616.8.33 (TA-33) Lane Closure on Left or Right Lane on Divided Highway- MT

SPEED	SIGN SPACING (ft.)		TAPER LENGTH (ft.)		OPTIONAL	CHANNELIZER SPACING (ft.)			
	Undivided (S)	Divided (S)	Shoulder ¹ (T1)	Lane ² (T2)	BUFFER LENGTH (ft.) (B)	Tapers	Buffer/ Work Areas		
0-35	-	200	70	245	250	35	50		
40	-	500	90	320	305	40	100		
45	-	500	150	540	360	45	100		
50-55	-	1000	185	660	495	50	100		
60-70	SA – 1000, SB – 1500, and SC - 2640		235	840	730	60	100		
1 Shoulder taper length based on 10 ft. (standard shoulder width) offset 2 Lane taper length based on 12 ft. (standard lane width) offset									

ROADWAY TYPE	SIGN HEIGHT	MAXIMUM WORK ZONE LENGTH (L)		Channelizer Truck or Trailer	Truck Mounted Attenuator (TMA)
URBAN	1' Portable 7' Post	1 Mi.		Mounted Arrow Panel	Protective Vehicle
RURAL DIVIDED	1' Portable 7' Post	2 Mi.		Sign	Work Space

A protective vehicle **shall** be used while work is in progress. The protective vehicle **shall** be equipped with a TMA and flashing arrow panel and positioned at least 150 ft. in advance of the work space. The protective vehicle **may** be eliminated if the roadway is posted at 45 mph or below, the work vehicle is positioned in advance of the work space, and the work vehicle is equipped with a flashing arrow panel and uses activated rotating lights or strobe lights.

All vehicles, equipment, workers and their activities **should** be restricted to one side of the pavement.

The open lane **shall** be provided with a 10 ft. minimum driving surface at all times. This **may** include a portion of the shoulder, provided the shoulder is of adequate strength to handle traffic.

RIGHT

LANE CLOSED

RIGHT

LANE

AHEAD

ROAD

WORK

AHEAD

For short duration operations, signs and channelizers **may** be reduced or eliminated.

For mobile operations where workers are on foot and move with the operation, channelizers **may** be reduced or eliminated.

For operations in which channelizers are not used, the arrow mode **shall** be displayed on any flashing arrow panel located downstream of the taper.

Supplemental warning methods **may** be used to call attention to the work zone.

Additional warning signs shall be erected at each intersection with another state highway within the work zone. Upon the discretion of the supervisor, additional warning signs may be erected at other intersections within the work zone.

Protective Vehicle Roll-Ahead Space T2 S or SA S or SA **RIGHT MERGE** LANE CLOSED S or SB S or SB **RIGHT CLOSED** S or SC S or SC **ROAD** WORK **AHEAD** (Advanced Warning Rail System) For Long Term Operations

For long-term operations, EPG 616.6.2.2 Flags and Advance Warning Rail System.

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