ERRATA for
PE Civil Transportation Practice Exam
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Revisions are shown in red.

Question 501, p. 34:

Question 501 should read as follows:

The following information applies to a four-lane freeway.

Volume	2,400 vph (in one direction)
Peak hour factor	0.90
Free-flow speed (measured)	55 mph
5% truck traffic in peak hour	
12-ft lanes	
10-ft outside shoulders	
Level terrain	
No recreational vehicles	
Commuter traffic familiar with facility	

The level of service (LOS) for the freeway is most nearly:

Solution 501, p. 77:

Solution 501 should read as follows:

Reference: Transportation Research Board, *Highway Capacity Manual*, 2010, pp. 11-7 to 11-19.

$FFS = 55$ mph

Compute f_{HV}, p. 11-13, level terrain $E_T = 1.5$:

$$f_{HV} = \frac{1}{1 + P_T(E_T - 1)} = \frac{1}{1 + 0.05(1.5 - 1)} = 0.9756$$

Compute flow rate:

$$v_p = \frac{V}{(PHF)(N)(f_{HV})(f_p)} = \frac{2,400}{0.9 \times 2 \times 0.976 \times 1.00} = 1,366 \text{ pcphpl}$$

Compute density:

$$\text{Density} = \frac{v_p}{\text{speed}} = \frac{1,366}{55} = 24.8 \text{ pcpmpl}$$

Find LOS:

From p. 11-7, LOS = C

THE CORRECT ANSWER IS: (C)

Question 530, p. 47:

The ninth line should read as follows:

2 left-turning

Solution 530, p. 89:

Warrant 7 should read as follows:

Warrant 7: Crash Experience
Condition A is met; alternatives have not reduced crash frequency.
Condition B is met; 5 accidents are subject to correction by a signal; 5 in 9 months exceeds 5 in 12 months.
Condition C is met; since speed exceeds 40 mph, use the 56% column and the second row of Table 4C-1; major and minor volumes exceed table values for 8 hours or more. Therefore, Warrant 7 is met.

THE CORRECT ANSWER IS: (D)