

Existing and No Build Network Analysis Chapter Format

2.0 Existing Network Analysis:

2.1 Intersection A: Insert Name of intersection

Figure 2-1



A detailed description of intersection reviewing existing lane configuration (number of through lanes, turn lanes, pedestrian crosswalks etc.) nearby land use: right of way issues, business driveway access, utilities. Also, an aerial of the intersection showing the existing lane configuration will be inserted (Figure 2-1).

Peak Period Observations Summary

AM Peak Period (XX:XX - XX:XX AM)

- This section shall summarize the major queues occurring during the AM peak period. Each leg should be summarized per bullet. Specifically it should be noted how long the queues back up to (feet) during which specific sections of the peak period. Also, if possible, state how many cycles it takes for the queues to clear. A photo taken from the peak period observations of the described queues should be included on the right or directly below this bullet.
- Same as bullet above.



- Same as bullet above.

PM Peak Period (XX:XX – XX:XX PM)

- This section shall summarize the major queues occurring during the AM peak period. Each leg should be summarized per bullet. Specifically it should be noted how long the queues back up to (feet) during which specific sections of the peak period. Also, if possible, state how many cycles it takes for the queues to clear. A photo taken from the peak period observations of the described queues should be included on the right or directly below this bullet.



Crash History / Safety Analysis

A summary should be included in this section detailing the crash types that have occurred most often during the 3 year analysis period if any. It should be explained where specifically in the intersection and how these crashes are occurring. It should be stated if there were any observed trends within the three years. Also, it shall be specified if this intersection is a safety issue which can be determined on LA DOTD's high Potential Safety Improvement (PSI) list. Please note that it should still be stated if there are no safety issues.

Operational Analysis Results

A summary of the intersection analysis should be included in this section. Specifically, it should highlight the overall intersection delays and worst approach delays for all peak hours for existing and no build years. Also, the longest queues as well as v/c ratios at the intersection for existing and no build years. Table 1 will be inserted below with the MOE's for each intersection approach for existing and no build analyses for all peak hours. Also, may refer to a queue map with the MOE table inset in the Appendix (Figure 2-2). Please note that it should still be stated if there are no operational issues.

Table 2-1

Barksdale Blvd at Westgate Dr	AM						PM					
	2015 Existing		2018 No Build		2038 No Build		2015 Existing		2018 No Build		2038 No Build	
	Queue (ft.)	Delay (sec.)	Queue (ft.)	Delay (sec.)	Queue (ft.)	Delay (sec.)	Queue (ft.)	Delay (sec.)	Queue (ft.)	Delay (sec.)	Queue (ft.)	Delay (sec.)
NB (Barksdale Blvd)	597	58	694	64	1974	215	376	55	402	55	792	86
SB (Barksdale Blvd)	954	97	1143	115	2834	277	1383	122	1623	148	3647	463
WB (Westgate Dr)	94	51	100	51	158	51	512	76	604	87	1516	264
EB (Westgate Dr)	253	57	272	58	668	118	1124	223	1280	267	2574	638
Overall	-	70	-	78	-	201	-	129	-	152	-	405

West Gate ECF	2015 Existing		2018 No Build		2038 No Build		2015 Existing		2018 No Build		2038 No Build	
	Queue (ft.)	Delay (sec.)	Queue (ft.)	Delay (sec.)	Queue (ft.)	Delay (sec.)	Queue (ft.)	Delay (sec.)	Queue (ft.)	Delay (sec.)	Queue (ft.)	Delay (sec.)
	EB (Westgate Dr)	452	102	452	102	452	102	6	2	6	2	6

2.2 Intersection B: Insert Name of intersection

(Everything that was inputted into 2.1 Intersection A should be repeated in each analyzed intersection for the complete study area)

2.X Summary and Findings of Overall Study Area

This section should identify study area needs (capacity and/or safety concerns) and propose preliminary improvement concepts to address identified needs. If applicable, it should explain how the individual analyzed intersections affect each other and what the overall network performance. Also, any issues with segments between the major intersections should be explained. Reference a map with the complete labeled study area with road names, control type, MOE analyses results, queues and north arrow in the appendix.

[Appendix for Existing and No Build Analysis](#)

- A. Vistro/Synchro Analysis printed report for Existing and No Build Conditions of Intersections
- B. Vistro/Synchro electronic CD files of analyses
- C. Vistro/Synchro Analysis Result (11 x 17) of complete study area
- D. Queue maps of intersections with MOE tables inset Figure 2-2
- E. Queue map (11 x 17) of complete study area
- F. QA/QC Documentation