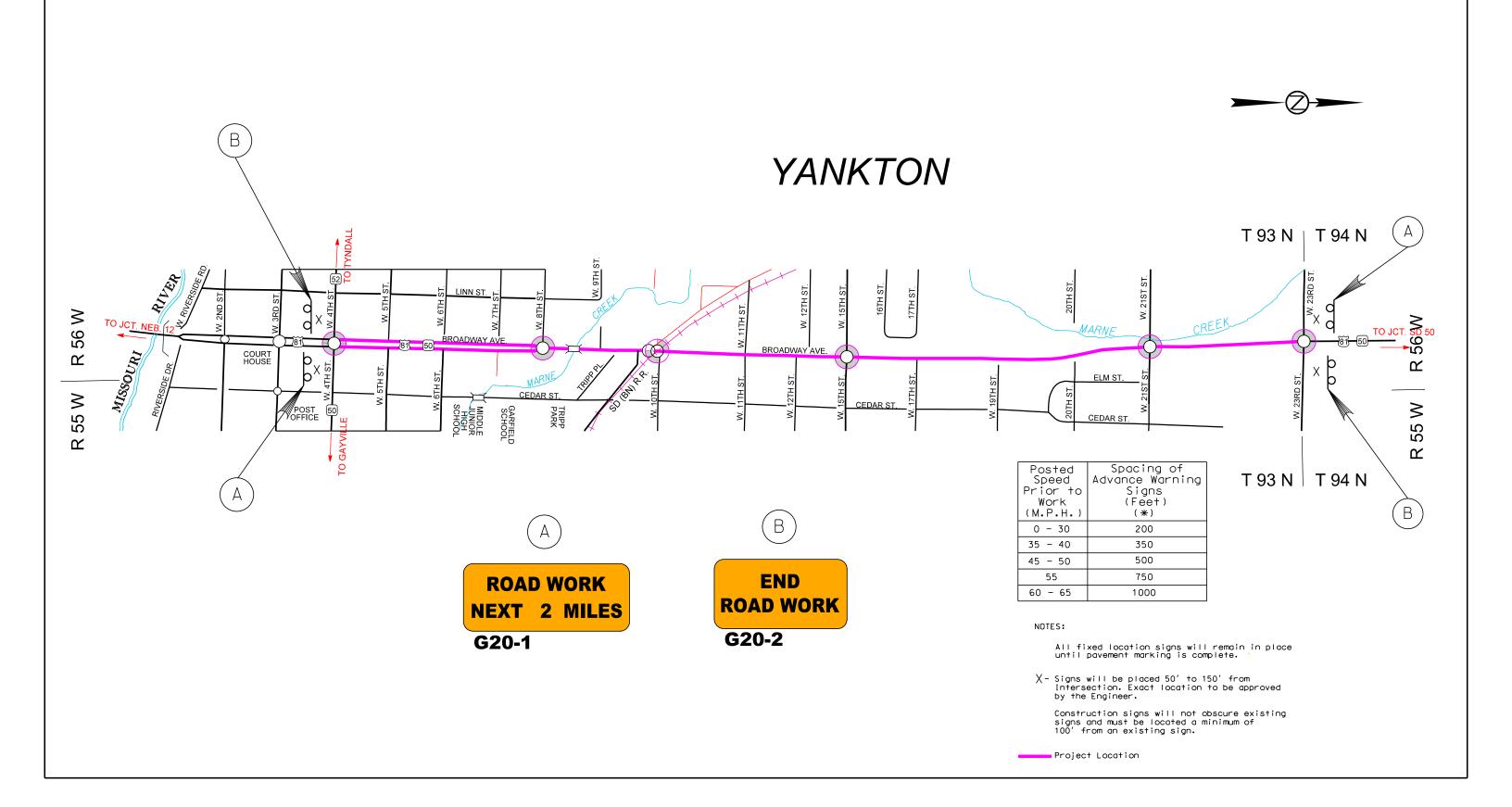
TEMPORARY RAISED PAVEMENT MARKERS

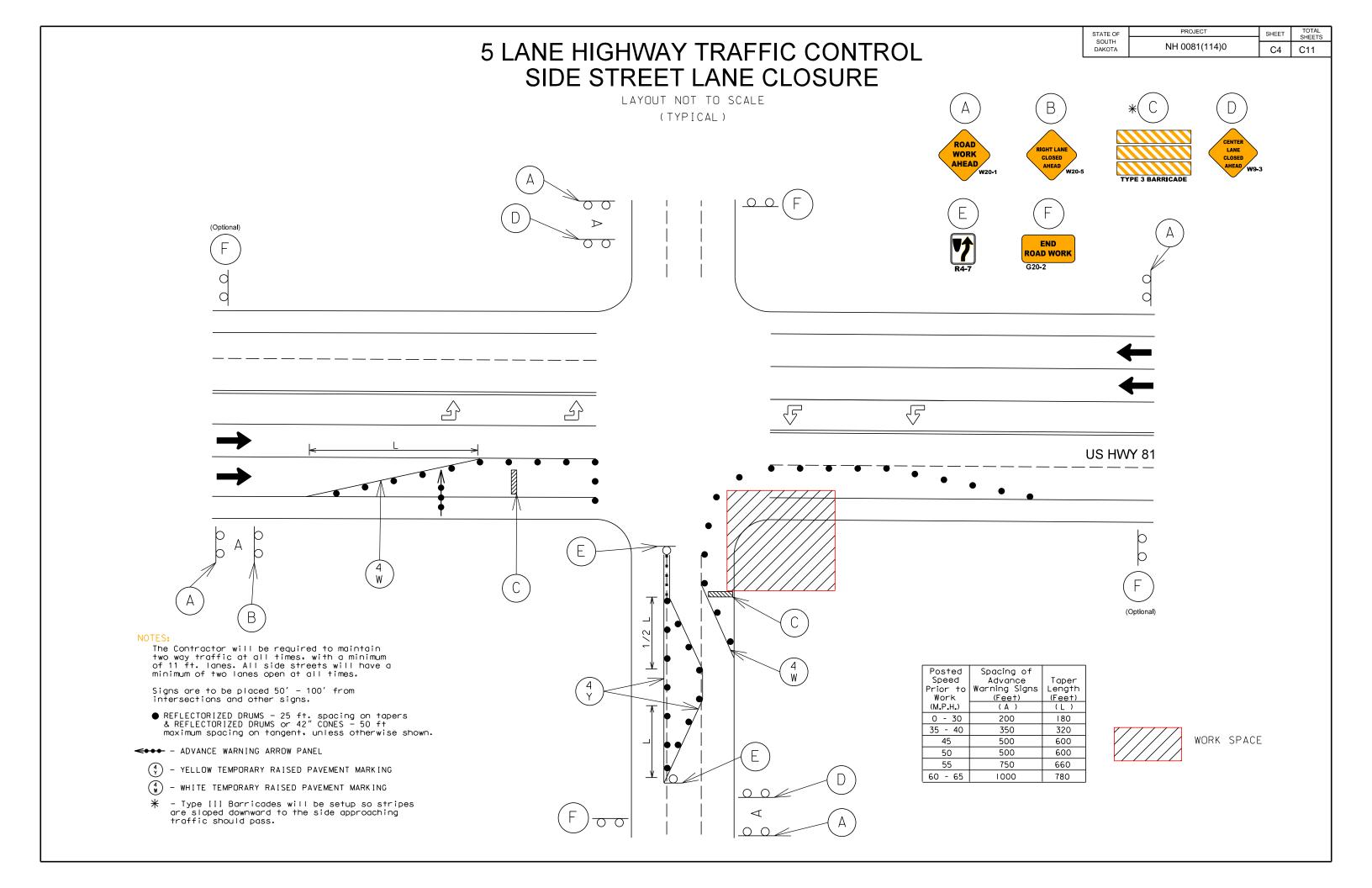
Temporary raised pavement markers will be used for marking edge lines, lane lines, and centerlines. Temporary raised pavement markers will be used on all new permanent surfacing sections of roadway and on existing surfacing where temporary marking locations are different than existing marking locations, unless noted or as directed by the Engineer.

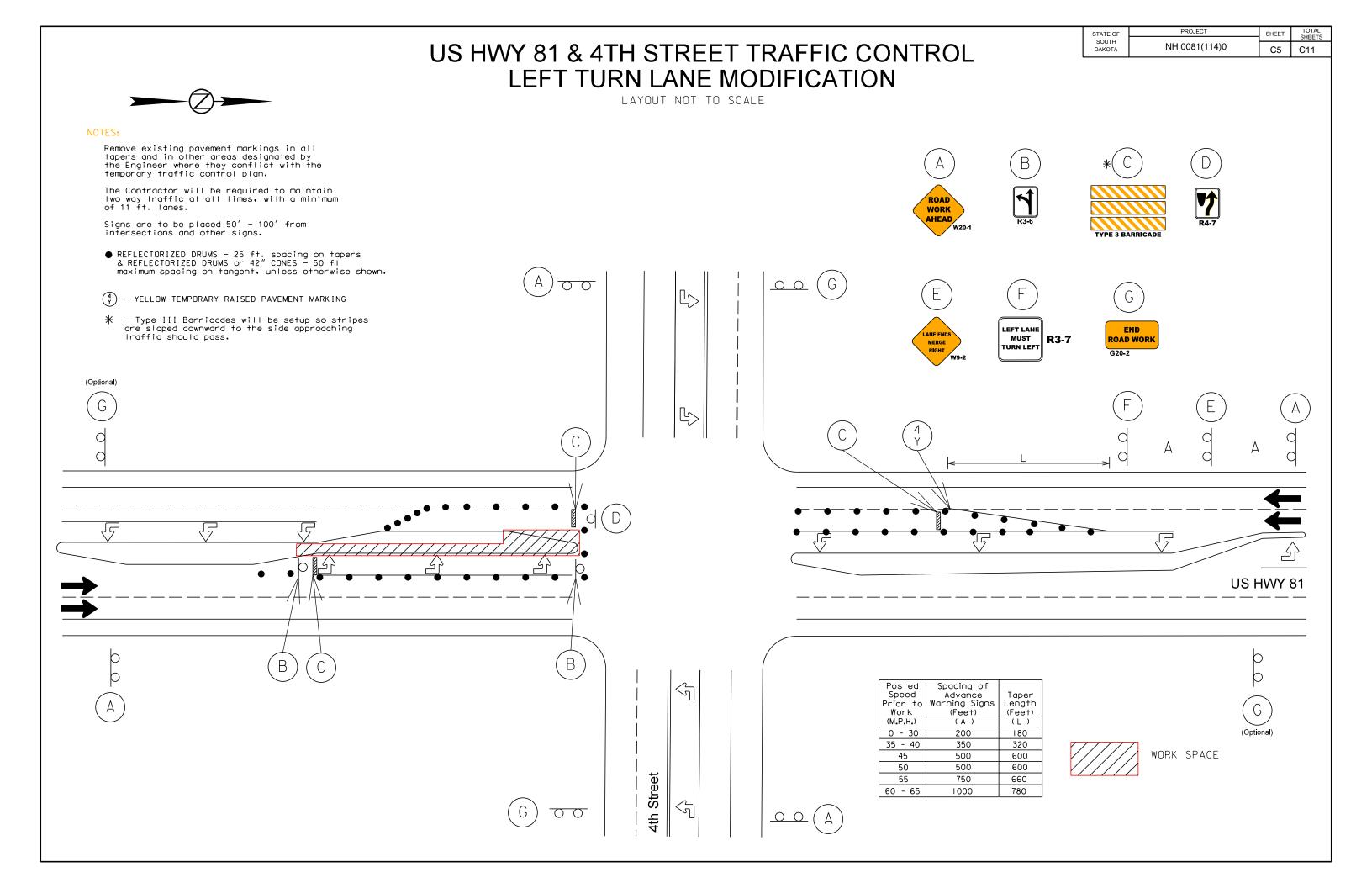
Temporary raised pavement markers will be attached to the roadway surface with a flexible non-permanent bituminous adhesive capable of being removed from the roadway surface or with an adhesive approved by the Engineer.

All costs to furnish, install, replace if necessary, and remove the markers will be incidental to the contract unit price per foot for "Temporary Raised Pavement Markers".

FIXED LOCATION SIGNS GROUND MOUNTED, BREAKAWAY SUPPORTS







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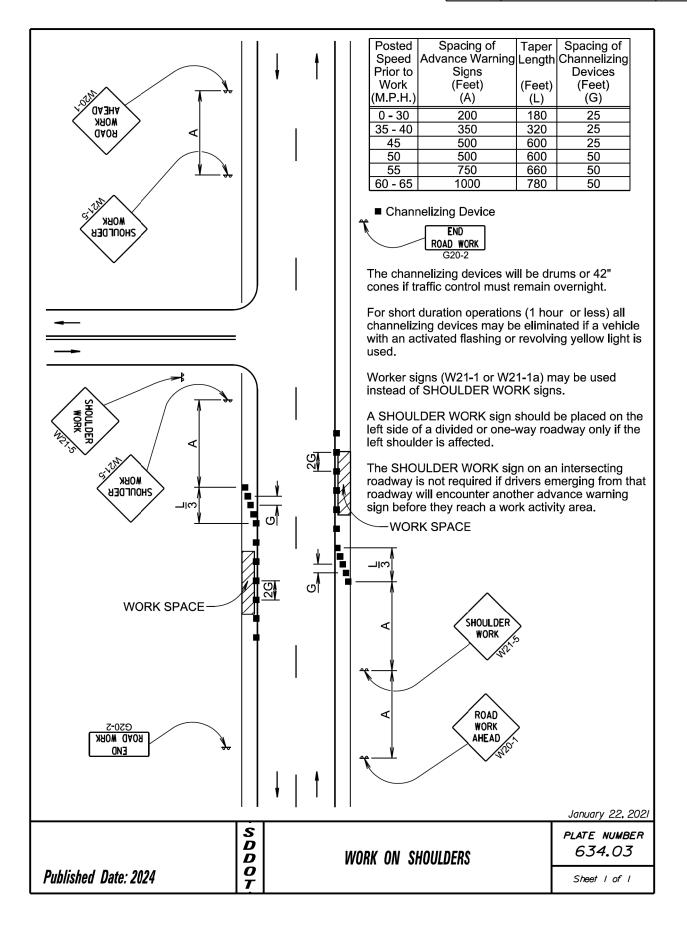
ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

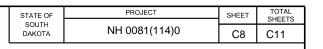
_		CONVENTIONAL ROAD				
SIGN CODE	SIGN DESCRIPTION	NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT	
R1-1	STOP	1	30"	5.2	5.2	
R3-2	LEFT TURN PROHIBITION (symbol)	2	24" x 24"	4.0	8.0	
R3-6	STRAIGHT AND LEFT	2	24" x 30"	5.0	10.0	
R3-7R	RIGHT LANE MUST TURN RIGHT	2	30" x 30"	6.3	12.6	
R3-7L	LEFT LANE MUST TURN LEFT	2	30" x 30"	6.3	12.6	
R4-7	KEEP RIGHT (symbol)	5	24" x 30"	5.0	25.0	
R9-8	PEDESTRIAN CROSSWALK	4	36" x 18"	4.5	18.0	
R9-9	SIDEWALK CLOSED	2	24" x 12"	2.0	4.0	
R9-10	SIDEWALK CLOSED (ARROW L or R) USE OTHER SIDE	4	24" x 12"	2.0	8.0	
R9-11	SIDEWALK CLOSED AHEAD (ARROW L or R) CROSS HERE	2	24" x 18"	3.0	6.0	
R9-11a	SIDEWALK CLOSED (ARROW L or R) CROSS HERE	2	24" x 12"	2.0	4.0	
W1-4	REVERSE CURVE (L or R)	4	48" x 48"	16.0	64.0	
W4-2	LEFT or RIGHT LANE ENDS (symbol)	4	48" x 48"	16.0	64.0	
W9-2	LANE ENDS MERGE LEFT or RIGHT	2	48" x 48"	16.0	32.0	
W9-3	CENTER LANE CLOSED AHEAD	4	48" x 48"	16.0	64.0	
W11-2	PEDESTRIAN (symbol)	8	36" x 36"	9.0	72.0	
W13-1P	ADVISORY SPEED (plaque)	2	30" x 30"	6.3	12.6	
	DOWNWARD DIAGONAL ARROW (plaque)	4	24" x 12"	2.0	8.0	
W16-9P	AHEAD (plaque)	4	30" x 18"	3.8	15.2	
W20-1	ROAD WORK AHEAD	12	48" x 48"	16.0	192.0	
W20-5	LEFT or RIGHT LANE CLOSED AHEAD	4	48" x 48"	16.0	64.0	
W20-7	FLAGGER (symbol)	12	48" x 48"	16.0	192.0	
W21-5	SHOULDER WORK	8	48" x 48"	16.0	128.0	
G20-1	ROAD WORK NEXT XX MILES	2	36" x 18"	4.5	9.0	
G20-2	END ROAD WORK	10	36" x 18"	4.5	45.0	
	CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT 1075					

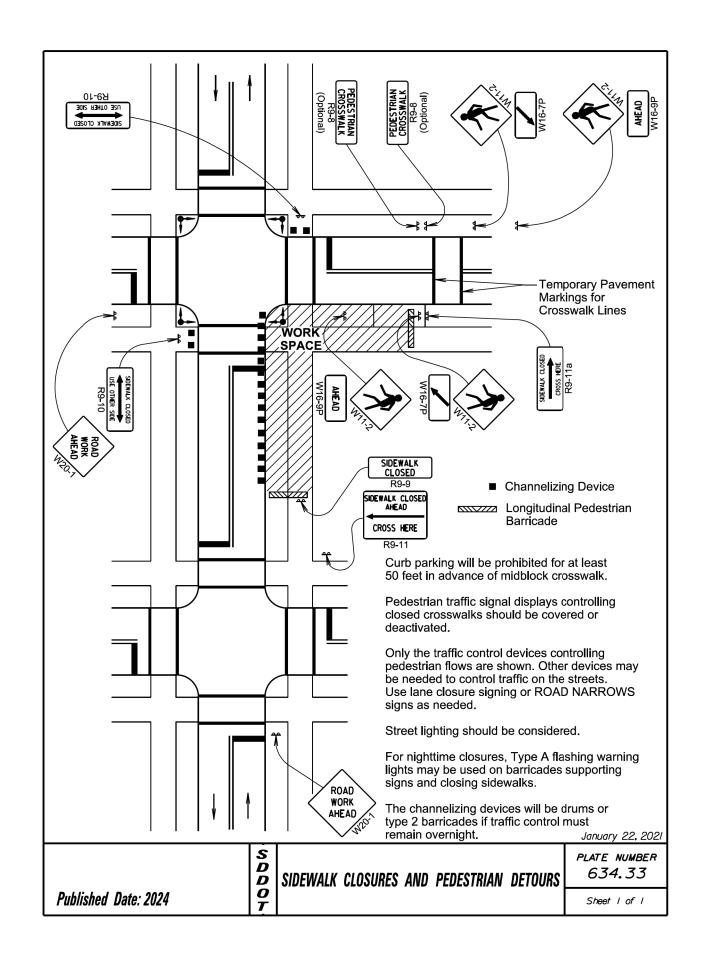
The signs illustrated are not required if the work space is behind a barrier, more than 2 feet behind the curb, or feet or more from the edge of any roadway. The signs illustrated will be used whe there are distracting situations; such vehicles parked on shoulder, vehicles accessing the work site via the highwand equipment traveling on or crossing the roadway to perform work operation.	ere as: s yay,		Speed Prior to Si Work (M.P.H.) (Fig. 12) (Fig	cing of e Warning igns eet) (A) 200 350 500 750
The ROAD WORK AHEAD sign may with other appropriate signs, such as the SHOULDER WORK sign. The S WORK sign may be used for work ad the shoulder. * If the work space is on a divided highway, an advance warning sign should also be placed on the left sign of the directional roadway.	HOULDER ljacent to		WORK SPACE	
For short term, short duration, or mot operations, all signs and channelizing devices may be eliminated if a vehicle an activated flashing or revolving yell light is used.) e with			-
			∢	
		*	ROAD WORK AHEAD	-
	s			January 22, 2021 PLATE NUMBER
Published Date: 2024	D D O T	WORK BEYOND 1	THE SHOULDER	634.01

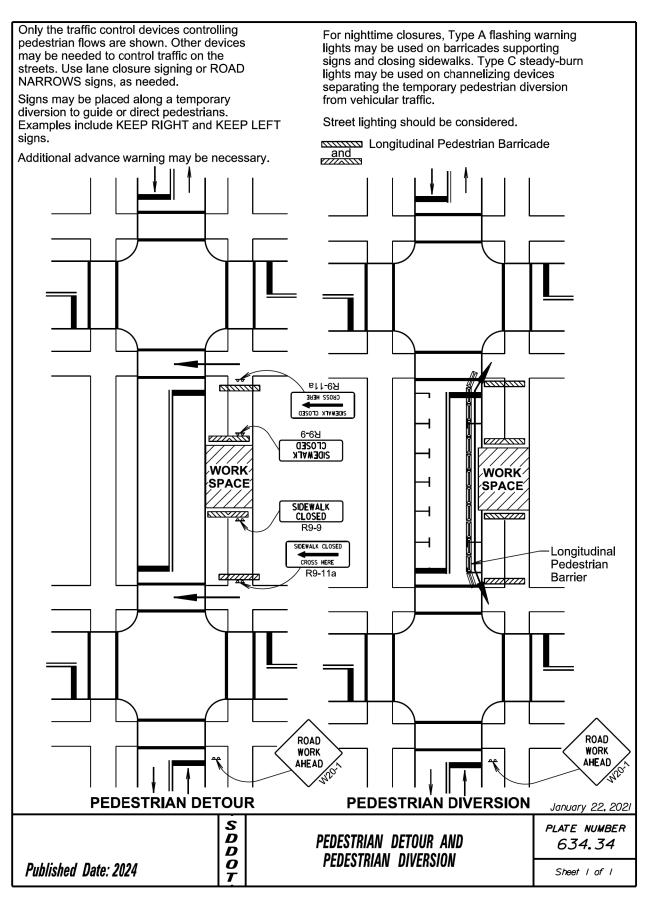
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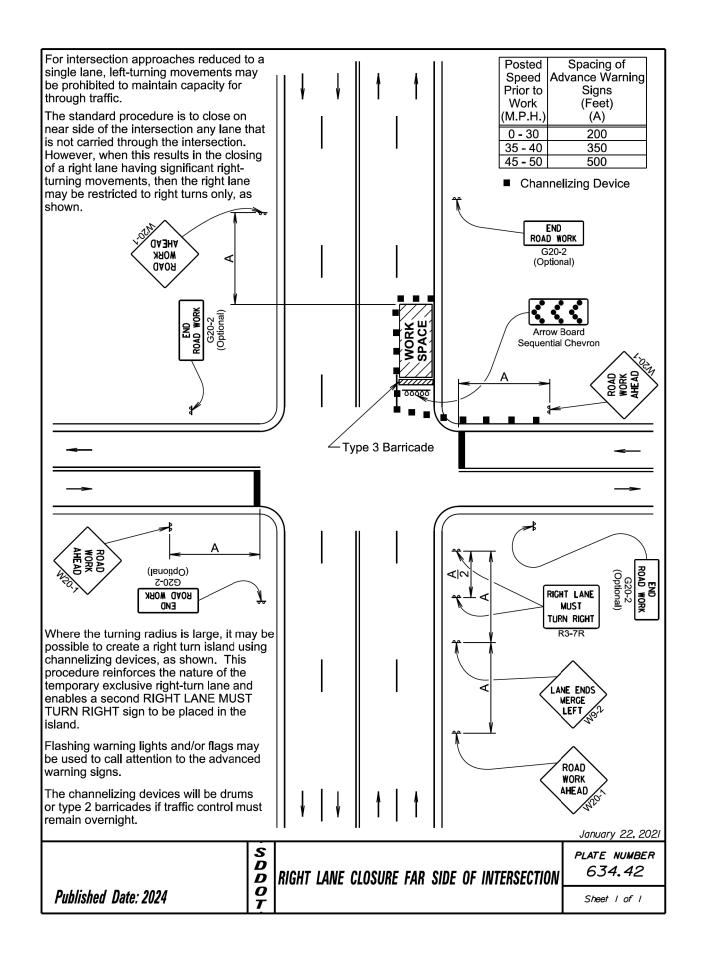


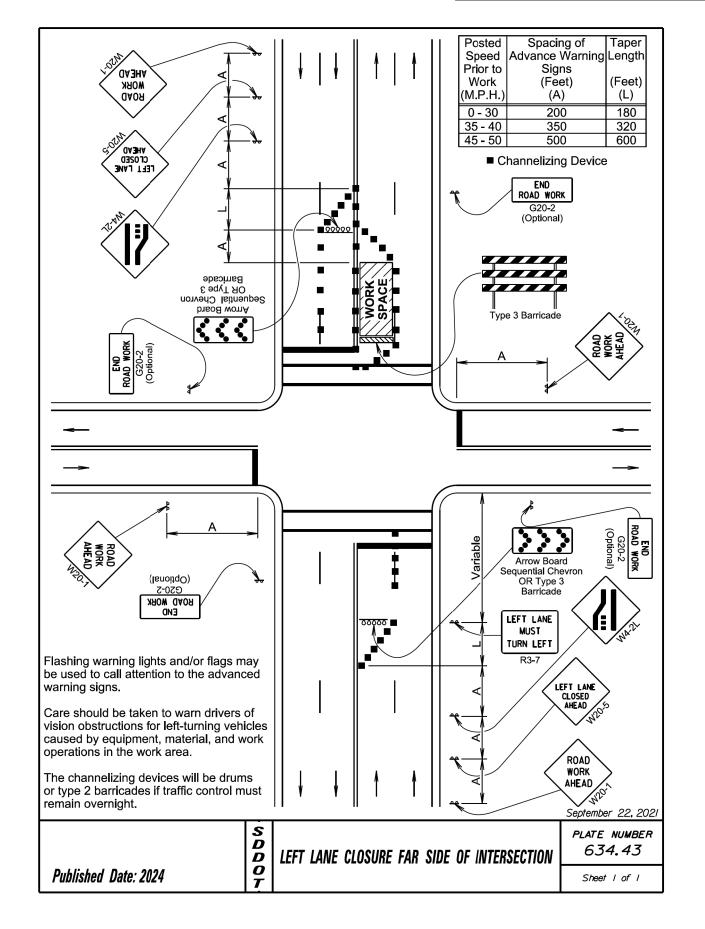


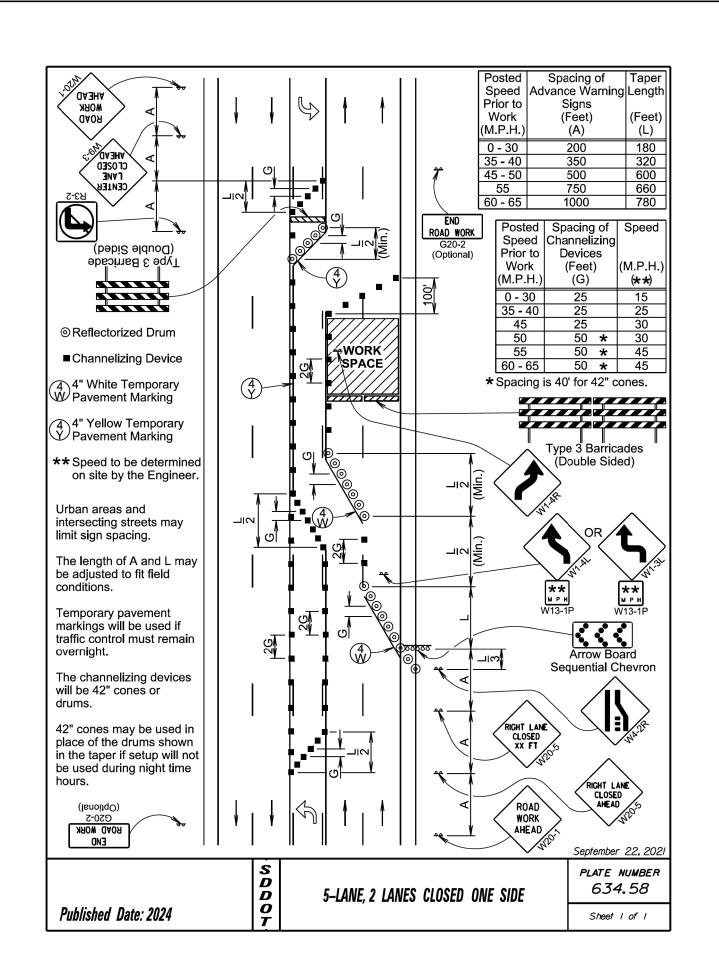




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^4.						Posted	Spacing of	Taper	Spacing of
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dvod	1	7	19		ı	(M.P.H.)	(A)	(L)	(G)
\vee			"			0 - 30	200	180	25
Reflectorized Drum						35 - 40	350	320	25
						45	500	600	25
Channelizing Device						50	500	600	50 *
A		ı			ı	55	750	660	50 *
(4) 4" White Temporary						60 - 65	1000	780	50 *
Pavement Marking				ا ا	_		★ Spacing is [∠]	10' for 4	2" cones.
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intersecting streets may				0	■	———?? <u>r</u>	ROAD		0×9
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be adjusted to fit field									
conditions.					TV///		*		~
Conditions.									
Temporary pavement					4'	\ INIT		_	~~\^\\.
markings will be used if					' -	← INI	ERSECTING ROAL	<i>/</i>	F /4
traffic control must remain									STOP
overnight.						$\overline{}$			<u> </u>
The channelizing devices					Į Į į į				
will be 42" cones or				(2)	₽\≥∖છ∖				
drums.				<u>₹</u>					
		•	י יו		- /		Type 3 Ba	arricado	
42" cones may be used in					⊚_— <u>`</u>		(Double		
place of the drums shown				l√	(<u>O</u>		(Bodbie	OldCa)	
in the taper if setup will not								•	
be used during night time				၂ တ	6	_	」	. %	
hours.					\ <u>\</u> @	00000	Arrow	Board	
Additional channelizing				(4)		0000	Sequentia		on
devices at 4' spacing may		ı	lı ı		1 8		<u> </u>		
be needed to control traffic]		^		
entering and leaving						φ —			
intersections.							_		
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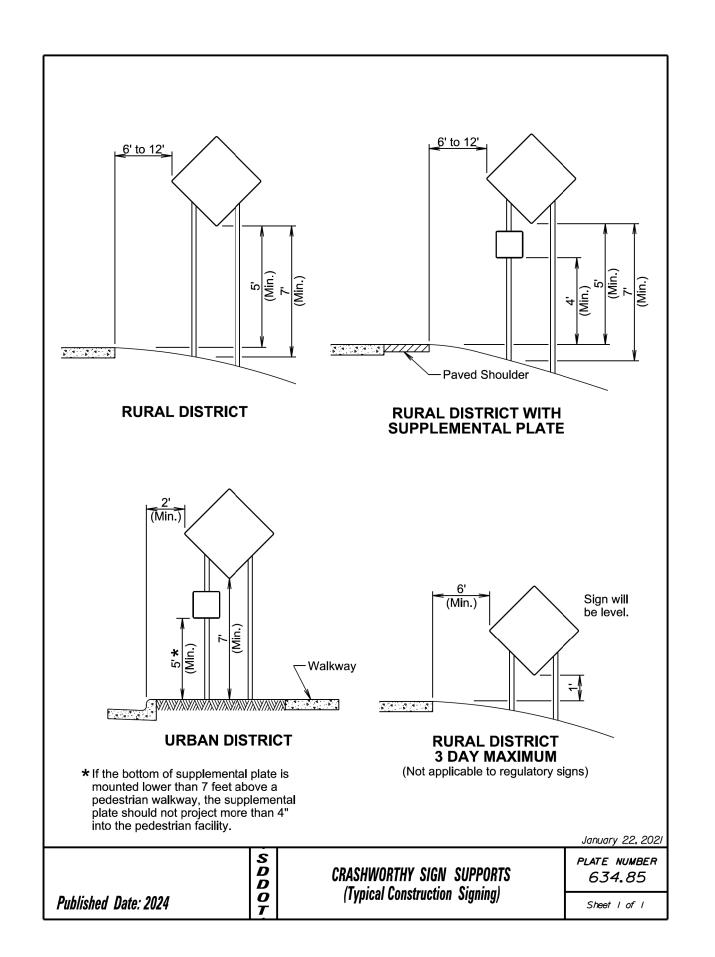
TOTAL SHEETS

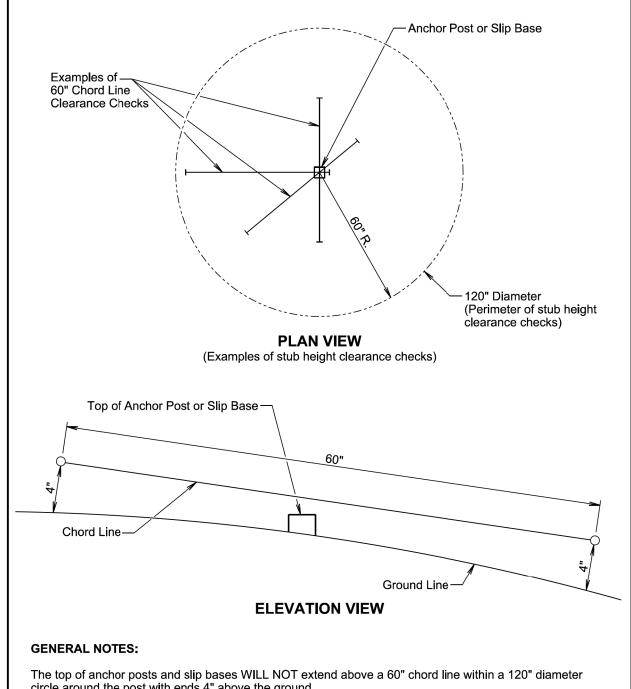
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١	SOUTH	NUL 0004 (4.4.4) 0		SHEETS	
١	DAKOTA	NH 0081(114)0	C11	C11	





circle around the post with ends 4" above the ground.

At locations where there is curb and gutter adjacent to the breakaway sign support, the stub height will be a maximum of 4" above the ground line at the localized area adjacent to the breakaway support stub.

The 4" stub height clearance is not necessary for U-channel lap splices where the support is designed to yield (bend) at the base.

January 22, 2021

S D D O BREAKAWAY SUPPORT STUB CLEARANCE Published Date: 2024

PLATE NUMBER 634.99

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