

B. Capacity Analyses at Critical Locations

Describe the ability of the existing roadway system to accommodate future traffic (without site development) for all peak hours using the current Highway Capacity Manual. If roadway improvements or modifications are committed for implementation, present the capacity analysis for these conditions.

C. Levels of Service at Critical Points

Based on the results obtained in the previous section, determine the levels of service (A through F).

CHAPTER 4. TRIP GENERATION

Present and diagram the amount of traffic generated by the site for daily and three peak hour conditions. Trip generation rates to be used should be those presented in Trip Generation, 4th ed, Institute of Transportation Engineers. Deviation from these rates must be justified and documented to the satisfaction of the county and VDOT.

CHAPTER 5. TRIP DISTRIBUTION

Present and diagram the direction of approach for site-generated traffic for the appropriate time periods. The basic method and assumptions used must be clearly stated so that the county and VDOT can replicate these results.

CHAPTER 6. TRAFFIC ASSIGNMENT

Describe the utilization of study area roadways by site-generated traffic. Combine the proposed traffic volumes with the anticipated traffic volumes from Chapter 3 to describe and diagram mainline and turning movement volumes for future conditions with the site developed as proposed. Clearly state the basic method and assumptions used.

CHAPTER 7. ANALYSIS OF FUTURE CONDITIONS WITH DEVELOPMENT

A. Future Daily and Peak Hour(s) Traffic Volumes

Present and diagram mainline and turning movement volumes for the highway network in the study area, as well as driveways and internal circulation roadways for all time periods.