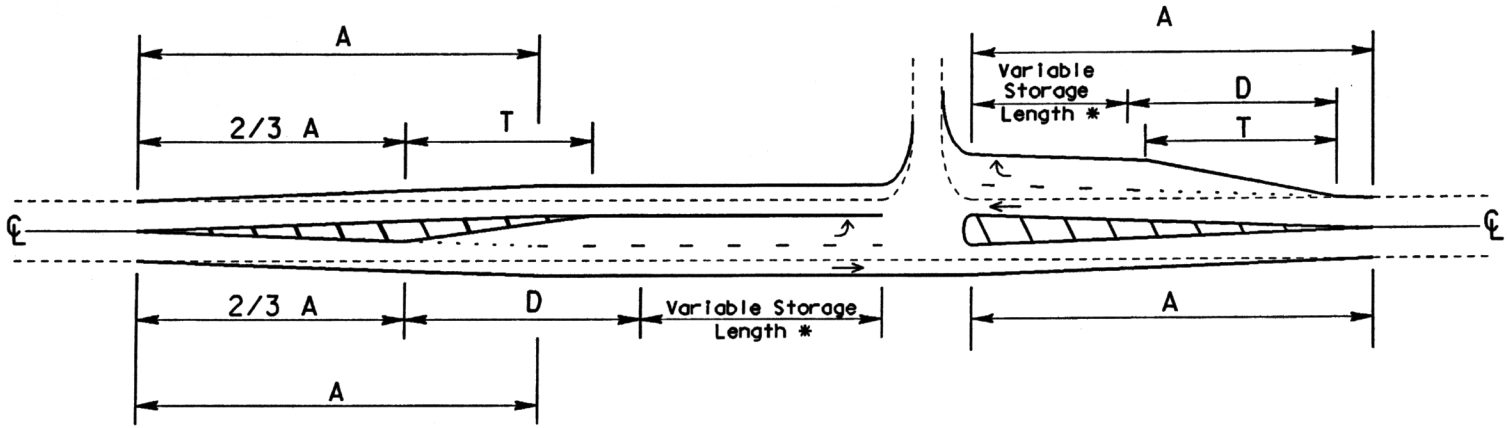
Recommended Treatment for Turn Lanes

Symmetrical Widening



Design Speed (mph)	Posted Speed (mph)	Minimum Deceleration Length (D)	Desirable Deceleration Length (D)	Bay Taper Length (T)
30	≤ 25	100′	150′	75′
35	30	100′	150′	75′
40	35	150′	200′	100′
45	40	150′	250′	100′
50	45	150′	300′	100′
55	50	200′	500′	150′
60	55	250′	575′	200′

Approach / Departure Taper (A)

$A = WS^2/60$ (IF $S \leq 40$ MPH)

$A = WS$ (IF $S > 40$ MPH)

S = Design Speed

W = Width of Lateral Shift

* Storage length for waiting vehicles should be calculated based on the latest version of the Highway Capacity Manual or Policy on Street and Driveway Access to North Carolina Highways.

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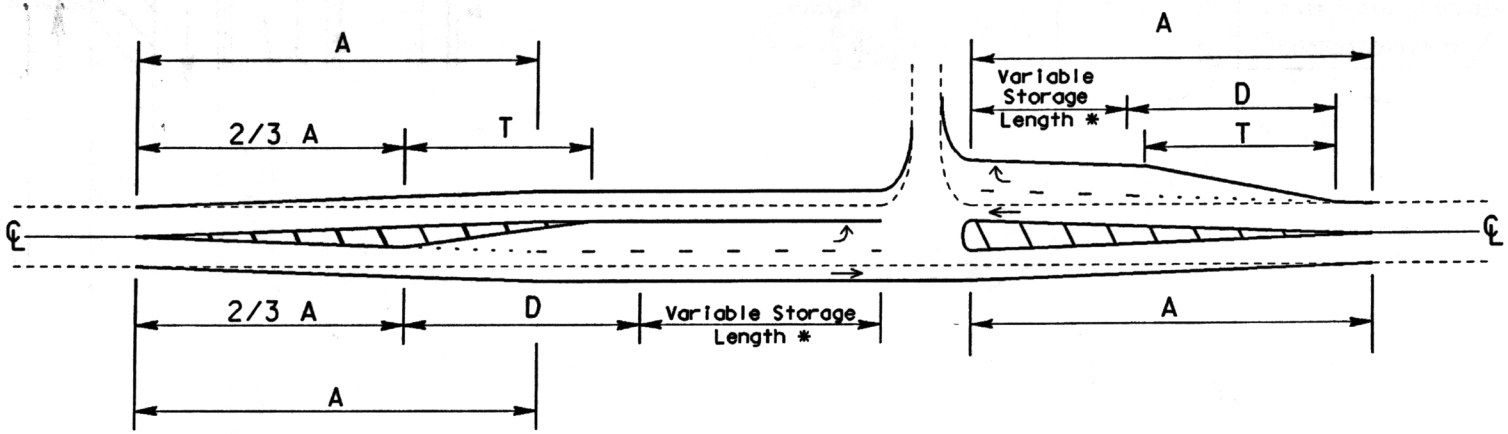

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