

MUTCD Compliant Traffic Control Flagger Training

Reference charts



Merging taper												
Lane width	Posted speed (miles per hour)											
	20	25	30	35	40	45	50	55	60	65	70	75
8'	55	85	120	165	215	360	400	440	480	520	560	600
9'	60	95	135	185	240	405	450	495	540	585	630	675
10'	70	105	150	205	270	450	500	550	600	650	700	750
11'	75	115	165	225	295	495	550	605	660	715	770	825
12'	80	125	180	245	320	540	600	660	720	780	840	900

Shifting taper												
Lane width	Posted speed (miles per hour)											
	20	25	30	35	40	45	50	55	60	65	70	75
8'	30	45	60	85	110	180	200	220	240	260	280	300
9'	30	50	70	95	120	205	225	250	270	295	315	340
10'	35	55	75	105	135	225	250	275	300	325	350	375
11'	40	60	85	115	150	250	275	305	330	360	385	415
12'	40	65	90	125	160	270	300	330	360	390	420	450

Shoulder taper												
Lane width	Posted speed (miles per hour)											
	20	25	30	35	40	45	50	55	60	65	70	75
2'	5	10	10	15	20	30	35	40	40	45	50	50
3'	10	15	15	25	30	45	50	55	60	65	70	75
4'	10	15	20	30	40	60	70	75	80	90	95	100
5'	15	20	25	35	45	75	85	95	100	110	120	125
6'	15	25	30	45	55	90	100	110	120	130	140	150
7'	20	25	35	50	65	105	120	130	140	155	165	175
8'	20	30	40	55	75	120	135	150	160	175	190	200
9'	20	35	45	65	80	135	150	165	180	195	210	225
10'	25	35	50	70	90	150	170	185	200	220	235	250
11'	25	40	55	75	100	165	185	205	220	240	260	275
12'	30	45	60	85	110	180	200	220	240	260	280	300

MUTCD Table 6B-1 Recommended Advance Warning Sign Minimum Spacing			
	Distance Between Signs		
Road Type	A	B	C
Urban (low speed) 35 mph or lower	100 feet	100 feet	100 feet
Urban (high speed) 40 mph or greater	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway/Freeway	1,000 feet	1,500 feet	2,640 feet

MUTCD Maximum Channelizing Device Spacing	
TAPERS	SPACING
MERGING – SHIFTING – SHOULDER	Not to exceed 1 x speed limit in feet
DOWNSTREAM FLAGGER	20 feet regardless of speed limit
TANGENT	Not to exceed 2 x speed limit in feet

MUTCD Table 6B-2 Stopping sight distance as a function of speed (Buffer space)	
Speed (mph)	Distance (feet)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820