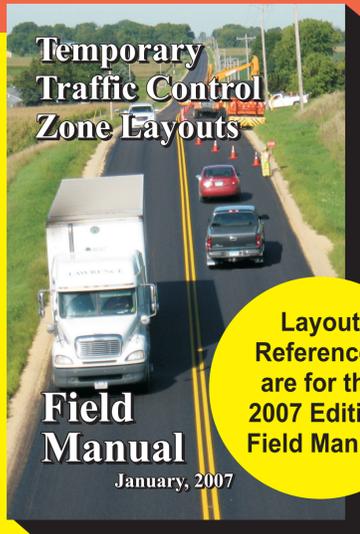
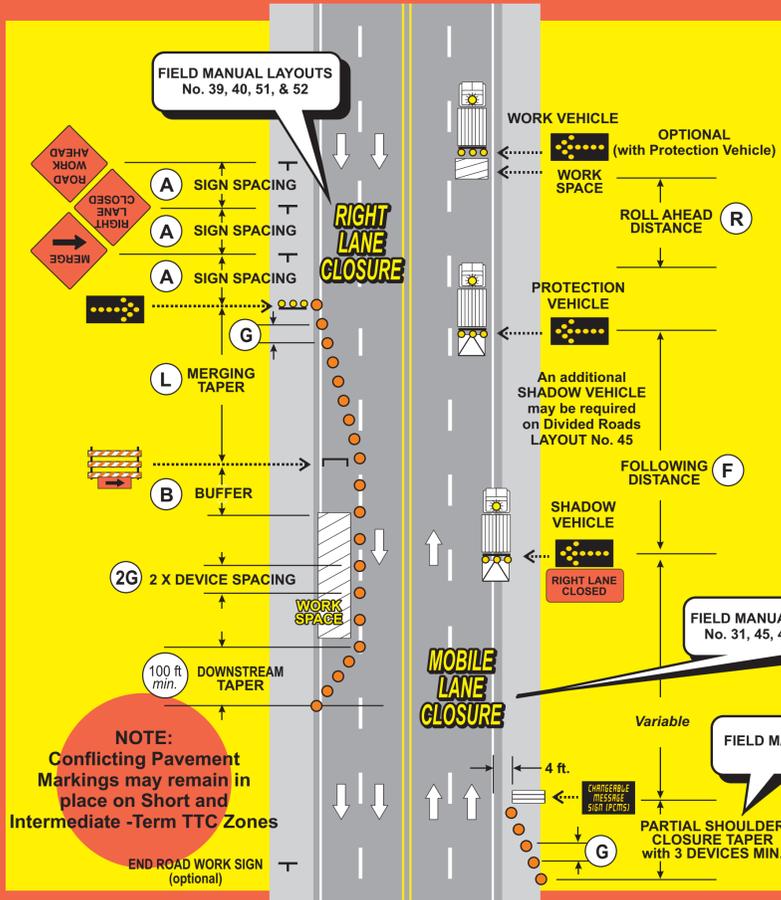


TTC QUICK REFERENCE



Layout References are for the 2007 Edition Field Manual



MN TTC Quick Reference Poster is printed and distributed by the Northland Chapter of the American Traffic Safety Services Association by permission of Mn/DOT 2007 Refer to the Minnesota MUTCD 2005 and 2007 Field Manual.

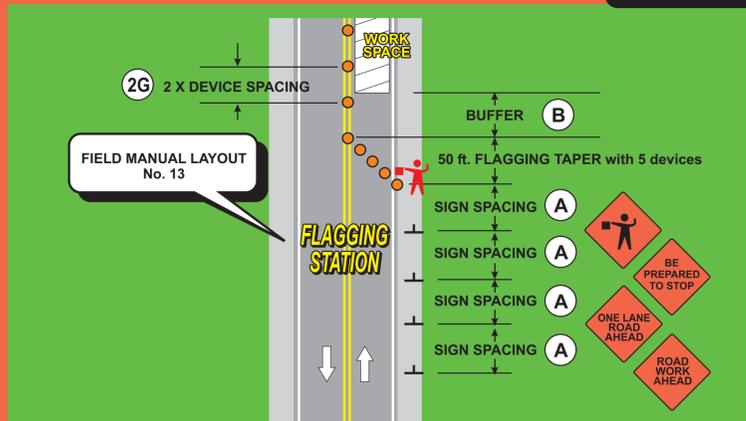
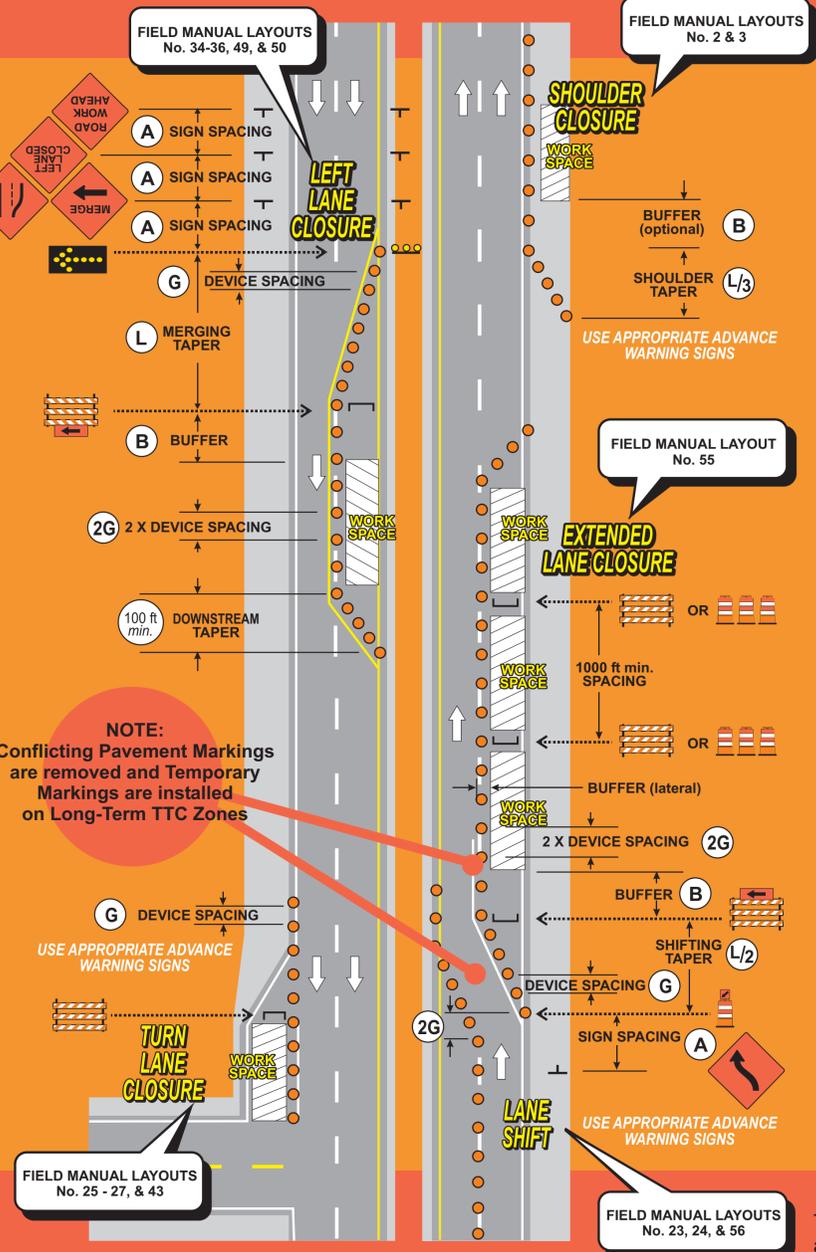
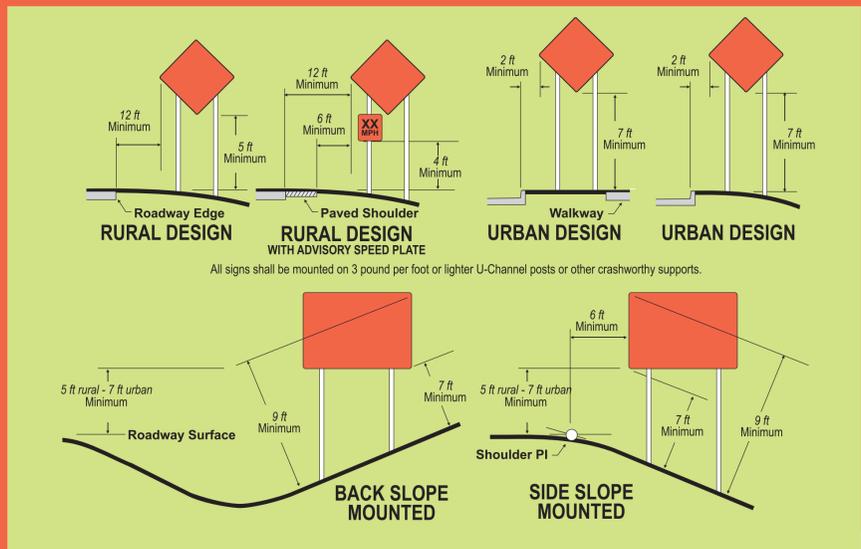
Distance Charts

Posted Speed Limit Prior to Work Starting (MPH)	Channelizing Device Spacing (G) feet	Advance Warning Sign Spacing (A) feet	Buffer Space (B) feet	Decision Sight Distance (D) feet
0 - 30	25	250	85	550
35 - 40	25	325	170	700
45 - 50	50	600	280	900
55	50	750	335	1200
60 - 65	50	1000	485	1400
70 - 75	50	1200	670	1600

Posted Speed Limit Prior to Work Starting (MPH)	Taper Length (12 ft lane) (L) feet	Shifting Taper (L/2) feet	Typical Shoulder Taper (L/3) feet	Shadow Vehicle Following Distance (F) feet	Protection Vehicle Roll Ahead Distance (R) *	
					Moving 15mph max. feet	Stopped feet
0 - 30	200	100	75	250 - 550	100	100
35 - 40	325	175	125	325 - 700	100	100
45 - 50	600	300	200	600 - 900	175	125
55	700	350	250	750 - 1200	175	125
60 - 65	800	400	275	1000 - 1400	225	175
70 - 75	900	450	300	1200 - 1600	225	175

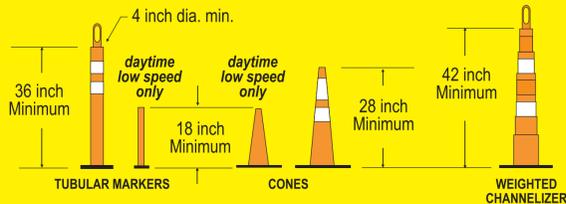
* Based upon vehicle weighing between 10,000 and 22,000 lbs. Refer to TMA manufacturer's recommendations for more information.

TYPICAL HEIGHT and LATERAL LOCATION of GROUND MOUNTED SIGNS:



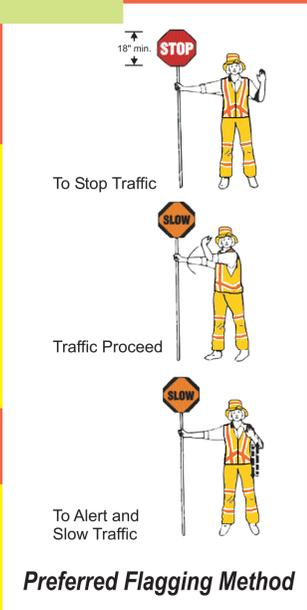
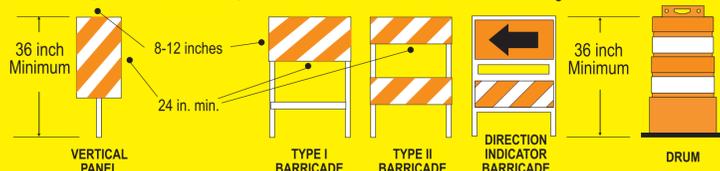
Type A channelizing devices are typically used in attended temporary traffic control zones.

TYPE A CHANNELIZERS:



Type B channelizing devices shall be used if the temporary traffic control zone will be installed longer than 12 hours or left unattended overnight.

TYPE B CHANNELIZERS:



Alternatives to flagging may include STOP signs or portable signals. In low volume and short work zones, the number flaggers may be reduced and Automated Flagging Assistance Devices (AFAD) may be used. Refer to Layouts No. 7 thru 23 for variations of this lane closure operation.