TYPICAL

		DESIGN SPEED (MPH)						
		30	35	40	45	50	55	60
		TAPER LENGTH (FT)						
T_1 (See Note 2)	Computed	90'	123'	160'	270'	300'	330'	360'
	Rounded	100'	125'	175'	275'	300'	350	375'
T_2 (See Note 3)		100'	200'	200'	200'	200'	200'	200'
Full Deceleration $(T_1 + T_2)$		200'	325'	375'	475'	500'	550'	575'

Notes:

1. Turn Lane Width (W_1) is to be same as Through Lane Width (W_2) (12' assumed in computations).

2. (For ≤ 40 MPH) T_1 = Turn Lane Width X Design Speed^2 ÷ 60 ÷ 2 (Rounded up). (For > 40 MPH) T_1 = Turn Lane Width X Design Speed ÷ 2 (Rounded up).

3. T_2 = is computed as follows: ≤ 30 mph: 8:1 = 96' (Rounded to 100') >35 mph: 15:1 = 180' (Rounded to 200')

4. L_1 = Length of storage lane to be determined by Figures 3-5 through 3-22 by capacity analysis for Left-Turn Storage. Minimum Length - 100'.

Example for 45 MPH (12' Lane): 1) 12' x45 mph = 270' (Rounded to 275') T_1
2) For 15:1 Taper: 12' Lane x 15 = 180' (Rounded to 200') T_2
3) 275' + 200' = 475' (Full Deceleration Distance)

PASSING/LEFT TURN LANE ON TWO-LANE HIGHWAY

FIGURE 3-4 PASSING/LEFT TURN LANE ON TWO-LANE HIGHWAY[*]

Source: *2011 Virginia Work Area Protection Manual*, Chapter 6C, Page 6C-7
AASHTO Green Book, Chapter 9, Section 9.7.2, page 9-127 (For turning lane tapers)

[*] Rev. 7/14