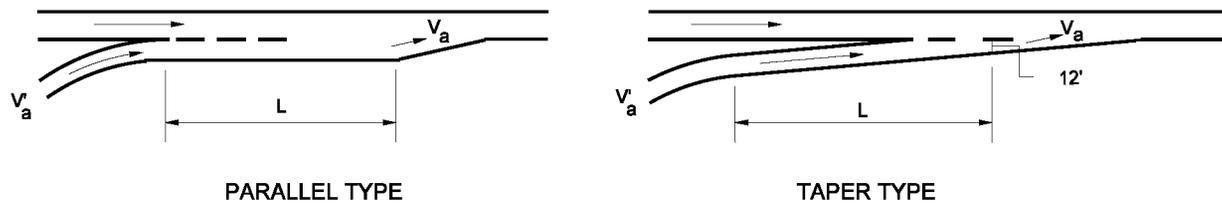


Highway Design Speed (mph)	Speed Reached, $V_a$ (mph)	L = Acceleration Length (ft)						
		For Design Speed of First Governing Geometric Control (mph)						
		Stop	20	25	30	40	45	50
		For Average Running Speed, $V_a$ (mph)						
		0	20	24	28	36	40	44
30	20	165	--	--	--	--	--	--
40	24	250	115	--	--	--	--	--
45	29	495	395	265	--	--	--	--
50	34	870	770	660	430	--	--	--
55	38	1575	1495	1395	1200	575	--	--
60	43	2400	2315	2215	2020	1395	855	--
70	47	3315	3135	2955	2790	2380	1890	710



*Note: The acceleration lengths are calculated from the distance needed for a 200 lb/hp truck to accelerate from the average running speed of the entrance curve to reach a speed ( $V_a$ ) which is 10 mph below the average running speed on the mainline.*

### LENGTHS FOR ACCELERATION (200 lb/hp Truck)

Figure 48-4F