

# TRAFFIC ANALYSIS FOR THE HERALD EXAMINER MIXED-USE PROJECT CITY OF LOS ANGELES

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#### **EXECUTIVE SUMMARY**

The Herald Examiner Project ("the project") involves the redevelopment of three sites located in the Central Business District of the City of Los Angeles ("downtown Los Angeles"). The three sites are part of a unified development project, and are identified individually as the Broadway Site, the Hill Street Site, and the 12<sup>th</sup> Street Site. The Broadway Site is located at 1111 South Broadway, between 11<sup>th</sup> Street and 12<sup>th</sup> Street; the Hill Street Site is located at 1108 South Hill Street, between 11<sup>th</sup> Street and 12<sup>th</sup> Street; and the 12<sup>th</sup> Street Site is located on the south side of 12<sup>th</sup> Street, between South Broadway and South Main Street. The project will create a mixed-use development through rehabilitation of the historic Herald Examiner Building at the Broadway Site and construction of new buildings on the Hill Street and 12<sup>th</sup> Street Sites.

The existing Herald Examiner Building on the Broadway Site will be rehabilitated to house new retail and office uses. The building will provide approximately 29,000 square feet of ground floor retail use fronting both Broadway and 11<sup>th</sup> Street. The upper levels will feature approximately 39,725 square feet of office space. Vehicular access will be provided via a driveway on the south side of the building. Parking will be provided in a subterranean garage to be constructed under the adjacent Hill Street Site. The Broadway Site is expected to be completed and occupied by 2008.

The Hill Street Site is currently occupied by a vacant industrial press building. This building will be removed as a part of the project and will be replaced with a new 23-story mixed-use building, which will include 256 condominium units and approximately 2,560 square feet of ground floor retail. Vehicular access will be provided via a driveway located on the south side of the site. Six parking levels (two subterranean and four above grade) will be constructed, providing approximately 422 parking spaces for the Hill Street building and the adjacent Herald Examiner Building. The Hill Street Site is expected to be completed and occupied by 2009.

A 37-story building with 319 condominium units and approximately 8,050 square feet of ground floor retail space will be developed at the 12<sup>th</sup> Street Site. Two subterranean and four above-grade parking levels will provide a total of approximately 487 parking spaces. Access to the parking facilities on the 12<sup>th</sup> Street Site will be provided via a driveway located near the south end of the site on both Broadway and Main Street. The 12<sup>th</sup> Street Site is expected to be completed and occupied by 2010.

Overall, the Herald Examiner Project will provide 575 new residential units, 39,610 square feet of retail use, 39,725 square feet of office space, and approximately 909 parking spaces. The project will likely be built in several phases, with completion of the entire project expected by the year 2010. For purposes of this study, it was assumed that the project would be developed as a unified development, with completion and full occupancy by the year 2010. Once completed and occupied, the project is expected to generate approximately 5,416 net new daily trips, including 348 (137 inbound and 211 outbound) net new trips during the AM peak hour, and 548 (280 inbound and 268 outbound) net new trips during the PM peak hour.

The traffic study presented herein analyzed existing (2005) and future (2010) AM and PM peak hour traffic conditions at 20 intersections in the vicinity of the project. The cumulative traffic conditions attributable to 51 potential related projects in the surrounding area were also analyzed. Based on this analysis, the project is not expected to result in any significant traffic impacts, and therefore no off-site mitigation measures are required. Project traffic impacts were also analyzed for Congestion Management Program (CMP) locations. No significant regional traffic impacts were determined for the CMP monitoring intersections or freeway locations.

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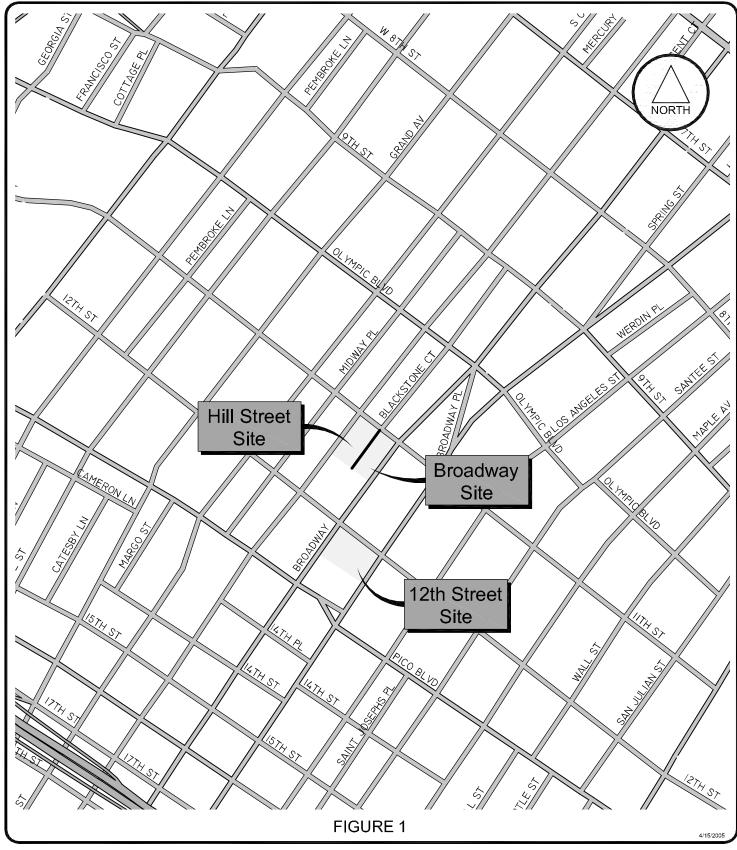
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#### INTRODUCTION

The Herald Examiner Project ("the project") involves the redevelopment of three sites located in the Central Business District of the City of Los Angeles ("downtown Los Angeles"). The three sites are part of a unified development project, and are identified individually as the Broadway Site, the Hill Street Site and the 12<sup>th</sup> Street Site. As shown on Figure 1, Site Vicinity Map, the Broadway Site is located at 1111 Broadway and is bounded by 11<sup>th</sup> Street on the north, Broadway on the east, an existing building on the south, and the Hill Street Site on the west. The Hill Street Site is located at 1108 South Hill Street and is currently occupied by a vacant industrial press building. This site is bounded by 11<sup>th</sup> Street on the north, the Broadway Site on the east, an existing building on the south, and Hill Street on the west. The 12<sup>th</sup> Street Site is currently occupied by a 47,916 square-foot surface parking lot and is bounded by 12<sup>th</sup> Street on the north, Main Street on the east, existing buildings on the south, and Broadway on the west.

Redevelopment of these three sites will create a mixed-use development through rehabilitation of the historic Herald Examiner Building at the Broadway Site and construction of new buildings at the Hill Street Site and 12<sup>th</sup> Street Site. The existing uses on the Hill Street Site and the 12<sup>th</sup> Street Site will be removed as a part of the project. In total, the Herald Examiner Project will provide 575 new residential units, 39,610 square feet of retail use, and 39,725 square feet of office space. The Broadway Site is expected to be completed and occupied by 2008, and the Hill Street Site and 12<sup>th</sup> Street Site are expected to be completed and occupied by 2009 and 2010, respectively.

Crain & Associates has been retained to assess the potential impacts of the proposed project on the surrounding roadway system. The analysis that follows was prepared in accordance with the assumptions, methodology, and procedures approved by the City of



:FN HERALD EXAMINER SITE/VICINITY

PROJECT SITE VICINITY



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Los Angeles Department of Transportation (LADOT). This report presents the results of an analysis of existing (2005) conditions and future (2010) traffic conditions before and after completion of the project. The analysis contains a detailed evaluation of traffic conditions during the AM and PM peak hours at the following 20 study intersections:

- 1. Olympic Boulevard and Hill Street
- 2. Olympic Boulevard and Broadway
- 3. Connecticut Street /I-110 SB Off-Ramp and Blaine Street
- 4. 11<sup>th</sup> Street and Blaine Street
- 5. 11<sup>th</sup> Street/Chick Hearn Court and Cherry Street/I-110 NB On-Ramp
- 6. 11<sup>th</sup> Street and Olive Street
- 7. 11<sup>th</sup> Street and Hill Street
- 8. 11<sup>th</sup> Street and Broadway
- 9. 11<sup>th</sup> Street and Main Street
- 10. 12<sup>th</sup> Street and Olive Street
- 11. 12<sup>th</sup> Street and Hill Street
- 12. 12<sup>th</sup> Street and Broadway
- 13. 12<sup>th</sup> Street and Main Street
- 14. 12<sup>th</sup> Street and Los Angeles Street
- 15. Pico Boulevard and Hill Street
- 16. Pico Boulevard and Broadway
- 17. 17<sup>th</sup> Street/I-10 WB On-Ramp and Grand Avenue
- 18. 18<sup>th</sup> Street/I-10 EB Off-Ramp and Grand Avenue
- 19. 17<sup>th</sup> Street/I-10 WB Off-Ramp and Los Angeles Street
- 20. 18<sup>th</sup> Street/I-10 EB On-Ramp and Los Angeles Street

The locations of these study intersections relative to the project are shown in Figure 2, Study Intersections Map. These locations include the key intersections located along the primary access routes to and from the site, and are those locations expected to be most directly impacted by project traffic.



:FN HERALD EXAMINER SITE\STUDY-INTS

STUDY INTERSECTION LOCATIONS



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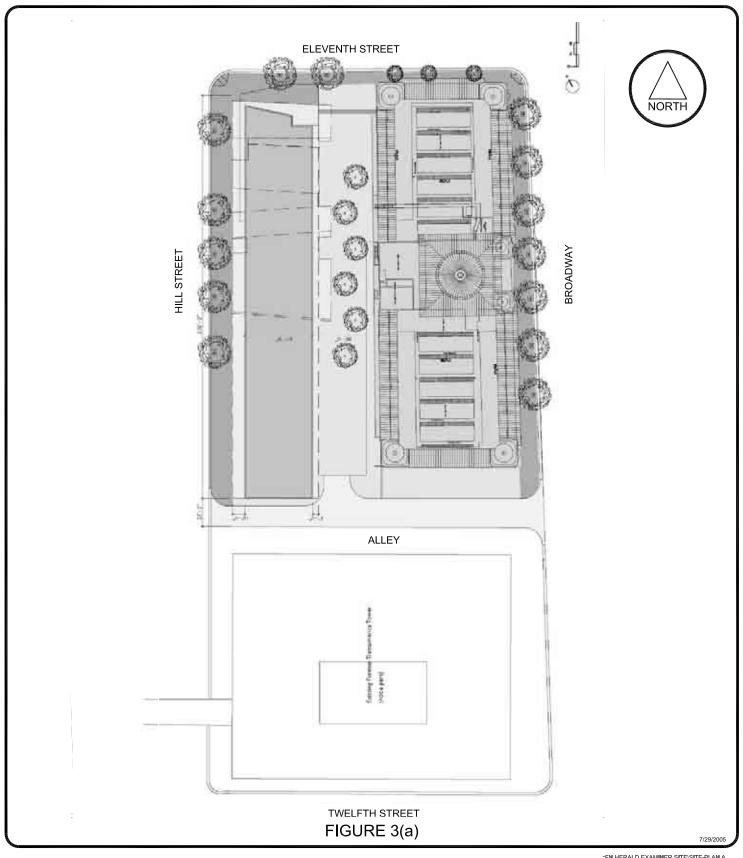
#### PROJECT DESCRIPTION

The Herald Examiner Project involves the redevelopment of three sites located in the Central Business District of the City of Los Angeles, identified as the "Broadway Site", the "Hill Street Site", and the "12<sup>th</sup> Street Site". The project will develop these sites as a unified project, and create a mixed-use development by rehabilitating the historic Herald Examiner Building at the Broadway Site and constructing new buildings on the Hill Street Site and 12<sup>th</sup> Street Site.

As shown in Figure 3(a), the Herald Examiner Building on the Broadway Site will be rehabilitated to house new retail and office uses. The building will provide approximately 29,000 square feet of ground floor retail use fronting on both Broadway and 11<sup>th</sup> Street. The upper levels will feature approximately 39,725 square feet of office space. The Broadway Site is expected to be completed and occupied by 2008.

The Hill Street Site is currently occupied by a vacant industrial press building. This building will be removed as a part of the project and will be replaced with a new 23-story mixed-use building. The new building will provide 256 condominium units and approximately 2,560 square feet of ground floor retail use. On-site recreational amenities are expected to include a health club and pool, private balconies, roof deck, and a plaza over the eastern portion of the site. The Hill Street Site is expected to be completed and occupied by 2009.

The 12<sup>th</sup> Street Site will be developed with a 37-story building to include 319 condominium units and approximately 8,050 square feet of ground floor retail space, as shown in Figure 3(b). On-site recreational amenities are expected to include a health club and pool, private balconies, roof deck, and plaza over the parking levels. The 12<sup>th</sup> Street Site is expected to be completed and occupied by 2010.



:FN HERALD EXAMINER SITE\SITE-PLAN A

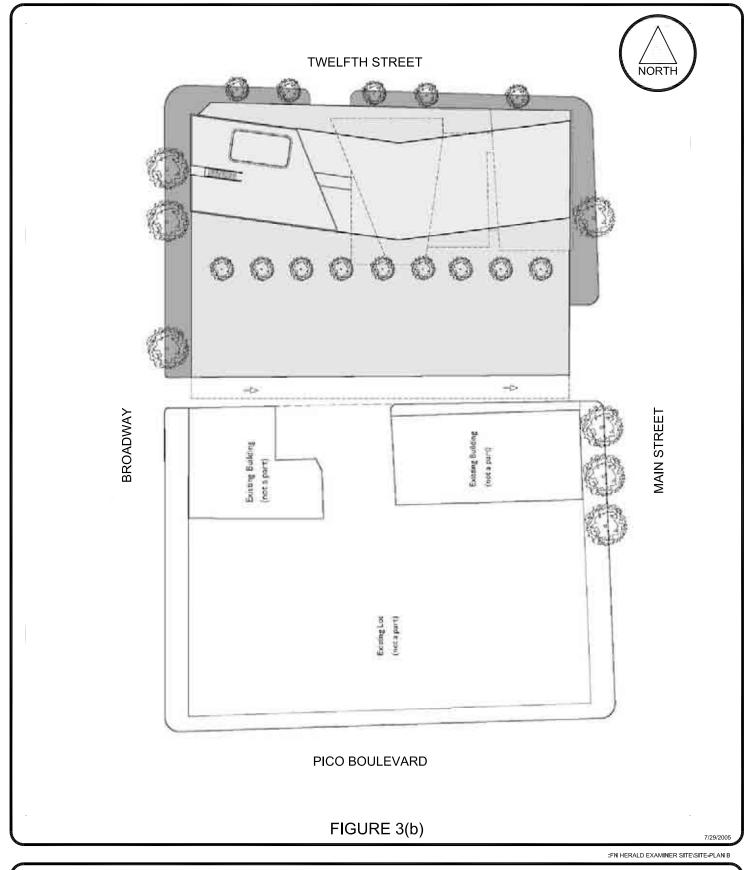
#### PROJECT SITE PLAN **BROADWAY SITE AND HILL STREET SITE**



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PROJECT SITE PLAN 12TH STREET SITE



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Overall, the project will provide 575 new residential units, 39,610 square feet of retail use, and 39,725 square feet of office space. The project is expected to be completed and occupied by 2010.

Parking for the project will be provided in two subterranean parking structures. The subterranean parking beneath the Hill Street Site will provide approximately 422 parking spaces for the new Hill Street building as well as for the adjacent Herald Examiner Building. The existing Herald Examiner Building is a legal non-conforming use that currently provides no on site parking, and would not be required to provide additional parking as a result of the proposed rehabilitation project. However, adequate parking to meet the parking demands of the anticipated future use of the Herald Examiner Building is proposed within the Hill Street Site parking facilities. Two subterranean and four above-grade parking levels will be constructed at the 12<sup>th</sup> Street Site. This parking structure will provide approximately 487 parking spaces for the condominium and retail uses above. In total, the subterranean parking structures will supply approximately 909 parking spaces for the project.

Parking for the new Hill Street building and the adjacent Herald Examiner Building will be accessible via a driveway located on the south side of the site. Access to parking for the 12<sup>th</sup> Street Site will be provided via a driveway near the south end of the 12<sup>th</sup> Street Site along both the Broadway and Main Street frontages of the site.

#### **ENVIRONMENTAL SETTING**

The project is made up of three development sites under common ownership, generally located in the area of Broadway between 11<sup>th</sup> and 12<sup>th</sup> Streets near the southern edge of the Central Business District of the City of Los Angeles. Specifically, the three sites are identified as the Broadway Site, the Hill Street Site and the 12<sup>th</sup> Street Site. The Broadway Site is located at 1111 South Broadway, between 11<sup>th</sup> Street and 12<sup>th</sup> Street; the Hill Street Site is located at 1108 South Hill Street between, 11<sup>th</sup> Street and 12<sup>th</sup> Street; and the 12<sup>th</sup> Street Site is located on the south side of 12<sup>th</sup> Street, between South Broadway and South Main Street.

The project sites are within the South Park neighborhood boundaries of the Central City Community Plan area. The area surrounding the project is primarily commercial in nature, developed with offices, retail stores and wholesale outlets. The Transamerica Center, a large office complex, is located adjacent to the project on 12<sup>th</sup> Street, between South Olive Street and South Hill Street. Other prominent commercial structures located within the surrounding area include the Los Angeles Convention Center, Staples Center, the Fashion Institute of Design and Merchandising (FIDM), and the California Hospital Medical Center.

The project and surrounding uses are well-served by Major and Secondary Highways, including Grand Avenue, Olive Street, Hill Street, Broadway, Main Street, Los Angeles Street, Olympic Boulevard, and Pico Boulevard. In addition, two freeways provide surface street access within approximately two and one-quarter miles from the project. Surface street access to the Harbor (I-110) and the Santa Monica (I-10) Freeways is provided approximately three-quarters of a mile west, and one-half mile south of the project, respectively. These transportation facilities and other local roadways are described in more detail below.

#### **Freeways**

The <u>Harbor Freeway (I-110)</u> is an eight- to ten-lane facility in the vicinity of the study area, and interchanges with the Hollywood, Santa Ana and Santa Monica Freeways. It provides convenient access between the project and the greater Los Angeles metropolitan area. The Harbor Freeway begins as Interstate 110 in San Pedro to the south, becoming State Route 110 as it passes through downtown Los Angeles and continues northeasterly as the Pasadena Freeway into the City of Pasadena. The Harbor Freeway interchanges with the Santa Monica Freeway approximately three-quarters of a mile southeast of the project. Southbound on- and off-ramps are provided on Blaine Street at 11<sup>th</sup> street and Connecticut Street, respectively. A northbound on-ramp is provided on 11<sup>th</sup> Street at Cherry Street, and a northbound off-ramp is located on Cherry Street, south of Pico Boulevard.

The <u>Santa Monica Freeway (I-10)</u> is located one-half mile south of the project. It extends easterly from the City of Santa Monica through downtown Los Angeles, and continues easterly as the San Bernardino Freeway into San Bernardino and Riverside Counties. The Santa Monica Freeway provides four mainline travel lanes in each direction, with auxiliary lanes between some ramp locations. The nearest westbound off-ramp is provided at 17<sup>th</sup> Street/Los Angeles Street and eastbound off-ramps are provided at 18<sup>th</sup> Street/Grand Avenue and 18<sup>th</sup> Street/Maple Avenue. A westbound onramp is provided on 17<sup>th</sup> Street, west of Grand Avenue. Eastbound on-ramps are provided on Flower Street, north of 18<sup>th</sup> Street, and on Los Angeles Street, north of 18<sup>th</sup> Street. The Santa Monica Freeway has a full interchange with the Harbor Freeway approximately three-quarters of a mile southwest of the project.

#### **Streets and Highways**

Olympic Boulevard, located north of the project, is an east-west Major Highway Class II. Olympic Boulevard extends easterly from the City of Santa Monica through West Los Angeles, Century City, Beverly Hills and downtown Los Angeles, to its eastern termination in the City of Montebello in the San Gabriel Valley. In the vicinity of the project, Olympic Boulevard provides three travel lanes in each direction within an approximate 62 to 71 feet roadway width. AM and PM peak hour "No Parking" prohibitions are in effect along both sides of Olympic Boulevard, with one-hour metered parking permitted during other times of the day.

Connecticut Street is approximately 800 feet in length and provides southeast-northwest access between Valencia Street and Blaine Street, just west of the Harbor Freeway.

Designated a Local Street, Connecticut Street provides one travel lane per direction within an approximate 40 feet roadway width. On-street parking is generally permitted.

11<sup>th</sup> Street/Chick Hearn Court is a designated Collector Street, with discontinuous access provided from Koreatown to southeast of downtown Los Angeles. In downtown Los Angeles, west of Cherry Street and the Harbor Freeway northbound on-ramp, 11<sup>th</sup> Street provides one to two travel lanes in each direction. Between Figueroa Street and Cherry Street, 11<sup>th</sup> Street is known as Chick Hearn Court and provides three westbound and two eastbound travel lanes. Between Figueroa and Flower Streets, 11<sup>th</sup> Street provides two westbound and one eastbound travel lane. East of Flower Street, 11<sup>th</sup> Street operates as a one-way only roadway with two westbound travel lanes provided. Along the northern project frontage of the Broadway Site, 11<sup>th</sup> Street operates as a one-way westbound only roadway, within an approximate 40 feet roadway width. Left-turn channelization is provided at some intersections within the study area, namely at Cherry, Figueroa, Flower, and Hill Streets. Right-turn channelization is also provided at

some intersections, including Olive Street. One-hour metered parking is provided along some portions of 11<sup>th</sup> Street during non-peak commute hours.

12<sup>th</sup> Street provides discontinuous east-west access from Koreatown to southeast of downtown Los Angeles. Designated a Collector Street throughout its length, 12<sup>th</sup> Street operates as a bi-directional roadway west of Flower Street and a one-way eastbound only roadway to the east. West of Flower Street, 12<sup>th</sup> Street provides one to two travel lanes per direction. Between Flower Street and Broadway, 12<sup>th</sup> Street provides two eastbound travel lanes within an approximate 40 feet roadway width. East of Broadway, 12<sup>th</sup> Street provides three eastbound travel lanes, and east of Main Street 12<sup>th</sup> Street provides four eastbound travel lanes. Along the northern project boundary of the 12<sup>th</sup> Street Site, 12<sup>th</sup> Street operates as a one-way eastbound only roadway with three travel lanes provided. In the project vicinity two-hour metered parking is provided from 8:00 AM to 6:00 PM on both sides of 12<sup>th</sup> Street.

Pico Boulevard, designated a Secondary Highway, provides east-west access between the City of Santa Monica and its eastern terminus at Central Avenue, less than one mile southeast of the project. In the project area this roadway generally provides two travel lanes in each direction within an approximate 48 feet roadway width. West of the project, between Figueroa and Cherry Streets, Pico Boulevard provides three travel lanes in each direction. Left- and/or right-turn channelization is provided at some intersections. At the study intersection of Pico Boulevard and Broadway, left-turn channelization is provided on both legs of Pico Boulevard, and right-turn channelization is provided on the west leg of the intersection. In the vicinity of the project, parking prohibitions are in effect along both sides of Pico Boulevard during morning and afternoon peak commute periods, with one-hour metered parking available during non-commute periods.

<u>17<sup>th</sup> Street</u> is a one-way Collector Street located north of, and parallel to, the Santa Monica Freeway. South of the project, this street extends the Santa Monica Freeway off-

ramp at Los Angeles Street to west of Grand Avenue where it bends north to Hope Street. This roadway primarily serves the off-ramp traffic at Los Angeles Street and traffic using the on-ramp located west of Grand Avenue. Beyond the project area, 17<sup>th</sup> Street provides discontinuous east-west access between the Mid-City community to the west and its eastern terminus southeast of downtown Los Angeles. South of the project, 17<sup>th</sup> Street provides two westbound travel lanes within an approximate 40 feet roadway width. On-street parking is prohibited from 7:00 AM to 5:00 PM on school days.

18<sup>th</sup> Street, designated a Local Street, is a discontinuous one-way eastbound roadway that extends south of, and parallel to, the Santa Monica Freeway. This roadway is primarily used by traffic to access the Santa Monica Freeway eastbound off-ramp at Grand Avenue and the eastbound on-ramp at Los Angeles Street. Similar to 17<sup>th</sup> Street, 18<sup>th</sup> Street provides discontinuous east-west access between the Mid-City community to the west and its eastern termination southeast of downtown Los Angeles. South of the project, within an approximately 40 feet roadway width, 18<sup>th</sup> Street provides two eastbound travel lanes plus left-turn channelization at most intersections. On-street parking is generally prohibited.

Blaine Street is designated a Secondary Highway. This roadway provides north-south access from north of Olympic Boulevard to the southbound on-ramp located at 11<sup>th</sup> Street. Between Olympic Boulevard and Connecticut Avenue, Blaine Street provides two travel lanes per direction, with the northbound travel lanes originating at the Harbor Freeway southbound off-ramp. North of Olympic Boulevard, Blaine Street reduces to one lane per direction. South of Connecticut Avenue, Blaine Street is a one-way southbound roadway with three travel lanes provided. North of Connecticut Avenue, on-street parking is prohibited at all times on the east side of the street and from 3:00 PM to 7:00 PM on the west side of the street, while to the south of Connecticut

Avenue, on-street parking on the west side of the street is prohibited at all times and limited parking is provided on the east side of the street.

<u>Cherry Street</u> is a one-way northbound roadway which originates north of Venice Boulevard, at the Harbor Freeway and Santa Monica Freeway off-ramps located just west of the Los Angeles Convention Center. From its origination to Pico Boulevard, Cherry Street is a one-way northbound Collector Street which provides four travel lanes within an approximate 50 feet roadway width. Left- and right-turn channelization is provided on Cherry Street at Pico Boulevard. Between Pico Boulevard and 11<sup>th</sup> Street, Cherry Street operates as a bi-directional Collector Street with three northbound and two southbound travel lanes provided plus left-turn channelization, within an approximate 75 to 81 feet roadway width. North of 11<sup>th</sup> Street to its termination at Olympic Boulevard, Cherry Street is a one-way northbound Local Street, approximately 34 feet in width, with two travel lanes. On-street parking is generally prohibited on Cherry Street.

Grand Avenue provides one-way southbound traffic flow between 5<sup>th</sup> Street and 18<sup>th</sup> Street, and two-way traffic flow north of 5<sup>th</sup> Street and south of 18<sup>th</sup> Street. Designated a Major Highway Class II roadway, Grand Avenue provides access between north of Cesar E. Chavez Avenue and its southern termination at 39<sup>th</sup> Street near Exposition Park. In the project vicinity, between 5<sup>th</sup> Street and 18<sup>th</sup> Street, Grand Avenue generally provides four southbound travel lanes within an approximate 56 feet roadway width. South of 18<sup>th</sup> Street, where Grand Avenue transitions to a bi-directional roadway, one to two travel lanes are generally provided per direction within an approximate 56 feet roadway width. On-street parking is permitted on some portions of Grand Avenue, north of 18<sup>th</sup> Street.

Olive Street is designated a Secondary Highway which extends southwesterly from 1<sup>st</sup> Street at the Civic Center, to its southern termination at 21<sup>st</sup> Street just south of the Santa Monica Freeway. Between 5<sup>th</sup> Street and Washington Boulevard, Olive Street is

a one-way northbound roadway which provides four travel lanes within an approximate 56 feet roadway width. North of 5<sup>th</sup> Street and south of Washington Boulevard, Olive Street provides two travel lanes in each direction with some segments providing one or three travel lanes in each direction. Near the project, between 11<sup>th</sup> and 12<sup>th</sup> Streets, two-hour metered parking is provided on Olive Street, from 8:00 AM to 4:00 PM on the west side of the street and from 8:00 AM to 6:00 PM on the east side of the street. Stopping on the west side of Olive Street is prohibited from 4:00 to 6:00 PM.

Hill Street forms the western boundary of the Hill Street Site. Designated a Secondary Highway, Hill Street provides northeast-southwest access between the Pasadena Freeway (SR-110) to the north and Martin Luther King, Jr. Boulevard to the south. In the vicinity of the project, Hill Street provides two travel lanes per direction within an approximate 55 feet roadway width. Left-turn channelization is provided at most intersections. North of its intersection with 12<sup>th</sup> Street, Hill Street provides two southbound travel lanes and one northbound bus only lane; therefore northbound traffic at 12<sup>th</sup> Street is diverted to eastbound 12<sup>th</sup> Street. On some segments of Hill Street, one-hour metered parking is provided on the east side of the street from 8:00 AM to 4:00 PM and stopping is prohibited from 4:00 PM to 7:00 PM. Parking on the west side of the street is prohibited between 7:00 AM to 9:00 AM and 4:00 PM to 7:00 PM.

Broadway is a northeast to southwest roadway which forms the eastern boundary of the Broadway Site and the western boundary of the 12<sup>th</sup> Street Site. Broadway provides access between the Lincoln Heights community to the northeast of downtown Los Angeles, and the City of Carson to the southwest. In the vicinity of the project, Broadway is designated a Secondary Highway and generally provides two travel lanes per direction within an approximate 55 to 65 feet width. Left-turn channelization is provided at most intersections, including on Broadway at 11<sup>th</sup> and 12<sup>th</sup> Streets. Near the project, parking on Broadway is generally unrestricted.

Main Street is a one-way northbound roadway between 9<sup>th</sup> Street and Alameda Street. Designated a Secondary Highway, Main Street is the second part of the one-way couplet with North Spring Street. Northeast of its intersection with Alameda Street, Main Street provides bi-directional access to Mission Road. South of 9<sup>th</sup> Street, Main Street is a continuous, bi-directional roadway to its southern terminus in the City of Carson. In the vicinity of the project, this roadway generally provides two travel lanes per direction plus left-turn channelization, within an approximate 68 feet roadway width. Daytime one-hour metered parking is provided on some segments of Main Street.

Los Angeles Street is a bi-directional roadway which provides northeast-southwest access between Alameda Street to the northeast and its southwestern termination south of the Santa Monica Freeway at 23<sup>rd</sup> Street. East of the project, Los Angeles Street provides two travel lanes per direction within an approximate 56 to 63 feet roadway width. One- and two-hour metered parking from 8:00 AM to 6:00 PM is provided on segments of Los Angeles Street near the project. Approximately one-half mile southeast of the project Los Angeles Street accesses the Santa Monica Freeway westbound off-ramp at 17<sup>th</sup> Street and eastbound on-ramps at 18<sup>th</sup> Street.

#### Existing (2005) Traffic Volumes

Traffic volumes for existing conditions at the 20 study intersections were obtained from manual traffic counts conducted in late 2004 and 2005. Crain & Associates and its subcontractor performed thirteen of the manual intersection counts in December 2004. These counts were supplemented with manual traffic counts taken in May 2005 and counts taken at the intersection of 11<sup>th</sup> Street and Blaine Street in June 2004 for a previous study in the area. The counts cover the weekday 7:00 to 9:00 AM and 4:00 to 6:00 PM peak traffic periods. Peak hour volumes were determined individually for each intersection based on the combined four highest consecutive 15-minute volumes for all vehicular movements at the intersection. A growth factor of 1.0 percent was applied to

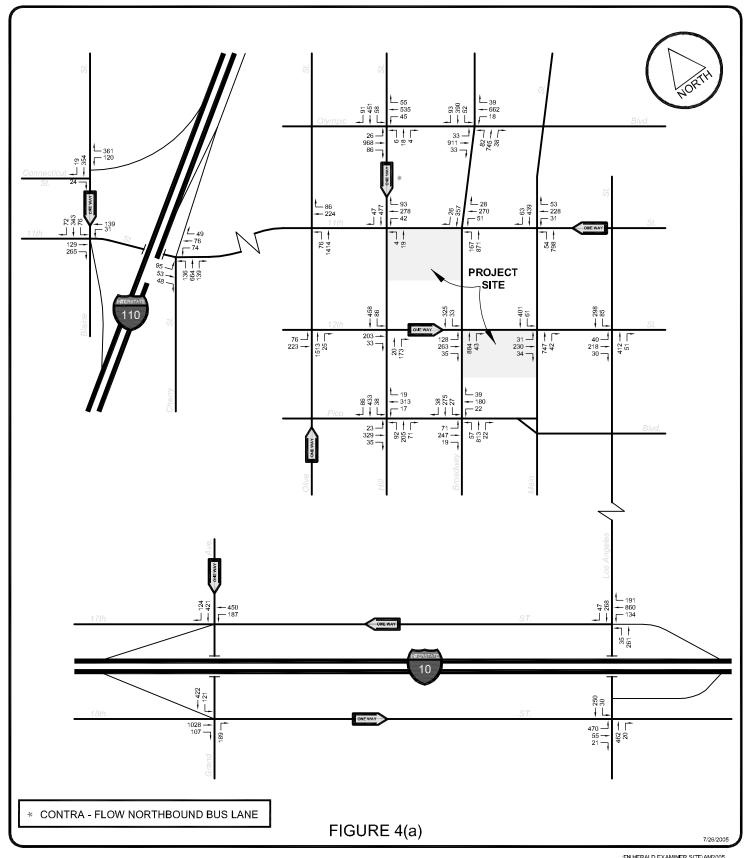
the 2004 volumes to represent existing volumes for the year 2005. Weekday peak hour volumes at the study intersections are illustrated in Figures 4(a) and 4(b). The manual intersection traffic count data sheets are provided in Appendix A.

Information pertaining to intersection widths and geometrics, bus stop locations, on-street parking restrictions, and traffic signal operations were obtained from both field checks and City engineering plans.

#### **Public Transit**

The project and downtown Los Angeles in general, are well served by public transit services provided by both the Los Angeles County Metropolitan Transportation Authority (MTA) and the City of Los Angeles Department of Transportation (LADOT). In addition, Foothill Transit and the City of Santa Monica also operate local and commuter express bus service in the vicinity of the project. The project's proximity to Union Station, approximately two miles northeast, also links the project to Amtrak, Metrolink, Metro rail services and numerous bus routes operated by the MTA and LADOT. The public transit service providers and the lines serving the project are detailed below.

The Los Angeles County Metropolitan Transportation Authority (MTA) operates several north-south aligned bus routes on Grand Avenue, Olive Street, Hill Street, Broadway, and Main Street in the vicinity of the project. Lines 14, 37, 38/71, 76/376, 78/79/378, 96, 439, 484, 485, 490, and 714 travel northbound on Olive Street and southbound on Grand Avenue. Lines 30/31, 40, 42, 45/46, and 68 provide service on Broadway. Lines



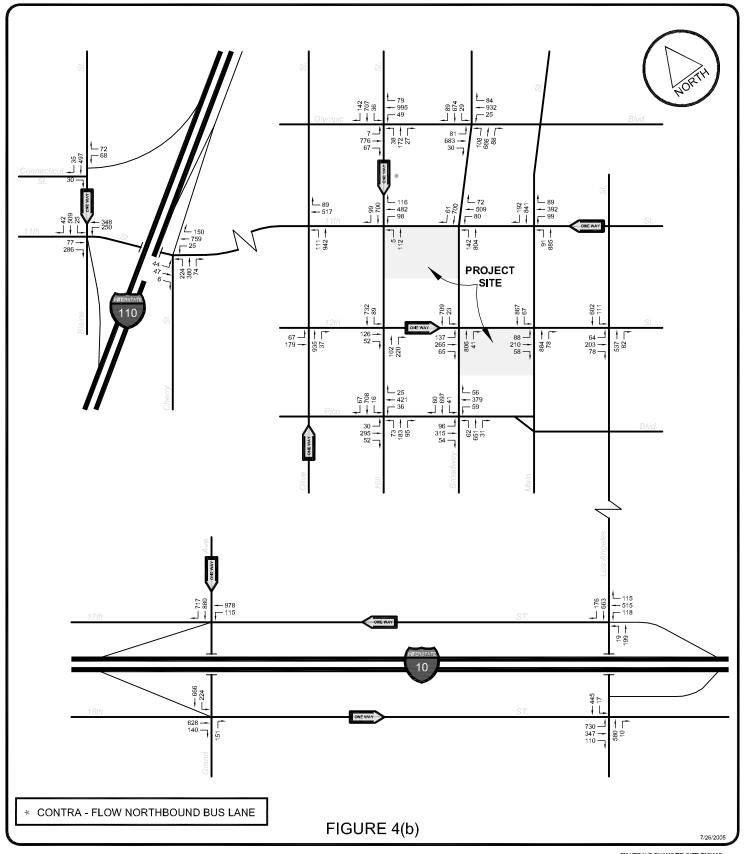
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740 and 745 also operate on Broadway as a part of the greater Metro Rapid Program, which uses a bus signal priority system in combination with frequent stops limited to major intersections in order to minimize travel time. Lines 10/11, 28/328, 33/333, 48, 55, 92, 70/370, 94/394 and 434 travel on Main Street. Lines 2/302 and Line 4 travel northbound on Main Street and southbound on Broadway. Each of these north-south aligned bus routes provide one or more stops within a one-quarter mile radius from the project.

The MTA also operates several east-west aligned bus routes that travel on Pico Boulevard, Olympic Boulevard and 9<sup>th</sup> Street. Line 30/31 travels east-west on Pico Boulevard and north-south on Broadway. Lines 28/328 and 83 operate east-west on Olympic Boulevard and Line 66/366 operates on 9<sup>th</sup> Street.

In addition to these bus routes, the MTA also operates the Metro Red and Blue Lines in the project vicinity. The Metro Red Line provides rail transportation through downtown Los Angeles, the Mid-Wilshire District, and North Hollywood. The Metro Blue Line provides north-south service between downtown Los Angeles and the City of Long Beach. The Metro Red Line provides a stop at the 7<sup>th</sup> Street/Metro Center/Julian Dixon Station located at 660 South Figueroa Street, approximately three-quarters of a mile northwest of the project. The Metro Blue Line also provides a stop at the 7<sup>th</sup> Street/Metro Center/Julian Dixon Station, as well as a stop at the Pico/Chick Hearn Station, located at 1236 South Flower Street, approximately one-half mile southwest of the project. These rail lines also provide stops at Union Station, thereby linking the project to the continually expanding rail network.

LADOT also provides bus routes in the vicinity of the project. The DASH (Downtown Area Short Hop), which primarily serves downtown Los Angeles, has two lines which provide stops near the project. DASH C provides weekday service between the Financial District and the project area. Near the project, DASH C operates northbound on Olive

Street and southbound on Grand Avenue, north of 12<sup>th</sup> Street. South of 12<sup>th</sup> Street, DASH C operates northbound on Hope Street and southbound on Grand Avenue. Stops nearest the project are provided on Grand Avenue at 12<sup>th</sup> Street and on Olive Street at 12<sup>th</sup> Street. DASH D provides service between Union Station, the Civic Center, the Jewelry District, and the project area. Near the project, DASH D operates on Main Street, north of Olympic Boulevard. Between Olympic Boulevard and Pico Boulevard, DASH D operates northbound on Olive Street and southbound on Hill Street. South of Pico Boulevard, DASH D operates northbound on Olive Street and southbound on Grand Avenue. Stops nearest the project are provided on Olive Street at Pico Boulevard, 12<sup>th</sup> Street and Olympic Boulevard; on Hill Street at Olympic Boulevard and 12<sup>th</sup> Street; and on Main Street, midblock between 9th Street and Olympic Boulevard.

In addition to these localized public transit routes, LADOT also operates five commuter express routes in the vicinity of the project. Route 413 travels on Hill Street with stops provided at Olympic Boulevard, 12<sup>th</sup> Street, and Pico Boulevard. Route 419 travels eastbound on Olympic Boulevard, northbound on Broadway and westbound on 8<sup>th</sup> Street. Stops nearest the project are provided on Olympic Boulevard at Grand Avenue and Olive Street. Routes 430, 431 and 437 operate northbound on Olive Street and southbound on Grand Avenue. Stops are provided in both directions at Pico Boulevard, 12<sup>th</sup> Street, Olympic Boulevard, and 9<sup>th</sup> Street. These commuter express routes operate on weekdays during peak commute periods.

Foothill Transit operates several bus lines near the project with service to the San Gabriel and Pomona Valley communities. Lines 482, 486, and 488 operate northbound on Olive Street and southbound on Grand Avenue. Line 480/481 operates weekdays and Saturdays. Lines 482, 486, and 488 operate daily but provide service in the project vicinity weekdays only.

Santa Monica Big Blue Bus operates Line 10 daily in the vicinity of the project, providing express service between downtown Los Angeles and the City of Santa Monica. In the vicinity of the project Line 10 operates northbound on Olive Street and southbound on Grand Avenue. Stops near the project are provided in both directions at 9<sup>th</sup> Street, Olympic Boulevard, 11<sup>th</sup> Street, 12<sup>th</sup> Street, and Pico Boulevard.

As shown by the preceding information, the project is well served by direct access to several public transit services and routes. In addition, when transfer opportunities are considered, the project is accessible to and from the greater Los Angeles region via public transit. Thus, it is expected that some of the person trips generated by the project will utilize public transportation as the primary travel mode instead of private vehicles.

#### **Analysis of Existing (2005) Traffic Conditions**

An analysis of current traffic conditions was conducted on the streets and highways serving the project area. Detailed traffic analyses of existing conditions were performed at the following 20 intersections:

- 1. Olympic Boulevard and Hill Street
- 2. Olympic Boulevard and Broadway
- 3. Connecticut Street /I-110 SB Off-Ramp and Blaine Street
- 4. 11<sup>th</sup> Street and Blaine Street
- 5. 11<sup>th</sup> Street/Chick Hearn Court and Cherry Street/I-110 NB On-Ramp
- 6. 11<sup>th</sup> Street and Olive Street
- 7. 11<sup>th</sup> Street and Hill Street
- 8. 11<sup>th</sup> Street and Broadway
- 9. 11<sup>th</sup> Street and Main Street
- 10. 12<sup>th</sup> Street and Olive Street
- 11. 12<sup>th</sup> Street and Hill Street
- 12. 12<sup>th</sup> Street and Broadway
- 13. 12<sup>th</sup> Street and Main Street

- 14. 12<sup>th</sup> Street and Los Angeles Street
- 15. Pico Boulevard and Hill Street
- 16. Pico Boulevard and Broadway
- 17. 17<sup>th</sup> Street/I-10 WB On-Ramp and Grand Avenue
- 18. 18th Street/I-10 EB Off-Ramp and Grand Avenue
- 19. 17<sup>th</sup> Street/I-10 WB Off-Ramp and Los Angeles Street
- 20. 18<sup>th</sup> Street/I-10 EB On-Ramp and Los Angeles Street

All of the study intersections are currently signalized, and are currently operated under the Adaptive Traffic Control System (ATCS), in addition to the previously implemented ATSAC (Automated Traffic Surveillance and Control) System. The ATCS/ATSAC system provides computer monitoring of traffic demand at signalized intersections within the system, and modifies traffic signal timing in real time to maximize capacity and decrease delay. The ATSAC signal enhancements have been recognized to increase intersection capacities by approximately seven percent at locations where it has been installed and the upgraded ATCS system is able to increase capacity by another three percent for a total intersection capacity increase of ten percent.

The methodology used in this study for the analysis and evaluation of traffic operations at each study intersection is based on procedures outlined in Circular Number 212 of the Transportation Research Board.<sup>1</sup> In the discussion of Critical Movement Analysis for signalized intersections, procedures have been developed for determining operating characteristics of an intersection in terms of the "Level of Service" provided for different levels of traffic volume and other variables, such as the number of signal phases. The term "Level of Service" (LOS) describes the quality of traffic flow. LOS A to C operate

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Interim Materials on Highway Capacity, Circular Number 212, Transportation Research Board, Washington, D.C., 1980.

well. LOS D typically is the level for which a metropolitan area street system is designed. LOS E represents volumes at or near the capacity of the highway which might result in stoppages of momentary duration and fairly unstable flow. LOS F occurs when a facility is overloaded and is characterized by stop-and-go traffic with stoppages of long duration.

A determination of the LOS at an intersection, where traffic volumes are known or have been projected, can be obtained through a summation of the critical movement volumes at that intersection. Once the sum of critical movement volumes has been obtained, the values indicated in Table 1 can be used to determine the applicable LOS.

Table 1
Critical Movement Volume Ranges\*
For Determining Levels of Service

| <b>Maximum Sum of Critical Volumes</b> |                     |                       |                        |  |
|--|---------------------|-----------------------|------------------------|--|
| Level of<br><u>Service</u>             | Two<br><u>Phase</u> | Three<br><u>Phase</u> | Four or<br>More Phases |  |
| Α                                      | 900                 | 855                   | 825                    |  |
| В                                      | 1,050               | 1,000                 | 965                    |  |
| С                                      | 1,200               | 1,140                 | 1,100                  |  |
| D                                      | 1,350               | 1,275                 | 1,225                  |  |
| Е                                      | 1,500               | 1,425                 | 1,375                  |  |
| F                                      |                     | Not Applicable        | 9                      |  |

<sup>\*</sup> For planning applications only, i.e., not appropriate for operations and design applications.

"Capacity" represents the maximum total hourly movement volume of vehicles in the critical lanes which has a reasonable expectation of passing through an intersection under prevailing roadway and traffic conditions. For planning purposes, capacity equates to the maximum value of LOS E, as indicated in Table 1. The Critical Movement Analysis (CMA) indices used in this study were calculated by dividing the

sum of critical movement volumes by the appropriate capacity value for the type of signal control present or proposed at the study intersections. Thus, the LOS corresponding to a range of CMA values is shown in Table 2.

Table 2
Level of Service
As a Function of CMA Values

| Level of<br><u>Service</u> | Description of Operating Characteristics   | Range of<br>CMA Values |
|----------------------------|--|------------------------|
| Α                          | Uncongested operations; all vehicles clear in a single cycle.  | < 0.60                 |
| В                          | Same as above.   | >0.60 < 0.70           |
| С                          | Light congestion; occasional backups on critical approaches.   | >0.70 < 0.80           |
| D                          | Congestion on critical approaches, but intersection functional. Vehicles required to wait through more than one cycle during short peaks. No long-standing lines formed.       | >0.80 < 0.90           |
| Е                          | Severe congestion with some long-standing lines on critical approaches. Blockage of intersection may occur if traffic signal does not provide for protected turning movements. | >0.90 < 1.00           |
| F                          | Forced flow with stoppages of long duration.   | > 1.00                 |

By applying this analysis procedure to the study intersections, the CMA value and the corresponding LOS for existing traffic conditions were calculated. These basic CMA calculations were adjusted, however, to account for traffic signal enhancements that are not considered in the CMA methodology. As described previously, the City's ATCS/ATSAC system has been implemented at all of the signalized intersections in the study area, which LADOT has determined results in an approximate ten percent increase in capacity over locations where the system is not implemented. Therefore, per LADOT policy, the CMA value calculated using the standard methodology was reduced by 0.100

for all 20 study intersections, in order to approximate the increase in intersection capacity resulting from the ATSAC/ATCS implementation.

The resulting intersection conditions for existing (2005) AM and PM peak hour conditions in the study area are shown in Table 3. As summarized in Table 3, all of the study intersections are currently operating at very good levels of service (LOS A) during both the AM and PM peak hour. This is primarily due to the operations of the many one-way streets in the project vicinity, as well as lack of significant traffic volumes on most of the roadways. One-way streets generally provide substantially more operational capacity than typical two-way streets due to the lack of many of the conflicting moves that limit green time and traffic flow at intersections of two-way streets. The CMA calculation worksheets for existing (2005) traffic conditions are provided in Appendix C.

Table 3
Critical Movement Analysis (CMA) Summary
Existing (2005) Traffic Conditions

|     |  | <b>AM Peak Hour</b> |     | <b>PM Peak Hour</b> |     |
|-----|--|---------------------|-----|---------------------|-----|
| No. | Intersection   | CMA                 | LOS | CMA                 | LOS |
| 1.  | Olympic Boulevard and<br>Hill Street                             | 0.388               | A   | 0.512               | A   |
| 2.  | Olympic Boulevard and<br>Broadway                                | 0.504               | Α   | 0.596               | Α   |
| 3.  | I-110 SB Off-Ramp and<br>Blaine Street/Connecticut Street        | 0.185               | Α   | 0.204               | Α   |
| 4.  | 11th Street and<br>Blaine Street                                 | 0.331               | Α   | 0.538               | Α   |
| 5.  | 11th Street/Chick Hearn Court and Cherry Street/I-110 NB On-Ramp | 0.519               | Α   | 0.496               | Α   |
| 6.  | 11th Street and<br>Olive Avenue                                  | 0.287               | Α   | 0.309               | Α   |
| 7.  | 11th Street and<br>Hill Street                                   | 0.268               | Α   | 0.421               | Α   |
| 8.  | 11th Street and<br>Broadway                                      | 0.327               | Α   | 0.450               | Α   |
| 9.  | 11th Street and<br>Main Street                                   | 0.329               | Α   | 0.564               | Α   |
| 10. | 12th Street and<br>Olive Street                                  | 0.316               | Α   | 0.217               | Α   |
| 11. | 12th Street and<br>Hill Street                                   | 0.223               | Α   | 0.270               | Α   |
| 12. | 12th Street and<br>Broadway                                      | 0.426               | Α   | 0.404               | Α   |
| 13. | 12th Street and<br>Main Street                                   | 0.328               | Α   | 0.395               | Α   |
| 14. | 12th Street and<br>Los Angeles Street                            | 0.231               | Α   | 0.331               | Α   |
| 15. | Pico Boulevard and<br>Hill Street                                | 0.304               | Α   | 0.397               | Α   |

## Table 3 (continued) Critical Movement Analysis (CMA) Summary Existing (2005) Traffic Conditions

|     |   | <b>AM Peak Hour</b> |     | PM Peak Hour |     |
|-----|---|---------------------|-----|--------------|-----|
| No. | Intersection  | CMA                 | LOS | CMA          | LOS |
| 16. | Pico Boulevard and<br>Broadway                      | 0.392               | A   | 0.547        | A   |
| 17. | 17th Street/I-10 WB On-Ramp and Grand Avenue        | 0.228               | Α   | 0.503        | Α   |
| 18. | 18th Street/I-10 EB Off-Ramp and Grand Avenue       | 0.313               | Α   | 0.286        | Α   |
| 19. | 17th Street/I-10 WB Off-Ramp and Los Angeles Street | 0.423               | Α   | 0.442        | Α   |
| 20. | 18th Street/I-10 EB On-Ramp and Los Angeles Street  | 0.395               | Α   | 0.595        | Α   |

#### PROJECT TRAFFIC

The following section describes the methodology used to determine the trip generation, distribution and assignment of the project. Driveway access and parking for the project are also described on the pages that follow.

#### **Traffic Generation**

Traffic-generating characteristics of many land uses, such as those comprising the project, have been extensively surveyed and documented in studies conducted under the auspices of the Institute of Transportation Engineers (ITE). The most recent information is available in the ITE 7th Edition <u>Trip Generation</u> Manual, which was used as a basis for project trip generation. This publication indicated that condominiums, office, and retail centers of the sizes associated with the project generally exhibit the trip-making characteristics presented in Table 4.

Accordingly, for this analysis, the ITE <u>Trip Generation</u> rates provided in Table 4 were used to determine estimates of the project daily, AM and PM peak hour trips. The rates and equations used to calculate the project's trip generation present a conservative condition, as these rates do not account for such trip-reducing factors as multi-purpose trips, extensive transit usage or pass-by trips. These factors play a significant role in determining the actual traffic generating characteristics of a particular project, and therefore, adjustments to the traffic generation estimates were deemed appropriate.

Trip reductions related to the proposed project are expected to occur as a result of "multi-purpose" or "internal" trips within the site. This type of trip generally occurs at integrated mixed-use developments containing a variety of uses. It is generally recognized that residents or patrons of a site will utilize other on-site uses if they are conveniently located or provide useful services or amenities, with the level of interaction

### Table 4 Project Trip Generation Equations

#### Condominiums (trips per dwelling unit)

Daily: Ln(T) = 0.85 Ln(A) + 2.55

AM Peak Hour: Ln (T) = 0.80 Ln (A) + 0.26; I/B = 17%, O/B = 83% PM Peak Hour: Ln (T) = 0.82 Ln (A) + 0.32; I/B = 67%, O/B = 33%

#### Office (trips per 1,000 sq. ft.)

Daily: Ln(T) = 0.65 Ln(A) + 5.83

AM Peak Hour: Ln (T) = 0.60 Ln (A) + 2.29; I/B = 61%, O/B = 39% PM Peak Hour: Ln (T) = 0.66 Ln (A) + 3.40; I/B = 48%, O/B = 52%

#### Retail (Shopping Center) (trips per 1,000 sq. ft.)

Daily: Ln(T) = 0.65 Ln(U) + 5.83

AM Peak Hour: Ln (T) = 0.60 Ln (U) + 2.29; I/B = 61%, O/B = 39% PM Peak Hour: Ln (T) = 0.66 Ln (U) + 3.40; I/B = 48%, O/B = 52%

#### Where:

T = trip ends A = building area in 1,000's of square feet

O/B = outbound U = dwelling unit

I/B = inbound

#### Source:

Trip Generation, 7th Edition, Institute of Transportation Engineers, Washington D.C., 2003.

dependent upon the number of residents or patrons, service providers, accessibility, and other factors. For this particular project, some of the apartment and condominium residents and office employees are expected to use the on-site retail use, and some of the office employees are expected to live in the on-site condominiums, thereby reducing some of the trips the retail and office uses would otherwise generate.

Thus, the advantages of this mixed-use project need to be considered for reasonable evaluation of the project's trip-making potential. It was estimated that approximately 10 percent of the retail patronage would be the result of utilization by on-site residents and on-site office employees, and five percent of the office employees would reside in the on-site condominiums.

The use of public transportation is another important consideration in the evaluation of the project's trip making potential. As noted previously in the Public Transit section of this report, the project is well served by bus lines provided by various transit operators. These transit operators provide both local and regional routes that are easily accessible to project residents, visitors, employees, and retail patrons. Significant transit use is not accounted for in the ITE trip generation rates; therefore, appropriate adjustments were made to the project trip generation to account for transit usage.

"Walk-in" trips are trips that are already occurring in the project vicinity, but which have other nearby downtown Los Angeles attractions as their specified destinations. These trips account for "built-in" patronage and subsequent traffic reductions for both the project specifically and downtown in general. These trips are expected to continue to occur with or without the development of the project. They are not directly site-oriented, but provide walk-in patronage from other nearby destinations, thereby reducing site vehicular trips. A five percent walk-in trip reduction was assumed for the retail use.

Trip reduction factors for the proposed project also account for the presence of "pass-by" trips. As these trips pass by the project, the specific convenient facilities provided by the project, or other factors produces a stop at the site. Such activity is considered to be an interim stop along a trip which existed without development of the project, and therefore vehicles making these stops are not considered to be newly generated project-related traffic. LADOT has developed a series of recommended pass-by trip reduction percentages for various development types and sizes. Based on these recommendations, it was assumed that the project retail use would experience a 50 percent pass-by reduction. A summary of the baseline trip generation reduction factors, including the 50 percent pass-by reduction for the retail use, is shown in Table 5.

Table 5
Project Trip Reduction Factors

|             | Internal |             | Walk-In | Pass-by  |
|-------------|----------|-------------|---------|----------|
|             | Capture  | Transit Use | Factor  | Discount |
| Condominium | 0%       | 10%         | 0%      | 0%       |
| Office      | 5%       | 5%          | 0%      | 0%       |
| Retail      | 10%      | 5%          | 5%      | 50%      |

Based on the trip generation rates and trip reduction factors, projections of the amount of new traffic to be generated by the project were derived, and are summarized in Table 6. As shown in Table 6, once completed and occupied, the project is expected to generate approximately 5,416 net new daily trips, including approximately 348 (137 inbound and 211 outbound) net new trips during the AM peak hour, and 548 (280 inbound and 268 outbound) net new trips during the PM peak hour. These trip estimates were used to identify the effects of project traffic at intersections farther away from the project sites.

However, per LADOT Policies and Procedures, trip reductions for retail pass-by activity were not applied to the project's driveways, since pass-by trips, while not new to the area roadways, will be included in the number of vehicles that enter and exit the site's driveways. The total project traffic volumes at the project driveways and site adjacent intersections were also calculated. These calculations indicate that approximately 7,410 daily trips, including 399 (168 inbound and 231 outbound) AM peak hour trips and 730 (367 inbound and 363 outbound) PM peak hour trips, would access the project driveways. This amount of new project traffic was used to estimate impacts at project site adjacent intersections.

Table 6
Project Trip Generation

|  |                           | AM                | Peak H            | our                | PM                  | Peak H              | our                  |
|--|---------------------------|-------------------|-------------------|--------------------|---------------------|---------------------|----------------------|
| Size/Use   | Daily                     | I/B               | O/B               | Total              | I/B                 | O/B                 | Total                |
| "Broadway Site"  |                           |                   |                   |                    |                     |                     |                      |
| 39,725 sq. ft. Office<br>Less 10% Internal/Transit   | 655<br>(66)               | 79<br>(8)         | 11<br>(1)         | 90<br>(9)          | 21<br>(2)           | 102<br>(10)         | 123<br>(12)          |
| Subtotal Office  | 589                       | 71                | 10                | 81                 | 19                  | 92                  | 111                  |
| 29,000 sq. ft. Retail (Shopping Center)<br>Less 20% Internal/Transit/Walk-in<br>Less 50% Pass By [1] | 3,037<br>(607)<br>(1,215) | 45<br>(9)<br>(18) | 29<br>(6)<br>(12) | 74<br>(15)<br>(30) | 133<br>(26)<br>(53) | 144<br>(29)<br>(58) | 277<br>(55)<br>(111) |
| Subtotal Retail  | 1,215                     | 18                | 11                | 29                 | 54                  | 57                  | 111                  |
| Broadway Site Total  | 1,804                     | 89                | 21                | 110                | 73                  | 149                 | 222                  |
| "Hill Street Site"   |                           |                   |                   |                    |                     |                     |                      |
| 256 Condominiums<br>Less 10% Internal/Transit/Walk-in  | 1,427<br>(143)            | 19<br>(2)         | 91<br>(9)         | 110<br>(11)        | 87<br>(8)           | 43<br>(5)           | 130<br>(13)          |
| Subtotal Condominiums  | 1,284                     | 17                | 82                | 99                 | 79                  | 38                  | 117                  |
| 2,560 sq. ft. Retail (Shopping Center)<br>Less 20% Internal/Transit/Walk-in<br>Less 50% Pass By [1]  | 627<br>(125)<br>(251)     | 10<br>(2)<br>(4)  | 7<br>(1)<br>(3)   | 17<br>(3)<br>(7)   | 27<br>(5)<br>(11)   | 29<br>(6)<br>(12)   | 56<br>(11)<br>(23)   |
| Subtotal Retail  | 251                       | 4                 | 3                 | 7                  | 11                  | 11                  | 22                   |
| Hill Street Site Total   | 1,535                     | 21                | 85                | 106                | 90                  | 49                  | 139                  |
| "12th Street Site"   |                           |                   |                   |                    |                     |                     |                      |
| 319 Condominiums<br>Less 10% Internal/Transit/Walk-in  | 1,721<br>(172)            | 22<br>(3)         | 109<br>(10)       | 131<br>(13)        | 105<br>(10)         | 51<br>(6)           | 156<br>(16)          |
| Subtotal Condominiums  | 1,549                     | 19                | 99                | 118                | 95                  | 45                  | 140                  |
| 8,050 sq. ft. Retail (Shopping Center)<br>Less 20% Internal/Transit/Walk-in<br>Less 50% Pass By [1]  | 1,320<br>(264)<br>(528)   | 21<br>(4)<br>(9)  | 14<br>(3)<br>(5)  | 35<br>(7)<br>(14)  | 57<br>(12)<br>(23)  | 62<br>(12)<br>(25)  | 119<br>(24)<br>(48)  |
| Subtotal Retail  | 528                       | 8                 | 6                 | 14                 | 22                  | 25                  | 47                   |
| 12th Street Site Total   | 2,077                     | 27                | 105               | 132                | 117                 | 70                  | 187                  |
| Herald Examiner - Net Project Totals   |                           |                   |                   |                    |                     |                     |                      |
| 575 Condominiums<br>39,610 sq. ft. Retail (Shopping Center)<br>39,725 sq. ft. Office                 | 2,833<br>1,994<br>589     | 36<br>30<br>71    | 181<br>20<br>10   | 217<br>50<br>81    | 174<br>87<br>19     | 83<br>93<br>92      | 257<br>180<br>111    |
|  | 5,416                     | 137               | 211               | 348                | 280                 | 268                 | 548                  |

Note:

<sup>[1]</sup> Pass-by trip reductions calculated on net traffic after adjustment for internal/transit/walk-in factors.

#### **Traffic Distribution**

Estimation of the geographic distribution of project trips was the next step in the analytical process. This trip distribution pattern for the project was determined by considering the nature of the project uses, existing traffic patterns, characteristics of the surrounding roadway system, geographic location of the project and its proximity to freeways and major travel routes, employment centers to which residents would likely be attracted, and areas from which office employees and retail patrons would likely be attracted. Based on these factors, the overall project distributions were determined, and are summarized in Table 7.

Table 7
Directional Project Trip Distribution Percentages

| <b>Direction</b> | <u>Local</u> | <u>Freeway</u> | <u>Total</u> |
|------------------|--------------|----------------|--------------|
| North            | 15%          | 20%            | 35%          |
| South            | 5%           | 10%            | 15%          |
| East             | 10%          | 10%            | 20%          |
| <u>West</u>      | <u>15%</u>   | <u>15%</u>     | 30%          |
| Total:           | 45%          | 55%            | 100%         |

#### **Traffic Assignment**

The general distribution percentages shown in Table 7 were then assigned to specific travel routes that are expected to be used to access the project. These trip assignment percentages are presented in Figure 5. Applying these inbound and outbound percentages to the project trip generation previously calculated in Table 6 for each of the proposed uses, net project traffic volumes at the 20 study intersections were determined for the AM and PM peak hours, as shown in Figures 6(a) and 6(b), respectively. The anticipated peak hour traffic volumes at each of the project driveways are shown in Figure 7.



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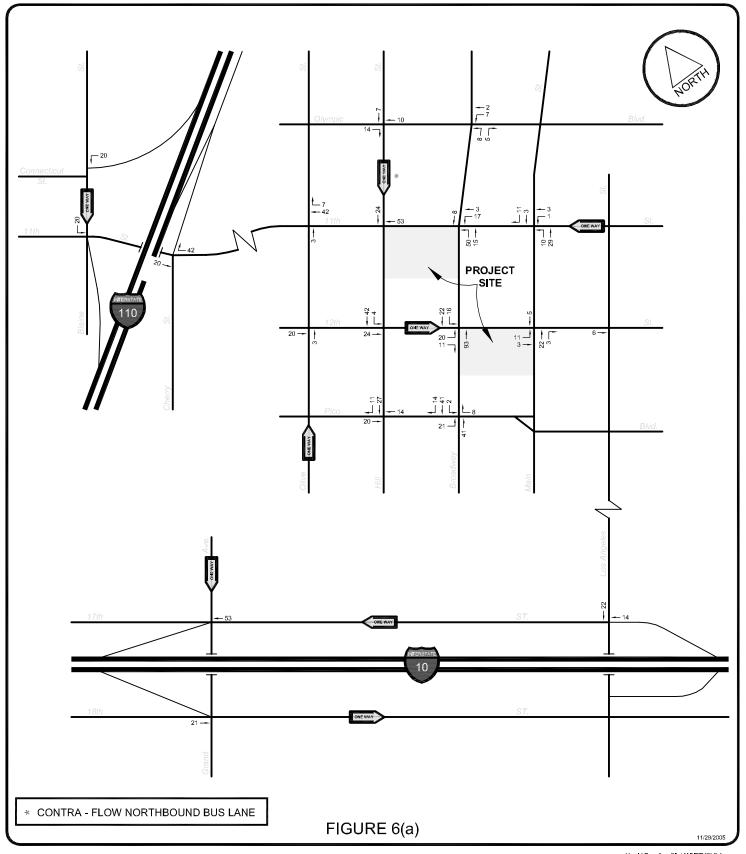
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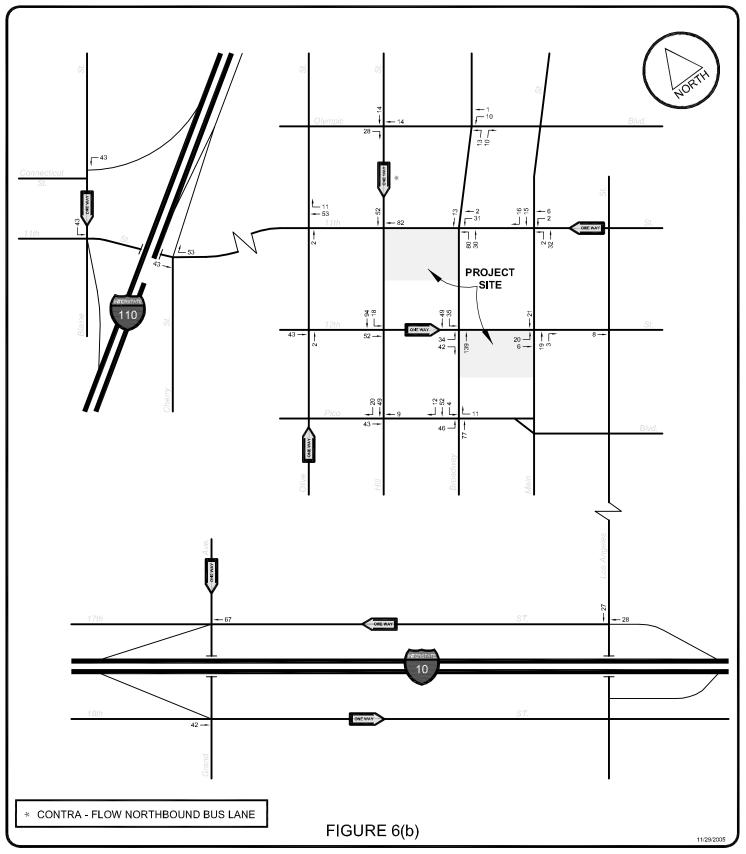
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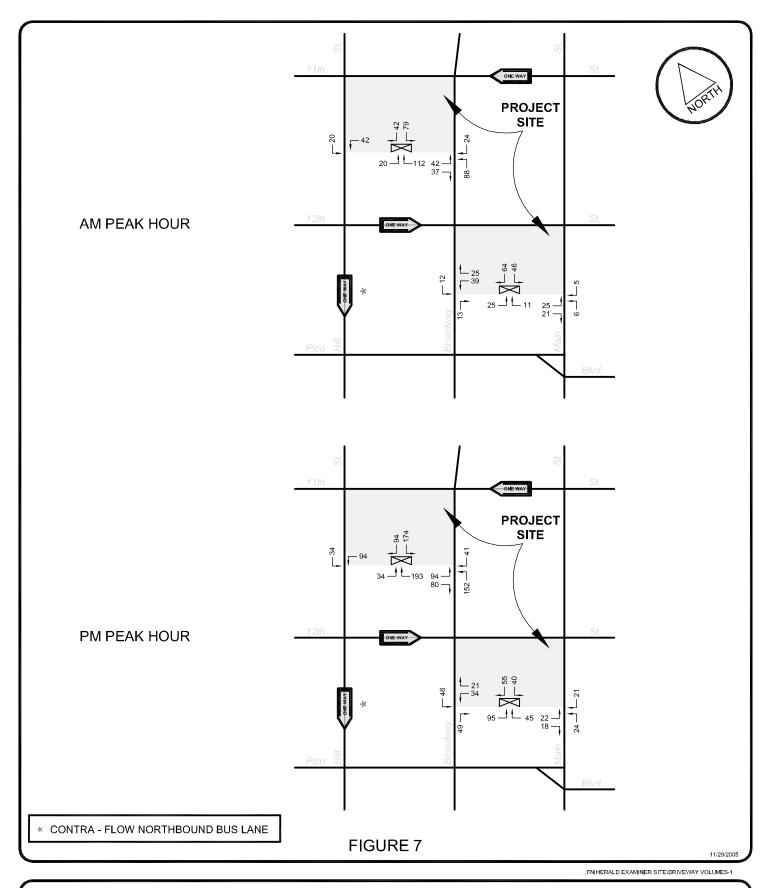
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TOTAL PROJECT DRIVEWAY VOLUMES



#### **CRAIN & ASSOCIATES**

2007 Sawtelle Boulevard Los Angeles, California 90025 (310) 473-6508

Transportation Planning •Traffic Engineering

#### **Parking and Access**

Parking for the Hill Street Site and the adjacent Broadway Site will be accessible via a driveway located on the south side of the site. Access to the parking facilities at the 12<sup>th</sup> Street Site will be provided via a driveway near the south end of the 12<sup>th</sup> Street Site along both the Broadway and Main Street frontages. The project will provide a total of approximately 909 off street parking spaces in two subterranean parking structures, including approximately 422 spaces on the combined Broadway/Hill Street sites and 487 spaces in two subterranean and four above-grade parking levels on the 12<sup>th</sup> Street site. The project will include assigned parking for the residents and guests of the proposed residential units, while the retail/commercial and office parking will occur within the remainder of the project's parking facilities.

The amount of parking required by the City for the project reflects the City of Los Angeles Municipal Code (LAMC) requirements as modified under the City's Downtown Business District parking exception, which requires most commercial uses of over 7,500 square feet, including office and retail, to provide a minimum of one parking space per 1,000 square feet of floor area (LAMC 12.21 A.4 (i)). Commercial uses of less than 7,500 square feet are not required to provide parking.

Residential developments are required to provide parking based on the number of "habitable rooms", which is generally interpreted to correspond to the number of bedrooms in a residence plus two additional rooms (such as a living room and kitchen/dining area). The current parking Code requires one parking space for each unit with less than three habitable rooms (studio/efficiency), and one and one-quarter spaces for each unit with three or more habitable rooms (one or more bedroom), as noted in the LAMC parking exceptions for the Central City area, of which the proposed project is a part (LAMC 12.21 A.4 (p) (1)). No specific requirements for additional "guest" parking beyond those parking ratios noted above are identified in the LAMC.

The applicable LAMC parking requirement calculations for the project, including consideration of the appropriate commercial and residential parking ratios, are summarized in Table 8. As detailed in Table 8, based on these parking requirement ratios, overall, the proposed project would require a total of approximately 727 spaces, including about eight (8) commercial and 719 residential spaces. The project as currently proposed contains a total of 909 spaces.

Table 8
Code Parking Ratios and Required Spaces

| Use                                   | Size                   | Parking<br>Ratio                     | Spaces<br>Required       |
|---------------------------------------|------------------------|--------------------------------------|--------------------------|
| Broadway                              |                        |                                      |                          |
| Retail                                | 39,725 sq. ft.         | n/a <sup>[1]</sup>                   | 0 spaces                 |
| Office                                | 29,000 sq. ft.         | n/a <sup>[1]</sup>                   | 0 spaces                 |
| Retail/Office Total                   | 68,725 sq. ft.         |                                      | 0 spaces                 |
| Total Broadway Parking                | Required               |                                      | 0 spaces                 |
| Hill Street                           |                        |                                      |                          |
| Retail                                | 2,560 sq. ft.          | n/a <sup>[2]</sup>                   | 0 spaces                 |
| Residential<br>1 Bedroom<br>2 Bedroom | 179 units<br>77 units  | 1.25 spaces/unit<br>1.25 spaces/unit | 224 spaces<br>96 spaces  |
| Residential Total                     | 256 units              |                                      | 320 spaces               |
| Total Hill Street Require             | d Parking              |                                      | 320 spaces               |
| 12th Street<br>Retail                 | 8,050 sq. ft.          | 1.0 space/1,000 sq. ft               | 8 spaces                 |
| Residential<br>1 Bedroom<br>2 Bedroom | 185 units<br>134 units | 1.25 spaces/unit<br>1.25 spaces/unit | 231 spaces<br>168 spaces |
| Residential Total                     | 319 units              |                                      | 399 spaces               |
| Total 12th Street Requir              | ed Parking             |                                      | 407 spaces               |
| Total Required Project                | Parking                |                                      | 727 spaces               |

#### Notes:

<sup>[1]</sup> As an existing legal non-conforming use, the Broadway Building does not require on site parking as part of the proposed rehabilitation project. Therefore, the proposed 29,000 square feet of office and 39,725 square feet of retail space proposed within this building are not subject to LAMC parking requirements.

<sup>[2]</sup> Per LAMC 12.21 A.4 (i), commercial uses less than 7,500 square feet are not required to provide parking.

Specifically, the Broadway Site would not require the provision of on site parking, since the existing Herald Examiner Building is a legal non-conforming use that currently provides no on site parking, and would not be required to provide additional parking as a result of the proposed rehabilitation project. The Hill Street portion of the project would require a total of approximately 320 residential spaces only, since the proposed on site retail space is less than 7,500 square feet and will not require parking to be provided. Finally, the 12<sup>th</sup> Street portion of the site requires a total of 407 parking spaces, including approximately eight (8) commercial spaces and 399 residential spaces.

Although the Broadway Site does not require parking, a total of 38 parking spaces will be provided within the Hill Street Site parking structure for the Herald Examiner Building's proposed commercial uses. The Hill Street Site parking structure will also provide a total of 384 additional residential parking spaces, at 1.50 spaces per unit including 0.25 guest spaces per unit, or 64 more than are required. Finally, the 12<sup>th</sup> Street Site will provide a total of 487 spaces, including eight (8) commercial and 479 residential spaces, or 80 residential spaces more than are required. The residential parking for the 12<sup>th</sup> Street Site is also provided at a ratio of 1.50 spaces per unit (including 0.25 guest parking spaces per unit). A summary of the project's parking requirements described above as compared to its proposed parking supply is provided in Table 9, which shows that the proposed project parking supply will meet the City's parking requirements both for the project as a whole, and for each of the individual parcels.

However, although the project will provide adequate on site parking to meet the applicable LAMC parking requirements, a project parking demand analysis was conducted to ensure that adequate on site parking is provided for both the commercial and residential uses. The assumptions, methodology, and results of that supplemental project parking demand analysis are described in the following section. The results of that analysis indicate that the project will be able to meet its on site parking demands, and no significant parking impacts to the surrounding area are anticipated.

Table 9
Required Parking vs. Spaces Provided (by use)

|                    | LAMC<br>Spaces<br>Required | Spaces<br>Provided | Surplus/<br>(Deficit) |
|--------------------|----------------------------|--------------------|-----------------------|
| <u>Broadway</u>    |                            |                    |                       |
| Retail/Office      | 0                          | 38 *               | 38                    |
| Hill Street        |                            |                    |                       |
| Retail             | 0                          | 0                  | 0                     |
| Residential        | 320                        | 384                | 64                    |
| Hill Street Totals | 320                        | 384                | 64                    |
| 12th Street        |                            |                    |                       |
| Retail             | 8                          | 8                  | 0                     |
| Residential        | 399                        | 479                | 80                    |
| 12th Street Totals | 407                        | 487                | 80                    |
| Project Totals     |                            |                    |                       |
| Retail/Office      | 8                          | 8                  | 0                     |
| Residential        | 719                        | 901                | 182                   |
| Project Totals     | 727                        | 909                | 182                   |
|                    |                            |                    |                       |

Note:

#### Project Parking Demand Analysis

The supplemental parking demand analysis was conducted for the project to more accurately describe the parking needs of the site as compared to the more static LAMC parking ratios. The LAMC parking requirements generally identify the average maximum parking need for a given land use, and require that amount of parking throughout the day, whether it is utilized or not. As such, the City parking ratios do not consider the actual time-of-day parking utilizations of the proposed uses, nor do they reflect the unique compatibility of the project's mix of land uses. The proposed project is a fully integrated development, featuring both residential and commercial uses in close

<sup>\*</sup> Broadway Site parking spaces provided within Hill Street Site parking structure.

proximity, which provides substantial opportunities for on site interactions. For these reasons, a detailed "shared use" parking analysis was conducted for the project to better reflect actual parking demands for the site.

The concept of shared parking recognizes that different uses within a project may exhibit unique hourly parking demand fluctuations, and generally do not utilize all of the Code-required parking at most times of the day. Further, the different individual uses may not produce "peak" parking necessary to meet the demands of the entire project. For example, office uses typically exhibit peak parking needs during the midday and early afternoon, but require little to no parking on evenings and throughout the weekend. Retail uses peak during the midday and continue to exhibit moderately high parking needs through the early evenings. Conversely, other land uses such as restaurants are active during the day, but exhibit peak parking utilizations during weekday evening/nighttime and weekend periods. Therefore, some of the parking provided for the office and retail uses can be used to meet the parking demands of restaurants during these times.

In addition to the effects on overall parking demands from these individual parking utilization hourly variation factors, parking code requirements typically are calculated based on "stand alone" development components. As such, they do not include intrinsic reductions in parking demands resulting from "mixed-use" projects, which have two or more symbiotic uses on the same site. These types of projects are generally designed to incorporate multiple uses that compliment each other, so that patrons of one use may visit other uses on the site in a single trip. This "internal interaction" factor allows patrons of the site to shop, dine, or perform multiple tasks during a single visit to the site, all the while using only a single parking space. This factor is identical to the mixed-use reductions assumed for the project trip generation estimates.

Finally, the location of the project lends itself to parking reductions due to patron and employee use of public transit options, and as a result of "walk in" patronage due to the proximity of other off-site developments whose residents and/or employees will visit the project site to shop, dine, or perform other errands. The project site is served by several bus lines, with stops immediately adjacent to or within convenient walking distance. Additionally, the immediate vicinity provides a substantial number of residences and other commercial development from which to draw patrons of the retail and restaurant components of the project. Again, the transit and walk in factors mirror the assumptions applied to the project's trip generation calculations.

Therefore, a parking analysis was conducted for the proposed project to estimate the effects of these factors on the parking needs for the development, independent of the number of spaces required by the LAMC parking ratios. The anticipated "base" parking needs for each of the site's components, prior to adjustment for the mixed use and other factors described above, were based on recommended parking ratios obtained from the Urban Land Institute<sup>2</sup> (ULI), or from other sources, including the LAMC.

The hourly parking accumulation assumptions for the project's retail and office components were taken directly from ULI's "Shared Parking" publication, which documents shared parking research conducted across the country. The publication also provides data on "seasonal variations" in parking demand for several of the uses. For example, peak retail parking demands typically occur during the winter holiday shopping season (Thanksgiving to Christmas), while parking demands during other times of the year are somewhat lower. Conversely, restaurant use generally peaks during the summer months, but is slightly reduced during the winter periods. These factors also affect the amount of parking needed for the various components of mixed use developments, depending on the types of uses proposed.

<sup>&</sup>lt;sup>2</sup> Shared Parking, 2<sup>nd</sup> Edition, Urban Land Institute, Washington, D.C., 2005.

The internal interaction factors accounting for the mixed use nature of the site were estimated based on the size, type of use, and percentage of total development for each of the proposed uses, while the transit/walk in factors were estimated based on number and frequency of bus trips past the site, and potential retail customer base in the surrounding developments. These factors are the same as assumed earlier for the project's trip generation calculations.

The results of the parking demand analysis are shown in Table 10(a) for peak summer conditions and Table 10(b) for the peak winter holiday season scenario. As shown in these tables, although the project will provide somewhat less than the LAMC parking requirements, in general, both sites (Broadway/Hill Street, and 12<sup>th</sup> Street) will provide adequate on site parking to meet their anticipated parking demands, although the Broadway/Hill Street site would experience a nominal parking deficit of between five (5) and nine (9) spaces during the weekday evening period (7:00 to 9:00 PM) of the winter holiday season. However, this maximum anticipated parking demand represents a seasonal parking demand that occurs only about 15 or so times per year during the peak holiday shopping period between Thanksgiving and Christmas. Minor short-term parking deficits during this season should not be confused with inadequate parking for the project under normal peak conditions. As also shown in Tables 10(a) and 10(b), the amount of parking allocated to the commercial uses at both the Broadway/Hill Street site and 12<sup>th</sup> Street site will not be adequate during most periods to meet the expected demands. However, this is a parking allocation issue, and not a parking supply issue, as the total number of parking spaces provided by the project will, with the exception of the nominal Broadway/Hill Street parking deficit discussed above, exceed the anticipated parking demands for both sites during all time periods. As a result, no off-site parking impacts or "overflow" onto adjacent streets or into nearby neighborhoods is anticipated.

Table 10(a)
Shared Parking Demand Calculations – Summer Conditions

| Proposed Dev<br>Use and | •              | Weekday<br>Parking Ratio | Stand-<br>Alone<br>Spaces<br>Required | Internal<br>Capture<br>Factor | Transit/<br>"Walk In"<br>Factor | July<br>Monthly<br>Use<br>Factor | Adjusted<br>Parking<br>Demand |
|-------------------------|----------------|--------------------------|---------------------------------------|-------------------------------|---------------------------------|----------------------------------|-------------------------------|
| Broadway Site           |                |                          |                                       |                               |                                 |                                  |                               |
| Office                  | 39,725 sq. ft. | 2.00 /1,000 sq. ft.      | 79                                    | 5%                            | 5%                              | 100%                             | 71                            |
| Retail                  | 29,000 sq. ft. | 4.00 /1,000 sq. ft.      | 116                                   | 10%                           | 10%                             | 75%                              | 71                            |
|                         |                |                          |                                       | "Baseli                       | ne" Commerc                     | cial Demand                      | 142                           |
| Hill Street Site        |                |                          |                                       |                               |                                 |                                  |                               |
| Condominiums            | 256 -units     | 1.25 /dwelling unit      | 320                                   | 0%                            | 10%                             | 100%                             | 288                           |
| Guests                  |                | 0.25 /dwelling unit      | 64                                    | 0%                            | 0%                              | 100%                             | 64                            |
|                         | 256 -units     |                          | 384                                   | "Baseli                       | ne" Resident                    | ial Demand                       | 352                           |
| Retail                  | 2,560 sq. ft.  | 4.00 /1,000 sq. ft.      | 10                                    | 10%                           | 10%                             | 75%                              | 6                             |
|                         | •              | •                        |                                       | "Baseli                       | cial Demand                     | 6                                |                               |
|                         | Total "Baseliı | ne" Residential/Guest    | Parking Den                           | nand - Broad                  | way & Hill S                    | treet Sites                      | 352 spaces                    |
|                         |                |                          | •                                     | Residential/G                 | -                               |                                  | 384 spaces                    |
|                         | Total "B       | Baseline" Retail/Office  | Parking Den                           | nand - Broad                  | wav & Hill S                    | treet Sites                      | 148 spaces                    |
|                         |                |                          | •                                     | otal Retail/O                 | -                               |                                  | 38 spaces                     |
|                         |                |                          |                                       |                               |                                 |                                  |                               |
| 12th Street Site        |                |                          |                                       |                               |                                 |                                  |                               |
| Condominiums            | 319 -units     | 1.25 /dwelling unit      | 399                                   | 0%                            | 10%                             | 100%                             | 359                           |
| Guests                  |                | 0.25 /dwelling unit      | 80                                    | 0%                            | 0%                              | 100%                             | 80                            |
|                         | 319 -units     |                          | 479                                   | "Baseli                       | ne" Resident                    | ial Demand                       | 439                           |
| Retail                  | 8,050 sq. ft.  | 4.00 /1,000 sq. ft.      | 32                                    | 10%                           | 10%                             | 75%                              | 20                            |
|                         |                |                          |                                       | "Baseli                       | ne" Commerc                     | cial Demand                      | 20                            |
|                         | 7              | Total "Baseline" Resi    | dential/Guest                         | Parking Den                   | nand - 12th S                   | Street Site                      | 439 spaces                    |
|                         |                |                          | Total R                               | Residential/G                 | uest Parking                    | Provided                         | 479 spaces                    |
|                         |                | Total "Ba                | seline" Retail                        | Parking Den                   | nand - 12th S                   | Street Site                      | 20 spaces                     |
|                         |                |                          |                                       | otal Retail/O                 |                                 |                                  | 8 spaces                      |
|                         |                |                          |                                       |                               |                                 |                                  |                               |

# Table 10(a) (continued) Shared Parking Demand Calculations

**Summer Weekday Parking Accumulations** 

|          | Combined Broadway and Hill Street Sites |        |            |           |       |          |       |           |        |           | 12th St | reet Site |       |           |
|----------|---|--------|------------|-----------|-------|----------|-------|-----------|--------|-----------|---------|-----------|-------|-----------|
| Time     |   |        | Total      | Surplus/  | Resi  | dential  | Site  | Surplus/  |        | Surplus/  | Resi    | dential   | Site  | Surplus/  |
| of Day   | Retail                                  | Office | Commercial | (Deficit) | Guest | Reserved | Total | (Deficit) | Retail | (Deficit) | Guests  | Reserved  | Total | (Deficit) |
| 6:00 AM  | 0                                       | 2      | 2          | 36        | 64    | 288      | 354   | 68        | 0      | 8         | 80      | 359       | 439   | 48        |
| 7:00 AM  | 6                                       | 14     | 20         | 18        | 56    | 251      | 327   | 95        | 2      | 6         | 70      | 312       | 384   | 103       |
| 8:00 AM  | 14                                      | 45     | 59         | (21)      | 51    | 228      | 338   | 84        | 4      | 4         | 63      | 284       | 351   | 136       |
| 9:00 AM  | 32                                      | 66     | 98         | (60)      | 47    | 210      | 355   | 67        | 8      | 0         | 58      | 262       | 328   | 159       |
| 10:00 AM | 52                                      | 71     | 123        | (85)      | 44    | 196      | 363   | 59        | 14     | (6)       | 54      | 244       | 312   | 175       |
| 11:00 AM | 67                                      | 71     | 138        | (100)     | 38    | 170      | 346   | 76        | 17     | (9)       | 47      | 212       | 276   | 211       |
| 12:00 PM | 75                                      | 64     | 139        | (101)     | 38    | 173      | 350   | 72        | 19     | (11)      | 48      | 215       | 282   | 205       |
| 1:00 PM  | 77                                      | 64     | 141        | (103)     | 38    | 170      | 349   | 73        | 20     | (12)      | 47      | 212       | 279   | 208       |
| 2:00 PM  | 75                                      | 69     | 144        | (106)     | 38    | 173      | 355   | 67        | 19     | (11)      | 48      | 215       | 282   | 205       |
| 3:00 PM  | 73                                      | 66     | 139        | (101)     | 39    | 176      | 354   | 68        | 19     | (11)      | 49      | 219       | 287   | 200       |
| 4:00 PM  | 67                                      | 55     | 122        | (84)      | 42    | 190      | 354   | 68        | 17     | (9)       | 53      | 237       | 307   | 180       |
| 5:00 PM  | 61                                      | 33     | 94         | (56)      | 49    | 222      | 365   | 57        | 16     | (8)       | 62      | 276       | 354   | 133       |
| 6:00 PM  | 63                                      | 16     | 79         | (41)      | 54    | 245      | 378   | 44        | 16     | (8)       | 68      | 305       | 389   | 98        |
| 7:00 PM  | 69                                      | 5      | 74         | (36)      | 60    | 271      | 405   | 17        | 18     | (10)      | 75      | 337       | 430   | 57        |
| 8:00 PM  | 67                                      | 5      | 72         | (34)      | 61    | 276      | 409 * | 13        | 17     | (9)       | 77      | 345       | 439   | 48        |
| 9:00 PM  | 47                                      | 2      | 49         | (11)      | 63    | 282      | 394   | 28        | 12     | (4)       | 78      | 352       | 442 * | 45        |
| 10:00 PM | 25                                      | 2      | 27         | 11        | 63    | 285      | 375   | 47        | 6      | 2         | 79      | 355       | 440   | 47        |
| 11:00 PM | 10                                      | 0      | 10         | 28        | 64    | 288      | 362   | 60        | 3      | 5         | 80      | 359       | 442 * | 45        |
| 12:00 AM | 0                                       | 0      | 0          | 38        | 64    | 288      | 352   | 70        | 0      | 8         | 80      | 359       | 439   | 48        |

<sup>&</sup>quot;\*" indicates maximum site parking demand (including reserved resident and guest parking).

# Table 10(a) (continued) Shared Parking Demand Calculations

**Summer Weekend Parking Accumulations** 

|          |        |        | Combine    |           |       |          | 12th St | reet Site |        |           |        |          |       |           |
|----------|--------|--------|------------|-----------|-------|----------|---------|-----------|--------|-----------|--------|----------|-------|-----------|
| Time     |        |        | Total      | Surplus/  | Resi  | dential  | Site    | Surplus/  |        | Surplus/  | Resi   | dential  | Site  | Surplus/  |
| of Day   | Retail | Office | Commercial | (Deficit) | Guest | Reserved | Total   | (Deficit) | Retail | (Deficit) | Guests | Reserved | Total | (Deficit) |
| 6:00 AM  | 0      | 0      | 0          | 38        | 64    | 288      | 352     | 70        | 0      | 8         | 80     | 359      | 439 * | 48        |
| 7:00 AM  | 2      | 4      | 6          | 32        | 61    | 274      | 341     | 81        | 1      | 7         | 76     | 341      | 418   | 69        |
| 8:00 AM  | 8      | 11     | 19         | 19        | 56    | 253      | 328     | 94        | 2      | 6         | 70     | 316      | 388   | 99        |
| 9:00 AM  | 23     | 14     | 37         | 1         | 52    | 233      | 322     | 100       | 6      | 2         | 65     | 291      | 362   | 125       |
| 10:00 AM | 35     | 14     | 49         | (11)      | 47    | 213      | 309     | 113       | 9      | (1)       | 59     | 266      | 334   | 153       |
| 11:00 AM | 56     | 18     | 74         | (36)      | 45    | 204      | 323     | 99        | 15     | (7)       | 57     | 255      | 327   | 160       |
| 12:00 PM | 65     | 18     | 83         | (45)      | 45    | 204      | 332     | 90        | 17     | (9)       | 57     | 255      | 329   | 158       |
| 1:00 PM  | 73     | 14     | 87         | (49)      | 45    | 202      | 334     | 88        | 19     | (11)      | 56     | 251      | 326   | 161       |
| 2:00 PM  | 77     | 11     | 88         | (50)      | 45    | 204      | 337     | 85        | 20     | (12)      | 57     | 255      | 332   | 155       |
| 3:00 PM  | 77     | 7      | 84         | (46)      | 47    | 210      | 341     | 81        | 20     | (12)      | 58     | 262      | 340   | 147       |
| 4:00 PM  | 69     | 7      | 76         | (38)      | 48    | 216      | 340     | 82        | 18     | (10)      | 60     | 269      | 347   | 140       |
| 5:00 PM  | 58     | 4      | 62         | (24)      | 52    | 233      | 347     | 75        | 15     | (7)       | 65     | 291      | 371   | 116       |
| 6:00 PM  | 50     | 4      | 54         | (16)      | 54    | 245      | 353     | 69        | 13     | (5)       | 68     | 305      | 386   | 101       |
| 7:00 PM  | 46     | 4      | 50         | (12)      | 56    | 251      | 357     | 65        | 12     | (4)       | 70     | 312      | 394   | 93        |
| 8:00 PM  | 42     | 4      | 46         | (8)       | 59    | 265      | 370 *   | 52        | 11     | (3)       | 74     | 330      | 415   | 72        |
| 9:00 PM  | 31     | 0      | 31         | 7         | 61    | 274      | 366     | 56        | 8      | 0         | 76     | 341      | 425   | 62        |
| 10:00 PM | 29     | 0      | 29         | 9         | 61    | 276      | 366     | 56        | 8      | 0         | 77     | 345      | 430   | 57        |
| 11:00 PM | 10     | 0      | 10         | 28        | 63    | 282      | 355     | 67        | 3      | 5         | 78     | 352      | 433   | 54        |
| 12:00 AM | 0      | 0      | 0          | 38        | 64    | 288      | 352     | 70        | 0      | 8         | 80     | 359      | 439 * | 48        |

<sup>&</sup>quot;\*" indicates maximum site parking demand (including reserved resident and guest parking).

Table 10(b)
Shared Parking Demand Calculations – Winter Holiday Conditions

| Proposed Dev<br>Use and |                | Weekday<br>Parking Ratio | Stand-<br>Alone<br>Spaces<br>Required | Internal<br>Capture<br>Factor | Transit/<br>"Walk In"<br>Factor | July<br>Monthly<br>Use<br>Factor | Adjusted<br>Parking<br>Demand |
|-------------------------|----------------|--------------------------|---------------------------------------|-------------------------------|---------------------------------|----------------------------------|-------------------------------|
| Broadway Site           |                |                          |                                       |                               |                                 |                                  |                               |
| Office                  | 39,725 sq. ft. | 2.00 /1,000 sq. ft.      | 79                                    | 5%                            | 5%                              | 100%                             | 71                            |
| Retail                  | 29,000 sq. ft. | 4.00 /1,000 sq. ft.      | 116                                   | 10%                           | 10%                             | 100%                             | 94                            |
|                         |                |                          |                                       | "Baseli                       | ne" Commerc                     | cial Demand                      | 165                           |
| Hill Street Site        |                |                          |                                       |                               |                                 |                                  |                               |
| Condominiums            | 256 -units     | 1.25 /dwelling unit      | 320                                   | 0%                            | 10%                             | 100%                             | 288                           |
| Guests                  |                | 0.25 /dwelling unit      | 64                                    | 0%                            | 0%                              | 100%                             | 64                            |
|                         | 256 -units     |                          | 384                                   | "Basel                        | ine" Resident                   | ial Demand                       | 352                           |
| Retail                  | 2,560 sq. ft.  | 4.00 /1,000 sq. ft.      | 10                                    | 10%                           | 10%                             | 100%                             | 8                             |
|                         |                |                          |                                       | "Baseli                       | ne" Commerc                     | cial Demand                      | 8                             |
|                         | Total "Baselir | ne" Residential/Guest    | t Parking Den                         | nand - Broad                  | way & Hill S                    | treet Sites                      | 352 spaces                    |
|                         |                |                          | _                                     | Residential/G                 | -                               |                                  | 384 spaces                    |
|                         | Total "B       | Baseline" Retail/Office  | Parking Den                           | nand - Broad                  | way & Hill S                    | treet Sites                      | 173 spaces                    |
|                         |                |                          | T                                     | otal Retail/O                 | ffice Parking                   | Provided                         | 38 spaces                     |
|                         |                |                          |                                       |                               |                                 |                                  |                               |
| 12th Street Site        |                |                          |                                       |                               |                                 |                                  |                               |
| Condominiums            | 319 -units     | 1.25 /dwelling unit      | 399                                   | 0%                            | 10%                             | 100%                             | 359                           |
| Guests                  |                | 0.25 /dwelling unit      | 80                                    | 0%                            | 0%                              | 100%                             | 80                            |
|                         | 319 -units     |                          | 479                                   | "Basel                        | ine" Resident                   | ial Demand                       | 439                           |
| Retail                  | 8,050 sq. ft.  | 4.00 /1,000 sq. ft.      | 32                                    | 10%                           | 10%                             | 100%                             | 26                            |
|                         |                |                          |                                       | "Baseli                       | ne" Commerc                     | cial Demand                      | 26                            |
|                         | 7              | Total "Baseline" Resi    | dential/Guest                         | Parking Der                   | mand - 12th                     | Street Site                      | 439 spaces                    |
|                         |                |                          | Total R                               | Residential/G                 | uest Parking                    | Porvided                         | 479 spaces                    |
|                         |                | Total "Ba                | seline" Retail                        | Parking Der                   | mand - 12th S                   | Street Site                      | 26 spaces                     |
|                         |                |                          | Τ                                     | otal Retail/O                 | ffice Parking                   | Provided                         | 8 spaces                      |

# Table 10(b) (continued) Shared Parking Demand Calculations

Winter Holiday Weekday Parking Accumulations

|          |        |        | Combine    | ed Broadwa |       | 12th Street Site |       |           |        |           |        |          |       |           |
|----------|--------|--------|------------|------------|-------|------------------|-------|-----------|--------|-----------|--------|----------|-------|-----------|
| Time     |        |        | Total      | Surplus/   | Resi  | dential          | Site  | Surplus/  |        | Surplus/  | Resi   | dential  | Site  | Surplus/  |
| of Day   | Retail | Office | Commercial | (Deficit)  | Guest | Reserved         | Total | (Deficit) | Retail | (Deficit) | Guests | Reserved | Total | (Deficit) |
| 6:00 AM  | 0      | 2      | 2          | 36         | 64    | 288              | 354   | 68        | 0      | 8         | 80     | 359      | 439   | 48        |
| 7:00 AM  | 8      | 14     | 22         | 16         | 56    | 251              | 329   | 93        | 2      | 6         | 70     | 312      | 384   | 103       |
| 8:00 AM  | 18     | 45     | 63         | (25)       | 51    | 228              | 342   | 80        | 5      | 3         | 63     | 284      | 352   | 135       |
| 9:00 AM  | 43     | 66     | 109        | (71)       | 47    | 210              | 366   | 56        | 11     | (3)       | 58     | 262      | 331   | 156       |
| 10:00 AM | 69     | 71     | 140        | (102)      | 44    | 196              | 380   | 42        | 18     | (10)      | 54     | 244      | 316   | 171       |
| 11:00 AM | 89     | 71     | 160        | (122)      | 38    | 170              | 368   | 54        | 23     | (15)      | 47     | 212      | 282   | 205       |
| 12:00 PM | 99     | 64     | 163        | (125)      | 38    | 173              | 374   | 48        | 25     | (17)      | 48     | 215      | 288   | 199       |
| 1:00 PM  | 102    | 64     | 166        | (128)      | 38    | 170              | 374   | 48        | 26     | (18)      | 47     | 212      | 285   | 202       |
| 2:00 PM  | 99     | 69     | 168        | (130)      | 38    | 173              | 379   | 43        | 25     | (17)      | 48     | 215      | 288   | 199       |
| 3:00 PM  | 97     | 66     | 163        | (125)      | 39    | 176              | 378   | 44        | 25     | (17)      | 49     | 219      | 293   | 194       |
| 4:00 PM  | 89     | 55     | 144        | (106)      | 42    | 190              | 376   | 46        | 23     | (15)      | 53     | 237      | 313   | 174       |
| 5:00 PM  | 81     | 33     | 114        | (76)       | 49    | 222              | 385   | 37        | 21     | (13)      | 62     | 276      | 359   | 128       |
| 6:00 PM  | 84     | 16     | 100        | (62)       | 54    | 245              | 399   | 23        | 21     | (13)      | 68     | 305      | 394   | 93        |
| 7:00 PM  | 91     | 5      | 96         | (58)       | 60    | 271              | 427   | (5)       | 23     | (15)      | 75     | 337      | 435   | 52        |
| 8:00 PM  | 89     | 5      | 94         | (56)       | 61    | 276              | 431 * | (9)       | 23     | (15)      | 77     | 345      | 445   | 42        |
| 9:00 PM  | 62     | 2      | 64         | (26)       | 63    | 282              | 409   | 13        | 16     | (8)       | 78     | 352      | 446 * | 41        |
| 10:00 PM | 33     | 2      | 35         | 3          | 63    | 285              | 383   | 39        | 8      | O         | 79     | 355      | 442   | 45        |
| 11:00 PM | 13     | 0      | 13         | 25         | 64    | 288              | 365   | 57        | 3      | 5         | 80     | 359      | 442   | 45        |
| 12:00 AM | 0      | 0      | 0          | 38         | 64    | 288              | 352   | 70        | 0      | 8         | 80     | 359      | 439   | 48        |

<sup>&</sup>quot;\*" indicates maximum site parking demand (including reserved resident and guest parking).

# Table 10(b) (continued) Shared Parking Demand Calculations

Winter Holiday Weekend Parking Accumulations

|          |        |        | Combine    | ed Broadwa |       | 12th Street Site |       |           |        |           |        |          |       |           |
|----------|--------|--------|------------|------------|-------|------------------|-------|-----------|--------|-----------|--------|----------|-------|-----------|
| Time     |        |        | Total      | Surplus/   | Resi  | dential          | Site  | Surplus/  |        | Surplus/  | Resi   | dential  | Site  | Surplus/  |
| of Day   | Retail | Office | Commercial | (Deficit)  | Guest | Reserved         | Total | (Deficit) | Retail | (Deficit) | Guests | Reserved | Total | (Deficit) |
| 6:00 AM  | 0      | 0      | 0          | 38         | 64    | 288              | 352   | 70        | 0      | 8         | 80     | 359      | 439 * | 48        |
| 7:00 AM  | 3      | 4      | 7          | 31         | 61    | 274              | 342   | 80        | 1      | 7         | 76     | 341      | 418   | 69        |
| 8:00 AM  | 10     | 11     | 21         | 17         | 56    | 253              | 330   | 92        | 3      | 5         | 70     | 316      | 389   | 98        |
| 9:00 AM  | 31     | 14     | 45         | (7)        | 52    | 233              | 330   | 92        | 8      | 0         | 65     | 291      | 364   | 123       |
| 10:00 AM | 46     | 14     | 60         | (22)       | 47    | 213              | 320   | 102       | 12     | (4)       | 59     | 266      | 337   | 150       |
| 11:00 AM | 74     | 18     | 92         | (54)       | 45    | 204              | 341   | 81        | 19     | (11)      | 57     | 255      | 331   | 156       |
| 12:00 PM | 87     | 18     | 105        | (67)       | 45    | 204              | 354   | 68        | 22     | (14)      | 57     | 255      | 334   | 153       |
| 1:00 PM  | 97     | 14     | 111        | (73)       | 45    | 202              | 358   | 64        | 25     | (17)      | 56     | 251      | 332   | 155       |
| 2:00 PM  | 102    | 11     | 113        | (75)       | 45    | 204              | 362   | 60        | 26     | (18)      | 57     | 255      | 338   | 149       |
| 3:00 PM  | 102    | 7      | 109        | (71)       | 47    | 210              | 366   | 56        | 26     | (18)      | 58     | 262      | 346   | 141       |
| 4:00 PM  | 92     | 7      | 99         | (61)       | 48    | 216              | 363   | 59        | 23     | (15)      | 60     | 269      | 352   | 135       |
| 5:00 PM  | 77     | 4      | 81         | (43)       | 52    | 233              | 366   | 56        | 20     | (12)      | 65     | 291      | 376   | 111       |
| 6:00 PM  | 66     | 4      | 70         | (32)       | 54    | 245              | 369   | 53        | 17     | (9)       | 68     | 305      | 390   | 97        |
| 7:00 PM  | 61     | 4      | 65         | (27)       | 56    | 251              | 372   | 50        | 16     | (16)      | 70     | 312      | 398   | 89        |
| 8:00 PM  | 56     | 4      | 60         | (22)       | 59    | 265              | 384 * | 38        | 14     | (6)       | 74     | 330      | 418   | 69        |
| 9:00 PM  | 41     | 0      | 41         | (3)        | 61    | 274              | 376   | 46        | 10     | (2)       | 76     | 341      | 427   | 60        |
| 10:00 PM | 39     | 0      | 39         | (1)        | 61    | 276              | 376   | 46        | 10     | (2)       | 77     | 345      | 432   | 55        |
| 11:00 PM | 13     | 0      | 13         | 25         | 63    | 282              | 358   | 64        | 3      | 5         | 78     | 352      | 433   | 54        |
| 12:00 AM | 0      | 0      | 0          | 38         | 64    | 288              | 352   | 70        | 0      | 8         | 80     | 359      | 439 * | 48        |

<sup>&</sup>quot;\*" indicates maximum site parking demand (including reserved resident and guest parking).

#### **FUTURE TRAFFIC CONDITIONS**

There are a number of projects either under construction or planned for development in the project vicinity which may contribute to traffic volumes in the study area. For this reason, the analysis of future traffic conditions has been expanded to include potential traffic volume increases expected to be generated by projects that have not yet been developed. In order to evaluate future (year 2010) traffic conditions in the project area, an ambient traffic growth factor of 1.0 percent per year, compounded annually, was applied to the existing (2005) traffic volumes at the 20 study intersections.

The result provides the "baseline" traffic volumes for the analysis of future (2010) conditions. Although the inclusion of the annual growth factor usually accounts for areawide traffic increases, for the purposes of providing a conservative analysis, the traffic generated by "related projects" in the study area was also added to the future baseline traffic volumes. The total future volumes, including related projects, provide the basis for the "Without Project" condition. Finally, project traffic was analyzed as an incremental addition to the Future (2010) "Without Project" condition to determine the Future (2010) "With Project" condition.

#### **Ambient Traffic Growth**

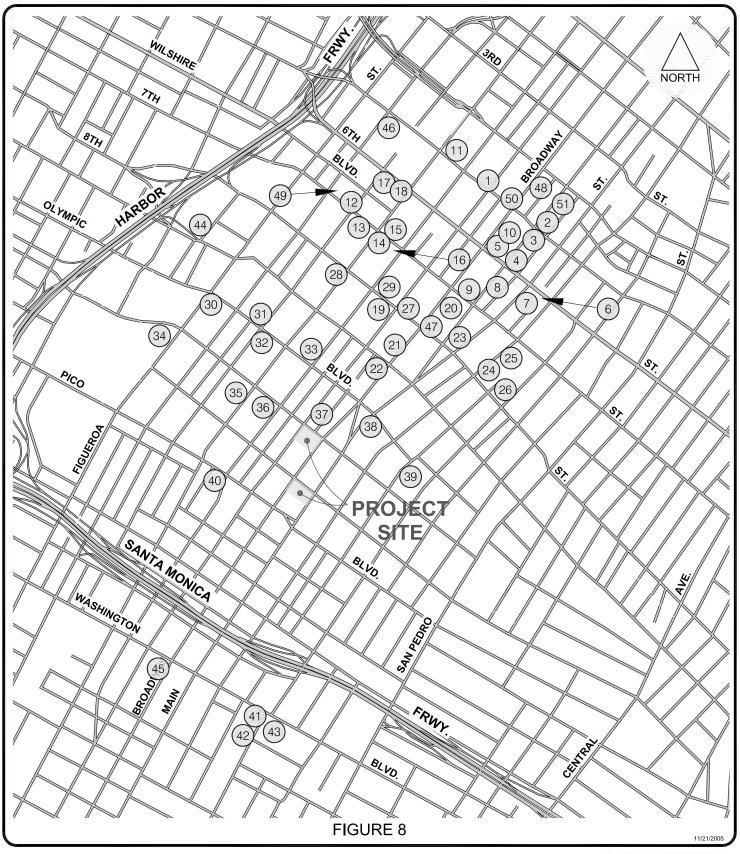
Based on analyses of the trends in traffic growth in the downtown Los Angeles area over the last several years, as documented in the Los Angeles County Congestion Management Program (CMP), LADOT has determined that an annual traffic growth factor of 1.0 percent is reasonable. This growth factor is used to account for increases in traffic resulting potential development projects not yet proposed or outside of the study area. The ambient traffic growth factor was applied to the existing 2005 traffic volumes to develop the estimated volumes for the future (2010) baseline conditions.

#### **Related Projects**

In addition to the use of the 1.0 percent ambient growth rate, listings of potential projects located in the study area ("related projects") that might be developed within the study time frame were obtained from LADOT, the City of Los Angeles Planning Department, Los Angeles Unified School District (LAUSD), and recent studies of projects in the area. A review of the information currently available indicated that a total of 51 individual projects near the project might add traffic to the study intersections. As noted previously, the ambient traffic growth rate is expected to accurately represent all area traffic growth within the study period, and as such, the inclusion of the 51 related projects in addition to assumed background traffic growth may tend to overstate cumulative conditions.

The locations of these related projects are shown in Figure 8, and the projects are listed and described in Table 11. This list of cumulative projects accurately reflects the related project proposals at the time of preparation of this document. The number of trips expected to be generated by the related projects was determined by applying the appropriate trip generation rates and equations from the ITE <u>Trip Generation</u>, 7th Edition manual, or were obtained from LADOT records. The ITE trip generation rates and equations are provided in Appendix B. The related project trip generation estimates are summarized in Table 12.

For the analysis of future (2010) "Without Project" traffic conditions, the related projects trip generation was assigned to the study area circulation system, using methodologies similar to those previously described for project trip assignment. The total related projects traffic volumes assigned to the study intersections are illustrated in Figures 9(a) and 9(b) for the AM and PM peak hours, respectively.



FN: HERALD EXAMINER SITE/RELPROJS

RELATED PROJECTS LOCATION MAP



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# Table 11 Related Projects Descriptions

| Map<br>No. | Location/Address              | Des                            | scription (Size/Use)                    |
|------------|-------------------------------|--------------------------------|---|
| 1.         | 411 W. 5th Street             | 74 unit                        | Apartment                               |
| 2.         | 458 S. Spring Street          | 209 unit                       | Apartment                               |
| 3.         | 510 S. Spring Street          | 153 unit                       | Apartment                               |
| 4.         | 548 S. Spring Street          | 157 unit                       | Apartment                               |
| 5.         | 540 S. Broadway               | 143 unit                       | Apartment                               |
| 6.         | 600-610 S. Main Street        | 314 unit                       | Apartment                               |
| 7.         | 620 S. Main Street            | 35 unit                        | Apartment                               |
| 8.         | 618-620 S. Spring Street      | 36 unit                        | Apartment                               |
| 9.         | 219-225 W. 7th Street         | 73 unit                        | Apartment                               |
| 10.        | 510 S. Broadway               | 32 unit                        | Apartment                               |
| 11.        | 565 W. 5th Street             | 10 unit                        | Apartment                               |
| 12.        | 655 S. Hope Street            | 90 unit                        | Apartment                               |
| 13.        | 600 W. 7th Street             | 70 unit                        | Apartment                               |
| 14.        | 520 W. 7th Street             | 76 unit                        | Apartment                               |
| 15.        | 515 7th Street                | 8,891 sq. ft.<br>7,668 sq. ft. | Quality Restaurant<br>Bar               |
| 16.        | 500-518 W. 7th Street         | 55 unit                        | Apartment                               |
| 17.        | 630 W. 6th Street             | 90 unit                        | Apartment                               |
| 18.        | 609 S. Grand Avenue           | 94 unit                        | Apartment                               |
| 19.        | 416-432 W. 8th Street         | 110 unit                       | Apartment                               |
| 20.        | 740 S. Broadway               | 12,500 sq. ft.                 | Dancing Hall                            |
| 21.        | 849 S. Broadway               | 147 unit                       | Apartment                               |
| 22.        | 901-909 S. Broadway           | 82 unit                        | Apartment                               |
| 23.        | 756 S. Spring Street          | 84 unit                        | Apartment                               |
| 24.        | 752-756 S. Los Angeles Street | 45 unit                        | Apartment                               |
| 25.        | 738-750 S. Los Angeles Street | 308 unit                       | Apartment                               |
| 26.        | 315-317 E. 8th Street         | 64 unit                        | Apartment                               |
| 27.        | 760 S. Hill Street            | 92 unit                        | Apartment                               |
| 28.        | 801-803 S. Grand Avenue       | 132 unit                       | Apartment                               |
| 29.        | 485 W. 8th Street             | 8 unit                         | Apartment                               |
| 30.        | 730 W. Olympic Boulevard      | 2,307 sq. ft.                  | Fast-Food Restaurant with Drive-Through |
| 31.        | 605 W. Olympic Boulevard      | 7,142 sq. ft.                  | Quality Restaurant/Night Club           |

# Table 11 (continued) Related Projects Descriptions

| Map<br>No. | Location/Address   | Description (Size/Use)   |  |  |  |  |
|------------|--|--|--|--|--|--|
| 32.        | 1000 S. Hope Street  | 116 unit   | Apartment  |  |  |  |
| 33.        | 409 W. Olympic Boulevard   | 78 unit  | Apartment  |  |  |  |
| 34.        | Staples Entertainment Center [1] Figueroa Street and 11th Street | 1,800 room<br>7,000 seat   | Hotel<br>Live Theater  |  |  |  |
|            |  | 195,000 sq. ft.<br>265,000 sq. ft.<br>385,000 sq. ft.<br>125,000 sq. ft.<br>165,000 sq. ft.<br>135,000 sq. ft.<br>800 unit | Entertainment Restaurants Retail Health Club General Office Medical Office Residential |  |  |  |
| 35.        | 1111 S. Grand Avenue   | 417 unit<br>15,000 sq. ft.   | Condominium<br>Retail  |  |  |  |
| 36.        | 330 W. 11th Street   | 66 unit  | Apartment  |  |  |  |
| 37.<br>38. | 1050 S. Hill Street<br>1022 S. Main Street                       | 33,423 sq. ft.<br>32,533 sq. ft.<br>7,909 sq. ft.  | Theater<br>Retail<br>Storage   |  |  |  |
| 39.        | 1010 S. Santee Street  | 7 unit   | Apartment  |  |  |  |
| 40.        | 1301 Olive Street  | 105 unit<br>4,500 sq. ft.  | Condominium<br>Retail  |  |  |  |
| 41.        | 1921 S. Maple Avenue   | 2,112 student  | South Central LA Area<br>New High School No. 1 [2]                                     |  |  |  |
| 42.        | 1921 S. Maple Avenue   | 87 student   | High School  |  |  |  |
| 43.        | 408 E. Washington Boulevard                                      | 143 unit   | Condominium [3]  |  |  |  |
| 44.        | Metropolis [4]<br>8th Street and San Francisco Street            | 836 unit<br>893,225 sq. ft.<br>480 room<br>46,000 sq. ft.<br>95,000 sq. ft.  | Condominium<br>Office<br>Hotel<br>Retail<br>Museum                                     |  |  |  |
| 45.        | <u>LA Mart <sup>[5]</sup></u><br>1933 Broadway                   | 285,000 sq. ft.  |  |  |  |  |
| 46.        | 506 S. Grand Avenue  | 140 unit   | Apartment  |  |  |  |
| 47.        | 756 S. Broadway  | 46 unit  | Apartment  |  |  |  |
| 48.        | 424-426 S. Broadway  | 54 unit  | Apartment  |  |  |  |
| 49.        | 727 W. 7th Street  | 221 unit   | Apartment  |  |  |  |

### Table 11 (continued) Related Projects Descriptions

| Map<br>No. | Location/Address      | Description (Size/Use) |           |  |
|------------|-----------------------|------------------------|-----------|--|
| 50.        | 315-317 W. 5th Street | 84 unit                | Apartment |  |
| 51.        | 416 S. Spring Street  | 66 unit                | Apartment |  |

#### Sources:

- [1] L.A. Entertainment District EIR Traffic Study, The Mobility Group with Kaku Associates, January 2001.
- [2] School No. 1A (Adapted) and Jefferson Continuation High School, Jones & Stokes, December 2001.
- [3] Traffic Analysis for proposed Residential Development at 408 East Washington Boulevard, City of Los Angeles, Crain & Associates, November 2004.
- [4] Traffic Impact Study and Parking Analysis for the Metropolis Mixed-Use project, Crain & Associates, February 2005.
- [5] Traffic and Parking Impact Study for the proposed Suites at the LA Mart, Crain & Associates, August 2001.

Table 12
Related Projects Trip Generation

| Мар |                                |   |            | AM Peak Hour |          | PM Peak Hour |          |
|-----|--------------------------------|---|------------|--------------|----------|--------------|----------|
| No. |                                | Description (Size/Use)                  | Daily      | ln           | Out      | In           | Out      |
| 1.  | 74 unit                        | Apartment                               | 497        | 8            | 30       | 30           | 16       |
| 2.  | 209 unit                       | Apartment                               | 1,404      | 21           | 86       | 85           | 45       |
| 3.  | 153 unit                       | Apartment                               | 1,028      | 16           | 62       | 62           | 33       |
| 4.  | 157 unit                       | Apartment                               | 1,055      | 16           | 64       | 63           | 34       |
| 5.  | 143 unit                       | Apartment                               | 961        | 15           | 58       | 58           | 31       |
| 6.  | 314 unit                       | Apartment                               | 2,110      | 32           | 128      | 127          | 68       |
| 7.  | 35 unit                        | Apartment                               | 235        | 4            | 14       | 14           | 8        |
| 8.  | 36 unit                        | Apartment                               | 242        | 4            | 14       | 14           | 8        |
| 9.  | 73 unit                        | Apartment                               | 491        | 7            | 30       | 29           | 16       |
| 10. | 32 unit                        | Apartment                               | 215        | 3            | 13       | 13           | 7        |
| 11. | 10 unit                        | Apartment                               | 67         | 1            | 4        | 4            | 2        |
| 12. | 90 unit                        | Apartment                               | 605        | 9            | 37       | 36           | 20       |
| 13. | 70 unit                        | Apartment                               | 470        | 7            | 29       | 28           | 15       |
| 14. | 76 unit                        | Apartment                               | 511        | 8            | 31       | 31           | 16       |
| 15. | 8,891 sq. ft.<br>7,668 sq. ft. |   | 800<br>690 | 59<br>51     | 13<br>11 | 45<br>57     | 22<br>30 |
|     |                                |   | 1,490      | 110          | 24       | 102          | 52       |
| 16. | 55 unit                        | Apartment                               | 370        | 6            | 22       | 22           | 12       |
| 17. | 90 unit                        | Apartment                               | 605        | 9            | 37       | 36           | 20       |
| 18. | 94 unit                        | Apartment                               | 632        | 10           | 38       | 38           | 20       |
| 19. | 110 unit                       | Apartment                               | 739        | 11           | 45       | 44           | 24       |
| 20. | 12,500 sq. ft.                 | Dancing Hall                            | 412        | 6            | 9        | 26           | 25       |
| 21. | 147 unit                       | Apartment                               | 988        | 15           | 60       | 59           | 32       |
| 22. | 82 unit                        | Apartment                               | 551        | 8            | 34       | 33           | 18       |
| 23. | 84 unit                        | Apartment                               | 564        | 9            | 34       | 34           | 18       |
| 24. | 45 unit                        | Apartment                               | 302        | 5            | 18       | 18           | 10       |
| 25. | 308 unit                       | Apartment                               | 2,070      | 31           | 126      | 124          | 67       |
| 26. | 64 unit                        | Apartment                               | 430        | 7            | 26       | 26           | 14       |
| 27. | 92 unit                        | Apartment                               | 618        | 9            | 38       | 37           | 20       |
| 28. | 132 unit                       | Apartment                               | 887        | 13           | 54       | 53           | 29       |
| 29. | 8 unit                         | Apartment                               | 54         | 1            | 3        | 3            | 2        |
| 30. | 2,307 sq. ft.                  | Fast-Food Restaurant with Drive-Through | 1,145      | 63           | 60       | 42           | 38       |
| 31. | 7,142 sq. ft.                  | Quality Restaurant/Night Club           | 642        | 48           | 10       | 36           | 17       |

#### Table 12 (continued) Related Projects Trip Generation

| No.         Description (Size/Use)         Daily         In         C           32.         116 unit Apartment         780         12           33.         78 unit Apartment         524         8           34.         Staples Entertainment Center [1] | Out 47 32        | In<br>47  | <b>Out</b> 25 |
|--|------------------|-----------|---------------|
| 33. 78 unit Apartment 524 8 34. Staples Entertainment Center [1]   |                  | 47        | 25            |
| 34. <u>Staples Entertainment Center [1]</u>  | 32               |           | 20            |
| 34. <u>Staples Entertainment Center [1]</u>  |                  | 31        | 17            |
|  |                  |           |               |
|  | 393              | 277       | 245           |
| 7,000 seat Live Theater 12,320 56  | 14               | 63        | 63            |
| 195,000 sq. ft. Entertainment 17,540 95  | 63               | 121       | 71            |
| 265,000 sq. ft. Restaurants 23,837 129   | 86               | 586       | 289           |
| 385,000 sq. ft. Retail 16,311 214  | 137              | 373       | 404           |
| 125,000 sq. ft. Health Club 4,116 64   | 87               | 212       | 136           |
| 165,000 sq. ft. General Office 1,962 246   | 34<br>71         | 40<br>93  | 198           |
| 135,000 sq. ft. Medical Office 4,878 264<br>800 unit Residential 3,360 60  | 180              | 93<br>116 | 250<br>74     |
|  | ,065             | 1,881     | 1,731         |
| 35. 417 unit Condominium 2,444 31  | 152              | 145       | 72            |
| 15,000 sq. ft. Retail  | <u>19</u><br>171 | 86<br>231 | 93<br>165     |
| 36. 66 unit Apartment 444 7  | 27               | 27        | 14            |
| 37. 33,423 sq. ft. Theater 2,609 6   | 1                | 194       | 12            |
| 38. 32,533 sq. ft. Retail 3,273 49   | 31               | 143       | 155           |
| 7,909 sq. ft. Storage  | <u>-</u>         | 1         | 1             |
| 3,293 50   | 31               | 144       | 156           |
| 39. 7 unit Apartment 47 1  | 3                | 3         | 1             |
| 40. 105 unit Condominium 615 8   | 38               | 37        | 18            |
| 4,500 sq. ft. Retail 905 15  | 9                | 39        | 42            |
| 1,520 23   | 47               | 76        | 60            |
| 41. 2,112 studen South Central LA Area 3,528 478  New High School No. 1 [2]  | 375              | 139       | 157           |
| 42. 87 studen High School 149 25   | 11               | 6         | 6             |
| 43. 143 unit Condominium [3] 628 8   | 39               | 37        | 18            |
| 44. <u>Metropolis <sup>[4]</sup></u> 10,274 303  | 329              | 519       | 624           |
| 836 unit Condominium   |                  |           |               |
| 893,225 sq. ft. Office   |                  |           |               |
| 480 room Hotel   |                  |           |               |
| 46,000 sq. ft. Retail<br>95,000 sq. ft. Museum   |                  |           |               |
|  |                  |           |               |
| 45. <u>LA Mart <sup>[5]</sup></u> non 285,000 sq. ft.  | ninai            |           |               |
| 46. 140 unit Apartment 941 14  | 57               | 57        | 30            |
| 47. 46 unit Apartment 309 5  | 18               | 19        | 10            |
| 48. 54 unit Apartment 363 6  | 22               | 21        | 12            |
| 49. 221 unit Apartment 1,485 23  | 90               | 89        | 48            |

### Table 12 (continued) Related Projects Trip Generation

| Мар |         |                        |       | <b>AM Peak Hour</b> |     | <b>PM Peak Hour</b> |     |
|-----|---------|------------------------|-------|---------------------|-----|---------------------|-----|
| No. |         | Description (Size/Use) | Daily | In                  | Out | In                  | Out |
| 50. | 84 unit | Apartment              | 564   | 9                   | 34  | 34                  | 18  |
| 51. | 66 unit | Apartment              | 444   | 7                   | 27  | 27                  | 14  |

#### Sources:

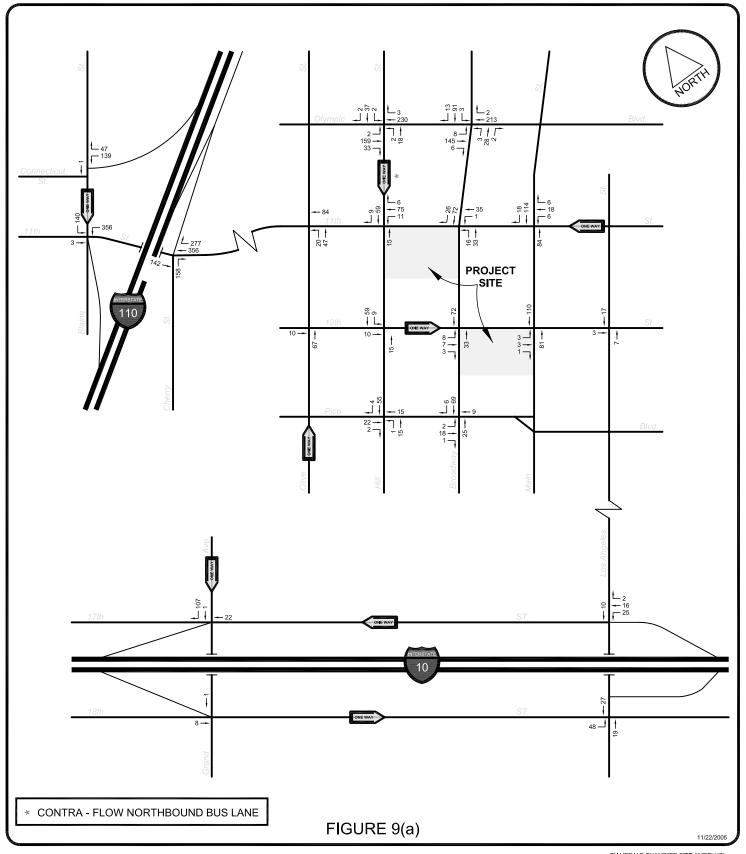
<sup>[1]</sup> L.A. Entertainment District EIR Traffic Study, The Mobility Group with Kaku Associates, January 2001.

<sup>[2]</sup> Draft Environmental Impact Report for the South Central Los Angeles Area New High School No. 1A (Adapted) and Jefferson Continuation High School, Jones & Stokes, December 2001.

<sup>[3]</sup> Traffic Analysis for proposed Residential Development at 408 East Washington Boulevard, City of Los Angeles, Crain & Associates, November 2004.

<sup>[4]</sup> Traffic Impact Study and Parking Analysis for the Metropolis Mixed-Use project, Crain & Associates, February 2005.

<sup>[5]</sup> Traffic and Parking Impact Study for the proposed Suites at the LA Mart, Crain & Associates, August 2001.



:FN HERALD EXAMINER SITE/AMRELVOL

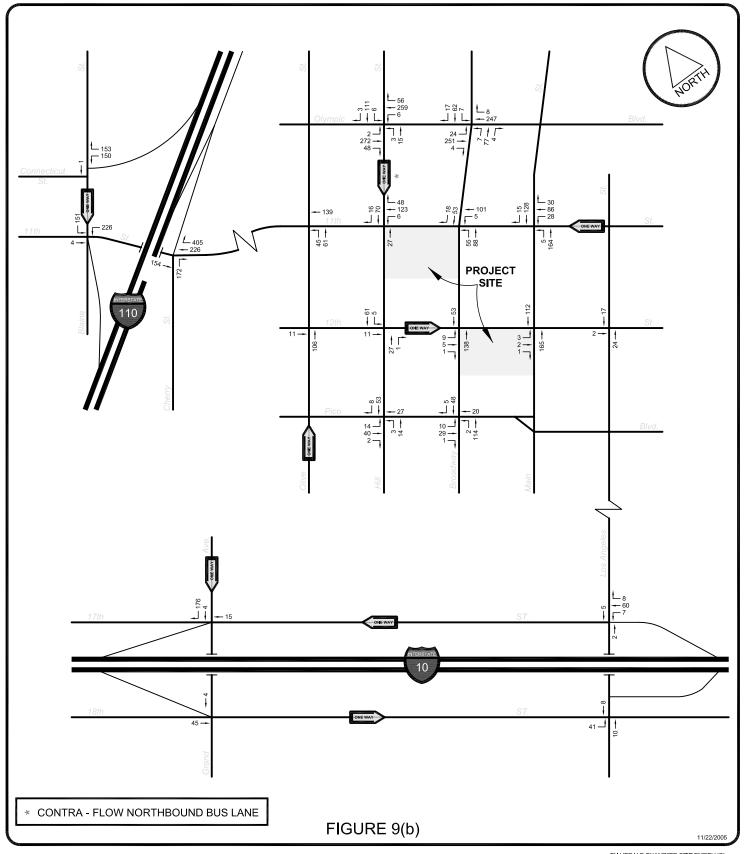
FUTURE (2010) TRAFFIC VOLUMES TOTAL RELATED PRÓJECTS TRAFFIC VOLUMES AM PEAK HOUR



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FUTURE (2010) TRAFFIC VOLUMES TOTAL RELATED PRÓJECTS TRAFFIC VOLUMES PM PEAK HOUR



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#### **Highway System Improvements**

In order to accurately forecast future traffic conditions in the project area, an investigation into anticipated transportation improvements to the street system serving the project vicinity was also conducted. A review of the City of Los Angeles Capital Improvement Program (CIP), 2004/05 – 2006/07 revealed that no improvement projects are scheduled for implementation that would significantly affect the transportation system in the study area.

In addition, Caltrans Project Study Reports (PSR's) were reviewed to determine the transportation improvements planned for the freeway network serving the project vicinity. Several improvements along the Harbor Freeway (I-110) were the subject of the PSR. The first is an improvement to the northbound I-110 to provide additional capacity and merging/weaving area between the I-110/I-10 interchange and approximately 6<sup>th</sup> Street. This project will create an additional "mainline" freeway lane between the mainline/auxiliary lane "split" and the mainline/auxiliary lane "crossover" south of 6<sup>th</sup> Street, as well as relocate the existing "decision point" for choosing the main line or auxiliary lanes farther north. Reconstruction and realignment of the 9<sup>th</sup> Street onramp is also included in the northbound SR-110 freeway improvements. This project will also include the reconstruction of the 9<sup>th</sup> Street off-ramp from the northbound Harbor Freeway to add capacity on the off-ramp to 9<sup>th</sup> Street.

The second relevant project that is subject of a current PSR is an improvement to the southbound I-110 that includes the addition of an auxiliary lane from the 8<sup>th</sup> Street on-ramp to the I-10 interchange. The 8<sup>th</sup> Street on-ramp will also be realigned to provide additional merge/weave distance for better access from the on-ramp auxiliary lane to the southbound I-110.

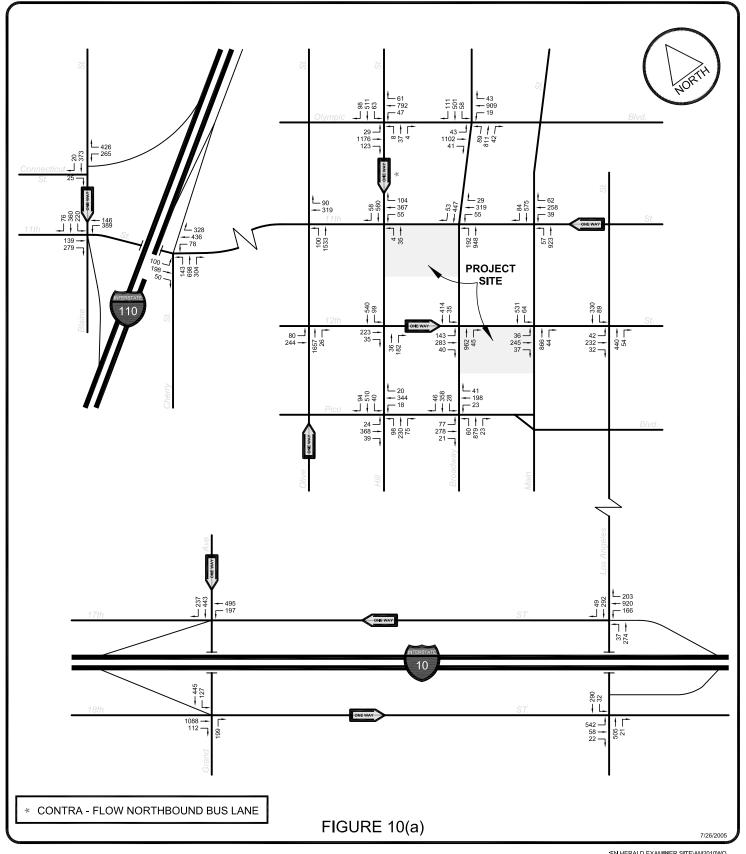
The improvements have been approved by Caltrans and funding for their construction has been obtained. It should be noted that although other potential future improvements along the Harbor Freeway through downtown Los Angeles have been identified by Caltrans, their implementation is not considered reasonably assured.

The future improvement most likely to affect the project area is the Figueroa Corridor Economic Development Strategy. Currently, Figueroa Street operates as a one-way northbound arterial in the study area, and is a counter couplet to southbound Flower Street. The proposed improvement would convert Figueroa Street south of 9th Street to a two-way facility and provide three lanes in each direction. Left-turn channelization would be provided at major intersections only. The purpose of this improvement would be to revitalize Figueroa Street so that it would function more effectively as a local street in the surrounding area and as a regional route in the Los Angeles area.

#### **Analysis of Future Traffic Conditions (Without and With Project)**

The analysis of future traffic conditions at the study intersections was performed using the same analysis procedures described previously in this report. For the analysis of future project traffic impacts, the current roadway system's geometric and signal operation characteristics were assumed to prevail.

As described earlier, future (2010) baseline traffic volumes for the "Without Project" condition were determined by combining area ambient traffic growth with the total related projects traffic volumes. The Future (2010) "Without Project" traffic volumes are illustrated in Figures 10(a) and 10(b) for the AM and PM peak hours, respectively. Traffic volumes generated by the project, as determined earlier, were then added to these baseline volumes to develop the Future (2010) "With Project" condition to determine traffic impacts directly attributable to the project. Morning and afternoon peak hour traffic volumes are shown in Figures 11(a) and 11(b), respectively.



:FN HERALD EXAMINER SITE\AM2010WO

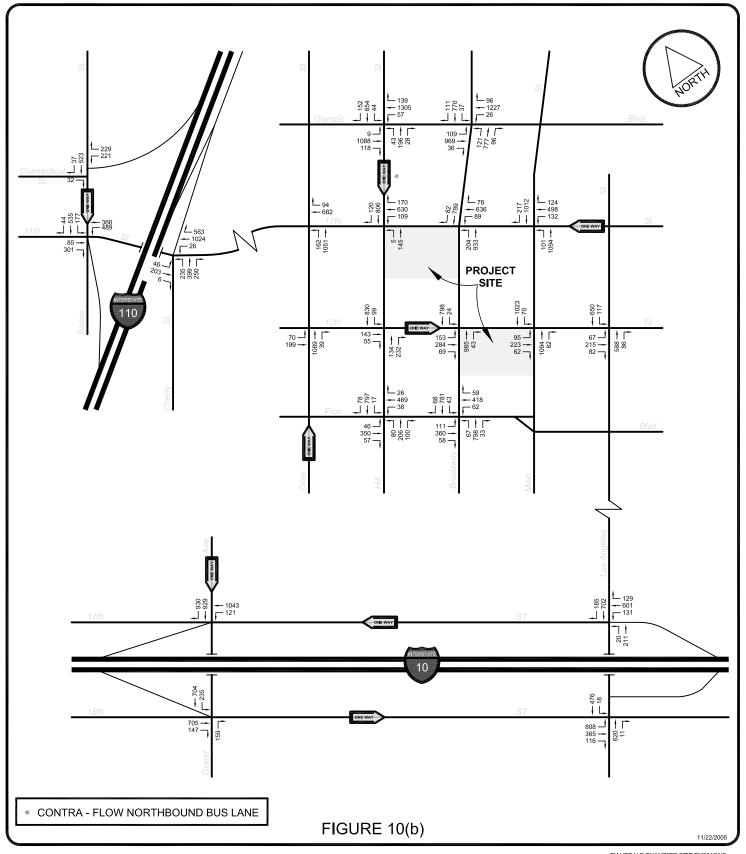
FUTURE (2010) TRAFFIC VOLUMES WITHOUT PROJECT AM PEAK HOUR



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:FN HERALD EXAMINER SITE\PM2010WO

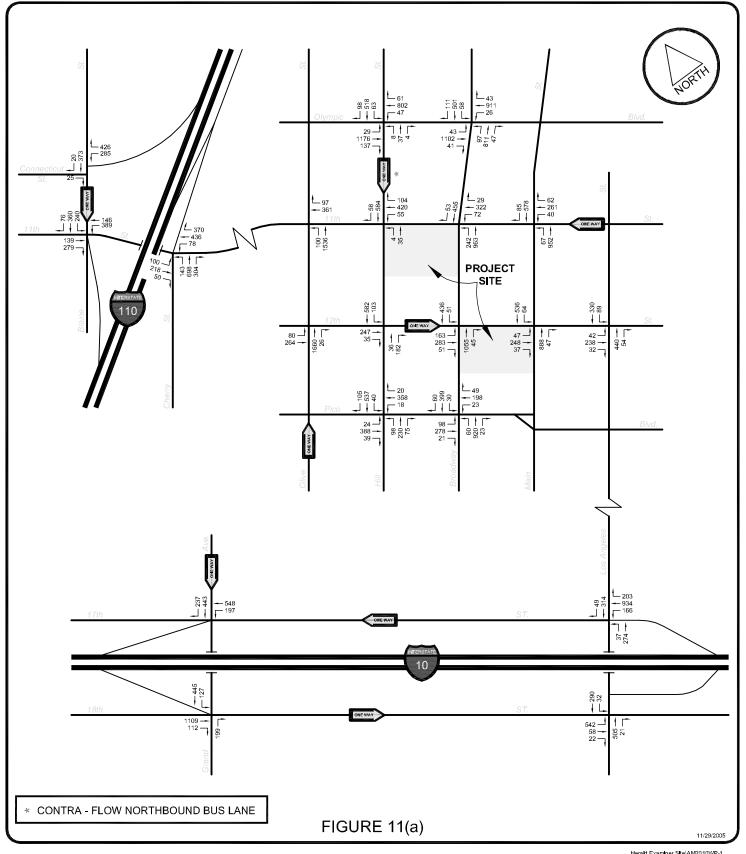
**FUTURE (2010) TRAFFIC VOLUMES** WITHOUT PROJECT PM PEAK HOUR



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Herald Examiner Site\AM2010WP-1

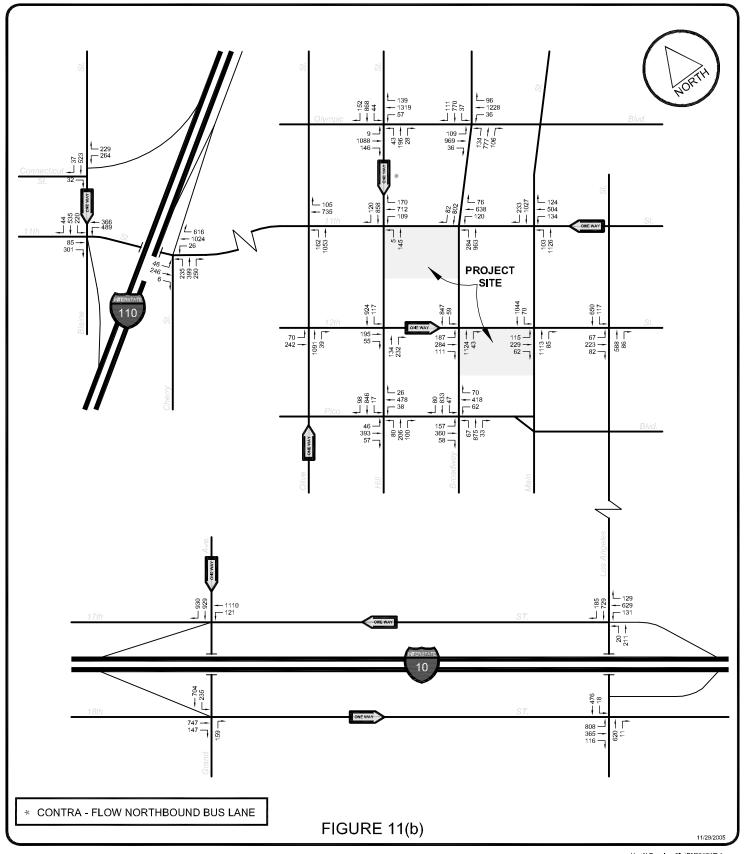
**FUTURE (2010) TRAFFIC VOLUMES** WITH PROJECT **AM PEAK HOUR** 



## **CRAIN & ASSOCIATES**

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**FUTURE (2010) TRAFFIC VOLUMES** WITH PROJECT PM PEAK HOUR



## **CRAIN & ASSOCIATES**

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The results of the analysis of future traffic conditions at the study intersections are summarized in Table 13. The CMA calculation worksheets for future conditions are included in Appendix C. As shown Table 13, all 20 study intersections will continue to operate at good levels of service (LOS A through C) in the future year 2010, both with and without the project. Traffic conditions at four of the study intersections are forecast to deteriorate to LOS C during the PM peak hour and the intersection of 11<sup>th</sup> Street/Chick Hearn Court and Cherry Street/I-110 NB On-Ramp is expected to operate at LOS C during the AM peak hour. The remaining intersections are expected to continue to operate at LOS A and LOS B during both peak hours.

Table 13
Critical Movement Analysis (CMA) Summary
Future (2010) Without and With Project Traffic Conditions

|     |  |          | With           | out    |                |        |                |  |
|-----|--|----------|----------------|--------|----------------|--------|----------------|--|
|     |  | Peak     | Proj           | ect    | With Project   |        |                |  |
| No. | Intersection   | Hour     | CMA            | LOS    | CMA            | LOS    | Impact         |  |
| 1.  | Olympic Boulevard and  | AM       | 0.481          | A      | 0.487          | A      | 0.006          |  |
|     | Hill Street  | PM       | 0.696          | B      | 0.704          | C      | 0.008          |  |
| 2.  | Olympic Boulevard and  | AM       | 0.605          | B      | 0.613          | B      | 0.008          |  |
|     | Broadway   | PM       | 0.756          | C      | 0.778          | C      | 0.022          |  |
| 3.  | I-110 SB Off-Ramp and  | AM       | 0.273          | A      | 0.284          | A      | 0.011          |  |
|     | Blaine Street/Connecticut Street                                 | PM       | 0.299          | A      | 0.323          | A      | 0.024          |  |
| 4.  | 11th Street and  | AM       | 0.557          | A      | 0.561          | A      | 0.004          |  |
|     | Blaine Street  | PM       | 0.700          | B      | 0.700          | B      | 0.000          |  |
| 5.  | 11th Street/Chick Hearn Court and Cherry Street/I-110 NB On-Ramp | AM<br>PM | 0.734<br>0.647 | C<br>B | 0.765<br>0.686 | C<br>B | 0.031<br>0.039 |  |
| 6.  | 11th Street and  | AM       | 0.337          | A      | 0.349          | A      | 0.012          |  |
|     | Olive Avenue   | PM       | 0.382          | A      | 0.398          | A      | 0.016          |  |
| 7.  | 11th Street and  | AM       | 0.325          | A      | 0.348          | A      | 0.023          |  |
|     | Hill Street  | PM       | 0.543          | A      | 0.593          | A      | 0.050          |  |
| 8.  | 11th Street and  | AM       | 0.360          | A      | 0.377          | A      | 0.017          |  |
|     | Broadway   | PM       | 0.572          | A      | 0.644          | B      | 0.072          |  |
| 9.  | 11th Street and  | AM       | 0.380          | A      | 0.390          | A      | 0.010          |  |
|     | Main Street  | PM       | 0.709          | C      | 0.725          | C      | 0.016          |  |

Table 13 (continued)
Critical Movement Analysis (CMA) Summary
Future (2010) Without and With Project Traffic Conditions

|     |   |          | With           | out    |                |        |                |  |  |  |
|-----|---|----------|----------------|--------|----------------|--------|----------------|--|--|--|
|     |   | Peak     | Proj           | ect    | : With Project |        |                |  |  |  |
| No. | Intersection  | Hour     | CMA            | LOS    | CMA            | LOS    | Impact         |  |  |  |
| 10. | 12th Street and                                     | AM       | 0.345          | A      | 0.352          | A      | 0.007          |  |  |  |
|     | Olive Street  | PM       | 0.247          | A      | 0.260          | A      | 0.013          |  |  |  |
| 11. | 12th Street and                                     | AM       | 0.243          | A      | 0.257          | A      | 0.014          |  |  |  |
|     | Hill Street   | PM       | 0.305          | A      | 0.348          | A      | 0.043          |  |  |  |
| 12. | 12th Street and                                     | AM       | 0.472          | A      | 0.529          | A      | 0.057          |  |  |  |
|     | Broadway  | PM       | 0.486          | A      | 0.592          | A      | 0.106          |  |  |  |
| 13. | 12th Street and                                     | AM       | 0.370          | A      | 0.381          | A      | 0.011          |  |  |  |
|     | Main Street   | PM       | 0.481          | A      | 0.496          | A      | 0.015          |  |  |  |
| 14. | 12th Street and                                     | AM       | 0.244          | A      | 0.245          | A      | 0.001          |  |  |  |
|     | Los Angeles Street                                  | PM       | 0.363          | A      | 0.364          | B      | 0.001          |  |  |  |
| 15. | Pico Boulevard and                                  | AM       | 0.343          | A      | 0.359          | A      | 0.016          |  |  |  |
|     | Hill Street   | PM       | 0.467          | A      | 0.495          | A      | 0.028          |  |  |  |
| 16. | Pico Boulevard and                                  | AM       | 0.430          | A      | 0.465          | A      | 0.035          |  |  |  |
|     | Broadway  | PM       | 0.619          | B      | 0.679          | B      | 0.060          |  |  |  |
| 17. | 17th Street/I-10 WB On-Ramp and Grand Avenue        | AM<br>PM | 0.257<br>0.598 | A<br>A | 0.271<br>0.621 | A<br>B | 0.014<br>0.023 |  |  |  |
| 18. | 18th Street/I-10 EB Off-Ramp and Grand Avenue       | AM<br>PM | 0.331<br>0.309 | A<br>A | 0.335<br>0.317 | A<br>A | 0.004<br>0.008 |  |  |  |
| 19. | 17th Street/I-10 WB Off-Ramp and Los Angeles Street | AM<br>PM | 0.467<br>0.496 | A<br>A | 0.481<br>0.514 | A<br>A | 0.014<br>0.018 |  |  |  |
| 20. | 18th Street/I-10 EB On-Ramp and Los Angeles Street  | AM<br>PM | 0.458<br>0.661 | A<br>B | 0.458<br>0.661 | A<br>B | 0.000<br>0.000 |  |  |  |

# **Impact Significance Criteria**

LADOT defines a significant traffic impact attributable to a project based on a "stepped scale", with intersections at high volume-to-capacity ratios being more sensitive to additional traffic than those operating with available surplus capacity. A significant impact is identified as an increase in the CMA value, due to project-related traffic, of

0.010 or more when the final ("with project") Level of Service is E or F, a CMA increase of 0.020 or more when the final Level of Service is LOS D, or an increase of 0.040 or more at LOS C. No significant impacts are deemed to occur at LOS A or B, as these operating conditions exhibit sufficient surplus capacities to accommodate large traffic increases with little effect on traffic delays. These criteria are summarized in Table 14.

Table 14
LADOT Criteria for Significant Traffic Impact

| <u>LOS</u> | Final CMA Value | Project-Related Increase in CMA Value |
|------------|-----------------|---------------------------------------|
| С          | 0.700 - 0.800   | equal to or greater than 0.0400       |
| D          | > 0.800 - 0.900 | equal to or greater than 0.0200       |
| E, F       | > 0.900         | equal to or greater than 0.0100       |

Based on these criteria and as shown previously in Table 13, the project is not anticipated to significantly impact any of the study intersections during either peak hour.

#### <u>Impacts on Regional Transportation System</u>

To address the increasing public concern that traffic congestion was impacting the quality of life and economic vitality of the State of California, the Congestion Management Program (CMP) was enacted by Proposition 111. The intent of the CMP is to provide the analytical basis for transportation decisions through the State Transportation Improvement Program (STIP) process. The Los Angeles County Metropolitan Transportation Authority (MTA), the local CMP agency, has established a countywide approach to implement the statutory requirements of the CMP. The countywide approach includes designating a highway network that includes all state highways and principal arterials within the County and monitoring the network's Level of Service standards.

The CMP project traffic impact analysis (TIA) guidelines require analyses of all CMP monitoring intersections where the project could add a total of 50 or more trips during either peak hour. Additionally, all freeway segments where a project could add 150 or more trips in either direction during the peak hours must be analyzed.

#### **CMP Monitoring Intersection Impacts**

The CMP lists the following three monitoring intersections, located within approximately three miles of the project:

- Alvarado Street and Sunset Boulevard
- Wilshire Boulevard and Alvarado Street
- Alameda Street and Washington Boulevard

Alvarado Street and Sunset Boulevard is located less than three miles northwest of the project and Wilshire Boulevard and Alvarado Street is located less than two miles northwest of the project. These two intersections are located west of the Harbor Freeway, and are anticipated to be largely unaffected by the project. The third location, Alameda Street and Washington Boulevard, is located approximately two miles southeast of the site.

As noted in the preceding discussion, the CMP requires that any project that will add 50 or more total trips through a CMP monitoring intersection during either the AM or PM peak hours must perform an impact analysis of that location. As indicated by the net project traffic volumes shown in Figures 6(a) and 6(b), the study intersections located immediately adjacent to the project are expected to experience project-related traffic increases of 50 or more vehicles. However, additional dispersal of the project traffic through the area roadway network will reduce project traffic additions to substantially less than 50 vehicles per hour during both peak hours at all of the CMP intersections noted. As such, the proposed project will not meet or exceed the trip thresholds at any CMP monitoring intersections, and no detailed CMP intersection analyses are warranted.

#### Freeway Segment Impacts

An examination was also made of the potential for project-related freeway impacts within the project study area. As shown previously in Table 6, the project is anticipated to generate approximately 348 (137 inbound and 211 outbound) net new trips during the AM peak hour, and 548 (280 inbound and 268 outbound) net new trips during the PM peak hour, and therefore could exceed the analysis thresholds prescribed by the CMP for freeway segment analysis.

In order to address this potential for regional traffic impacts, the number of net new project trips added to key freeway segments in the project vicinity was identified. These locations were selected as those closest to the project, where new project traffic will be at its highest. The first step in the analysis was to identify the amount of project traffic using the selected freeway segments to determine whether these volumes exceed the CMP threshold of 150 vehicles per hour. If the project volumes are not found to exceed the CMP threshold of 150 vehicles per hour, no further freeway impact analyses are required. Based on the project trip distributions described earlier in this report, the net new AM and PM peak hour traffic volumes on key segments of the freeway facilities near the project were calculated. The resulting net project peak hour traffic additions to the key area freeway segments are summarized in Table 15.

As shown in Table 15, net new project traffic additions to the freeways near the project do not exceed the 150 vehicle per hour directional thresholds identified in the CMP, and therefore, do not trigger the need for detailed freeway analyses under the CMP.

Although a formal analysis of project freeway impacts was not warranted, a brief assessment of the potential freeway impacts was conducted to estimate the magnitude of project traffic impacts in the project vicinity, due to the high traffic volumes and congestion levels currently associated with many of the subject freeway segments.

Table 15
Net Project Traffic Volumes on Freeway System

|                     |  |           | Peak     | Hour     |
|---------------------|--|-----------|----------|----------|
| Freeway             | Segment  | Direction | AM       | PM       |
| Harbor (I-110)      | North of 11th Street   | NB<br>SB  | 42<br>21 | 54<br>42 |
|                     | South of Santa Monica Freeway (I-10)                                     | NB<br>SB  | 14<br>21 | 28<br>27 |
| Santa Monica (I-10) | West of Harbor Freeway (I-110)   | EB<br>WB  | 21<br>32 | 42<br>40 |
|                     | East of Harbor Freeway (I-110)<br>(between I-110 and Los Angeles Street) | EB<br>WB  | 27<br>53 | 56<br>67 |
|                     | East of Los Angeles Street   | EB<br>WB  | 21<br>14 | 28<br>27 |

Freeway segment peak hour traffic capacities are generally assumed to have a mainline travel lane capacity of 2,000 vehicles per hour (VPH), based on analysis procedures and methodologies established in the Transportation Research Board's (TRB) Highway Capacity Manual (HCM). Each of the subject freeway segments exhibits a total of four or five lanes per direction in the study area, thereby providing a directional capacity of between 8,000 and 10,000 vehicles per hour for each segment.

The CMP defines regional project impacts as significant if the demand-to-capacity ratio increases by 0.020 or more, and the final, "With Project" Level of Service is LOS F or worse. Because the subject freeway segments each provide a total capacity of between 8,000 and 10,000 vehicles per hour, an increase of 0.020 or more in the demand-to-capacity ratio equates to the addition of between 160 and 200 vehicles per hour during the peak hours. As shown in Table 15, the total project trips are not anticipated to exceed 67 vehicles in any single direction on any segment, which equates to a maximum impact of 0.008 on an 8,000 vehicle-per-hour capacity segment. Therefore, the project would only produce about 40 percent of the traffic necessary to produce significant impacts on

any of the freeway segments analyzed, and no such significant impacts are expected on any of the studied segments. Because the segments analyzed are those nearest the project, where project-related traffic is the most concentrated and the potential for significant impacts is greatest, it is not anticipated that the project could produce significant impacts on other freeway segments farther from the site.

### **MITIGATION MEASURES**

As indicated in the preceding analyses, traffic generated by the proposed project is not expected to significantly impact any of the 20 study intersections; therefore, no traffic mitigation measures are required.

# APPENDIX A TRAFFIC COUNT DATA SHEETS

City of Los Angeles STREET: **Department of Transportation** North/South **HILL STREET** Count by Crain & Associates East/West **OLYMPIC BOULEVARD** Day: ΑM THURSDAY Date: **DECEMBER 2, 2004** Weather: **CLEAR** THURSDAY DECEMBER 2, 2004 PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 11 7:45 161 8:30 297 8:00 163 7:45 PM PK 15 MIN 70 5:30 233 5:15 244 5:15 286 5:15 **AM PK HOUR** 594 7:45 30 7:00 1,069 7:45 629 7:45 PM PK HOUR 235 4:45 885 5:00 841 4:45 1,119 5:00 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Th Rt Total Hours Rt Total N-S Ped Sch Ped Sch 7 - 8 21 30 7 - 8 27 315 62 404 434 N/A N/A N/A N/A N/A N/A N/A N/A 8 - 9 3 18 3 24 8 - 9 63 429 80 572 596 N/A N/A N/A N/A N/A N/A 4 - 5 32 152 214 4 - 5 44 552 156 752 966 30 N/A N/A 5 - 6 38 167 23 228 5 - 6 33 718 134 885 1.113 **TOTAL** 80 358 58 496 TOTAL 167 2,014 432 2,613 3,109 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach** TOTAL XING W/L XING E/L Rt E-W Ped Sch Ped Sch Hours Th Total Hours Th Rt Total

440

543

858

982

2,823

36

51

44

168

44

46

82

93

265

521

625

991

1.119

3,256

1,337

1,622

1,792

1,914

6,665

N/A N/A

N/A N/A

N/A N/A N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A N/A N/A

N/A N/A

7 - 8

8 - 9

4 - 5

5 - 6

**TOTAL** 

32

23

9

6

70

721

901

714

718

3,054

63

73

78

71

285

816

997

801

795

3,409

7 - 8

8 - 9

4 - 5

5 - 6

City of Los Angeles STREET: **Department of Transportation** North/South **BROADWAY** Count by Crain & Associates East/West **OLYMPIC BOULEVARD** Day: ΑM THURSDAY Date: **DECEMBER 2, 2004** Weather: **CLEAR** THURSDAY DECEMBER 2, 2004 PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-WHEELED N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 230 8:15 146 8:15 265 7:45 215 8:15 PM PK 15 MIN 234 5:15 216 4:45 211 4:45 268 5:30 **AM PK HOUR** 857 7:45 541 8:00 968 7:45 752 8:00 PM PK HOUR 872 5:00 786 4:30 807 4:00 1,055 5:00 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Th Rt Total Hours Th Rt Total N-S Ped Sch Ped Sch 7 - 8 89 586 28 703 7 - 8 298 74 406 1,109 N/A N/A N/A N/A N/A N/A N/A N/A 8 - 9 75 741 40 856 8 - 9 53 392 96 541 1,397 N/A N/A N/A N/A 751 80 4 - 5 103 550 98 4 - 5 43 560 683 1,434 N/A N/A N/A N/A 5 - 6 106 677 89 872 5 - 6 31 623 75 729 1,601 **TOTAL** 373 2,554 255 3,182 TOTAL 161 1,873 325 2,359 5,541 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach** TOTAL XING W/L XING E/L E-W Ped Sch Ped Sch Hours Th Rt Total Hours Th Rt Total 7 - 8 26 710 31 767 7 - 8 485 25 525 1,292 N/A N/A N/A N/A

18

37

27

97 2,954

697

820

952

37

91

76

229

752

948

1,055

3,280

1,657

1,755

1,798

6,502

N/A N/A

N/A N/A N/A N/A

N/A N/A

N/A N/A

N/A N/A N/A N/A

N/A N/A

8 - 9

4 - 5

5 - 6

**TOTAL** 

31

49

77

183

838

692

639

2,879

36

66

27

160

905

807

743

3,222

8 - 9

4 - 5

5 - 6

City of Los Angeles STREET: **Department of Transportation** North/South **BLAINE STREET** Count by Crain & Associates SR-110 SB OFF-RAMP / CONNECTICUT STREET East/West Day: ΑM WEDNESDAY Date: **DECEMBER 15, 2004** Weather: **CLEAR** WEDNESDAY **DECEMBER 15, 2004** PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 0 7:00 115 8:45 12 7:30 139 8:45 PM PK 15 MIN 0 3:00 150 4:30 13 5:15 46 4:00 **AM PK HOUR** 0 7:00 369 8:00 36 7:00 476 8:00 PM PK HOUR 0 3:00 546 4:30 35 4:30 138 4:00 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Rt Total Hours Th Rt Total N-S Ped Sch Ped Sch 7 - 8 0 0 0 0 7 - 8 0 290 295 295 N/A N/A N/A N/A N/A N/A N/A N/A 8 - 9 0 0 0 0 8 - 9 0 350 19 369 369 N/A N/A N/A N/A 4 - 5 0 0 4 - 5 0 492 35 527 527 0 0 N/A N/A N/A N/A 5 - 6 0 0 0 0 5 - 6 0 488 21 509 509 0 1,620 **TOTAL** 0 0 0 TOTAL 80 1,700 1,700 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach** TOTAL XING W/L XING E/L Rt Rt Ped Sch Ped Sch Hours Total Hours Th Total E-W 7 - 8 0 0 36 36 7 - 8 115 0 233 348 384 N/A N/A N/A N/A 8 - 9 0 24 8 - 9 119 357 476 500 N/A N/A N/A N/A 24 N/A N/A N/A N/A 4 - 5 0 0 30 30 4 - 5 67 0 71 138 168 N/A N/A 5 - 6 5 - 6 51 138 N/A N/A 0 0 34 53 104 34 0

354

712

0

1,066

1,190

N/A N/A

N/A N/A

TOTAL

124

124

0

0

City of Los Angeles STREET: **Department of Transportation** North/South **BLAINE STREET** Count by Crain & Associates East/West 11TH STREET Day: ΑM **TUESDAY** Date: **JUNE 8, 2004** Weather: **CLEAR** TUESDAY **JUNE 8, 2004** PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 0 7:00 161 8:45 104 7:30 75 8:45 PM PK 15 MIN 0 3:00 153 5:00 99 5:00 5:30 486 7:00 **AM PK HOUR** 0 7:00 390 7:00 220 8:00 PM PK HOUR 0 3:00 571 5:00 369 4:30 593 5:00 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Rt Total Hours Th Rt Total N-S Ped Sch Ped Sch 7 - 8 0 0 0 0 7 - 8 340 71 486 486 N/A N/A N/A N/A 75 N/A N/A N/A N/A 8 - 9 0 0 0 0 8 - 9 76 335 59 470 470 N/A N/A N/A N/A 512 4 - 5 0 0 4 - 5 38 432 42 512 0 0 N/A N/A N/A N/A 5 - 6 0 0 0 0 5 - 6 25 504 42 571 571 **TOTAL** 0 0 0 TOTAL 214 1,611 214 2,039 2,039 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach** TOTAL XING W/L XING E/L Rt E-W Ped Sch Ped Sch Hours Th Total Hours Th Rt Total

31

55

196

248

530

138

165

191

345

839

0

0

0

169

220

387

593

1,369

559

494

743

952

2,748

N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A N/A N/A N/A N/A

N/A N/A

7 - 8

8 - 9

4 - 5

5 - 6

**TOTAL** 

0

0

0

0

0

128 262

87 187

95 261

76 283

386 993

390

274

356

359

1,379

7 - 8

8 - 9

4 - 5

5 - 6

STREET:

City of Los Angeles
Department of Transportation
Count by Crain & Associate

| STREET: North/South CHERRY STREE      | ET / SR-110 NB ON-RAMP             |                           |                |            | tment of Transp<br>unt by Crain & <i>I</i> |                    |
|---------------------------------------|------------------------------------|---------------------------|----------------|------------|--|--------------------|
| East/West 11TH STREET /               | CHICK HEARN COURT                  |                           |                |            |  |                    |
| Day: AM <u>WEDNESDAY</u> PM WEDNESDAY | Date: MAY 11, 2005<br>MAY 11, 2005 | Weather:                  | CLEAR          | =          |  |                    |
| Hours: 7-9 AM 4-6 PM                  | WAT 11, 2003                       |                           |                |            |  |                    |
| School Day: YES                       | District: LOS ANGE                 | LES                       |                |            |  |                    |
| N/B<br>DUAL-                          | S/B                                | E/B                       | W/B            | -          |  |                    |
| WHEELED N/A                           | N/A                                | N/A                       | N/A            |            |  |                    |
| BIKES N/A<br>BUSES N/A                | N/A<br>N/A                         | N/A<br>N/A                | N/A<br>N/A     |            |  |                    |
|                                       |                                    |                           |                |            |  |                    |
| N/B TIME                              | S/B TIME                           | E/B TIM                   | E W/B          | TIME       |  |                    |
| AM PK 15 MIN 248 7:45                 | 0 7:00                             | 66 7:0                    | 0 59           | 8:45       |  |                    |
| PM PK 15 MIN 218 4:45                 | 0 3:00                             | 29 5:0                    | 0 260          | 5:45       |  |                    |
| AM PK HOUR 939 7:45                   | 0 7:00                             | 249 7:0                   | 0 212          | 8:00       |  |                    |
| PM PK HOUR 741 4:30                   | 0 3:00                             | 97 5:0                    | 0 934          | 5:00       |  |                    |
|                                       |                                    |                           |                |            |  |                    |
| NORTHBOUND Approach                   | SOUTHBOU                           | JND Approach              |                | TOTAL      | XING S/L                                   | XING N/L           |
| Hours Lt Th Rt<br>7 - 8 116 514 89    | Total Hours 719 7 - 8              | Lt Th Rt                  | Total          | N-S<br>719 | Ped Sch<br>N/A N/A                         | Ped Sch<br>N/A N/A |
| 8 - 9 146 599 141                     | 886 8 - 9                          | 0 0                       | 0 0            | 886        | N/A N/A                                    | N/A N/A            |
| 4 - 5 286 291 79<br>5 - 6 224 380 74  | 656 4 - 5<br>678 5 - 6             |                           | 0 0            | 656<br>678 | N/A N/A<br>N/A N/A                         | N/A N/A<br>N/A N/A |
| TOTAL 772 1,784 383                   | 2,939 TOTAL                        |                           | 0 0            | 2,939      | N/A N/A                                    | N/A N/A            |
|                                       |                                    |                           |                |            |  |                    |
| EASTBOUND Approach                    | WESTBOU                            | ND Approach               |                | TOTAL      | XING W/L                                   | XING E/L           |
| Hours Lt Th Rt                        | Total Hours                        | Lt Th Rt                  |                | E-W        | Ped Sch                                    | Ped Sch            |
| 7 - 8 105 48 96<br>8 - 9 81 51 38     | 249 7 - 8<br>170 8 - 9             | 51 56 4<br>76 90 4        | 0 147<br>6 212 | 396<br>382 | N/A N/A<br>N/A N/A                         | N/A N/A<br>N/A N/A |
| 4 - 5 33 39 5                         | 77 4 - 5                           | 33 335 4                  | 5 413          | 490        | N/A N/A                                    | N/A N/A            |
| 5 - 6 44 47 6<br>TOTAL 263 185 145    | 97 5 - 6<br>593 TOTAL              | 25 759 15<br>185 1.240 28 |                | 1,031      | N/A N/A                                    | N/A N/A            |
| TOTAL 263 185 145                     | 593 TOTAL                          | 185 1,240 28              | 1,706          | 2,299      | N/A N/A                                    | N/A N/A            |

STREET:

0

0 0 0

City of Los Angeles **Department of Transportation** 

North/South **OLIVE AVENUE** Count by Crain & Associates East/West 11TH STREET Day: ΑM THURSDAY Date: **DECEMBER 2, 2004** Weather: **CLEAR** THURSDAY DECEMBER 2, 2004 PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 399 8:00 0 7:00 0 7:00 89 8:30 PM PK 15 MIN 275 4:30 0 3:00 3:00 161 5:15 **AM PK HOUR** 1,475 7:45 0 7:00 0 7:00 308 8:00 PM PK HOUR 1,043 4:30 0 3:00 0 3:00 600 4:30 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Th Rt Total Hours Rt Total N-S Ped Sch Ped Sch 7 - 8 75 1,084 0 1,159 7 - 8 0 0 0 0 1,159 N/A N/A N/A N/A N/A N/A N/A N/A 8 - 9 75 1,379 0 1,454 8 - 9 0 0 0 0 1,454 N/A N/A N/A N/A 4 - 5 78 914 992 4 - 5 0 992 0 0 0 0 N/A N/A N/A N/A 5 - 6 106 815 0 921 5 - 6 0 0 0 0 921 **TOTAL** 334 4,192 0 4,526 TOTAL 0 0 0 4,526 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach** TOTAL XING W/L XING E/L Rt E-W Ped Sch Ped Sch Hours Total Hours Th Rt Total 7 - 8 0 0 0 0 7 - 8 133 42 175 175 N/A N/A N/A N/A 8 - 9 0 0 8 - 9 0 220 88 308 308 N/A N/A N/A N/A N/A N/A N/A N/A 4 - 5 0 0 0 0 4 - 5 0 493 68 561 561 N/A N/A 5 - 6 5 - 6 560 560 N/A N/A 0 0 0 0 0 469 91 TOTAL 1,604 **TOTAL** 0 1,315 1,604 N/A N/A N/A N/A

289

City of Los Angeles STREET: **Department of Transportation** North/South **HILL STREET** Count by Crain & Associates East/West 11TH STREET Day: ΑM THURSDAY Date: **DECEMBER 2, 2004** Weather: **CLEAR** THURSDAY DECEMBER 2, 2004 PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 14 7:00 149 7:45 0 7:00 116 8:30 PM PK 15 MIN 30 4:45 216 5:15 3:00 208 5:00 **AM PK HOUR** 525 7:30 35 7:00 0 7:00 420 8:00 PM PK HOUR 117 4:45 811 5:00 0 3:00 689 4:30 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Th Rt Total Hours Th Rt Total N-S Ped Sch Ped Sch 7 - 8 5 30 0 35 7 - 8 0 430 47 477 512 N/A N/A N/A N/A 26 519 N/A N/A N/A N/A 8 - 9 4 22 0 8 - 9 0 450 43 493 N/A N/A N/A N/A 93 645 85 828 4 - 5 5 98 4 - 5 0 730 0 N/A N/A N/A N/A 5 - 6 10 103 0 113 5 - 6 0 702 109 811 924 **TOTAL** 24 248 0 272 TOTAL 0 2,227 284 2,511 2,783 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach** TOTAL XING W/L XING E/L Rt E-W Ped Sch Ped Sch Hours Total Hours Th Rt Total

25

45

89

90

249

144

281

415

449

1,289

71

94

99

112

376

240

420

603

651

1,914

240

420

603

651

1,914

N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A N/A N/A N/A N/A

N/A N/A

7 - 8

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5 - 6

**TOTAL** 

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5 - 6

City of Los Angeles STREET: **Department of Transportation** North/South **BROADWAY** Count by Crain & Associates East/West 11TH STREET Day: ΑM **THURSDAY** Date: **DECEMBER 2, 2004** Weather: **CLEAR** THURSDAY DECEMBER 2, 2004 PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 278 8:15 125 8:30 0 7:00 117 8:45 PM PK 15 MIN 269 5:15 230 5:15 3:00 184 5:00 **AM PK HOUR** 1,027 7:45 379 7:45 0 7:00 382 8:00 PM PK HOUR 937 4:30 755 5:00 0 3:00 654 4:30 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Th Rt Total Hours Th Rt Total N-S Ped Sch Ped Sch 7 - 8 92 700 0 792 7 - 8 0 267 19 286 1,078 N/A N/A N/A N/A 976 N/A N/A N/A N/A 8 - 9 148 828 0 8 - 9 0 346 22 368 1,344 1,574 N/A N/A N/A N/A 142 665 4 - 5 723 865 4 - 5 0 44 709 0 755 N/A N/A N/A N/A 5 - 6 118 815 0 933 5 - 6 0 688 67 1,688 **TOTAL** 500 3,066 0 3,566 TOTAL 0 1,966 152 2,118 5,684 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach** TOTAL XING W/L XING E/L Rt E-W Ped Sch Ped Sch Hours Total Hours Th Rt Total

143

288

427

487

1,345

58

77

69

235

21

36

81

72

210

195

382

585

628

1,790

195

382

585

628

1,790

N/A N/A

N/A N/A N/A N/A

N/A N/A

7 - 8

8 - 9

4 - 5

5 - 6

**TOTAL** 

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0

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0 0

0

0 0

0

0

0

0

0

0

0

7 - 8

8 - 9

4 - 5

5 - 6

STREET:

City of Los Angeles Department of Transportation

| North/South MAIN STREET  |   |   | Count by Crain & Associates   |
|--|---|---|---|
| East/West 11TH STREET  |   |   | _   |
| Day:         AM         TUESDAY           PM         TUESDAY           Hours:         7-9 AM 4-6 PM  | Date: DECEMBER 7, 2004 DECEMBER 7, 2004 | Weather: CLEAR  |   |
| School Day: YES  | District: LOS ANGELES                   |   |   |
| N/B_   | S/B                                     | <u>E/B</u>  | W/B   |
| DUAL- WHEELED N/A BIKES N/A BUSES N/A  | N/A<br>N/A<br>N/A                       | N/A<br>N/A<br>N/A   | N/A<br>N/A<br>N/A   |
| N/B TIME   | S/B TIME                                | E/B TIME  | W/B TIME  |
| AM PK 15 MIN 235 8:15  | 146 8:15                                | 0 7:00  | 98 8:30   |
| PM PK 15 MIN 253 4:45  | 266 5:15                                | 0 3:00  | 165 4:45  |
| AM PK HOUR 843 7:45  | 504 7:30                                | 0 7:00  | 320 8:00  |
| PM PK HOUR 979 4:00  | 1,023 4:45                              | 0 3:00  | 588 4:00  |
| NORTHBOUND Approach  | SOUTHBOUND Ap                           | proach  | TOTAL XING S/L XING N/L   |
| Hours Lt Th Rt 7 - 8 71 731 0 8 - 9 49 772 0 4 - 5 71 908 0 5 - 6 90 861 0 TOTAL 281 3,272 0   | 821 8 - 9                               | Th Rt Total 0 401 50 451 0 422 67 489 0 757 167 924 0 824 181 1,005 0 2,404 465 2,869 | 1,310 N/A N/A N/A N/A 1,903 N/A |
| EASTBOUND Approach   | WESTBOUND App                           | roach   | TOTAL XING W/L XING E/L   |
| Hours         Lt         Th         Rt           7 - 8         0         0         0           8 - 9         0         0         0           4 - 5         0         0         0           5 - 6         0         0         0           TOTAL         0         0         0 | 0 8-9 3<br>0 4-5 10                     | 8 354 91 543  | 320 N/A                         |

City of Los Angeles STREET: **Department of Transportation** North/South **OLIVE STREET** Count by Crain & Associates East/West 12TH STREET Day: ΑM THURSDAY Date: MAY 12, 2005 Weather: **CLEAR** THURSDAY MAY 12, 2005 PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 431 8:00 0 7:00 88 7:45 0 7:00 PM PK 15 MIN 352 4:15 0 3:00 93 4:15 3:00 **AM PK HOUR** 1,538 7:45 0 7:00 299 7:45 7:00 PM PK HOUR 972 4:15 0 3:00 246 4:15 0 3:00 **SOUTHBOUND Approach NORTHBOUND Approach TOTAL** XING S/L XING N/L Hours Th Rt Total Hours Rt Total N-S Ped Sch Ped Sch 7 - 8 0 1,147 24 1,171 7 - 8 0 0 0 0 1,171 N/A N/A N/A N/A 8 - 9 1,513 N/A N/A N/A N/A 8 - 9 0 1,494 19 1,513 0 0 0 0 N/A N/A N/A N/A 4 - 5 0 890 923 4 - 5 0 33 0 0 0 923 N/A N/A N/A N/A 5 - 6 0 866 33 899 5 - 6 0 0 0 0 899 **TOTAL** 0 4,397 109 4,506 TOTAL 0 0 0 4,506 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach TOTAL** XING W/L XING E/L Rt E-W Ped Sch Ped Sch Hours Th Rt Total Hours Th Total 7 - 8 47 142 0 189 7 - 8 0 189 N/A N/A N/A N/A 8 - 9 67 197 264 8 - 9 0 N/A N/A N/A N/A 0 0 264

0

0

0

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0

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0

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0

0

241

207

901

N/A N/A

N/A N/A

N/A N/A

4 - 5

5 - 6

**TOTAL** 

67

59

240

174

148

661

0

0

0

241

207

901

4 - 5

5 - 6

TOTAL

N/A N/A N/A N/A

N/A N/A

City of Los Angeles STREET: **Department of Transportation** North/South **HILL STREET** Count by Crain & Associates East/West 12TH STREET Day: ΑM **TUESDAY** Date: **DECEMBER 7, 2004** Weather: **CLEAR** TUESDAY DECEMBER 7, 2004 PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 50 8:15 145 8:00 66 7:45 0 7:00 PM PK 15 MIN 90 5:15 213 5:30 4:30 3:00 **AM PK HOUR** 191 7:45 545 7:30 234 7:45 0 7:00 PM PK HOUR 319 4:45 813 4:45 197 4:30 0 3:00 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Rt Total Hours Th Rt Total N-S Ped Sch Ped Sch 7 - 8 0 119 126 7 - 8 51 410 0 461 587 N/A N/A N/A N/A 185 8 - 9 N/A N/A N/A N/A 8 - 9 0 20 165 86 429 0 515 700 146 236 N/A N/A N/A N/A 4 - 5 0 90 4 - 5 89 652 741 977 0 316 798 N/A N/A N/A N/A 5 - 6 0 97 219 5 - 6 79 719 0 1,114 **TOTAL** 0 214 649 863 TOTAL 305 2,210 0 2,515 3,378 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach** TOTAL XING W/L XING E/L Rt E-W Ped Sch Ped Sch Hours Th Rt Total Hours Th Total 7 - 8 0 117 19 136 7 - 8 0 136 N/A N/A N/A N/A

0

0

0

0

0

0

0

0

0

0

225

187

148

696

0

0

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0

N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A N/A N/A

N/A N/A

8 - 9

4 - 5

5 - 6

**TOTAL** 

0

0

0

0

188

144

104

553

37

43

44

143

225

187

148

696

8 - 9

4 - 5

5 - 6

Hours:

7-9 AM 4-6 PM

City of Los Angeles
Department of Transportation
Count by Crain & Associates

| School Day:               | YES               | District:  | LOS ANGELES     |                   |      |                   |       |   |
|---------------------------|-------------------|------------|-----------------|-------------------|------|-------------------|-------|---|
| DUAL-                     | N/B               | S/B        | _               | E/B               |      | W/B               |       |   |
| WHEELED<br>BIKES<br>BUSES | N/A<br>N/A<br>N/A | N/A<br>N/A | L .             | N/A<br>N/A<br>N/A |      | N/A<br>N/A<br>N/A |       |   |
|                           | N/B TIME          | S/B        | STIME           | E/B               | TIME | W/B               | TIME  |   |
| AM PK 15 MIN              | 240 7:30          | 111        | 8:30            | 121               | 8:30 | 0                 | 7:00  |   |
| PM PK 15 MIN              | 232 5:15          | 201        | 5:15            | 128               | 4:00 | 0                 | 3:00  |   |
| AM PK HOUR                | 928 7:30          | 355        | 7:45            | 429               | 8:00 | 0                 | 7:00  |   |
| PM PK HOUR                | 864 5:00          | 727        | 4:30            | 462               | 4:45 | 0                 | 3:00  |   |
|                           |                   |            |                 |                   |      |                   |       |   |
| NORTHBOUND App            | roach             |            | SOUTHBOUND Appr | roach             |      | -                 | TOTAL | , |

| NORTHBOUND | NORTHBOUND Approach |       |     |       |       | SOUTHBOUND Approach |       |    |       |       | XING S/L | XING N/L |
|------------|---------------------|-------|-----|-------|-------|---------------------|-------|----|-------|-------|----------|----------|
| Hours      | Lt                  | Th    | Rt  | Total | Hours | Lt                  | Th    | Rt | Total | N-S   | Ped Sch  | Ped Sch  |
| 7 - 8      | 0                   | 840   | 19  | 859   | 7 - 8 | 26                  | 315   | 0  | 341   | 1,200 | N/A N/A  | N/A N/A  |
| 8 - 9      | 0                   | 847   | 46  | 893   | 8 - 9 | 27                  | 315   | 0  | 342   | 1,235 | N/A N/A  | N/A N/A  |
| 4 - 5      | 0                   | 742   | 48  | 790   | 4 - 5 | 31                  | 678   | 0  | 709   | 1,499 | N/A N/A  | N/A N/A  |
| 5 - 6      | 0                   | 825   | 39  | 864   | 5 - 6 | 19                  | 684   | 0  | 703   | 1,567 | N/A N/A  | N/A N/A  |
| TOTAL      | 0                   | 3,254 | 152 | 3,406 | TOTAL | 103                 | 1,992 | 0  | 2.095 | 5.501 | N/A N/A  | N/A N/A  |

| EASTBOUND Approach |     |     |     |       | WESTBOUN | WESTBOUND Approach |    |    |       |       | XING W/L | XING E/L |
|--------------------|-----|-----|-----|-------|----------|--------------------|----|----|-------|-------|----------|----------|
| Hours              | Lt  | Th  | Rt  | Total | Hours    | Lt                 | Th | Rt | Total | E-W   | Ped Sch  | Ped Sch  |
| 7 - 8              | 78  | 156 | 18  | 252   | 7 - 8    | 0                  | 0  | 0  | 0     | 252   | N/A N/A  | N/A N/A  |
| 8 - 9              | 131 | 259 | 39  | 429   | 8 - 9    | 0                  | 0  | 0  | 0     | 429   | N/A N/A  | N/A N/A  |
| 4 - 5              | 157 | 218 | 71  | 446   | 4 - 5    | 0                  | 0  | 0  | 0     | 446   | N/A N/A  | N/A N/A  |
| 5 - 6              | 125 | 262 | 62  | 449   | 5 - 6    | 0                  | 0  | 0  | 0     | 449   | N/A N/A  | N/A N/A  |
| TOTAL              | 491 | 895 | 190 | 1,576 | TOTAL    | 0                  | 0  | 0  | 0     | 1,576 | N/A N/A  | N/A N/A  |

STREET:

City of Los Angeles
Department of Transportation
Count by Crain & Associate

| Date      | North/South  | MAIN STREET |            |                              |             |      |       |     |       | ount by Crain & |          |
|--|--------------|-------------|------------|------------------------------|-------------|------|-------|-----|-------|-----------------|----------|
| PM   TUESDAY   T-9 AM 4-6 PM   TUESDAY   TUE   | East/West    | 12TH STREET |            |                              |             |      |       |     |       |                 |          |
| Northeound Approach   Southeound Approach    |              |             | Date: DECE | MBER 7, 2004<br>MBER 7, 2004 | Weathe      | r:   | CLEAR |     |       |                 |          |
| DUAL- WHEELED N/A N/A N/A N/A N/A BIKES N/A N/A N/A N/A N/A BUSES N/A N/A N/A N/A N/A BUSES N/A N/A N/A N/A N/A BUSES N/A N/A N/A N/A N/A  AM PK 15 MIN 251 8:30 130 7:45 81 8:30 0 7:00  PM PK 15 MIN 264 4:30 255 5:00 107 5:30 0 3:00  AM PK HOUR 804 8:00 457 7:45 296 8:00 0 7:00  PM PK HOUR 995 4:15 927 4:30 356 5:00 0 3:00  NORTHBOUND Approach SOUTHBOUND Approach TOTAL XING S/L XING N/L  Hours Lt Th Rt Total Hours Lt Th Rt Total N-S Ped Sch Ped Sch 7:8 0 0 703 29 732 7-8 26 368 0 394 1,126 N/A   |              |             | <u> </u>   |                              | <del></del> |      |       |     |       |                 |          |
| N/A    | School Day:  | YES         | District:  | LOS ANGELES                  |             |      |       |     |       |                 |          |
| N/A    | DUAL         | N/B         | S/E        | <u>3</u>                     | E/B         |      | =     | W/B |       |                 |          |
| N/A    | WHEELED      |             |            |                              |             |      |       |     |       |                 |          |
| N/B TIME   | -            |             |            |                              |             |      |       |     |       |                 |          |
| AM PK 15 MIN   |              |             |            | -                            |             |      |       |     |       |                 |          |
| PM PK 15 MIN   |              | N/B TIME    | S/E        | B TIME                       | E/B         | TIME | -     | W/B | TIME  |                 |          |
| AM PK HOUR 804 8:00 457 7:45 296 8:00 0 7:00  PM PK HOUR 995 4:15 927 4:30 356 5:00 0 3:00  NORTHBOUND Approach SOUTHBOUND Approach TOTAL XING S/L XING N/L  Hours Lt Th Rt Total Hours Lt Th Rt Total N-S Ped Sch Ped Sch 7-8 26 368 0 394 1,126 N/A  | AM PK 15 MI  | N 251 8:30  | 130        | 7:45                         | 81          | 8:30 |       | 0   | 7:00  |                 |          |
| NORTHBOUND Approach   SOUTHBOUND Approach   TOTAL   XING S/L   XING N/L  | PM PK 15 MIN | N 264 4:30  | 255        | 5 5:00                       | 107         | 5:30 |       | 0   | 3:00  |                 |          |
| NORTHBOUND Approach    SOUTHBOUND Approach   TOTAL   XING S/L   XING N/L   | AM PK HOUR   | 804 8:00    | 457        | 7 7:45                       | 296         | 8:00 |       | 0   | 7:00  |                 |          |
| Hours Lt Th Rt Total Hours Lt Th Rt Total N-S Ped Sch Ped Sch Ped Sch 7-8 0 703 29 732 7-8 26 368 0 394 1,126 N/A  | PM PK HOUR   | 995 4:15    | 927        | 7 4:30                       | 356         | 5:00 |       | 0   | 3:00  |                 |          |
| Hours Lt Th Rt Total Hours Lt Th Rt Total N-S Ped Sch Ped Sch Ped Sch 7-8 0 703 29 732 7-8 26 368 0 394 1,126 N/A N/A N/A N/A N/A N/A 8-9 0 758 46 804 8-9 58 362 0 420 1,224 N/A N/A N/A N/A N/A N/A 1-5 0 880 110 990 4-5 69 704 0 773 1,763 N/A N/A N/A N/A N/A N/A 5-6 0 847 70 917 5-6 75 829 0 904 1,821 N/A N/A N/A N/A N/A N/A N/A TOTAL 0 3,188 255 3,443 TOTAL 228 2,263 0 2,491 5,934 N/A   |              |             |            |                              |             |      |       |     |       |                 |          |
| 7 - 8         0         703         29         732         7 - 8         26         368         0         394         1,126         N/A         N/A <td>NORTHBOUN</td> <td>ID Approach</td> <td></td> <td>SOUTHBOUND A</td> <td>pproach</td> <td></td> <td></td> <td></td> <td>TOTAL</td> <td>XING S/L</td> <td>XING N/L</td>  | NORTHBOUN    | ID Approach |            | SOUTHBOUND A                 | pproach     |      |       |     | TOTAL | XING S/L        | XING N/L |
| 8 - 9  |              |             |            |                              |             |      |       | Г   |       |                 |          |
| 4 - 5         0         880         110         990         4 - 5         69         704         0         773         1,763         N/A         N/A <td></td>   |              |             |            |                              |             |      |       |     |       |                 |          |
| TOTAL 0 3,188 255 3,443 TOTAL 228 2,263 0 2,491 5,934 N/A  | 4 - 5        | 0 880 110   |            | 4 - 5                        | 69 704      | 0    |       |     |       |                 | N/A N/A  |
| EASTBOUND Approach  WESTBOUND Approach  TOTAL  XING W/L  XING E/L  Hours  Lt Th Rt Total  Hours  Lt Th Rt Total  F-W  Ped Sch  Pe |              |             |            |                              |             |      |       | ļ   |       |                 |          |
| Hours Lt Th Rt Total Hours Lt Th Rt Total E-W Ped Sch Ped Sch 7-8 23 149 17 189 7-8 0 0 0 0 189 N/A N/A N/A N/A 8-9 29 233 34 296 8-9 0 0 0 0 296 N/A N/A N/A N/A N/A 4-5 777 197 49 323 4-5 0 0 0 0 0 323 N/A N/A N/A N/A 5-6 93 210 53 356 5-6 0 0 0 0 0 356 N/A N/A N/A N/A N/A   | IOIAL        | 0 3,188 255 | 3,443      | IOIAL 2                      | 28 2,263    | 0    | 2,491 |     | 5,934 | N/A N/A         | N/A N/A  |
| 7 - 8         23         149         17         189         7 - 8         0         0         0         0         189         N/A  | EASTBOUND    | Approach    |            | WESTBOUND App                | proach      |      |       |     | TOTAL | XING W/L        | XING E/L |
| 8 - 9  |              |             |            |                              |             |      |       | _   |       |                 |          |
| 4 - 5     77     197     49     323     4 - 5     0     0     0     0     323     N/A  |              |             |            |                              |             |      |       | -   |       |                 |          |
| 5 - 6 93 210 53 356 5 - 6 0 0 0 0 0 356 N/A N/A N/A N/A N/A  |              |             |            |                              |             |      |       | ŀ   |       |                 |          |
|  |              |             |            |                              |             |      |       | -   |       |                 |          |
|  |              |             |            |                              |             |      |       |     |       |                 |          |

City of Los Angeles STREET: **Department of Transportation** North/South LOS ANGELES STREET Count by Crain & Associates East/West 12TH STREET Day: ΑM **TUESDAY** Date: MAY 10, 2005 Weather: **CLEAR** TUESDAY MAY 10, 2005 PM Hours: 7-9 AM 4-6 PM School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 142 8:30 112 7:45 84 7:45 0 7:00 PM PK 15 MIN 252 4:45 212 5:30 98 5:30 3:00 **AM PK HOUR** 383 7:45 500 8:00 288 7:45 7:00 PM PK HOUR 619 4:45 713 4:45 362 4:00 0 3:00 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Th Rt Total Hours Th Rt Total N-S Ped Sch Ped Sch 7 - 8 0 275 14 289 7 - 8 47 246 0 293 582 N/A N/A N/A N/A 500 N/A N/A N/A N/A 8 - 9 0 442 58 8 - 9 67 276 0 343 843 N/A N/A N/A N/A 487 590 4 - 5 0 103 4 - 5 112 522 634 1.224 0 N/A N/A N/A N/A 5 - 6 0 388 59 447 5 - 6 97 611 0 708 1,155 **TOTAL** 0 1,592 234 1,826 TOTAL 323 1,655 0 1,978 3,804 N/A N/A N/A N/A **WESTBOUND Approach EASTBOUND Approach** TOTAL XING W/L XING E/L Rt E-W Ped Sch Ped Sch Hours Th Rt Total Hours Th Total 7 - 8 20 136 19 175 7 - 8 0 175 N/A N/A N/A N/A

0

0

0

0

0

0

0

0

0

0

287

362

327

1,151

0

0

0

0

N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A N/A N/A

N/A N/A

8 - 9

4 - 5

5 - 6

**TOTAL** 

40

59

62

181

31

98

79

216

205

186

743 227

287

362

327

1,151

8 - 9

4 - 5

5 - 6

City of Los Angeles STREET: **Department of Transportation** North/South **HILL STREET** Count by Crain & Associates East/West **PICO BOULEVARD** Day: ΑM **THURSDAY** Date: MAY 12, 2005 Weather: **CLEAR** THURSDAY MAY 12, 2005 PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 99 7:45 173 7:45 106 8:00 92 8:45 PM PK 15 MIN 103 5:00 219 5:30 111 5:15 132 5:00 **AM PK HOUR** 582 7:30 368 7:45 392 8:00 350 7:30 **PM PK HOUR** 366 4:45 791 5:00 432 4:30 482 5:00 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Th Rt Total Hours Rt Total N-S Ped Sch Ped Sch 7 - 8 53 148 53 254 7 - 8 37 365 68 470 724 N/A N/A N/A N/A 8 - 9 N/A N/A N/A N/A 8 - 9 84 196 66 346 30 362 71 463 809 N/A N/A N/A N/A 146 256 488 4 - 5 50 60 4 - 5 16 398 74 744 1,142 N/A N/A N/A N/A 5 - 6 73 183 95 351 5 - 6 16 708 67 791 **TOTAL** 260 673 274 1,207 TOTAL 99 1,833 280 2,212 3,419 N/A N/A N/A N/A **EASTBOUND Approach** WESTBOUND Approach TOTAL XING W/L XING E/L

E-W

566

742

789

859

2,956

Total 274

350

362

482

1,468

Ped Sch

N/A N/A

N/A N/A

N/A N/A

N/A N/A

N/A N/A

Ped Sch

N/A N/A

N/A N/A

N/A N/A N/A N/A

N/A N/A

| LAGIBOON | D Apploa | CII   |     |       | WESTBOOMD Approach |     |       |    |  |  |  |  |
|----------|----------|-------|-----|-------|--------------------|-----|-------|----|--|--|--|--|
| Hours    | Lt       | Th    | Rt  | Total | Hours              | Lt  | Th    | Rt |  |  |  |  |
| 7 - 8    | 27       | 240   | 25  | 292   | 7 - 8              | 16  | 240   | 18 |  |  |  |  |
| 8 - 9    | 21       | 340   | 31  | 392   | 8 - 9              | 16  | 320   | 14 |  |  |  |  |
| 4 - 5    | 23       | 354   | 50  | 427   | 4 - 5              | 32  | 314   | 16 |  |  |  |  |
| 5 - 6    | 30       | 295   | 52  | 377   | 5 - 6              | 36  | 421   | 25 |  |  |  |  |
| TOTAL    | 101      | 1,229 | 158 | 1,488 | TOTAL              | 100 | 1,295 | 73 |  |  |  |  |

City of Los Angeles STREET: **Department of Transportation** North/South **BROADWAY** Count by Crain & Associates East/West **PICO BOULEVARD** Day: ΑM **TUESDAY** Date: **DECEMBER 7, 2004** Weather: **CLEAR** TUESDAY DECEMBER 7, 2004 PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 228 8:00 95 8:00 89 8:15 76 8:00 PM PK 15 MIN 208 5:00 220 5:00 137 5:00 133 5:00 **AM PK HOUR** 337 7:45 883 7:45 338 7:30 241 7:15 PM PK HOUR 800 5:00 790 4:30 460 4:30 495 4:15 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Th Rt Total Hours Rt Total N-S Ped Sch Ped Sch 7 - 8 71 694 15 780 7 - 8 10 233 27 270 1,050 N/A N/A N/A N/A N/A N/A N/A N/A 8 - 9 46 780 26 852 8 - 9 31 249 37 317 1,169 N/A N/A N/A N/A 1,346 4 - 5 57 559 648 4 - 5 50 595 53 698 32 1,550 N/A N/A N/A N/A 5 - 6 70 688 42 800 5 - 6 25 656 69 750 **TOTAL** 244 2,721 115 3,080 TOTAL 116 1,733 186 2,035 5,115 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach** TOTAL XING W/L XING E/L Ped Sch Ped Sch Hours Th Rt Total Hours Th Rt Total E-W

166

154

326

346

992

10

26

55

42

133

32

39

66

33

170

208

219

447

421

1,295

481

527

863

856

2,727

N/A N/A

N/A N/A N/A N/A

N/A N/A

7 - 8

8 - 9

4 - 5

5 - 6

**TOTAL** 

68

61

94

85

308

188

226

276

308

998

17

21

46

42

126

273

308

416

435

1,432

7 - 8

8 - 9

4 - 5

5 - 6

City of Los Angeles STREET: **Department of Transportation** North/South **GRAND AVENUE** Count by Crain & Associates 17TH STREET / I-10 WB ON-RAMP East/West Day: ΑM **TUESDAY** Date: MAY 10, 2005 Weather: **CLEAR** PΜ **TUESDAY** MAY 10, 2005 Hours: 7-9 AM 4-6 PM School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 0 7:00 153 8:00 0 7:00 173 8:00 PM PK 15 MIN 0 3:00 418 5:15 0 3:00 297 5:15 **AM PK HOUR** 575 7:15 0 7:00 0 7:00 637 7:45 **PM PK HOUR** 0 3:00 1,597 5:00 0 3:00 #### 5:00 **SOUTHBOUND Approach** XING N/L **NORTHBOUND Approach TOTAL** XING S/L Hours Rt Total Hours Th Rt Total N-S Ped Sch Ped Sch 7 - 8 0 0 0 0 7 - 8 0 418 133 551 551 N/A N/A N/A N/A 8 - 9 0 8 - 9 523 523 N/A N/A N/A N/A 0 0 0 0 398 125 N/A N/A N/A N/A N/A N/A 4 - 5 1,285 1,285 4 - 5 0 0 0 0 760 525 0 5 - 6 5 - 6 717 1,597 N/A N/A 0 0 0 0 0 880 1,597 TOTAL 0 0 0 0 TOTAL 0 2,456 1,500 3,956 3,956 N/A N/A N/A N/A /L

| EASTBOUND A | EASTBOUND Approach |    |    |       |       | WESTBOUND Approach |       |    |       |       | XING W/L | XING E/L |  |
|-------------|--------------------|----|----|-------|-------|--------------------|-------|----|-------|-------|----------|----------|--|
| Hours       | Lt                 | Th | Rt | Total | Hours | Lt                 | Th    | Rt | Total | E-W   | Ped Sch  | Ped Sch  |  |
| 7 - 8       | 0                  | 0  | 0  | 0     | 7 - 8 | 167                | 314   | 0  | 481   | 481   | N/A N/A  | N/A N/A  |  |
| 8 - 9       | 0                  | 0  | 0  | 0     | 8 - 9 | 173                | 456   | 0  | 629   | 629   | N/A N/A  | N/A N/A  |  |
| 4 - 5       | 0                  | 0  | 0  | 0     | 4 - 5 | 113                | 794   | 0  | 907   | 907   | N/A N/A  | N/A N/A  |  |
| 5 - 6       | 0                  | 0  | 0  | 0     | 5 - 6 | 115                | 978   | 0  | 1,093 | 1,093 | N/A N/A  | N/A N/A  |  |
| TOTAL       | 0                  | 0  | 0  | 0     | TOTAL | 568                | 2,542 | 0  | 3,110 | 3,110 | N/A N/A  | N/A N/A  |  |

City of Los Angeles STREET: **Department of Transportation** North/South **GRAND AVENUE** Count by Crain & Associates 18TH STREET / I-10 EB OFF-RAMP East/West Day: ΑM WEDNESDAY Date: MAY 11, 2005 Weather: **CLEAR** WEDNESDAY MAY 11, 2005 PM Hours: 7-9 AM 4-6 PM School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 54 8:00 150 7:45 296 8:00 7:00 PM PK 15 MIN 50 5:00 265 4:45 238 4:30 3:00 **AM PK HOUR** 189 7:45 575 7:15 1,135 7:45 7:00 **PM PK HOUR** 890 4:15 770 4:00 163 4:45 3:00 **SOUTHBOUND Approach NORTHBOUND Approach TOTAL** XING S/L XING N/L Hours Rt Total Hours Rt Total N-S Ped Sch Ped Sch 7 - 8 0 0 155 155 7 - 8 115 457 572 727 N/A N/A N/A N/A 8 - 9 0 186 8 - 9 512 N/A N/A N/A N/A 0 186 105 407 0 698 4 - 5 N/A N/A N/A N/A N/A N/A 0 132 132 888 4 - 5 0 217 671 0 1,020 5 - 6 744 N/A N/A 0 0 151 151 5 - 6 186 558 0 895 **TOTAL** 0 0 624 624 TOTAL 623 2,093 2,716 3,340 N/A N/A N/A N/A XING E/L EASTROLING A

| EASTBOUND Approach |            |                                     |   | WESTBOUN  | WESTBOUND Approach  |   |   |  |  | XING W/L  | XING E   | :/L   |
|--------------------|------------|-------------------------------------|---|---|---|---|---|--|--|---|--|---|
| Lt                 | Th         | Rt                                  | Total   | Hours   | Lt  | Th  | Rt  | Total  | E-W  | Ped Sch   | Ped Sc   | :h  |
| 0                  | 708        | 101                                 | 809   | 7 - 8   | 0   | 0   | 0   | 0  | 809  | N/A N/A   | N/A N/   | Ά   |
| 0                  | 1,029      | 99                                  | 1,128   | 8 - 9   | 0   | 0   | 0   | 0  | 1,128  | N/A N/A   | N/A N/   | Α   |
| 0                  | 639        | 131                                 | 770   | 4 - 5   | 0   | 0   | 0   | 0  | 770  | N/A N/A   | N/A N/   | Ά   |
| 0                  | 522        | 146                                 | 668   | 5 - 6   | 0   | 0   | 0   | 0  | 668  | N/A N/A   | N/A N/   | Α   |
| 0                  | 2,898      | 477                                 | 3,375   | TOTAL   | 0   | 0   | 0   | 0  | 3,375  | N/A N/A   | N/A N/   | Ά   |
|                    | Lt 0 0 0 0 | Lt Th  0 708  0 1,029  0 639  0 522 | Lt Th Rt  0 708 101  0 1,029 99  0 639 131  0 522 146 | Lt Th Rt Total  0 708 101 809  0 1,029 99 1,128  0 639 131 770  0 522 146 668 | Lt Th Rt Total Hours  0 708 101 809 7 - 8  0 1,029 99 1,128 8 - 9  0 639 131 770 4 - 5  0 522 146 668 5 - 6 | Lt Th Rt Total Hours Lt  0 708 101 809 7 - 8 0 0 1,029 99 1,128 8 - 9 0 0 639 131 770 4 - 5 0 0 522 146 668 5 - 6 0 | Lt Th Rt Total Hours Lt Th  0 708 101 809 7-8 0 0  0 1,029 99 1,128 8-9 0 0  0 639 131 770 4-5 0 0  0 522 146 668 5-6 0 0 | Lt Th Rt Total Hours Lt Th Rt  0 708 101 809 7-8 0 0 0  0 1,029 99 1,128 8-9 0 0 0  0 639 131 770 4-5 0 0 0  0 522 146 668 5-6 0 0 0 | Lt         Th         Rt         Total         Hours         Lt         Th         Rt         Total           0         708         101         809         7 - 8         0         0         0         0           0         1,029         99         1,128         8 - 9         0         0         0         0           0         639         131         770         4 - 5         0         0         0         0           0         522         146         668         5 - 6         0         0         0         0 | Lt Th Rt Total Hours Lt Th Rt Total E-W  0 708 101 809 7 - 8 0 0 0 0 0 809  0 1,029 99 1,128 8 - 9 0 0 0 0 0 1,128  0 639 131 770 4 - 5 0 0 0 0 0 770  0 522 146 668 5 - 6 0 0 0 0 0 68 | Lt Th Rt Total Hours Lt Th Rt Total E-W Ped Sch 0 708 101 809 7 - 8 0 0 0 0 809 N/A N/A 0 1,029 99 1,128 8 - 9 0 0 0 0 1,128 N/A N/A 0 639 131 770 4 - 5 0 0 0 0 0 770 N/A N/A 0 522 146 668 5 - 6 0 0 0 0 6 668 N/A N/A | Lt Th Rt Total Hours Lt Th Rt Total E-W Ped Sch Ped Sch O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |

City of Los Angeles STREET: **Department of Transportation** North/South LOS ANGELES STREET Count by Crain & Associates East/West 17TH STREET / I-10 WB OFF RAMP Day: ΑM WEDNESDAY Date: **DECEMBER 15, 2004** Weather: **CLEAR** WEDNESDAY **DECEMBER 15, 2004** PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-**WHEELED** N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 80 8:00 92 8:30 0 7:00 317 8:30 PM PK 15 MIN 68 5:00 276 5:45 3:00 215 4:30 **AM PK HOUR** 312 7:45 7:45 293 7:45 0 7:00 1,173 PM PK HOUR 230 4:45 990 5:00 0 3:00 796 4:00 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Th Rt Total Hours Th Rt Total N-S Ped Sch Ped Sch 7 - 8 31 185 0 216 7 - 8 0 209 42 251 467 N/A N/A N/A N/A 310 N/A N/A N/A N/A 8 - 9 30 251 0 281 8 - 9 0 260 50 591 N/A N/A N/A N/A N/A N/A 4 - 5 19 178 197 4 - 5 0 600 155 755 952 0 N/A N/A 5 - 6 39 187 0 226 5 - 6 0 760 230 990 1,216 **TOTAL** 119 801 0 920 TOTAL 0 1,829 477 2,306 3,226 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach** TOTAL XING W/L XING E/L Rt E-W Ped Sch Ped Sch Hours Total Hours Th Rt Total

660

824

534

386

2,404

132

124

91

433

106

205

138

62

511

852

796

539

3,348

1,161

852

796

539

3,348

1,161

N/A N/A

N/A N/A

N/A N/A N/A N/A

N/A N/A

N/A N/A

N/A N/A N/A N/A N/A N/A

N/A N/A

7 - 8

8 - 9

4 - 5

5 - 6

**TOTAL** 

0

0

0

0

0

0

0 0

0

0 0

0

0

0

0

0

0

0

7 - 8

8 - 9

4 - 5

5 - 6

STREET:

5 - 6

**TOTAL** 

724

2,318

120

1.184

3,313

340

736 259 5 - 6

**TOTAL** 

City of Los Angeles **Department of Transportation** 

1,184

3,313

0

0

N/A N/A

N/A N/A

N/A N/A

North/South LOS ANGELES STREET Count by Crain & Associates East/West 18TH STREET / I-10 EB ON-RAMP Day: ΑM WEDNESDAY Date: **DECEMBER 15, 2004** Weather: **CLEAR** WEDNESDAY **DECEMBER 15, 2004** PM 7-9 AM 4-6 PM Hours: School Day: YES District: LOS ANGELES N/B S/B E/B W/B DUAL-WHEELED N/A N/A N/A N/A **BIKES** N/A N/A N/A N/A **BUSES** N/A N/A N/A N/A N/B TIME S/B TIME E/B TIME W/B TIME AM PK 15 MIN 134 7:45 84 8:15 159 8:15 0 7:00 PM PK 15 MIN 169 4:45 134 5:45 322 5:30 3:00 301 8:00 **AM PK HOUR** 477 7:30 540 7:30 0 7:00 PM PK HOUR 584 4:45 482 5:00 1,184 5:00 0 3:00 **NORTHBOUND Approach SOUTHBOUND Approach TOTAL** XING S/L XING N/L Hours Th Rt Total Hours Rt Total N-S Ped Sch Ped Sch 7 - 8 0 385 18 403 7 - 8 191 207 610 N/A N/A N/A N/A 16 N/A N/A N/A N/A 8 - 9 0 393 19 412 8 - 9 36 265 0 301 713 N/A N/A N/A N/A 526 4 - 5 0 517 4 - 5 18 383 401 927 9 0 N/A N/A N/A N/A 5 - 6 0 521 12 533 5 - 6 17 465 0 482 1,015 **TOTAL** 0 1,816 58 1,874 TOTAL 87 1,304 0 1,391 3,265 N/A N/A N/A N/A **EASTBOUND Approach WESTBOUND Approach** TOTAL XING W/L XING E/L Rt Rt E-W Ped Sch Ped Sch Hours Th Total Hours Th Total 7 - 8 417 60 29 506 7 - 8 0 506 N/A N/A N/A N/A 8 - 9 409 473 8 - 9 0 473 N/A N/A N/A N/A 46 18 0 N/A N/A N/A N/A 4 - 5 768 290 92 1.150 4 - 5 0 0 1,150 N/A N/A 0 0

0

0

0

0

0

0

|                      | APPENDIX B           |                  |
|----------------------|----------------------|------------------|
| RELATED PROJECT TRIP | GENERATION RATES AND | <b>EQUATIONS</b> |
|                      |                      |                  |
|                      |                      |                  |

# Appendix B Related Projects Trip Generation Rates and Equations

#### Mini-Warehouse (trips per 1,000 sq. ft.) – LU 151

Daily: T = 2.50 (A)

AM Peak Hour: T = 0.15 (A); I/B = 59%, O/B = 41% PM Peak Hour: T = 0.26 (A); I/B = 51%, O/B = 49%

#### Apartment (trips per dwelling unit) - LU 220

Daily: T = 6.72 (U)

AM Peak Hour: T = 0.51 (U); I/B = 20%; O/B = 80%PM Peak Hour: T = 0.62 (U); I/B = 65%; O/B = 35%

#### High-Rise Apartment (trips per dwelling unit) – LU 222

Daily: T = 4.20 (U)

AM Peak Hour: T = 0.30 (U); I/B = 25%; O/B = 75% PM Peak Hour: T = 0.35 (U); I/B = 61%; O/B = 39%

#### Residential Condominium/Townhouse (trips per dwelling unit) - LU 230

Daily: T = 5.86 (U)

AM Peak Hour: T = 0.44 (U); I/B = 17%; O/B = 83% PM Peak Hour: T = 0.52 (U); I/B = 67%; O/B = 33%

### Hotel (trips per room) - LU 310

Daily: T = 8.17 (R)

AM Peak Hour: T = 0.56 (R); I/B = 61%, O/B = 39%PM Peak Hour: T = 0.59 (R); I/B = 53%, O/B = 47%

# Live Theater (trips per seat) - LU 443

Daily: T = 1.76 (St)

AM Peak Hour<sup>[1]</sup>: T = 0.01 (St); I/B = 80%, O/B = 20% PM Peak Hour: T = 0.32 (St); I/B = 94%, O/B = 6%

# Movie Theater without Matinee (trips per 1,000 sq. ft.) – LU 443

Daily: T = 78.06 (A)

AM Peak Hour<sup>[1]</sup>: T = 0.22 (A); I/B = 80%, O/B = 20% PM Peak Hour: T = 6.16 (A); I/B = 94%, O/B = 6%

# Health/Fitness Club (trips per 1,000 sq. ft.) - LU 492

Daily: T = 32.93 (A)

AM Peak Hour: T = 1.21 (A); I/B = 42%, O/B = 58% PM Peak Hour: T = 4.05 (A); I/B = 51%, O/B = 49%

# High School (trips per student) - LU 530

Daily: T = 1.71 (S)

AM Peak Hour: T = 0.41 (S); I/B = 69%, O/B = 31% PM Peak Hour: T = 0.14 (S); I/B = 47%, O/B = 53%

# Appendix B (continued) Related Projects Trip Generation Rates and Equations

#### General Office Building (trips per 1,000 sq. ft.) - LU 710

Daily: Ln(T) = 0.77 Ln(A) + 3.65

AM Peak Hour: Ln(T) = 0.80 Ln(A) + 1.55; I/B = 88%, O/B = 12%

PM Peak Hour: T = 1.12 (A) + 78.81; I/B = 17%, O/B = 83%

#### Medical-Dental Office Building (trips per 1,000 sq. ft.) - LU 720

Daily: T = 36.13 (A)

AM Peak Hour: T = 2.48 (A); I/B = 79%, O/B = 21% PM Peak Hour: T = 3.72 (A); I/B = 27%, O/B = 73%

#### Shopping Center (trips per 1,000 sq. ft.) – LU 820

Daily: Ln(T) = 0.65 Ln(A) + 5.83

AM Peak Hour: Ln (T) = 0.60 Ln (A) + 2.29; I/B = 61%, O/B = 39% PM Peak Hour: Ln (T) = 0.66 Ln (A) + 3.40; I/B = 48%, O/B = 52%

### Quality Restaurant (trips per 1,000 sq. ft.) - LU 931

Daily: T = 89.95 (A)

AM Peak Hour: T = 0.81 (A); I/B = 82%, O/B = 18% PM Peak Hour: T = 7.49 (A); I/B = 67%, O/B = 33%

#### Fast-Food Restaurant with Drive-Through Window (trips per 1,000 sq. ft.) - LU 934

Daily: T = 496.12 (A)

AM Peak Hour: T = 53.11 (A); I/B = 51%, O/B = 49% PM Peak Hour: T = 34.64 (A); I/B = 52%, O/B = 48%

# Drinking Place (trips per 1,000 sq. ft.) - LU 936

Daily<sup>[2]</sup>: T = 89.95 (A)

AM Peak Hour<sup>[2]</sup>: T = 0.81 (A); I/B = 82%, O/B = 18% PM Peak Hour: T = 11.34 (A); I/B = 66%, O/B = 34%

#### Where:

T = trip ends A = building area in 1,000's of square feet

I/B = inbound U = dwelling unit

O/B = outbound R = room

S = student St = seat

#### Notes:

- [1] AM peak hour inbound and outbound percentages not available; assumed 80% inbound and 20% outbound percentages.
- [2] Daily and AM peak hour rates not available; assumed quality restaurant rates.

#### Source:

Trip Generation, 7th Edition, Institute of Transportation Engineers, Washington D.C., 2003.

# APPENDIX C CRITICAL MOVEMENT ANALYSIS WORKSHEETS

# TRAFFIC ANALYSIS FOR THE HERALD EXAMINER MIXED-USE PROJECT CITY OF LOS ANGELES

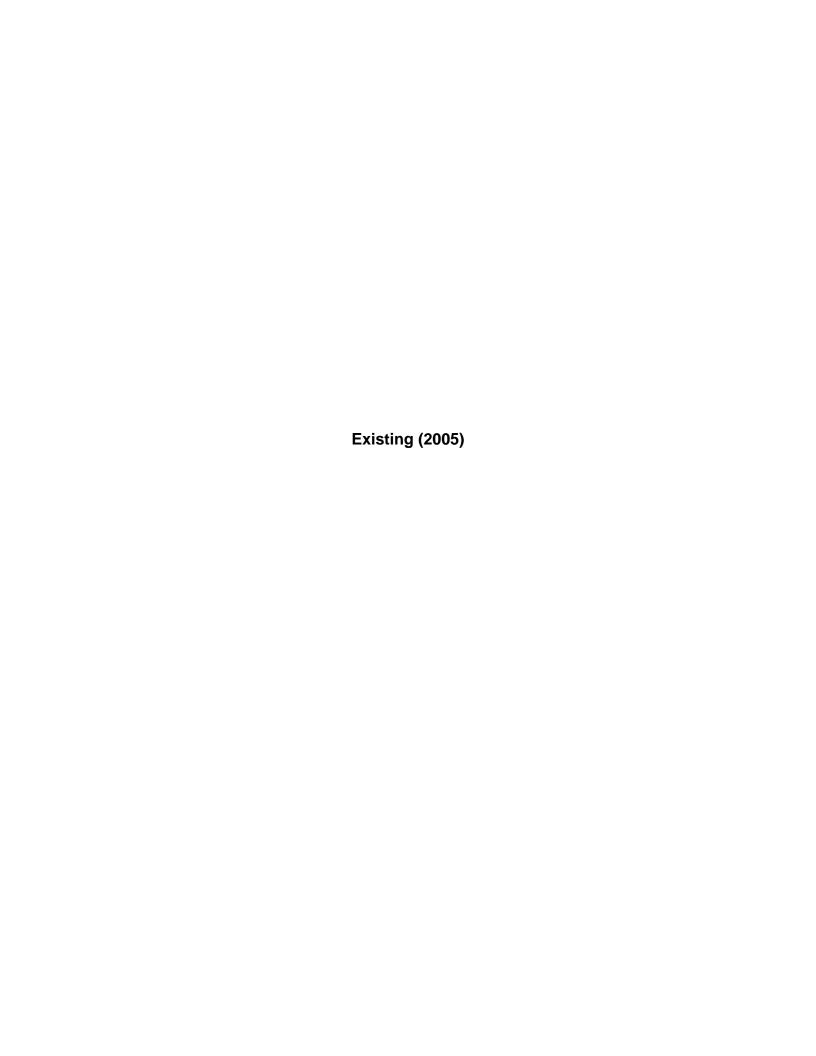
**Prepared for:** 

**URBAN PARTNERS, LLC** 

Prepared by:

Crain & Associates 2007 Sawtelle Boulevard, Suite 4 Los Angeles, California 90025 (310) 473-6508

# APPENDIX C CMA CALCULATION WORKSHEETS



INTERSECTION:1, OLYMPIC BOULEVARD & HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH               |               |           |                | * *      | 1             | IGHT TURN | _              |
|------------------------|---------------|-----------|----------------|----------|---------------|-----------|----------------|
| MECHDOIND              | LEFT          |           | THROUGH<br>535 | MΙ       | N ON GR<br>55 | ZEEN M    | AX ON RED<br>0 |
| WESTBOUND<br>EASTBOUND | 45<br>26      |           | 968            |          | 55<br>86      |           | 0              |
| NORTHBOUND             |               |           | 18             |          | 4             |           | 0              |
| SOUTHBOUND             |               |           | 451            |          | 18            |           | 73             |
| SOUTHBOOKD             | 30            |           | 431            |          | 10            |           | 73             |
|                        |               | * *       | NUMBER         | OF LANES | **            |           |                |
| APPROACH               | LEFT          | LEFT      | THROUGH        | RIGHT    | RIGHT         | L/T/R     | TOTAL          |
|                        | ONLY          | SHARED    | ONLY           | SHARED   | ONLY          | SHARED    | LANES          |
| WESTBOUND              | 0             | 1         | 1              | 1        | 0             | 0         | 3              |
| EASTBOUND              | 0             | 1         | 1              | 1        | 0             | 0         | 3              |
| NORTHBOUND             |               | 0         | 1              | 1        | 0             | 0         | 3              |
| SOUTHBOUND             | 1             | 0         | 2              | 0        | 1             | 0         | 4              |
|                        |               | ** ASS    | IGNED LAN      | E VOLUME | IS **         |           |                |
| APPROACH               | LEFT          | LEF:      | r THRC         | UGH      | RIGHT         | RIGHT     | L/T/R          |
|                        | ONLY          | SHARI     | ED ON          | ILY S    | HARED         | ONLY      | SHARED         |
| WESTBOUND              | N/A           | 84        | 4 2            | 76       | 276           | N/A       | N/A            |
| EASTBOUND              | N/A           | 326       | 5 3            | 77       | 377           | N/A       | N/A            |
| NORTHBOUND             |               | N/I       |                | 11       | 11            | N/A       | N/A            |
| SOUTHBOUND             | 58            | N/Z       | A 2            | 26       | N/A           | 18        | N/A            |
|                        |               |           |                |          |               |           |                |
|                        | EAST-WEST CRI | TICAL V   | OLUMES         |          |               | 422       |                |
|                        | NORTH-SOUTH C | CRITICAL  | VOLUMES        |          |               | 232       |                |
|                        | THE SUM OF CF | RITICAL V | VOLUMES .      |          |               | 654       |                |
|                        | NUMBER OF CRI | TICAL C   | LEARANCE       | INTERVAL | .S            | 2*        |                |
|                        | CMA VALUE     |           |                |          |               | 0.388     |                |
|                        | LEVEL OF SERV | 7ICE      |                |          |               | A         |                |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:2, OLYMPIC BOULEVARD & BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH WESTBOUND EASTBOUND NORTHBOUND SOUTHBOUND | LEFT<br>18<br>33<br>82<br>52                |   | THROUGH<br>662<br>911<br>745<br>390 |   | * I<br>IIN ON GI<br>39<br>33<br>38<br>93    | RIGHT TURN<br>REEN M               | S ** AX ON RED 0 0 0 0               |
|--|---|---|-------------------------------------|---|---|------------------------------------|--------------------------------------|
|  |   | * *                                       | NUMBER                              | OF LANE                                 | S **  |                                    |                                      |
| APPROACH WESTBOUND EASTBOUND NORTHBOUND SOUTHBOUND | LEFT<br>ONLY<br>0<br>0<br>1                 | LEFT<br>SHARED<br>1<br>1<br>0             | THROUGH<br>ONLY<br>1<br>1<br>1      | RIGHT<br>SHARED<br>1<br>1<br>1          | _   | L/T/R<br>SHARED<br>0<br>0<br>0     | TOTAL<br>LANES<br>3<br>3<br>3        |
|  |   | ** ASSI                                   | GNED LAI                            | NE VOLUM                                | IES **                                      |                                    |                                      |
| APPROACH WESTBOUND EASTBOUND NORTHBOUND SOUTHBOUND | LEFT<br>ONLY<br>N/A<br>N/A<br>82<br>52      | LEFT<br>SHARE<br>195<br>270<br>N/A<br>N/A | ID OI                               | DUGH<br>NLY<br>262<br>353<br>392<br>242 | RIGHT<br>SHARED<br>262<br>353<br>392<br>242 | RIGHT<br>ONLY<br>N/A<br>N/A<br>N/A | L/T/R<br>SHARED<br>N/A<br>N/A<br>N/A |
|  | EAST-WEST CF<br>NORTH-SOUTH<br>THE SUM OF C | CRITICAL                                  | VOLUMES                             |   |   | 371<br>444<br><br>815              |                                      |

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2\*

CMA VALUE ..... 0.504

LEVEL OF SERVICE ..... A

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize *}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 3, US-110 SB OFF-RAMP AND BLAINE STREET/CONNECTICUT STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |          |           | * *      | ·      | RIGHT TURN | S **      |
|------------|---------------|----------|-----------|----------|--------|------------|-----------|
|            | LEFT          |          | THROUGH   | MI       | N ON G | REEN M     | AX ON RED |
| WESTBOUND  | 120           |          | 0         |          | 268    |            | 93        |
| EASTBOUND  | 0             |          | 0         |          | 24     |            | 0         |
| NORTHBOUND |               |          | 0         |          | 0      |            | 0         |
| SOUTHBOUND | 0             |          | 354       |          | 19     |            | 0         |
|            |               | **       | NUMBER    | OF LANES | 3 **   |            |           |
| APPROACH   | LEFT          | LEFT     | THROUGH   | RIGHT    | RIGHT  | L/T/R      | TOTAL     |
|            | ONLY          | SHARED   | ONLY      | SHARED   | ONLY   | SHARED     | LANES     |
| WESTBOUND  | 0             | 1        | 0         | 0        | 2      | 0          | 3         |
| EASTBOUND  | 0             | 0        | 0         | 0        | 1      | 0          | 1         |
| NORTHBOUND | 0             | 0        | 0         | 0        | 0      | 0          | 0         |
| SOUTHBOUND | 0             | 0        | 1         | 1        | 0      | 0          | 2         |
|            |               | ** ASS   | IGNED LAN | E VOLUME | ES **  |            |           |
| APPROACH   | LEFT          | LEF'     | r THRO    | UGH      | RIGHT  | RIGHT      | L/T/R     |
|            | ONLY          | SHARI    | ED ON     | LY S     | SHARED | ONLY       | SHARED    |
| WESTBOUND  | N/A           | 120      | 0 N       | /A       | N/A    | 134        | N/A       |
| EASTBOUND  | N/A           | N/I      | A N       | /A       | N/A    | 24         | N/A       |
| NORTHBOUND | N/A           | N/I      | A N       | /A       | N/A    | N/A        | N/A       |
| SOUTHBOUND | N/A           | N/Z      | A 1       | 86       | 186    | N/A        | N/A       |
|            |               |          |           |          |        |            |           |
|            | EAST-WEST CRI |          |           |          |        | 144<br>186 |           |
|            | THE SUM OF CR | ITICAL V | VOLUMES . |          |        | 330        |           |
|            | NUMBER OF CRI | TICAL C  | LEARANCE  | INTERVAL | JS     | 3*         |           |
|            | CMA VALUE     |          |           |          |        | 0.185      |           |
|            | LEVEL OF SERV | TICE     |           |          |        | А          |           |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION: 4, 11TH STREET AND BLAINE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |          |              | * *       | •      | RIGHT TUR | NS **      |
|------------|---------------|----------|--------------|-----------|--------|-----------|------------|
|            | LEFT          |          | THROUGH      | MI        | N ON C | GREEN 1   | MAX ON RED |
| WESTBOUND  | 31            |          | 139          |           | (      |           | 0          |
| EASTBOUND  | 0             |          | 129          |           | 265    |           | 0          |
| NORTHBOUND |               |          | 0            |           |        | )         | 0          |
| SOUTHBOUND | 76            |          | 343          |           | 72     | 2         | 0          |
|            |               | **       | NUMBER       | OF LANES  | 3 **   |           |            |
| APPROACH   | LEFT          | LEFT     | THROUGH      | RIGHT     | RIGHT  | Γ L/T/R   | TOTAL      |
|            | ONLY          | SHARED   | ONLY         | SHARED    | ONLY   | Z SHARED  | LANES      |
| WESTBOUND  | 0             | 1        | 1            | 0         | 0      | 0         | 2          |
| EASTBOUND  | 0             | 0        | 1            | 0         | 1      | 0         | 2          |
| NORTHBOUND | 0             | 0        | 0            | 0         | 0      | 0         | 0          |
| SOUTHBOUND | 1             | 1        | 0            | 1         | 0      | 0         | 3          |
|            |               | ** ASS:  | IGNED LAN    | IE VOLUME | IS **  |           |            |
| APPROACH   | LEFT          | LEF:     | r THRC       | UGH       | RIGHT  | RIGHT     | L/T/R      |
|            | ONLY          | SHARI    | ED ON        | ILY S     | SHARED | ONLY      | SHARED     |
| WESTBOUND  | N/A           | 8!       | 5            | 85        | N/A    | N/A       | N/A        |
| EASTBOUND  | N/A           | N/I      | A 1          | .29       | N/A    | 265       | N/A        |
| NORTHBOUND | ,             | N/I      | $A \qquad A$ | I/A       | N/A    | N/A       | N/A        |
| SOUTHBOUND | 76            | N/A      | A 2          | 808       | 208    | N/A       | N/A        |
|            |               |          |              |           |        |           |            |
|            | EAST-WEST CRI | -        |              |           |        |           |            |
|            | THE SUM OF CR | ITICAL V | VOLUMES .    |           |        | . 558     |            |
|            | NUMBER OF CRI | TICAL C  | LEARANCE     | INTERVAL  | JS     | . 3*      |            |
|            | CMA VALUE     |          |              |           |        | . 0.331   |            |
|            | LEVEL OF SERV | TICE     |              |           |        | . А       |            |

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation. Eastbound and Westbound approaches have opposed signal phases.

INTERSECTION:5, 11TH STREET/CHICK HEARN COURT AND CHERRY STREET/US-110 NB ON-RAMP

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |                             |           |            | *        | * F           | RIGHT TURN | S **      |
|------------|-----------------------------|-----------|------------|----------|---------------|------------|-----------|
|            | LEFT                        |           | THROUGH    | IV.      | IIN ON GF     | REEN M     | AX ON RED |
| WESTBOUND  | 74                          |           | 76         |          | 49            |            | 0         |
| EASTBOUND  | 95                          |           | 53         |          | 48            |            | 0         |
| NORTHBOUND | 136                         |           | 664        |          | 102           |            | 37        |
| SOUTHBOUND | 0                           |           | 0          |          | 0             |            | 0         |
|            |                             | **        | NUMBER     | OF LANE  | lS **         |            |           |
| APPROACH   | LEFT                        | LEFT      | THROUGH    | ртсит    | RIGHT         | L/T/R      | TOTAL     |
| APPROACH   | ONLY                        | SHARED    | ONLY       | SHARED   | _             | SHARED     | LANES     |
| WESTBOUND  | 1                           | 0         | 2          | 0        | ) ONDI        | 0          | 4         |
| EASTBOUND  | 0                           | 1         | 0          | 1        | 0             | 0          | 2         |
| NORTHBOUND | •                           | 0         | 1          | 0        | 2             | 0          | 4         |
| SOUTHBOUND |                             | 0         | 0          | 0        | 0             | 0          | 0         |
|            |                             |           |            |          |               |            |           |
|            |                             | ** ASSI   | IGNED LAN  | IE VOLUM | IES **        |            |           |
| APPROACH   | LEFT                        | LEFT      | THRC       | UGH      | RIGHT         | RIGHT      | L/T/R     |
|            | ONLY                        | SHARI     | ED ON      | ILY      | SHARED        | ONLY       | SHARED    |
| WESTBOUND  | 74                          | N/I       | Ą          | 38       | N/A           | 49         | N/A       |
| EASTBOUND  | N/A                         | 98        | 3 <i>v</i> | I/A      | 98            | N/A        | N/A       |
| NORTHBOUND | 136                         | N/I       | 4 6        | 64       | N/A           | 51         | N/A       |
| SOUTHBOUND | N/A                         | N/P       | J N        | I/A      | N/A           | N/A        | N/A       |
|            |                             |           |            |          |               |            |           |
|            |                             |           |            |          |               | 170        |           |
|            | EAST-WEST CR<br>NORTH-SOUTH |           |            |          |               | 172<br>664 |           |
|            |                             |           |            |          |               |            |           |
|            | THE SUM OF C                | RITICAL V | OLUMES .   |          | • • • • • • • | 836        |           |
|            | NUMBER OF CR                | ITICAL CI | LEARANCE   | INTERVA  | LS            | 2*         |           |

Capacity used = 1350.

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CMA VALUE ..... 0.519

LEVEL OF SERVICE ..... A

<sup>-----</sup>

 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:6, 11TH STREET AND OLIVE AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |               |           |           | * *             | 10        | IGHT TURN | _         |  |  |
|-----------------------------|---------------|-----------|-----------|-----------------|-----------|-----------|-----------|--|--|
|                             | LEFT          |           | THROUGH   | MI              | N ON GR   | EEN M     | AX ON RED |  |  |
| WESTBOUND                   | 0             |           | 224       |                 | 86        |           | 0         |  |  |
| EASTBOUND                   | 0             |           | 1414      |                 | 0         |           | 0         |  |  |
| NORTHBOUND<br>SOUTHBOUND    |               |           | 1414<br>0 |                 | 0<br>0    |           | 0         |  |  |
| SOUTHBOUND                  | U             |           | U         |                 | U         |           | U         |  |  |
|                             |               | **        | NUMBER    | OF LANES        | **        |           |           |  |  |
| APPROACH                    | LEFT          | LEFT      | THROUGH   | RIGHT           | RIGHT     | L/T/R     | TOTAL     |  |  |
|                             | ONLY          | SHARED    | ONLY      | SHARED          | ONLY      | SHARED    | LANES     |  |  |
| WESTBOUND                   | 0             | 0         | 2         | 0               | 1         | 0         | 3         |  |  |
| EASTBOUND                   | 0             | 0         | 0         | 0               | 0         | 0         | 0         |  |  |
| NORTHBOUND                  | 0             | 1         | 3         | 0               | 0         | 0         | 4         |  |  |
| SOUTHBOUND                  | 0             | 0         | 0         | 0               | 0         | 0         | 0         |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |           |           |                 |           |           |           |  |  |
| APPROACH                    | LEFT          | LEF       | THRO      | UGH             | RIGHT     | RIGHT     | L/T/R     |  |  |
|                             | ONLY          | SHAR      | ED ON     | ILY S           | HARED     | ONLY      | SHARED    |  |  |
| WESTBOUND                   | N/A           | N/I       | A 1       | .12             | N/A       | 86        | N/A       |  |  |
| EASTBOUND                   | N/A           | N/I       |           | T/A             | N/A       | N/A       | N/A       |  |  |
| NORTHBOUND                  | •             | 37:       |           | 72              | N/A       | N/A       | N/A       |  |  |
| SOUTHBOUND                  | N/A           | N/I       | A N       | I/A             | N/A       | N/A       | N/A       |  |  |
|                             |               |           |           |                 |           |           |           |  |  |
|                             | EAST-WEST CRI | TICAL V   | OLUMES    |                 |           | 112       |           |  |  |
|                             | NORTH-SOUTH ( | CRITICAL  | VOLUMES   |                 |           | 372       |           |  |  |
|                             |               |           |           |                 |           |           |           |  |  |
|                             | THE SUM OF CF | RITICAL Y | VOLUMES . | • • • • • • • • | • • • • • | 484       |           |  |  |
|                             | NUMBER OF CRI | TICAL C   | LEARANCE  | INTERVAL        | S         | 2*        |           |  |  |
|                             | CMA VALUE     |           |           |                 |           | 0.287     |           |  |  |
|                             | LEVEL OF SERV | 7ICE      |           |                 |           | А         |           |  |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 7, 11TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |               |           |                | * *      | 10          | IGHT TURN | _              |  |  |
|-----------------------------|---------------|-----------|----------------|----------|-------------|-----------|----------------|--|--|
| MECEDOIND                   | LEFT<br>42    |           | THROUGH<br>278 | M⊥       | N ON GR     | EEN MA    | AX ON RED<br>0 |  |  |
| WESTBOUND<br>EASTBOUND      | 0             |           | 276            |          | 93          |           | 0              |  |  |
| NORTHBOUND                  |               |           | 19             |          | 0           |           | 0              |  |  |
| SOUTHBOUND                  |               |           | 477            |          | 47          |           | 0              |  |  |
| BOOTHBOOND                  | O             |           | 1,,            |          | 1,          |           | Ü              |  |  |
|                             |               | **        | NUMBER         | OF LANES | **          |           |                |  |  |
| APPROACH                    | LEFT          | LEFT      | THROUGH        | RIGHT    | RIGHT       | L/T/R     | TOTAL          |  |  |
|                             | ONLY          | SHARED    | ONLY           | SHARED   | ONLY        | SHARED    | LANES          |  |  |
| WESTBOUND                   | 1             | 0         | 1              | 1        | 0           | 0         | 3              |  |  |
| EASTBOUND                   | 0             | 0         | 0              | 0        | 0           | 0         | 0              |  |  |
| NORTHBOUND                  |               | 0         | 2              | 0        | 0           | 0         | 3              |  |  |
| SOUTHBOUND                  | 0             | 0         | 1              | 1        | 0           | 0         | 2              |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |           |                |          |             |           |                |  |  |
| APPROACH                    | LEFT          | LEF'      | THRO           | UGH      | RIGHT       | RIGHT     | L/T/R          |  |  |
|                             | ONLY          | SHAR      | ED ON          | ILY S    | SHARED      | ONLY      | SHARED         |  |  |
| WESTBOUND                   | 42            | N/I       | A 1            | .86      | 186         | N/A       | N/A            |  |  |
| EASTBOUND                   | N/A           | N/2       |                | -        | N/A         | N/A       | N/A            |  |  |
| NORTHBOUND                  | 4             | N/2       | A              | 10       | N/A         | N/A       | N/A            |  |  |
| SOUTHBOUND                  | N/A           | N/I       | A 2            | 62       | 262         | N/A       | N/A            |  |  |
|                             |               |           |                |          |             |           |                |  |  |
|                             | EAST-WEST CRI | TICAL V   | OLUMES         |          |             | 186       |                |  |  |
|                             | NORTH-SOUTH C | CRITICAL  | VOLUMES        |          |             | 266       |                |  |  |
|                             |               |           |                |          |             |           |                |  |  |
|                             | THE SUM OF CF | RITICAL Y | VOLUMES .      |          | • • • • • • | 452       |                |  |  |
|                             | NUMBER OF CRI | TICAL C   | LEARANCE       | INTERVAL | S           | 2*        |                |  |  |
|                             | CMA VALUE     |           |                |          |             | 0.268     |                |  |  |
|                             | LEVEL OF SERV | 7ICE      |                |          |             | А         |                |  |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:8, 11TH STREET AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           | mun outqu      | * *       | 10            | IGHT TURN | _              |
|------------|---------------|-----------|----------------|-----------|---------------|-----------|----------------|
| WESTBOUND  | LEFT<br>51    |           | THROUGH<br>270 | MI        | N ON GR<br>28 | EEN M     | AX ON RED<br>0 |
| EASTBOUND  | 0             |           | 270            |           | 0             |           | 0              |
| NORTHBOUND | -             |           | 871            |           | 0             |           | 0              |
| SOUTHBOUND |               |           | 357            |           | 26            |           | 0              |
|            |               |           |                |           |               |           |                |
|            |               | * *       | NUMBER         | OF LANES  | **            |           |                |
| APPROACH   | LEFT          | LEFT      | THROUGH        | RIGHT     | RIGHT         | L/T/R     | TOTAL          |
|            | ONLY          | SHARED    | ONLY           |           | ONLY          | SHARED    | LANES          |
| WESTBOUND  | 0             | 1         | 1              | 1         | 0             | 0         | 3              |
| EASTBOUND  | 0             | 0         | 0              | 0         | 0             | 0         | 0              |
| NORTHBOUND |               | 0         | 2              | 0         | 0             | 0         | 3              |
| SOUTHBOUND | 0             | 0         | 1              | 1         | 0             | 0         | 2              |
|            |               | ** ASSI   | IGNED LAN      | IE VOLUME | IS **         |           |                |
| APPROACH   | LEFT          | LEFT      | Γ THRC         | UGH       | RIGHT         | RIGHT     | L/T/R          |
|            | ONLY          | SHARI     | ED ON          | ILY S     | SHARED        | ONLY      | SHARED         |
| WESTBOUND  | N/A           | 116       | 5 1            | .16       | 116           | N/A       | N/A            |
| EASTBOUND  | N/A           | N/A       | N A            | I/A       | N/A           | N/A       | N/A            |
| NORTHBOUND | 167           | N/A       | 4              | :36       | N/A           | N/A       | N/A            |
| SOUTHBOUND | N/A           | N/A       | A 1            | .92       | 192           | N/A       | N/A            |
|            |               |           |                |           |               |           |                |
|            | EAST-WEST CRI | TICAL VO  | OLUMES         |           |               | 116       |                |
|            | NORTH-SOUTH ( | CRITICAL  | VOLUMES        |           |               | 436       |                |
|            | THE SUM OF CF | RITICAL V | JOLUMES .      |           |               | 552       |                |
|            | NUMBER OF CRI | TICAL CI  | LEARANCE       | INTERVAL  |               | 2*        |                |
|            | CMA VALUE     |           |                |           |               | 0.327     |                |
|            | LEVEL OF SERV | 7ICE      |                |           |               | A         |                |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:9, 11TH STREET AND MAIN STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |         |                | **       | 10            | IGHT TURNS |                |
|------------|---------------|---------|----------------|----------|---------------|------------|----------------|
| WESTBOUND  | LEFT<br>31    |         | THROUGH<br>228 | M⊥       | N ON GR<br>53 | EEN MA     | AX ON RED<br>0 |
| EASTBOUND  | 0             |         | 220            |          | 0             |            | 0              |
| NORTHBOUND | •             |         | 798            |          | 0             |            | 0              |
| SOUTHBOUND | _             |         | 439            |          | 63            |            | 0              |
|            |               |         |                |          |               |            |                |
|            |               | **      | NUMBER         | OF LANES | **            |            |                |
| APPROACH   | LEFT          | LEFT    | THROUGH        | RIGHT    | RIGHT         | L/T/R      | TOTAL          |
|            | ONLY          | SHARED  | ONLY           | SHARED   | ONLY          | SHARED     | LANES          |
| WESTBOUND  | 0             | 1       | 0              | 1        | 0             | 0          | 2              |
| EASTBOUND  | 0             | 0       | 0              | 0        | 0             | 0          | 0              |
| NORTHBOUND |               | 0       | 2              | 0        | 0             | 0          | 3              |
| SOUTHBOUND | 0             | 0       | 1              | 1        | 0             | 0          | 2              |
|            |               | ** ASS  | IGNED LAN      | E VOLUME | S **          |            |                |
| APPROACH   | LEFT          | LEF'    | r THRC         | UGH      | RIGHT         | RIGHT      | L/T/R          |
|            | ONLY          | SHAR    | ED ON          | ILY S    | HARED         | ONLY       | SHARED         |
| WESTBOUND  | N/A           | 15      | б N            | I/A      | 156           | N/A        | N/A            |
| EASTBOUND  | N/A           | N/I     | A N            | I/A      | N/A           | N/A        | N/A            |
| NORTHBOUND | _             | N/I     |                | 99       | N/A           | N/A        | N/A            |
| SOUTHBOUND | N/A           | N/I     | A 2            | 51       | 251           | N/A        | N/A            |
|            |               |         |                |          |               |            |                |
|            | EAST-WEST CRI |         |                |          |               | 156<br>399 |                |
|            | THE SUM OF CF | RITICAL | VOLUMES .      |          |               | 555        |                |
|            | NUMBER OF CRI | TICAL C | LEARANCE       | INTERVAL | S             | 2*         |                |
|            | CMA VALUE     |         |                |          |               | 0.329      |                |
|            | LEVEL OF SERV | VICE    |                |          |               | А          |                |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:10, 12TH STREET AND OLIVE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH               |               |           |           | **       | 10      | IGHT TURN | _              |
|------------------------|---------------|-----------|-----------|----------|---------|-----------|----------------|
| MECEDOIND              | LEFT<br>0     |           | THROUGH 0 | M⊥       | N ON GR | EEN MA    | AX ON RED<br>0 |
| WESTBOUND<br>EASTBOUND | 76            |           | 223       |          | 0       |           | 0              |
| NORTHBOUND             |               |           | 1513      |          | 25      |           | 0              |
| SOUTHBOUND             |               |           | 1313      |          | 0       |           | 0              |
| BOOTHBOOND             | O             |           | O         |          | O       |           | Ü              |
|                        |               | **        | NUMBER    | OF LANES | **      |           |                |
| APPROACH               | LEFT          | LEFT      | THROUGH   | RIGHT    | RIGHT   | L/T/R     | TOTAL          |
|                        | ONLY          | SHARED    | ONLY      | SHARED   | ONLY    | SHARED    | LANES          |
| WESTBOUND              | 0             | 0         | 0         | 0        | 0       | 0         | 0              |
| EASTBOUND              | 0             | 1         | 0         | 1        | 0       | 0         | 2              |
| NORTHBOUND             |               | 0         | 3         | 1        | 0       | 0         | 4              |
| SOUTHBOUND             | 0             | 0         | 0         | 0        | 0       | 0         | 0              |
|                        |               | ** ASSI   | GNED LAN  | E VOLUME | S **    |           |                |
| APPROACH               | LEFT          | LEFT      | THRO      | UGH      | RIGHT   | RIGHT     | L/T/R          |
|                        | ONLY          | SHARE     | ED ON     | LY S     | HARED   | ONLY      | SHARED         |
| WESTBOUND              | N/A           | N/A       | A N       | /A       | N/A     | N/A       | N/A            |
| EASTBOUND              | N/A           | 150       | ) N       | /A       | 150     | N/A       | N/A            |
| NORTHBOUND             | N/A           | N/A       | A 3       | 84       | 384     | N/A       | N/A            |
| SOUTHBOUND             | N/A           | N/P       | A N       | T/A      | N/A     | N/A       | N/A            |
|                        |               |           |           |          |         |           |                |
|                        | EAST-WEST CRI | TICAL VO  | DLUMES    |          |         | 150       |                |
|                        | NORTH-SOUTH C | CRITICAL  | VOLUMES   |          |         | 384<br>   |                |
|                        | THE SUM OF CR | RITICAL V | OLUMES .  |          |         | 534       |                |
|                        | NUMBER OF CRI | TICAL CI  | LEARANCE  | INTERVAL | S       | 2*        |                |
|                        | CMA VALUE     |           |           |          |         | 0.316     |                |
|                        | LEVEL OF SERV | 'ICE      |           |          |         | А         |                |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:11, 12TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |              |           | milbolidii | * *       | R:<br>IN ON GRI | IGHT TURNS | _              |
|------------|--------------|-----------|------------|-----------|-----------------|------------|----------------|
| WESTBOUND  | LEFT<br>0    |           | THROUGH 0  | IMIT      | .N ON GRI       | FEIN IMI   | AX ON RED<br>0 |
| EASTBOUND  | 0            |           | 203        |           | 33              |            | 0              |
| NORTHBOUND |              |           | 203        |           | 173             |            | 0              |
| SOUTHBOUND |              |           | 458        |           | 1/3             |            | 0              |
| SOUTHBOOKD | 00           |           | 100        |           | O               |            | O              |
|            |              | **        | NUMBER     | OF LANES  | **              |            |                |
| APPROACH   | LEFT         | LEFT      | THROUGH    | RIGHT     | RIGHT           | L/T/R      | TOTAL          |
|            | ONLY         | SHARED    | ONLY       | SHARED    | ONLY            | SHARED     | LANES          |
| WESTBOUND  | 0            | 0         | 0          | 0         | 0               | 0          | 0              |
| EASTBOUND  | 0            | 0         | 1          | 1         | 0               | 0          | 2              |
| NORTHBOUND |              | 0         | 1          | 0         | 1               | 0          | 2              |
| SOUTHBOUND | 1            | 0         | 2          | 0         | 0               | 0          | 3              |
|            |              | ** ASSI   | GNED LAN   | IE VOLUME | IS **           |            |                |
| APPROACH   | LEFT         | LEFT      | THRO       | UGH       | RIGHT           | RIGHT      | L/T/R          |
|            | ONLY         | SHARE     | D ON       | ILY S     | SHARED          | ONLY       | SHARED         |
| WESTBOUND  | N/A          | N/A       | Y N        | 1/A       | N/A             | N/A        | N/A            |
| EASTBOUND  | N/A          | N/A       | . 1        | .18       | 118             | N/A        | N/A            |
| NORTHBOUND | N/A          | N/A       | Δ          | 20        | N/A             | 173        | N/A            |
| SOUTHBOUND | 86           | N/A       | . 2        | 229       | N/A             | N/A        | N/A            |
|            |              |           |            |           |                 |            |                |
|            | EAST-WEST CR | ITICAL VO | LUMES      |           |                 | 118        |                |
|            | NORTH-SOUTH  | CRITICAL  | VOLUMES    |           |                 | 259<br>    |                |
|            | THE SUM OF C | RITICAL V | OLUMES .   |           |                 | 377        |                |
|            | NUMBER OF CR | ITICAL CL | EARANCE    | INTERVAL  | ıS              | 2*         |                |
|            | CMA VALUE    |           |            |           | (               | 0.223      |                |

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LEVEL OF SERVICE .....

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:12, 12TH STREET AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |              |              |           | * *        | R           | IGHT TURNS | s **      |
|------------|--------------|--------------|-----------|------------|-------------|------------|-----------|
|            | LEFT         |              | THROUGH   | MI         | N ON GR     | EEN M      | AX ON RED |
| WESTBOUND  | 0            |              | 0         |            | 0           |            | 0         |
| EASTBOUND  | 128          |              | 263       |            | 35          |            | 0         |
| NORTHBOUND | 0            |              | 884       |            | 43          |            | 0         |
| SOUTHBOUND | 33           |              | 325       |            | 0           |            | 0         |
|            |              | **           | NUMBER    | OF LANES   | **          |            |           |
|            |              |              |           |            |             |            |           |
| APPROACH   | LEFT         | $_{ m LEFT}$ | THROUGH   | RIGHT      | RIGHT       | L/T/R      | TOTAL     |
|            | ONLY         | SHARED       | ONLY      | SHARED     | ONLY        | SHARED     | LANES     |
| WESTBOUND  | 0            | 0            | 0         | 0          | 0           | 0          | 0         |
| EASTBOUND  | 0            | 1            | 0         | 1          | 0           | 0          | 2         |
| NORTHBOUND | 0            | 0            | 1         | 1          | 0           | 0          | 2         |
| SOUTHBOUND | 1            | 0            | 2         | 0          | 0           | 0          | 3         |
|            |              | ** ASS       | IGNED LAN | IE VOLIIME | .s **       |            |           |
|            |              | 1100         | IONED EIN |            |             |            |           |
| APPROACH   | LEFT         | LEF'         | r THRC    | UGH        | RIGHT       | RIGHT      | L/T/R     |
|            | ONLY         | SHAR         | ED ON     | ILY S      | HARED       | ONLY       | SHARED    |
| WESTBOUND  | N/A          | N/2          | A N       | 1/A        | N/A         | N/A        | N/A       |
| EASTBOUND  | N/A          | 21           | 3 N       | 1/A        | 213         | N/A        | N/A       |
| NORTHBOUND | N/A          | N/           | A 4       | 164        | 464         | N/A        | N/A       |
| SOUTHBOUND | 33           | N/2          | A 1       | .62        | N/A         | N/A        | N/A       |
|            |              |              |           |            |             |            |           |
|            |              |              |           |            |             |            |           |
|            | EAST-WEST CR | ITICAL V     | OLUMES    |            |             | 213        |           |
|            | NORTH-SOUTH  | CRITICAL     | VOLUMES   |            |             | 497        |           |
|            |              |              |           |            |             |            |           |
|            | THE SUM OF C | RITICAL '    | VOLUMES . |            | • • • • • • | 710        |           |
|            | NUMBER OF CR | ITICAL C     | LEARANCE  | INTERVAL   | S           | 2*         |           |
|            | CMA VALUE    |              |           |            |             | 0.426      |           |
|            | LEVEL OF SER | VICE         |           |            |             | А          |           |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:13, 12TH STREET AND MAIN STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |               |          |         | * *      | K       | IGHT TURNS |           |  |  |
|-----------------------------|---------------|----------|---------|----------|---------|------------|-----------|--|--|
|                             | LEFT          |          | THROUGH | MI       | N ON GR | EEN MA     | AX ON RED |  |  |
| WESTBOUND                   | 0             |          | 0       |          | 0       |            | 0         |  |  |
| EASTBOUND                   | 31            |          | 230     |          | 34      |            | 0         |  |  |
| NORTHBOUND                  |               |          | 747     |          | 42      |            | 0         |  |  |
| SOUTHBOUND                  | 61            |          | 401     |          | 0       |            | 0         |  |  |
|                             |               | **       | NUMBER  | OF LANES | ; **    |            |           |  |  |
| APPROACH                    | LEFT          | LEFT     | THROUGH | RIGHT    | RIGHT   | L/T/R      | TOTAL     |  |  |
|                             | ONLY          | SHARED   | ONLY    | SHARED   | ONLY    | SHARED     | LANES     |  |  |
| WESTBOUND                   | 0             | 0        | 0       | 0        | 0       | 0          | 0         |  |  |
| EASTBOUND                   | 0             | 1        | 1       | 1        | 0       | 0          | 3         |  |  |
| NORTHBOUND                  | 0             | 0        | 1       | 1        | 0       | 0          | 2         |  |  |
| SOUTHBOUND                  | 1             | 0        | 2       | 0        | 0       | 0          | 3         |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |          |         |          |         |            |           |  |  |
| APPROACH                    | LEFT          | LEFT     | THRO    | UGH      | RIGHT   | RIGHT      | L/T/R     |  |  |
|                             | ONLY          | SHARE    | D ON    | LY S     | SHARED  | ONLY       | SHARED    |  |  |
| WESTBOUND                   | N/A           | N/A      | . N     | /A       | N/A     | N/A        | N/A       |  |  |
| EASTBOUND                   | N/A           | 98       |         | 98       | 98      | N/A        | N/A       |  |  |
| NORTHBOUND                  | N/A           | N/A      | . 3     | 94       | 394     | N/A        | N/A       |  |  |
| SOUTHBOUND                  | 61            | N/A      | . 2     | 00       | N/A     | N/A        | N/A       |  |  |
| EAST-WEST CRITICAL VOLUMES  |               |          |         |          |         |            |           |  |  |
|                             | THE SUM OF CF |          |         |          |         | 553        |           |  |  |
|                             | NUMBER OF CRI | TICAL CL | EARANCE | INTERVAI | .S      | 2*         |           |  |  |
|                             | CMA VALUE     |          |         |          |         | 0.328      |           |  |  |

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LEVEL OF SERVICE .....

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:14, 12TH STREET AND LOS ANGELES STREET DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | T DDM         |                  | mun ou au    | **       | 10      | IGHT TURNS |                |  |  |
|-----------------------------|---------------|------------------|--------------|----------|---------|------------|----------------|--|--|
| WESTBOUND                   | LEFT<br>0     |                  | THROUGH<br>0 | MT       | n on gr | EEN MA     | AX ON RED<br>0 |  |  |
| EASTBOUND                   | 40            |                  | 218          |          | 30      |            | 0              |  |  |
| NORTHBOUND                  |               |                  | 412          |          | 51      |            | 0              |  |  |
| SOUTHBOUND                  |               |                  | 298          |          | 0       |            | 0              |  |  |
|                             |               |                  |              |          |         |            |                |  |  |
|                             |               | **               | NUMBER       | OF LANES | **      |            |                |  |  |
| APPROACH                    | LEFT          | LEFT             | THROUGH      | RIGHT    | RIGHT   | L/T/R      | TOTAL          |  |  |
|                             | ONLY          | SHARED           | ONLY         | SHARED   | ONLY    | SHARED     | LANES          |  |  |
| WESTBOUND                   | 0             | 0                | 0            | 0        | 0       | 0          | 0              |  |  |
| EASTBOUND                   | 0             | 1                | 2            | 1        | 0       | 0          | 4              |  |  |
| NORTHBOUND                  |               | 0                | 1            | 1        | 0       | 0          | 2              |  |  |
| SOUTHBOUND                  | 0             | 1                | 1            | 0        | 0       | 0          | 2              |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |                  |              |          |         |            |                |  |  |
| APPROACH                    | LEFT          | LEF:             | r THRC       | UGH      | RIGHT   | RIGHT      | L/T/R          |  |  |
|                             | ONLY          | SHARI            | ED ON        | ILY S    | HARED   | ONLY       | SHARED         |  |  |
| WESTBOUND                   | N/A           | N/Z              | N A          | I/A      | N/A     | N/A        | N/A            |  |  |
| EASTBOUND                   | N/A           | 7:               | 2            | 72       | 72      | N/A        | N/A            |  |  |
| NORTHBOUND                  | N/A           | N/I              |              | 32       | 232     | N/A        | N/A            |  |  |
| SOUTHBOUND                  | N/A           | 136              | 5 2          | 48       | N/A     | N/A        | N/A            |  |  |
|                             |               |                  |              |          |         |            |                |  |  |
|                             | EAST-WEST CRI |                  |              |          |         | 72<br>317  |                |  |  |
|                             | THE SUM OF CF | RITICAL V        | VOLUMES .    |          |         | 389        |                |  |  |
|                             | NUMBER OF CRI | S                | 2*           |          |         |            |                |  |  |
|                             | CMA VALUE     |                  |              |          |         | 0.231      |                |  |  |
|                             | LEVEL OF SERV | LEVEL OF SERVICE |              |          |         |            |                |  |  |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:15, PICO BOULEVARD AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | LEFT          |                  | THROUGH  | * *      | R<br>IN ON GR  | IGHT TURN | S **      |  |  |  |
|-----------------------------|---------------|------------------|----------|----------|----------------|-----------|-----------|--|--|--|
| WESTBOUND                   | 17            |                  | 313      | MIT      | IN ON GR<br>19 | EEN M     | AX ON KED |  |  |  |
| EASTBOUND                   | 23            |                  | 329      |          | 35             |           | 0         |  |  |  |
| NORTHBOUND                  | _             |                  | 205      |          | 63             |           | 8         |  |  |  |
| SOUTHBOUND                  |               |                  | 433      |          | 86             |           | 0         |  |  |  |
|                             |               |                  |          |          |                |           |           |  |  |  |
|                             |               | * *              | NUMBER   | OF LANES | 3 **           |           |           |  |  |  |
| APPROACH                    | LEFT          | LEFT             | THROUGH  | _        | RIGHT          |           | _         |  |  |  |
|                             | ONLY          | SHARED           | ONLY     | SHARED   | ONLY           | SHARED    | LANES     |  |  |  |
| WESTBOUND                   | 0             | 1                | 0        | 1        | 0              | 0         | 2         |  |  |  |
| EASTBOUND                   | 0             | 1                | 0        | 1        | 0              | 0         | 2         |  |  |  |
| NORTHBOUND                  |               | 0                | 1        | 0        | 1              | 0         | 3         |  |  |  |
| SOUTHBOUND                  | 1             | 0                | 1        | 1        | 0              | 0         | 3         |  |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |                  |          |          |                |           |           |  |  |  |
| APPROACH                    | LEFT          | LEFT             | THRC     | UGH      | RIGHT          | RIGHT     | L/T/R     |  |  |  |
|                             | ONLY          | SHARI            | ED ON    | ILY S    | SHARED         | ONLY      | SHARED    |  |  |  |
| WESTBOUND                   | N/A           | 168              | 3 N      | I/A      | 182            | N/A       | N/A       |  |  |  |
| EASTBOUND                   | N/A           | 186              | 5 N      | I/A      | 201            | N/A       | N/A       |  |  |  |
| NORTHBOUND                  | 92            | N/A              | A 2      | :05      | N/A            | 63        | N/A       |  |  |  |
| SOUTHBOUND                  | 38            | N/A              | A 2      | 60       | 260            | N/A       | N/A       |  |  |  |
|                             |               |                  |          |          |                |           |           |  |  |  |
|                             | EAST-WEST CRI | TICAL VO         | OLUMES   |          |                | 218       |           |  |  |  |
|                             | NORTH-SOUTH C | RITICAL          | VOLUMES  |          |                | 352       |           |  |  |  |
|                             |               |                  |          |          |                |           |           |  |  |  |
|                             | THE SUM OF CR | ITICAL V         | OLUMES . |          | • • • • • •    | 570       |           |  |  |  |
|                             | NUMBER OF CRI | 2*               |          |          |                |           |           |  |  |  |
|                             | CMA VALUE     |                  | 0.304    |          |                |           |           |  |  |  |
|                             | LEVEL OF SERV | LEVEL OF SERVICE |          |          |                |           |           |  |  |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:16, PICO BOULEVARD AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |                  |           | *:            | *       | RIGHT TURN | S **      |  |  |
|------------|---------------|------------------|-----------|---------------|---------|------------|-----------|--|--|
|            | LEFT          |                  | THROUGH   | M             | IN ON G | REEN M     | AX ON RED |  |  |
| WESTBOUND  | 22            |                  | 180       |               | 39      |            | 0         |  |  |
| EASTBOUND  | 71            |                  | 247       |               | 0       |            | 19        |  |  |
| NORTHBOUND | 57            |                  | 813       |               | 22      |            | 0         |  |  |
| SOUTHBOUND | 27            |                  | 275       |               | 38      |            | 0         |  |  |
|            |               |                  |           |               |         |            |           |  |  |
|            |               | **               | NUMBER    | OF LANES      | S **    |            |           |  |  |
| APPROACH   | LEFT          | LEFT             | THROUGH   | RIGHT         | RIGHT   | ' L/T/R    | TOTAL     |  |  |
|            | ONLY          | SHARED           | ONLY      | SHARED        | ONLY    | SHARED     | LANES     |  |  |
| WESTBOUND  | 1             | 0                | 0         | 1             | 0       | 0          | 2         |  |  |
| EASTBOUND  | 1             | 0                | 1         | 0             | 1       | 0          | 3         |  |  |
| NORTHBOUND | 1             | 0                | 1         | 1             | 0       | 0          | 3         |  |  |
| SOUTHBOUND | 1             | 0                | 1         | 1             | 0       | 0          | 3         |  |  |
|            |               |                  |           |               |         |            |           |  |  |
|            |               | ** ASSI          | IGNED LAN | E VOLUMI      | ES **   |            |           |  |  |
| APPROACH   | LEFT          | LEFT             | THRC      | UGH           | RIGHT   | RIGHT      | L/T/R     |  |  |
|            | ONLY          | SHARE            | ED ON     | ILY S         | SHARED  | ONLY       | SHARED    |  |  |
| WESTBOUND  | 22            | N/A              | A N       | I/A           | 219     | N/A        | N/A       |  |  |
| EASTBOUND  | 71            | N/A              | A 2       | 47            | N/A     | 0          | N/A       |  |  |
| NORTHBOUND | 57            | N/P              | A 4       | 18            | 418     | N/A        | N/A       |  |  |
| SOUTHBOUND | 27            | N/P              | A 1       | .56           | 156     | N/A        | N/A       |  |  |
|            |               |                  |           |               |         |            |           |  |  |
|            |               |                  |           |               |         |            |           |  |  |
|            | EAST-WEST CRI |                  |           |               |         | 290        |           |  |  |
|            | NORTH-SOUTH C | RITICAL          | VOLUMES   | • • • • • • • |         | 445        |           |  |  |
|            | THE SUM OF CR | RITICAL V        | OLUMES .  |               |         | 735        |           |  |  |
|            | NUMBER OF CRI | LS               | 2*        |               |         |            |           |  |  |
|            | CMA VALUE     |                  |           |               |         | 0.392      |           |  |  |
|            | LEVEL OF SERV | LEVEL OF SERVICE |           |               |         |            |           |  |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:17, 17TH STREET/I-10 WB ON-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |               |                  |                | **       | 10           | IGHT TURNS |                |  |  |
|-----------------------------|---------------|------------------|----------------|----------|--------------|------------|----------------|--|--|
| WESTBOUND                   | LEFT<br>187   |                  | THROUGH<br>450 | M⊥       | n on gr<br>0 | EEN MA     | AX ON RED<br>0 |  |  |
| EASTBOUND                   | 0             |                  | 100            |          | 0            |            | 0              |  |  |
| NORTHBOUND                  | •             |                  | 0              |          | 0            |            | 0              |  |  |
| SOUTHBOUND                  |               |                  | 421            |          | 124          |            | 0              |  |  |
|                             |               |                  |                |          |              |            |                |  |  |
|                             |               | **               | NUMBER         | OF LANES | * *          |            |                |  |  |
| APPROACH                    | LEFT          | LEFT             | THROUGH        | RIGHT    | RIGHT        | L/T/R      | TOTAL          |  |  |
|                             | ONLY          | SHARED           | ONLY           | SHARED   | ONLY         | SHARED     | LANES          |  |  |
| WESTBOUND                   | 0             | 1                | 0              | 1        | 0            | 0          | 2              |  |  |
| EASTBOUND                   | 0             | 0                | 0              | 0        | 0            | 0          | 0              |  |  |
| NORTHBOUND                  |               | 0                | 0              | 0        | 0            | 0          | 0              |  |  |
| SOUTHBOUND                  | 0             | 0                | 3              | 1        | 1            | 0          | 5              |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |                  |                |          |              |            |                |  |  |
| APPROACH                    | LEFT          | LEF'             | r THRC         | UGH      | RIGHT        | RIGHT      | L/T/R          |  |  |
|                             | ONLY          | SHAR             | ED ON          | ILY S    | HARED        | ONLY       | SHARED         |  |  |
| WESTBOUND                   | N/A           | 318              | 8 N            | I/A      | 318          | N/A        | N/A            |  |  |
| EASTBOUND                   | N/A           | N/I              | A N            | I/A      | N/A          | N/A        | N/A            |  |  |
| NORTHBOUND                  | N/A           | N/I              |                | I/A      | N/A          | N/A        | N/A            |  |  |
| SOUTHBOUND                  | N/A           | N/I              | A 1            | .09      | 109          | 109        | N/A            |  |  |
|                             |               |                  |                |          |              |            |                |  |  |
|                             | EAST-WEST CRI |                  |                |          |              | 318<br>109 |                |  |  |
|                             | THE SUM OF CR | ITICAL Y         | VOLUMES .      |          |              | 427        |                |  |  |
|                             | NUMBER OF CRI | S                | 2*             |          |              |            |                |  |  |
|                             | CMA VALUE     |                  |                |          |              | 0.228      |                |  |  |
|                             | LEVEL OF SERV | LEVEL OF SERVICE |                |          |              |            |                |  |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:18, 18TH STREET/I-10 EB OFF-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | LEFT                                      |          | THROUGH       | * *<br>M T | R<br>N ON GR | IGHT TURNS           | S **<br>AX ON RED |  |  |
|-----------------------------|---|----------|---------------|------------|--------------|----------------------|-------------------|--|--|
| WESTBOUND                   | 0   |          | 1 nkougn<br>0 | IVI I      | .N ON GR     | .E.E.IN I*I <i>I</i> | O AL ON KED       |  |  |
| EASTBOUND                   | 0   |          | 1028          |            | 70           |                      | 37                |  |  |
| NORTHBOUND                  |   |          | 0             |            | 189          |                      | 0                 |  |  |
| SOUTHBOUND                  |   |          | 422           |            | 0            |                      | 0                 |  |  |
|                             |   |          |               |            |              |                      |                   |  |  |
|                             |   | **       | NUMBER        | OF LANES   | **           |                      |                   |  |  |
| APPROACH                    | LEFT                                      | LEFT     | THROUGH       | RIGHT      | RIGHT        | L/T/R                | TOTAL             |  |  |
|                             | ONLY                                      | SHARED   | ONLY          | SHARED     | ONLY         | SHARED               | LANES             |  |  |
| WESTBOUND                   | 0   | 0        | 0             | 0          | 0            | 0                    | 0                 |  |  |
| EASTBOUND                   | 0   | 0        | 3             | 0          | 1            | 0                    | 4                 |  |  |
| NORTHBOUND                  | 0   | 0        | 0             | 0          | 2            | 0                    | 2                 |  |  |
| SOUTHBOUND                  | 1   | 0        | 3             | 0          | 0            | 0                    | 4                 |  |  |
| ** ASSIGNED LANE VOLUMES ** |   |          |               |            |              |                      |                   |  |  |
| APPROACH                    | LEFT                                      | LEFT     | THRC          | UGH        | RIGHT        | RIGHT                | L/T/R             |  |  |
|                             | ONLY                                      | SHARI    | ED ON         | ILY S      | HARED        | ONLY                 | SHARED            |  |  |
| WESTBOUND                   | N/A                                       | N/A      | A N           | I/A        | N/A          | N/A                  | N/A               |  |  |
| EASTBOUND                   | N/A                                       | N/A      | 4 3           | 343        | N/A          | 70                   | N/A               |  |  |
| NORTHBOUND                  | N/A                                       | N/A      | <i>y N</i>    | I/A        | N/A          | 94                   | N/A               |  |  |
| SOUTHBOUND                  | 121                                       | N/A      | A 1           | .41        | N/A          | N/A                  | N/A               |  |  |
|                             |   |          |               |            |              |                      |                   |  |  |
|                             | EAST-WEST CRI                             | TICAL VO | OLUMES        |            |              | 343                  |                   |  |  |
|                             | NORTH-SOUTH C                             | RITICAL  | VOLUMES       |            |              | 215                  |                   |  |  |
|                             |   |          |               |            |              |                      |                   |  |  |
|                             | THE SUM OF CR                             | ITICAL V | OLUMES .      |            |              | 558                  |                   |  |  |
|                             | NUMBER OF CRITICAL CLEARANCE INTERVALS 3* |          |               |            |              |                      |                   |  |  |
|                             | CMA VALUE                                 |          | 0.313         |            |              |                      |                   |  |  |
|                             | LEVEL OF SERV                             | ICE      |               |            |              | А                    |                   |  |  |

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:19, 17TH STREET/I-10 WB OFF-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | T 191910      |          | mupouqu        | k *      | I               | IGHT TURN  |                |  |  |
|-----------------------------|---------------|----------|----------------|----------|-----------------|------------|----------------|--|--|
| WESTBOUND                   | LEFT<br>134   |          | THROUGH<br>860 | MI       | IN ON GR<br>191 | EEEN M     | AX ON RED<br>0 |  |  |
| EASTBOUND                   | 0             |          | 0              |          | 0               |            | 0              |  |  |
| NORTHBOUND                  | 35            |          | 261            |          | 0               |            | 0              |  |  |
| SOUTHBOUND                  | 0             |          | 268            |          | 47              |            | 0              |  |  |
|                             |               |          |                |          |                 |            |                |  |  |
|                             |               | **       | NUMBER         | OF LANES | 3 **            |            |                |  |  |
| APPROACH                    | LEFT          | LEFT     | THROUGH        | RIGHT    | RIGHT           | L/T/R      | TOTAL          |  |  |
|                             | ONLY          | SHARED   | ONLY           | SHARED   | ONLY            | SHARED     | LANES          |  |  |
| WESTBOUND                   | 0             | 1        | 0              | 1        | 0               | 0          | 2              |  |  |
| EASTBOUND                   | 0             | 0        | 0              | 0        | 0               | 0          | 0              |  |  |
| NORTHBOUND                  |               | 0        | 2              | 0        | 0               | 0          | 3              |  |  |
| SOUTHBOUND                  | 0             | 0        | 1              | 1        | 0               | 0          | 2              |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |          |                |          |                 |            |                |  |  |
| APPROACH                    | LEFT          | LEFT     | THRC           | UGH      | RIGHT           | RIGHT      | L/T/R          |  |  |
|                             | ONLY          | SHARI    | ED ON          | ILY S    | SHARED          | ONLY       | SHARED         |  |  |
| WESTBOUND                   | N/A           | 592      | 2 N            | T/A      | 592             | N/A        | N/A            |  |  |
| EASTBOUND                   | N/A           | N/A      | A N            | I/A      | N/A             | N/A        | N/A            |  |  |
| NORTHBOUND                  | 35            | N/A      | A 1            | .30      | N/A             | N/A        | N/A            |  |  |
| SOUTHBOUND                  | N/A           | N/A      | A 1            | .58      | 158             | N/A        | N/A            |  |  |
|                             |               |          |                |          |                 |            |                |  |  |
|                             | EAST-WEST CRI |          |                |          |                 | 592<br>193 |                |  |  |
|                             |               |          |                |          |                 |            |                |  |  |
|                             | THE SUM OF CR | ITICAL V | OLUMES .       |          |                 | 785        |                |  |  |
|                             | NUMBER OF CRI | LS       | 2*             |          |                 |            |                |  |  |
|                             | CMA VALUE     |          | 0.423          |          |                 |            |                |  |  |
|                             | LEVEL OF SERV | ICE      |                |          |                 | A          |                |  |  |

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 20, 18TH STREET/I-10 EB ON-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | LEFT          |           | THROUGH       | * *      | N ON G      | RIGHT TURN | NS **  |  |  |
|-----------------------------|---------------|-----------|---------------|----------|-------------|------------|--------|--|--|
| WESTBOUND                   | 0             |           | 1 nkougn<br>0 | 1417     | .IN OIN G.  |            | O RED  |  |  |
| EASTBOUND                   | 470           |           | 55            |          | 21          |            | 0      |  |  |
| NORTHBOUND                  |               |           | 462           |          | 20          |            | 0      |  |  |
| SOUTHBOUND                  |               |           | 250           |          | 0           |            | 0      |  |  |
|                             |               |           |               |          |             |            |        |  |  |
|                             |               | **        | NUMBER        | OF LANES | 3 **        |            |        |  |  |
| APPROACH                    | LEFT          | LEFT      | THROUGH       | RIGHT    | RIGHT       | L/T/R      | TOTAL  |  |  |
|                             | ONLY          | SHARED    | ONLY          | SHARED   | ONLY        |            | LANES  |  |  |
| WESTBOUND                   | 0             | 0         | 0             | 0        | 0           | 0          | 0      |  |  |
| EASTBOUND                   | 1             | 0         | 1             | 1        | 0           | 0          | 3      |  |  |
| NORTHBOUND                  |               | 0         | 1             | 1        | 0           | 0          | 2      |  |  |
| SOUTHBOUND                  | 1             | 0         | 2             | 0        | 0           | 0          | 3      |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |           |               |          |             |            |        |  |  |
| APPROACH                    | LEFT          | LEFT      | THRC          | UGH      | RIGHT       | RIGHT      | L/T/R  |  |  |
|                             | ONLY          | SHARI     | ED ON         | ILY S    | SHARED      | ONLY       | SHARED |  |  |
| WESTBOUND                   | N/A           | N/B       | <i>y N</i>    | 1/A      | N/A         | N/A        | N/A    |  |  |
| EASTBOUND                   | 470           | N/B       | Ą             | 38       | 38          | N/A        | N/A    |  |  |
| NORTHBOUND                  | N/A           | N/B       | A 2           | 241      | 241         | N/A        | N/A    |  |  |
| SOUTHBOUND                  | 30            | N/A       | A 1           | .25      | N/A         | N/A        | N/A    |  |  |
|                             |               |           |               |          |             |            |        |  |  |
|                             | EAST-WEST CRI | TICAL VO  | DLUMES        |          |             | 470        |        |  |  |
|                             | NORTH-SOUTH ( | RITICAL   | VOLUMES       |          |             | 271        |        |  |  |
|                             |               |           |               |          |             |            |        |  |  |
|                             | THE SUM OF CF | RITICAL V | OLUMES .      |          | • • • • • • | 741        |        |  |  |
|                             | NUMBER OF CRI |           | 2*            |          |             |            |        |  |  |
|                             | CMA VALUE     |           |               |          |             | 0.395      |        |  |  |
|                             | LEVEL OF SERV | /ICE      |               | А        |             |            |        |  |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:1, OLYMPIC BOULEVARD & HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |   |          |            | **       | 1/       | IGHT TURN  | _         |  |  |
|-----------------------------|---|----------|------------|----------|----------|------------|-----------|--|--|
| THE CHIP OF THE             | LEFT                                      |          | THROUGH    | MΙ       | N ON GR  | EEN M      | AX ON RED |  |  |
| WESTBOUND                   | 49<br>7                                   |          | 995<br>776 |          | 79<br>67 |            | 0<br>0    |  |  |
| EASTBOUND                   | •   |          | 172        |          | 27       |            | 0         |  |  |
| NORTHBOUND<br>SOUTHBOUND    |   |          | 172<br>707 |          | 138      |            | 4         |  |  |
| SOUTHBOOND                  | 30  |          | 707        |          | 130      |            | 4         |  |  |
|                             |   | **       | NUMBER     | OF LANES | **       |            |           |  |  |
| APPROACH                    | LEFT                                      | LEFT     | THROUGH    | RIGHT    | RIGHT    | L/T/R      | TOTAL     |  |  |
|                             | ONLY                                      | SHARED   | ONLY       | SHARED   | ONLY     | SHARED     | LANES     |  |  |
| WESTBOUND                   | 0   | 1        | 1          | 1        | 0        | 0          | 3         |  |  |
| EASTBOUND                   | 0   | 1        | 1          | 1        | 0        | 0          | 3         |  |  |
| NORTHBOUND                  |   | 0        | 1          | 1        | 0        | 0          | 3         |  |  |
| SOUTHBOUND                  | 1   | 0        | 2          | 0        | 1        | 0          | 4         |  |  |
| ** ASSIGNED LANE VOLUMES ** |   |          |            |          |          |            |           |  |  |
| APPROACH                    | LEFT                                      | LEFT.    | THRC       | UGH      | RIGHT    | RIGHT      | L/T/R     |  |  |
|                             | ONLY                                      | SHARI    | ED ON      | ILY S    | HARED    | ONLY       | SHARED    |  |  |
| WESTBOUND                   | N/A                                       | 269      | 9 4        | 27       | 427      | N/A        | N/A       |  |  |
| EASTBOUND                   | N/A                                       | 263      |            | 94       | 294      | N/A        | N/A       |  |  |
| NORTHBOUND                  |   | N/I      |            | .00      | 100      | N/A        | N/A       |  |  |
| SOUTHBOUND                  | 36  | N/P      | 4 3        | 54       | N/A      | 138        | N/A       |  |  |
|                             |   |          |            |          |          |            |           |  |  |
|                             | EAST-WEST CRI                             | -        |            |          |          | 434<br>392 |           |  |  |
|                             | THE SUM OF CR                             | ITICAL V | OLUMES .   |          |          | 826        |           |  |  |
|                             | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |          |            |          |          |            |           |  |  |
|                             | CMA VALUE                                 |          |            |          |          | 0.512      |           |  |  |
|                             | LEVEL OF SERV                             | ICE      |            |          |          | A          |           |  |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:2, OLYMPIC BOULEVARD & BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH       |          |         |           | * *       | * R    | IGHT TURN | S **      |
|----------------|----------|---------|-----------|-----------|--------|-----------|-----------|
| 111 1 11011011 | LEFT     |         | THROUGH   | MI        |        |           | AX ON RED |
| WESTBOUND      | 25       |         | 932       |           | 84     |           | 0         |
| EASTBOUND      | 81       |         | 683       |           | 30     |           | 0         |
| NORTHBOUND     | 108      |         | 666       |           | 88     |           | 0         |
| SOUTHBOUND     | 29       |         | 674       |           | 89     |           | 0         |
|                |          | **      | NUMBER    | OF LANES  | 3 **   |           |           |
| APPROACH       | LEFT     | LEFT    | THROUGH   | RIGHT     | RIGHT  | L/T/R     | TOTAL     |
|                | ONLY     | SHARED  | ONLY      | SHARED    | ONLY   | SHARED    | LANES     |
| WESTBOUND      | 0        | 1       | 1         | 1         | 0      | 0         | 3         |
| EASTBOUND      | 0        | 1       | 1         | 1         | 0      | 0         | 3         |
| NORTHBOUND     | 1        | 0       | 1         | 1         | 0      | 0         | 3         |
| SOUTHBOUND     | 1        | 0       | 1         | 1         | 0      | 0         | 3         |
|                |          | ** ASS  | IGNED LAN | IE VOLUME | ES **  |           |           |
| APPROACH       | LEFT     | LEF'    | T THRO    | OUGH      | RIGHT  | RIGHT     | L/T/R     |
|                | ONLY     | SHAR    | ED ON     | JLY S     | SHARED | ONLY      | SHARED    |
| WESTBOUND      | N/A      | 304     | 4 3       | 368       | 368    | N/A       | N/A       |
| EASTBOUND      | 81       | N/I     | A 3       | 356       | 356    | N/A       | N/A       |
| NORTHBOUND     | 108      | N/I     | A 3       | 377       | 377    | N/A       | N/A       |
| SOUTHBOUND     | 29       | N/Z     | A 3       | 882       | 382    | N/A       | N/A       |
|                |          |         |           |           |        |           |           |
|                |          |         |           |           |        |           |           |
| EAST-          | WEST CRI | TICAL V | OLUMES    |           |        | 449       |           |

| NORTH-SOUTH CRITICAL VOLUMES           |         |
|--|---------|
| THE SUM OF CRITICAL VOLUMES            | . 939   |
| NUMBER OF CRITICAL CLEARANCE INTERVALS | 2*      |
| CMA VALUE                              | . 0.596 |
| LEVEL OF SERVICE                       | А       |

 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

Capacity used = 1350.

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INTERSECTION: 3, US-110 SB OFF-RAMP AND BLAINE STREET/CONNECTICUT STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |   |             |           | **       | R       | IGHT TURNS | s **      |  |  |
|-----------------------------|---|-------------|-----------|----------|---------|------------|-----------|--|--|
|                             | LEFT                                      |             | THROUGH   | MI       | N ON GR | EEN M      | AX ON RED |  |  |
| WESTBOUND                   | 68  |             | 0         |          | 0       |            | 72        |  |  |
| EASTBOUND                   | 0   |             | 0         |          | 30      |            | 0         |  |  |
| NORTHBOUND                  |   |             | 0         |          | 0       |            | 0         |  |  |
| SOUTHBOUND                  | 0   |             | 497       |          | 35      |            | 0         |  |  |
|                             |   | **          | NUMBER    | OF LANES | **      |            |           |  |  |
| APPROACH                    | LEFT                                      | LEFT        | THROUGH   | RIGHT    | RIGHT   | L/T/R      | TOTAL     |  |  |
|                             | ONLY                                      | SHARED      | ONLY      | SHARED   | ONLY    | SHARED     | LANES     |  |  |
| WESTBOUND                   | 0   | 1           | 0         | 0        | 2       | 0          | 3         |  |  |
| EASTBOUND                   | 0   | 0           | 0         | 0        | 1       | 0          | 1         |  |  |
| NORTHBOUND                  | 0   | 0           | 0         | 0        | 0       | 0          | 0         |  |  |
| SOUTHBOUND                  | 0   | 0           | 1         | 1        | 0       | 0          | 2         |  |  |
| ** ASSIGNED LANE VOLUMES ** |   |             |           |          |         |            |           |  |  |
| APPROACH                    | LEFT                                      | LEF'        | THRO      | UGH      | RIGHT   | RIGHT      | L/T/R     |  |  |
|                             | ONLY                                      | SHAR        | ED ON     | ILY S    | HARED   | ONLY       | SHARED    |  |  |
| WESTBOUND                   | N/A                                       | 68          | 8 N       | I/A      | N/A     | 0          | N/A       |  |  |
| EASTBOUND                   | N/A                                       | N/I         | A N       | I/A      | N/A     | 30         | N/A       |  |  |
| NORTHBOUND                  | N/A                                       | N/I         |           | I/A      | N/A     | N/A        | N/A       |  |  |
| SOUTHBOUND                  | N/A                                       | N/I         | A 2       | 66       | 266     | N/A        | N/A       |  |  |
|                             | EAST-WEST CRI                             | TT CAI 37   | OT TIME C |          |         | 98         |           |  |  |
|                             | NORTH-SOUTH (                             |             |           |          |         | 266<br>    |           |  |  |
|                             | THE SUM OF CF                             | RITICAL Y   | VOLUMES . |          |         | 364        |           |  |  |
|                             | NUMBER OF CRITICAL CLEARANCE INTERVALS 3* |             |           |          |         |            |           |  |  |
|                             | CMA VALUE                                 | • • • • • • |           |          |         | 0.204      |           |  |  |
|                             | LEVEL OF SERV                             | TICE        |           |          |         | А          |           |  |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION: 4, 11TH STREET AND BLAINE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH               |               |           |             | * *      |         | RIGHT TURN | _              |
|------------------------|---------------|-----------|-------------|----------|---------|------------|----------------|
| MECHDOIND              | LEFT<br>250   |           | THROUGH 348 | MΙ       | IN ON G | REEN M     | AX ON RED<br>0 |
| WESTBOUND<br>EASTBOUND | 250           |           | 348<br>77   |          | 286     |            | 0              |
| NORTHBOUND             | -             |           | 0           |          | 200     |            | 0              |
| SOUTHBOUND             |               |           | 509         |          | 42      |            | 0              |
| BOOTHBOOND             | 23            |           | 309         |          | 12      |            | O              |
|                        |               | **        | NUMBER      | OF LANES | ; **    |            |                |
| APPROACH               | LEFT          | LEFT      | THROUGH     | RIGHT    | RIGHT   | L/T/R      | TOTAL          |
|                        | ONLY          | SHARED    | ONLY        | SHARED   | ONLY    | SHARED     | LANES          |
| WESTBOUND              | 0             | 1         | 1           | 0        | 0       | 0          | 2              |
| EASTBOUND              | 0             | 0         | 1           | 0        | 1       | 0          | 2              |
| NORTHBOUND             |               | 0         | 0           | 0        | 0       | 0          | 0              |
| SOUTHBOUND             | 1             | 1         | 0           | 1        | 0       | 0          | 3              |
|                        |               | ** ASSI   | IGNED LAN   | E VOLUME | S **    |            |                |
| APPROACH               | LEFT          | LEFT.     | r THRC      | UGH      | RIGHT   | RIGHT      | L/T/R          |
|                        | ONLY          | SHARI     | ED ON       | ILY S    | HARED   | ONLY       | SHARED         |
| WESTBOUND              | N/A           | 299       | 9 2         | 199      | N/A     | N/A        | N/A            |
| EASTBOUND              | N/A           | N/A       | A           | 77       | N/A     | 286        | N/A            |
| NORTHBOUND             | •             | N/A       |             | I/A      | N/A     | N/A        | N/A            |
| SOUTHBOUND             | 25            | N/A       | A 2         | 76       | 276     | N/A        | N/A            |
|                        |               |           |             |          |         |            |                |
|                        | EAST-WEST CRI | _         |             |          |         | 585<br>276 |                |
|                        | THE SUM OF CF | RITICAL V | JOLUMES .   |          |         | 861        |                |
|                        | NUMBER OF CRI | TICAL CI  | LEARANCE    | INTERVAL | .S      | 3*         |                |
|                        | CMA VALUE     |           |             |          |         | 0.538      |                |
|                        | LEVEL OF SERV | 7ICE      |             |          |         | A          |                |

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation. Eastbound and Westbound approaches have opposed signal phases.

INTERSECTION:5, 11TH STREET/CHICK HEARN COURT AND CHERRY STREET/US-110 NB ON-RAMP

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |                             |           |           | * *       | * I      | RIGHT TURN     | S **      |
|------------|-----------------------------|-----------|-----------|-----------|----------|----------------|-----------|
|            | LEFT                        |           | THROUGH   | M         | IN ON GI | REEN M         | AX ON RED |
| WESTBOUND  | 25                          |           | 759       |           | 150      |                | 0         |
| EASTBOUND  | 44                          |           | 47        |           | 6        |                | 0         |
| NORTHBOUND |                             |           | 380       |           | 0        |                | 74        |
| SOUTHBOUND | 0                           |           | 0         |           | 0        |                | 0         |
|            |                             | **        | NUMBER    | OF LANES  | 5 **     |                |           |
| APPROACH   | LEFT                        | LEFT      | THROUGH   | RIGHT     | RIGHT    | L/T/R          | TOTAL     |
|            | ONLY                        | SHARED    | ONLY      | SHARED    | ONLY     | SHARED         | LANES     |
| WESTBOUND  | 1                           | 0         | 2         | 0         | 1        | 0              | 4         |
| EASTBOUND  | 0                           | 1         | 0         | 1         | 0        | 0              | 2         |
| NORTHBOUND | 1                           | 0         | 1         | 0         | 2        | 0              | 4         |
| SOUTHBOUND | 0                           | 0         | 0         | 0         | 0        | 0              | 0         |
|            |                             | ** ASS    | IGNED LAN | IE VOLUMI | ES **    |                |           |
| APPROACH   | LEFT                        | LEF:      | r THRC    | UGH       | RIGHT    | RIGHT          | L/T/R     |
|            | ONLY                        | SHARI     | ED ON     | ILY S     | SHARED   | ONLY           | SHARED    |
| WESTBOUND  | 25                          | N/I       | A 3       | 80        | N/A      | 150            | N/A       |
| EASTBOUND  | 44                          | N/I       | A N       | I/A       | 53       | N/A            | N/A       |
| NORTHBOUND | 224                         | N/Z       | A 3       | 80        | N/A      | 0              | N/A       |
| SOUTHBOUND | N/A                         | N/Z       | A N       | I/A       | N/A      | N/A            | N/A       |
|            |                             |           |           |           |          |                |           |
|            | EAST-WEST CR<br>NORTH-SOUTH |           |           |           |          | 424<br>380<br> |           |
|            | THE SUM OF C                | RITICAL V | JOLUMES . |           |          | 804            |           |
|            | NUMBER OF CR                | ITICAL C  | LEARANCE  | INTERVAI  | LS       | 2*             |           |
|            | CMA VALUE                   |           |           |           |          | 0.496          |           |

<sup>-----</sup>

LEVEL OF SERVICE .....

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:6, 11TH STREET AND OLIVE AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH               |               |           |                | **            | 17.            | IGHT TURN  | _              |
|------------------------|---------------|-----------|----------------|---------------|----------------|------------|----------------|
| MECEDOIND              | LEFT<br>0     |           | THROUGH<br>517 | M⊥            | N ON GRI<br>89 | EEN MA     | AX ON RED<br>0 |
| WESTBOUND<br>EASTBOUND | 0             |           | 0              |               | 0              |            | 0              |
| NORTHBOUND             | -             |           | 942            |               | 0              |            | 0              |
| SOUTHBOUND             |               |           | 0              |               | 0              |            | 0              |
| BOOTHBOOND             | O             |           | Ü              |               | O              |            | O              |
|                        |               | **        | NUMBER         | OF LANES      | **             |            |                |
| APPROACH               | LEFT          | LEFT      | THROUGH        | RIGHT         | RIGHT          | L/T/R      | TOTAL          |
|                        | ONLY          | SHARED    | ONLY           | SHARED        | ONLY           | SHARED     | LANES          |
| WESTBOUND              | 0             | 0         | 2              | 0             | 1              | 0          | 3              |
| EASTBOUND              | 0             | 0         | 0              | 0             | 0              | 0          | 0              |
| NORTHBOUND             |               | 1         | 3              | 0             | 0              | 0          | 4              |
| SOUTHBOUND             | 0             | 0         | 0              | 0             | 0              | 0          | 0              |
|                        |               | ** ASSI   | IGNED LAN      | IE VOLUME     | S **           |            |                |
| APPROACH               | LEFT          | LEFT.     | r THRC         | UGH           | RIGHT          | RIGHT      | L/T/R          |
|                        | ONLY          | SHARI     | ED ON          | ILY S         | HARED          | ONLY       | SHARED         |
| WESTBOUND              | N/A           | N/A       | A 2            | 258           | N/A            | 89         | N/A            |
| EASTBOUND              | N/A           | N/A       | A N            | I/A           | N/A            | N/A        | N/A            |
| NORTHBOUND             | N/A           | 263       | 3 2            | 263           | N/A            | N/A        | N/A            |
| SOUTHBOUND             | N/A           | N/A       | N A            | I/A           | N/A            | N/A        | N/A            |
|                        |               |           |                |               |                |            |                |
|                        | EAST-WEST CRI | _         |                |               |                | 258<br>263 |                |
|                        | NORTH BOOTH C | лсттсты   | VOLCINED       | • • • • • • • |                |            |                |
|                        | THE SUM OF CF | RITICAL V | VOLUMES .      |               |                | 521        |                |
|                        | NUMBER OF CRI | TICAL CI  | LEARANCE       | INTERVAL      | S              | 2*         |                |
|                        | CMA VALUE     |           |                |               |                | 0.309      |                |
|                        | LEVEL OF SERV | /ICE      |                |               |                | А          |                |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 7, 11TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH     |               |          |                | **       | 1/             | IGHT TURN | _              |
|--------------|---------------|----------|----------------|----------|----------------|-----------|----------------|
| WESTBOUND    | LEFT<br>98    |          | THROUGH<br>482 | M⊥       | N ON GR<br>116 | EEEN M    | AX ON RED<br>0 |
| EASTBOUND    | 0             |          | 402            |          | 0              |           | 0              |
| NORTHBOUND   |               |          | 112            |          | 0              |           | 0              |
| SOUTHBOUND   |               |          | 700            |          | 99             |           | 0              |
| 500111500115 | · ·           |          | , 00           |          |                |           | · ·            |
|              |               | **       | NUMBER         | OF LANES | **             |           |                |
| APPROACH     | LEFT          | LEFT     | THROUGH        | RIGHT    | RIGHT          | L/T/R     | TOTAL          |
|              | ONLY          | SHARED   | ONLY           | SHARED   | ONLY           | SHARED    | LANES          |
| WESTBOUND    | 1             | 0        | 1              | 1        | 0              | 0         | 3              |
| EASTBOUND    | 0             | 0        | 0              | 0        | 0              | 0         | 0              |
| NORTHBOUND   |               | 0        | 2              | 0        | 0              | 0         | 3              |
| SOUTHBOUND   | 0             | 0        | 1              | 1        | 0              | 0         | 2              |
|              |               | ** ASS   | IGNED LAN      | E VOLUME | S **           |           |                |
| APPROACH     | LEFT          | LEF:     | THRO           | UGH      | RIGHT          | RIGHT     | L/T/R          |
|              | ONLY          | SHARI    | ED ON          | LY S     | HARED          | ONLY      | SHARED         |
| WESTBOUND    | 98            | N/Z      | A 2            | 99       | 299            | N/A       | N/A            |
| EASTBOUND    | N/A           | N/I      | A N            | /A       | N/A            | N/A       | N/A            |
| NORTHBOUND   | 5             | N/I      | A              | 56       | N/A            | N/A       | N/A            |
| SOUTHBOUND   | N/A           | N/Z      | A 4            | 00       | 400            | N/A       | N/A            |
|              |               |          |                |          |                |           |                |
|              | EAST-WEST CRI | TICAL VO | OLUMES         |          |                | 299       |                |
|              | NORTH-SOUTH C | RITICAL  | VOLUMES        |          |                | 405       |                |
|              |               |          |                |          |                |           |                |
|              | THE SUM OF CF | ITICAL V | VOLUMES .      |          | • • • • •      | 704       |                |
|              | NUMBER OF CRI | TICAL C  | LEARANCE       | INTERVAL | S              | 2*        |                |
|              | CMA VALUE     |          |                |          |                | 0.421     |                |
|              | LEVEL OF SERV | ICE      |                |          |                | A         |                |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:8, 11TH STREET AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           | mun outqu      | **       | 10            | IGHT TURN  | _              |
|------------|---------------|-----------|----------------|----------|---------------|------------|----------------|
| WESTBOUND  | LEFT<br>80    |           | THROUGH<br>509 | MT       | N ON GR<br>72 | EEN M      | AX ON RED<br>0 |
| EASTBOUND  | 0             |           | 0              |          | 0             |            | 0              |
| NORTHBOUND | -             |           | 804            |          | 0             |            | 0              |
| SOUTHBOUND |               |           | 700            |          | 61            |            | 0              |
|            |               |           |                |          |               |            |                |
|            |               | * *       | NUMBER         | OF LANES | **            |            |                |
| APPROACH   | LEFT          | LEFT      | THROUGH        | _        | RIGHT         | L/T/R      | TOTAL          |
|            | ONLY          | SHARED    | ONLY           | SHARED   | ONLY          | SHARED     | LANES          |
| WESTBOUND  | 0             | 1         | 1              | 1        | 0             | 0          | 3              |
| EASTBOUND  | 0             | 0         | 0              | 0        | 0             | 0          | 0              |
| NORTHBOUND |               | 0         | 2              | 0        | 0             | 0          | 3              |
| SOUTHBOUND | 0             | 0         | 1              | 1        | 0             | 0          | 2              |
|            |               | ** ASSI   | IGNED LAN      | E VOLUME | S **          |            |                |
| APPROACH   | LEFT          | LEFT      | r THRC         | UGH      | RIGHT         | RIGHT      | L/T/R          |
|            | ONLY          | SHARI     | ED ON          | ILY S    | HARED         | ONLY       | SHARED         |
| WESTBOUND  | N/A           | 220       | ) 2            | 20       | 220           | N/A        | N/A            |
| EASTBOUND  | N/A           | N/A       | N A            | I/A      | N/A           | N/A        | N/A            |
| NORTHBOUND | 142           | N/A       | 4 4            | :02      | N/A           | N/A        | N/A            |
| SOUTHBOUND | N/A           | N/A       | A 3            | 80       | 380           | N/A        | N/A            |
|            |               |           |                |          |               |            |                |
|            | EAST-WEST CRI |           |                |          |               | 220<br>522 |                |
|            | THE SUM OF CF | RITICAL V | JOLUMES .      |          |               | 742        |                |
|            | NUMBER OF CRI | TICAL CI  | LEARANCE       | INTERVAL | S             | 2*         |                |
|            | CMA VALUE     |           |                |          |               | 0.450      |                |
|            | LEVEL OF SERV | 7ICE      |                |          |               | А          |                |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:9, 11TH STREET AND MAIN STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           |           | * *       | R       | IGHT TURNS | s **      |
|------------|---------------|-----------|-----------|-----------|---------|------------|-----------|
|            | LEFT          |           | THROUGH   | MI        | N ON GR | EEN M      | AX ON RED |
| WESTBOUND  | 99            |           | 392       |           | 89      |            | 0         |
| EASTBOUND  | 0             |           | 0         |           | 0       |            | 0         |
| NORTHBOUND | 91            |           | 885       |           | 0       |            | 0         |
| SOUTHBOUND | 0             |           | 841       |           | 192     |            | 0         |
|            |               | **        | NUMBER    | OF LANES  | **      |            |           |
| APPROACH   | LEFT          | LEFT      | THROUGH   | RIGHT     | RIGHT   | L/T/R      | TOTAL     |
|            | ONLY          | SHARED    | ONLY      | SHARED    | ONLY    | SHARED     | LANES     |
| WESTBOUND  | 0             | 1         | 0         | 1         | 0       | 0          | 2         |
| EASTBOUND  | 0             | 0         | 0         | 0         | 0       | 0          | 0         |
| NORTHBOUND | 1             | 0         | 2         | 0         | 0       | 0          | 3         |
| SOUTHBOUND | 0             | 0         | 1         | 1         | 0       | 0          | 2         |
|            |               | ** ASS    | IGNED LAN | IE VOLUME | S **    |            |           |
| APPROACH   | LEFT          | LEF'      | r THRC    | UGH       | RIGHT   | RIGHT      | L/T/R     |
|            | ONLY          | SHAR      | _         |           | HARED   | ONLY       | SHARED    |
| WESTBOUND  | N/A           | 29        |           | 1/A       | 290     | N/A        | N/A       |
| EASTBOUND  | N/A           | N/2       |           | •         | N/A     | N/A        | N/A       |
| NORTHBOUND |               | N/Z       |           |           | N/A     | N/A        | N/A       |
| SOUTHBOUND | N/A           | N/Z       | A 5       | 516       | 516     | N/A        | N/A       |
|            |               |           |           |           |         |            |           |
|            | EAST-WEST CR  |           |           |           |         | 290        |           |
|            | NORTH-SOUTH ( | CRITICAL  | VOLUMES   |           |         | 607<br>    |           |
|            | THE SUM OF C  | RITICAL ' | VOLUMES . |           | •••••   | 897        |           |
|            | NUMBER OF CR  | TICAL C   | LEARANCE  | INTERVAL  | S       | 2*         |           |
|            | CMA VALUE     |           |           |           |         | 0.564      |           |
|            | LEVEL OF SERV | /ICE      |           |           |         | А          |           |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:10, 12TH STREET AND OLIVE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH               |               |           | TIP OLIGII | **       | 10           | IGHT TURNS | _              |
|------------------------|---------------|-----------|------------|----------|--------------|------------|----------------|
| MECEDOIND              | LEFT<br>0     |           | THROUGH 0  | M⊥       | N ON GR<br>0 | EEN MA     | AX ON RED<br>0 |
| WESTBOUND<br>EASTBOUND | 67            |           | 179        |          | 0            |            | 0              |
| NORTHBOUND             |               |           | 935        |          | 37           |            | 0              |
| SOUTHBOUND             |               |           | 933        |          | 0            |            | 0              |
| SOUTHBOOKD             | O             |           | O          |          | U            |            | O              |
|                        |               | **        | NUMBER     | OF LANES | **           |            |                |
| APPROACH               | LEFT          | LEFT      | THROUGH    | RIGHT    | RIGHT        | L/T/R      | TOTAL          |
|                        | ONLY          | SHARED    | ONLY       | SHARED   | ONLY         | SHARED     | LANES          |
| WESTBOUND              | 0             | 0         | 0          | 0        | 0            | 0          | 0              |
| EASTBOUND              | 0             | 1         | 0          | 1        | 0            | 0          | 2              |
| NORTHBOUND             |               | 0         | 3          | 1        | 0            | 0          | 4              |
| SOUTHBOUND             | 0             | 0         | 0          | 0        | 0            | 0          | 0              |
|                        |               | ** ASSI   | GNED LAN   | E VOLUME | S **         |            |                |
| APPROACH               | LEFT          | LEFT      | THRO       | UGH      | RIGHT        | RIGHT      | L/T/R          |
|                        | ONLY          | SHARE     | ED ON      | LY S     | HARED        | ONLY       | SHARED         |
| WESTBOUND              | N/A           | N/A       | A N        | /A       | N/A          | N/A        | N/A            |
| EASTBOUND              | N/A           | 123       | B N        | /A       | 123          | N/A        | N/A            |
| NORTHBOUND             | N/A           | N/A       | A 2        | 43       | 243          | N/A        | N/A            |
| SOUTHBOUND             | N/A           | N/P       | A N        | T/A      | N/A          | N/A        | N/A            |
|                        |               |           |            |          |              |            |                |
|                        | EAST-WEST CRI | TICAL VO  | LUMES      |          |              | 123        |                |
|                        | NORTH-SOUTH C | RITICAL   | VOLUMES    |          |              | 243        |                |
|                        | THE SUM OF CR | RITICAL V | OLUMES .   |          |              | 366        |                |
|                        | NUMBER OF CRI | TICAL CI  | LEARANCE   | INTERVAL | S            | 2*         |                |
|                        | CMA VALUE     |           |            |          |              | 0.217      |                |
|                        | LEVEL OF SERV | 'ICE      |            |          |              | А          |                |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:11, 12TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH     | T 17.70       |           | min olidi. | * *      | 1/            | IGHT TURN     | _              |
|--------------|---------------|-----------|------------|----------|---------------|---------------|----------------|
| WESTBOUND    | LEFT<br>0     |           | THROUGH 0  | M        | IN ON GR<br>0 | EEEN M        | AX ON RED<br>0 |
| EASTBOUND    | 0             |           | 126        |          | 52            |               | 0              |
| NORTHBOUND   |               |           | 102        |          | 220           |               | 0              |
| SOUTHBOUND   |               |           | 732        |          | 0             |               | 0              |
| 200111200112 | 0,5           |           | .52        |          | ŭ             |               | · ·            |
|              |               | * *       | NUMBER     | OF LANES | 3 **          |               |                |
| APPROACH     | LEFT          | LEFT      | THROUGH    | RIGHT    | RIGHT         | L/T/R         | TOTAL          |
|              | ONLY          | SHARED    | ONLY       | SHARED   | ONLY          | SHARED        | LANES          |
| WESTBOUND    | 0             | 0         | 0          | 0        | 0             | 0             | 0              |
| EASTBOUND    | 0             | 0         | 1          | 1        | 0             | 0             | 2              |
| NORTHBOUND   |               | 0         | 1          | 0        | 1             | 0             | 2              |
| SOUTHBOUND   | 1             | 0         | 2          | 0        | 0             | 0             | 3              |
|              |               | ** ASSI   | GNED LAN   | E VOLUME | ES **         |               |                |
| APPROACH     | LEFT          | LEFT      | THRO       | UGH      | RIGHT         | RIGHT         | L/T/R          |
|              | ONLY          | SHARE     | D ON       | LY S     | SHARED        | ONLY          | SHARED         |
| WESTBOUND    | N/A           | N/A       |            | T/A      | N/A           | N/A           | N/A            |
| EASTBOUND    | N/A           | N/A       |            | 89       | 89            | N/A           | N/A            |
| NORTHBOUND   | •             | N/A       |            | 02       | N/A           | 220           | N/A            |
| SOUTHBOUND   | 89            | N/A       | . 3        | 66       | N/A           | N/A           | N/A            |
|              |               |           |            |          |               |               |                |
|              | EAST-WEST CR: |           |            |          |               | 89<br>366<br> |                |
|              | THE SUM OF C  | RITICAL V | OLUMES .   |          |               | 455           |                |
|              | NUMBER OF CR  | ITICAL CL | EARANCE    | INTERVAI | LS            | 2*            |                |
|              | CMA VALUE     |           |            |          |               | 0.270         |                |
|              |               |           |            |          |               | _             |                |

<sup>-----</sup>

LEVEL OF SERVICE .....

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:12, 12TH STREET AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           | mun outdu    | * *      | 11           | IGHT TURN | _              |
|------------|---------------|-----------|--------------|----------|--------------|-----------|----------------|
| WESTBOUND  | LEFT<br>0     |           | THROUGH<br>0 | MΤ       | n on gr<br>0 | EEN M     | AX ON RED<br>0 |
| EASTBOUND  | 137           |           | 265          |          | 65           |           | 0              |
| NORTHBOUND | _             |           | 806          |          | 41           |           | 0              |
| SOUTHBOUND |               |           | 709          |          | 0            |           | 0              |
|            |               |           |              |          | -            |           | -              |
|            |               | * *       | NUMBER       | OF LANES | **           |           |                |
| APPROACH   | LEFT          | LEFT      | THROUGH      | RIGHT    | RIGHT        | L/T/R     | TOTAL          |
|            | ONLY          | SHARED    | ONLY         |          | ONLY         | SHARED    | LANES          |
| WESTBOUND  | 0             | 0         | 0            | 0        | 0            | 0         | 0              |
| EASTBOUND  | 0             | 1         | 0            | 1        | 0            | 0         | 2              |
| NORTHBOUND |               | 0         | 1            | 1        | 0            | 0         | 2              |
| SOUTHBOUND | 1             | 0         | 2            | 0        | 0            | 0         | 3              |
|            |               | ** ASSI   | IGNED LAN    | E VOLUME | IS **        |           |                |
| APPROACH   | LEFT          | LEFT      | r THRO       | UGH      | RIGHT        | RIGHT     | L/T/R          |
|            | ONLY          | SHARI     | ED ON        | LY S     | HARED        | ONLY      | SHARED         |
| WESTBOUND  | N/A           | N/A       | A N          | T/A      | N/A          | N/A       | N/A            |
| EASTBOUND  | N/A           | 234       | 4 N          | /A       | 234          | N/A       | N/A            |
| NORTHBOUND | N/A           | N/I       | 4 4          | 24       | 424          | N/A       | N/A            |
| SOUTHBOUND | 23            | N/A       | A 3          | 54       | N/A          | N/A       | N/A            |
|            |               |           |              |          |              |           |                |
|            | EAST-WEST CRI | TTCAL VO  | OLUMES       |          |              | 234       |                |
|            | NORTH-SOUTH ( |           |              |          |              | 447       |                |
|            |               | _         |              |          |              |           |                |
|            | THE SUM OF CF | RITICAL V | JOLUMES .    |          |              | 681       |                |
|            | NUMBER OF CRI | TICAL CI  | LEARANCE     | INTERVAL | S            | 2*        |                |
|            | CMA VALUE     |           |              |          |              | 0.404     |                |
|            | LEVEL OF SERV | 7ICE      |              |          |              | А         |                |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:13, 12TH STREET AND MAIN STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   | LEFT         |           | THROUGH       |         | *<br>IN ON G | RIGHT TURI | NS **<br>MAX ON RED |
|------------|--------------|-----------|---------------|---------|--------------|------------|---------------------|
| WESTBOUND  | 0            |           | 1 TROUGH<br>0 | IvI     |              |            | MAX ON RED          |
| EASTBOUND  | 88           |           | 210           |         | 58           |            | 0                   |
| NORTHBOUND | 0            |           | 884           |         | 78           |            | 0                   |
| SOUTHBOUND | 67           |           | 867           |         | , .          |            | 0                   |
| BOOTHBOOND | 0 7          |           | 007           |         |              | ,          | Ü                   |
|            |              | * *       | NUMBER        | OF LANE | S **         |            |                     |
| APPROACH   | LEFT         | LEFT      | THROUGH       | RIGHT   | RIGHT        | L/T/R      | TOTAL               |
|            | ONLY         | SHARED    | ONLY          | SHARED  | _            |            | LANES               |
| WESTBOUND  | 0            | 0         | 0             | 0       | 0            | 0          | 0                   |
| EASTBOUND  | 0            | 1         | 1             | 1       | 0            | 0          | 3                   |
| NORTHBOUND | 0            | 0         | 1             | 1       | 0            | 0          | 2                   |
| SOUTHBOUND | 1            | 0         | 2             | 0       | 0            | 0          | 3                   |
|            |              | ** ASSI   | IGNED LAN     | E VOLUM | ES **        |            |                     |
| APPROACH   | LEFT         | LEFT      | THRC          | UGH     | RIGHT        | RIGHT      | L/T/R               |
|            | ONLY         | SHARE     | ED ON         | LY      | SHARED       | ONLY       | SHARED              |
| WESTBOUND  | N/A          | N/A       | N A           | /A      | N/A          | N/A        | N/A                 |
| EASTBOUND  | N/A          | 119       | ) 1           | 19      | 119          | N/A        | N/A                 |
| NORTHBOUND | N/A          | N/A       | A 4           | 81      | 481          | N/A        | N/A                 |
| SOUTHBOUND | 67           | N/A       | A 4           | 34      | N/A          | N/A        | N/A                 |
|            |              |           |               |         |              |            |                     |
|            | EAST-WEST CR | ITICAL VO | DLUMES        |         |              | 119        |                     |
|            | NORTH-SOUTH  | CRITICAL  | VOLUMES       |         |              | 548        |                     |
|            | THE SUM OF C | RITICAL V | OLUMES .      |         |              | 667        |                     |
|            | NUMBER OF CR | ITICAL CI | LEARANCE      | INTERVA | LS           | 2*         |                     |

CMA VALUE ..... 0.395

LEVEL OF SERVICE ..... A

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:14, 12TH STREET AND LOS ANGELES STREET DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH     |               |           |              | **       | 10           | IGHT TURNS |                |
|--------------|---------------|-----------|--------------|----------|--------------|------------|----------------|
| WESTBOUND    | LEFT<br>0     |           | THROUGH<br>0 | MT       | n on gr<br>0 | EEN MA     | AX ON RED<br>0 |
| EASTBOUND    | 64            |           | 203          |          | 78           |            | 0              |
| NORTHBOUND   |               |           | 537          |          | 82           |            | 0              |
| SOUTHBOUND   |               |           | 602          |          | 0            |            | 0              |
| 200111200112 |               |           | 002          |          | · ·          |            | · ·            |
|              |               | **        | NUMBER       | OF LANES | * *          |            |                |
| APPROACH     | LEFT          | LEFT      | THROUGH      | RIGHT    | RIGHT        | L/T/R      | TOTAL          |
|              | ONLY          | SHARED    | ONLY         | SHARED   | ONLY         | SHARED     | LANES          |
| WESTBOUND    | 0             | 0         | 0            | 0        | 0            | 0          | 0              |
| EASTBOUND    | 0             | 1         | 2            | 1        | 0            | 0          | 4              |
| NORTHBOUND   |               | 0         | 1            | 1        | 0            | 0          | 2              |
| SOUTHBOUND   | 0             | 1         | 1            | 0        | 0            | 0          | 2              |
|              |               | ** ASS    | IGNED LAN    | E VOLUME | S **         |            |                |
| APPROACH     | LEFT          | LEF:      | r THRC       | UGH      | RIGHT        | RIGHT      | L/T/R          |
|              | ONLY          | SHARI     | ED ON        | ILY S    | HARED        | ONLY       | SHARED         |
| WESTBOUND    | N/A           | N/Z       | A N          | I/A      | N/A          | N/A        | N/A            |
| EASTBOUND    | N/A           | 86        | б            | 86       | 86           | N/A        | N/A            |
| NORTHBOUND   | N/A           | N/I       | A 3          | 10       | 310          | N/A        | N/A            |
| SOUTHBOUND   | N/A           | 240       | 0 4          | :73      | N/A          | N/A        | N/A            |
|              |               |           |              |          |              |            |                |
|              | EAST-WEST CRI |           |              |          |              | 86<br>473  |                |
|              | THE SUM OF CF | RITICAL V | VOLUMES .    |          |              | 559        |                |
|              | NUMBER OF CRI | TICAL C   | LEARANCE     | INTERVAL | S            | 2*         |                |
|              | CMA VALUE     |           |              |          |              | 0.331      |                |
|              | LEVEL OF SERV | 7ICE      |              |          |              | A          |                |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:15, PICO BOULEVARD AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH       |               |              |           | * *       | *       | RIGHT TURN | S **      |
|----------------|---------------|--------------|-----------|-----------|---------|------------|-----------|
|                | LEFT          |              | THROUGH   | M         | IN ON G | REEN M     | AX ON RED |
| WESTBOUND      | 36            |              | 421       |           | 25      |            | 0         |
| EASTBOUND      | 30            |              | 295       |           | 52      |            | 0         |
| NORTHBOUND     | 73            |              | 183       |           | 57      |            | 38        |
| SOUTHBOUND     | 16            |              | 708       |           | 67      |            | 0         |
|                |               | **           | NUMBER    | OF LANES  | 5 **    |            |           |
| APPROACH       | LEFT          | LEFT         | THROUGH   | RIGHT     | RIGHT   | L/T/R      | TOTAL     |
|                | ONLY          | SHARED       | ONLY      | SHARED    | ONLY    | SHARED     | LANES     |
| WESTBOUND      | 0             | 1            | 0         | 1         | 0       | 0          | 2         |
| EASTBOUND      | 0             | 1            | 0         | 1         | 0       | 0          | 2         |
| NORTHBOUND     | 1             | 0            | 1         | 0         | 1       | 0          | 3         |
| SOUTHBOUND     |               | 0            | 1         | 1         | 0       | 0          | 3         |
|                |               | ** ASS       | IGNED LAN | IE VOLUME | ES **   |            |           |
| APPROACH       | LEFT          | LEFT         | г THRC    | NIGH      | RIGHT   | RIGHT      | L/T/R     |
| 111 1 11011011 | ONLY          | SHARI        | _         |           | SHARED  | ONLY       | SHARED    |
| WESTBOUND      | N/A           | 228          | _         | I/A       | 254     | N/A        | N/A       |
| EASTBOUND      | N/A           | 170          |           | I/A       | 207     | N/A        | N/A       |
| NORTHBOUND     | ,             | N/A          |           | .83       | N/A     | 57         | N/A       |
| SOUTHBOUND     |               | N/A          |           | 888       | 388     | N/A        | N/A       |
|                |               |              |           |           |         |            |           |
|                | EAST-WEST CRI | יייד מאד זיי | OT TIMES  |           |         | 284        |           |
|                | NORTH-SOUTH ( |              |           |           |         | 461        |           |
|                | THE SUM OF CE | RITICAL V    | JOLUMES . |           |         | 745        |           |
|                | NUMBER OF CR  | ITICAL CI    | LEARANCE  | INTERVAI  | LS      | 2*         |           |
|                | CMA VALUE     |              |           |           |         | 0.397      |           |
|                | LEVEL OF SERV | /ICE         |           |           |         | А          |           |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:16, PICO BOULEVARD AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   | LEFT          |          | THROUGH   | * *      | IN ON G       | RIGHT TURN | S **<br>AX ON RED |
|------------|---------------|----------|-----------|----------|---------------|------------|-------------------|
| WESTBOUND  | 59            |          | 379       | 1417     | .N ON G<br>56 |            | AX ON RED         |
| EASTBOUND  | 96            |          | 315       |          | 23            |            | 31                |
| NORTHBOUND |               |          | 651       |          | 31            |            | 0                 |
| SOUTHBOUND | 41            |          | 697       |          | 60            |            | 0                 |
|            |               |          |           |          |               |            |                   |
|            |               | **       | NUMBER    | OF LANES | 3 **          |            |                   |
| APPROACH   | LEFT          | LEFT     | THROUGH   | RIGHT    | RIGHT         | L/T/R      | TOTAL             |
|            | ONLY          | SHARED   | ONLY      | SHARED   | ONLY          |            | LANES             |
| WESTBOUND  | 1             | 0        | 0         | 1        | 0             | 0          | 2                 |
| EASTBOUND  | 1             | 0        | 1         | 0        | 1             | 0          | 3                 |
| NORTHBOUND |               | 0        | 1         | 1        | 0             | 0          | 3                 |
| SOUTHBOUND | 1             | 0        | 1         | 1        | 0             | 0          | 3                 |
|            |               | ** ASSI  | IGNED LAN | E VOLUME | IS **         |            |                   |
| APPROACH   | LEFT          | LEFT     | THRO      | UGH      | RIGHT         | RIGHT      | L/T/R             |
|            | ONLY          | SHARI    | ED ON     | LY S     | SHARED        | ONLY       | SHARED            |
| WESTBOUND  | 59            | N/A      | A N       | /A       | 435           | N/A        | N/A               |
| EASTBOUND  | 96            | N/A      | 4 3       | 15       | N/A           | 23         | N/A               |
| NORTHBOUND | 62            | N/A      | 4 3       | 41       | 341           | N/A        | N/A               |
| SOUTHBOUND | 41            | N/A      | 4 3       | 78       | 378           | N/A        | N/A               |
|            |               |          |           |          |               |            |                   |
|            | EAST-WEST CRI |          |           |          |               | 531        |                   |
|            | NORTH-SOUTH C | RITICAL  | VOLUMES   |          | • • • • • •   | 440        |                   |
|            | THE SUM OF CR | ITICAL V | OLUMES .  |          |               | 971        |                   |
|            | NUMBER OF CRI | TICAL CI | LEARANCE  | INTERVAL | s             | 2*         |                   |
|            | CMA VALUE     |          |           |          |               | 0.547      |                   |
|            | LEVEL OF SERV | ICE      |           |          |               | A          |                   |

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:17, 17TH STREET/I-10 WB ON-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |          |           | * *      |        | RIGHT TURN | IS **      |
|------------|---------------|----------|-----------|----------|--------|------------|------------|
|            | LEFT          |          | THROUGH   | MI       | N ON G | GREEN M    | IAX ON RED |
| WESTBOUND  | 115           |          | 978       |          | C      | )          | 0          |
| EASTBOUND  | 0             |          | 0         |          | C      | )          | 0          |
| NORTHBOUND |               |          | 0         |          | C      |            | 0          |
| SOUTHBOUND | 0             |          | 880       |          | 717    | 1          | 0          |
|            |               | **       | NUMBER    | OF LANES | ; **   |            |            |
| APPROACH   | LEFT          | LEFT     | THROUGH   | RIGHT    | RIGHT  | L/T/R      | TOTAL      |
|            | ONLY          | SHARED   | ONLY      | SHARED   | ONLY   | SHARED     | LANES      |
| WESTBOUND  | 0             | 1        | 0         | 1        | 0      | 0          | 2          |
| EASTBOUND  | 0             | 0        | 0         | 0        | 0      | 0          | 0          |
| NORTHBOUND | 0             | 0        | 0         | 0        | 0      | 0          | 0          |
| SOUTHBOUND | 0             | 0        | 3         | 1        | 1      | 0          | 5          |
|            |               | ** ASS   | IGNED LAN | E VOLUME | IS **  |            |            |
| APPROACH   | LEFT          | LEF"     | r THRO    | UGH      | RIGHT  | RIGHT      | L/T/R      |
|            | ONLY          | SHARI    | ED ON     | LY S     | HARED  | ONLY       | SHARED     |
| WESTBOUND  | N/A           | 546      | б N       | /A       | 546    | N/A        | N/A        |
| EASTBOUND  | N/A           | N/I      | N A       | /A       | N/A    | N/A        | N/A        |
| NORTHBOUND | N/A           | N/I      | N A       | /A       | N/A    | N/A        | N/A        |
| SOUTHBOUND | N/A           | N/I      | A 2       | 93       | N/A    | 358        | N/A        |
|            |               |          |           |          |        |            |            |
|            | EAST-WEST CRI | _        |           |          |        |            |            |
|            | THE SUM OF CR | ITICAL V | VOLUMES . |          |        | 904        |            |
|            | NUMBER OF CRI | TICAL C  | LEARANCE  | INTERVAL | .S     | 2*         |            |
|            | CMA VALUE     |          |           |          |        | 0.503      |            |
|            | LEVEL OF SERV | ICE      |           |          |        | А          |            |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:18, 18TH STREET/I-10 EB OFF-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           | mun outqu | **       | 1            | RIGHT TURN     |                |
|------------|---------------|-----------|-----------|----------|--------------|----------------|----------------|
| WESTBOUND  | LEFT<br>0     |           | THROUGH 0 | MT       | n on gf<br>0 | REEN M         | AX ON RED<br>0 |
| EASTBOUND  | 0             |           | 628       |          | 101          |                | 39             |
| NORTHBOUND | •             |           | 0         |          | 151          |                | 0              |
| SOUTHBOUND |               |           | 666       |          | 0            |                | 0              |
|            |               |           |           |          |              |                |                |
|            |               | **        | NUMBER    | OF LANES | * *          |                |                |
| APPROACH   | LEFT          | LEFT      | THROUGH   | RIGHT    | RIGHT        | L/T/R          | TOTAL          |
|            | ONLY          | SHARED    | ONLY      | SHARED   | ONLY         | SHARED         | LANES          |
| WESTBOUND  | 0             | 0         | 0         | 0        | 0            | 0              | 0              |
| EASTBOUND  | 0             | 0         | 3         | 0        | 1            | 0              | 4              |
| NORTHBOUND |               | 0         | 0         | 0        | 2            | 0              | 2              |
| SOUTHBOUND | 1             | 0         | 3         | 0        | 0            | 0              | 4              |
|            |               | ** ASS    | IGNED LAN | E VOLUME | S **         |                |                |
| APPROACH   | LEFT          | LEF"      | Г THRC    | UGH      | RIGHT        | RIGHT          | L/T/R          |
|            | ONLY          | SHARI     | ED ON     | ILY S    | HARED        | ONLY           | SHARED         |
| WESTBOUND  | N/A           | N/Z       | N A       | I/A      | N/A          | N/A            | N/A            |
| EASTBOUND  | N/A           | N/Z       | A 2       | 109      | N/A          | 101            | N/A            |
| NORTHBOUND | ,             | N/I       |           | I/A      | N/A          | 76             | N/A            |
| SOUTHBOUND | 224           | N/Z       | A 2       | 22       | N/A          | N/A            | N/A            |
|            |               |           |           |          |              |                |                |
|            | EAST-WEST CRI |           |           |          |              | 209<br>300<br> |                |
|            | THE SUM OF CF | RITICAL V | VOLUMES . |          |              | 509            |                |
|            | NUMBER OF CRI | TICAL C   | LEARANCE  | INTERVAL | S            | 3*             |                |
|            | CMA VALUE     |           |           |          | • • • • • •  | 0.286          |                |
|            | LEVEL OF SERV | CE        |           |          |              | A              |                |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:19, 17TH STREET/I-10 WB OFF-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   | T 121200      |          | munoudu        | * *      | Г               | RIGHT TURN |                |
|------------|---------------|----------|----------------|----------|-----------------|------------|----------------|
| WESTBOUND  | LEFT<br>118   |          | THROUGH<br>515 | IVI _    | IN ON GR<br>115 | CEEN M     | AX ON RED<br>0 |
| EASTBOUND  | 0             |          | 0              |          | 0               |            | 0              |
| NORTHBOUND | 19            |          | 199            |          | 0               |            | 0              |
| SOUTHBOUND | 0             |          | 663            |          | 176             |            | 0              |
|            |               |          |                |          |                 |            |                |
|            |               | * *      | NUMBER         | OF LANES | **              |            |                |
| APPROACH   | LEFT          | LEFT     | THROUGH        | RIGHT    | RIGHT           | L/T/R      | TOTAL          |
|            | ONLY          | SHARED   | ONLY           | SHARED   | ONLY            | SHARED     | LANES          |
| WESTBOUND  | 0             | 1        | 0              | 1        | 0               | 0          | 2              |
| EASTBOUND  | 0             | 0        | 0              | 0        | 0               | 0          | 0              |
| NORTHBOUND |               | 0        | 2              | 0        | 0               | 0          | 3              |
| SOUTHBOUND | 0             | 0        | 1              | 1        | 0               | 0          | 2              |
|            |               | ** ASS   | IGNED LAN      | E VOLUME | ES **           |            |                |
| APPROACH   | LEFT          | LEF:     | r THRC         | UGH      | RIGHT           | RIGHT      | L/T/R          |
|            | ONLY          | SHARI    | ED ON          | ILY S    | SHARED          | ONLY       | SHARED         |
| WESTBOUND  | N/A           | 374      | 4 N            | I/A      | 374             | N/A        | N/A            |
| EASTBOUND  | N/A           | N/Z      | N A            | I/A      | N/A             | N/A        | N/A            |
| NORTHBOUND | 19            | N/I      | A 1            | .00      | N/A             | N/A        | N/A            |
| SOUTHBOUND | N/A           | N/Z      | A 4            | 20       | 420             | N/A        | N/A            |
|            |               |          |                |          |                 |            |                |
|            | EAST-WEST CRI |          |                |          |                 | 374<br>439 |                |
|            | NORTH-SOUTH C | KIIICAL  | VOLUMES        |          |                 | 439        |                |
|            | THE SUM OF CR | ITICAL V | VOLUMES .      |          |                 | 813        |                |
|            | NUMBER OF CRI | TICAL C  | LEARANCE       | INTERVAI | LS              | 2*         |                |
|            | CMA VALUE     |          |                |          |                 | 0.442      |                |
|            | LEVEL OF SERV | ICE      |                |          |                 | A          |                |

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 20, 18TH STREET/I-10 EB ON-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: EXISTING (2005)

### \*\* INPUT VOLUMES \*\*

| APPROACH   | LEFT          |           | THROUGH   | * *<br>MT | F<br>N ON GF | RIGHT TURN | S **<br>AX ON RED |
|------------|---------------|-----------|-----------|-----------|--------------|------------|-------------------|
| WESTBOUND  | 0             |           | 0         | MT        | 0 010        | CEEN M     | AX ON RED         |
| EASTBOUND  | 730           |           | 347       |           | 110          |            | 0                 |
| NORTHBOUND |               |           | 580       |           | 10           |            | 0                 |
| SOUTHBOUND | 17            |           | 445       |           | 0            |            | 0                 |
|            |               |           |           |           |              |            |                   |
|            |               | **        | NUMBER    | OF LANES  | **           |            |                   |
| APPROACH   | LEFT          | LEFT      | THROUGH   | RIGHT     | RIGHT        | L/T/R      | TOTAL             |
|            | ONLY          | SHARED    | ONLY      | SHARED    | ONLY         | SHARED     | LANES             |
| WESTBOUND  | 0             | 0         | 0         | 0         | 0            | 0          | 0                 |
| EASTBOUND  | 1             | 0         | 1         | 1         | 0            | 0          | 3                 |
| NORTHBOUND |               | 0         | 1         | 1         | 0            | 0          | 2                 |
| SOUTHBOUND | 1             | 0         | 2         | 0         | 0            | 0          | 3                 |
|            |               | ** ASS    | IGNED LAN | IE VOLUME | S **         |            |                   |
| APPROACH   | LEFT          | LEF:      | r THRC    | UGH       | RIGHT        | RIGHT      | L/T/R             |
|            | ONLY          | SHARI     | ED ON     | ILY S     | HARED        | ONLY       | SHARED            |
| WESTBOUND  | N/A           | N/Z       | N A       | I/A       | N/A          | N/A        | N/A               |
| EASTBOUND  | 730           | N/I       | A 2       | 28        | 228          | N/A        | N/A               |
| NORTHBOUND | •             | N/I       |           | 95        | 295          | N/A        | N/A               |
| SOUTHBOUND | 17            | N/Z       | A 2       | 22        | N/A          | N/A        | N/A               |
|            |               |           |           |           |              |            |                   |
|            | EAST-WEST CRI |           |           |           |              | 730<br>312 |                   |
|            | THE SUM OF CF | RITICAL V | VOLUMES . |           |              | 1042       |                   |
|            | NUMBER OF CRI | TICAL C   | LEARANCE  | INTERVAL  | S            | 2*         |                   |
|            | CMA VALUE     |           |           |           |              | 0.595      |                   |
|            | LEVEL OF SERV | ZICE      |           |           |              | A          |                   |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:1, OLYMPIC BOULEVARD & HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           |           | * *             | R         | IGHT TURNS | s **      |
|------------|---------------|-----------|-----------|-----------------|-----------|------------|-----------|
|            | LEFT          |           | THROUGH   | MI              | N ON GR   | EEN M      | AX ON RED |
| WESTBOUND  | 47            |           | 792       |                 | 61        |            | 0         |
| EASTBOUND  | 29            |           | 1176      |                 | 123       |            | 0         |
| NORTHBOUND | 8             |           | 37        |                 | 4         |            | 0         |
| SOUTHBOUND | 63            |           | 511       |                 | 26        |            | 72        |
|            |               | **        | NUMBER    | OF LANES        | **        |            |           |
| APPROACH   | LEFT          | LEFT      | THROUGH   | RIGHT           | RIGHT     | L/T/R      | TOTAL     |
|            | ONLY          | SHARED    | ONLY      | SHARED          | ONLY      | SHARED     | LANES     |
| WESTBOUND  | 0             | 1         | 1         | 1               | 0         | 0          | 3         |
| EASTBOUND  | 0             | 1         | 1         | 1               | 0         | 0          | 3         |
| NORTHBOUND | 1             | 0         | 1         | 1               | 0         | 0          | 3         |
| SOUTHBOUND | 1             | 0         | 2         | 0               | 1         | 0          | 4         |
|            |               | ** ASS    | IGNED LAN | E VOLUME        | S **      |            |           |
| APPROACH   | LEFT          | LEF'      | THRC      | UGH             | RIGHT     | RIGHT      | L/T/R     |
|            | ONLY          | SHAR      | ED ON     | ILY S           | HARED     | ONLY       | SHARED    |
| WESTBOUND  | N/A           | 14:       | 3 3       | 78              | 378       | N/A        | N/A       |
| EASTBOUND  | N/A           | 379       | 9 4       | 74              | 474       | N/A        | N/A       |
| NORTHBOUND | 8             | N/Z       | A         | 20              | 20        | N/A        | N/A       |
| SOUTHBOUND | 63            | N/Z       | A 2       | 56              | N/A       | 26         | N/A       |
|            |               |           |           |                 |           |            |           |
|            | EAST-WEST CRI |           |           |                 |           | 521<br>264 |           |
|            |               |           |           |                 |           |            |           |
|            | THE SUM OF C  | RITICAL ' | VOLUMES . | • • • • • • • • | • • • • • | 785        |           |
|            | NUMBER OF CR  | ITICAL C  | LEARANCE  | INTERVAL        | S         | 2*         |           |
|            | CMA VALUE     |           |           |                 |           | 0.481      |           |
|            | LEVEL OF SERV | JICE      |           |                 |           | A          |           |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:2, OLYMPIC BOULEVARD & BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           |           | * *       | F           | RIGHT TURNS | s **      |
|------------|---------------|-----------|-----------|-----------|-------------|-------------|-----------|
|            | LEFT          |           | THROUGH   | MI        | N ON GF     | REEN M      | AX ON RED |
| WESTBOUND  | 19            |           | 909       |           | 43          |             | 0         |
| EASTBOUND  | 43            |           | 1102      |           | 41          |             | 0         |
| NORTHBOUND | 89            |           | 811       |           | 42          |             | 0         |
| SOUTHBOUND | 58            |           | 501       |           | 111         |             | 0         |
|            |               | **        | NUMBER    | OF LANES  | **          |             |           |
|            |               |           |           |           |             |             |           |
| APPROACH   | LEFT          | LEFT      | THROUGH   | RIGHT     | RIGHT       | L/T/R       | TOTAL     |
|            | ONLY          | SHARED    | ONLY      | SHARED    | ONLY        | SHARED      | LANES     |
| WESTBOUND  | 0             | 1         | 1         | 1         | 0           | 0           | 3         |
| EASTBOUND  | 0             | 1         | 1         | 1         | 0           | 0           | 3         |
| NORTHBOUND | 1             | 0         | 1         | 1         | 0           | 0           | 3         |
| SOUTHBOUND | 1             | 0         | 1         | 1         | 0           | 0           | 3         |
|            |               |           |           |           |             |             |           |
|            |               | ** ASS    | IGNED LAN | IE VOLUME | IS **       |             |           |
| APPROACH   | LEFT          | LEF'      | Г THRC    | UGH       | RIGHT       | RIGHT       | L/T/R     |
|            | ONLY          | SHARI     | ED ON     | ILY S     | HARED       | ONLY        | SHARED    |
| WESTBOUND  | N/A           | 264       | 4 3       | 54        | 354         | N/A         | N/A       |
| EASTBOUND  | N/A           | 28        | 7 4       | 49        | 449         | N/A         | N/A       |
| NORTHBOUND | 89            | N/Z       | A 4       | 26        | 426         | N/A         | N/A       |
| SOUTHBOUND | 58            | N/I       | A 3       | 06        | 306         | N/A         | N/A       |
|            |               |           |           |           |             |             |           |
|            |               |           |           |           |             |             |           |
|            | EAST-WEST CRI | TICAL V   | OLUMES    |           |             | 468         |           |
|            | NORTH-SOUTH ( | CRITICAL  | VOLUMES   |           |             | 484         |           |
|            |               |           |           |           |             |             |           |
|            | THE SUM OF CF | RITICAL V | VOLUMES . |           | • • • • • • | 952         |           |
|            | NUMBER OF CR  | TICAL C   | LEARANCE  | INTERVAL  | S           | 2*          |           |
|            | CMA VALUE     |           |           |           |             | 0.605       |           |
|            | LEVEL OF SERV | 7ICE      |           |           |             | В           |           |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 3, US-110 SB OFF-RAMP AND BLAINE STREET/CONNECTICUT STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                 |               |          |           | * *      | · I     | RIGHT TURN | s **      |
|--------------------------|---------------|----------|-----------|----------|---------|------------|-----------|
|                          | LEFT          |          | THROUGH   | MI       | N ON G  | REEN M     | AX ON RED |
| WESTBOUND                | 265           |          | 0         |          | 328     |            | 98        |
| EASTBOUND                | 0             |          | 0         |          | 25      |            | 0         |
| NORTHBOUND<br>SOUTHBOUND |               |          | 0<br>373  |          | 0<br>20 |            | 0         |
| SOUTHBOUND               | U             |          | 3/3       |          | 20      |            | U         |
|                          |               | **       | NUMBER    | OF LANES | · **    |            |           |
| APPROACH                 | LEFT          | LEFT     | THROUGH   | RIGHT    | RIGHT   | L/T/R      | TOTAL     |
|                          | ONLY          | SHARED   | ONLY      | SHARED   | ONLY    | SHARED     | LANES     |
| WESTBOUND                | 0             | 1        | 0         | 0        | 2       | 0          | 3         |
| EASTBOUND                | 0             | 0        | 0         | 0        | 1       | 0          | 1         |
| NORTHBOUND               |               | 0        | 0         | 0        | 0       | 0          | 0         |
| SOUTHBOUND               | 0             | 0        | 1         | 1        | 0       | 0          | 2         |
|                          |               | ** ASS   | IGNED LAN | E VOLUME | IS **   |            |           |
| APPROACH                 | LEFT          | LEF:     | r THRO    | UGH      | RIGHT   | RIGHT      | L/T/R     |
|                          | ONLY          | SHARI    | ED ON     | LY S     | SHARED  | ONLY       | SHARED    |
| WESTBOUND                | N/A           | 26       | 5 N       | /A       | N/A     | 164        | N/A       |
| EASTBOUND                | N/A           | N/I      | N A       | /A       | N/A     | 25         | N/A       |
| NORTHBOUND               | N/A           | N/I      | N A       | /A       | N/A     | N/A        | N/A       |
| SOUTHBOUND               | N/A           | N/I      | A 1       | 96       | 196     | N/A        | N/A       |
|                          |               |          |           |          |         |            |           |
|                          | EAST-WEST CRI |          |           |          |         | 290<br>196 |           |
|                          | THE SUM OF CR | ITICAL V | VOLUMES . |          |         | 486        |           |
|                          | NUMBER OF CRI | TICAL C  | LEARANCE  | INTERVAL | .S      | 3*         |           |
|                          | CMA VALUE     |          |           |          |         | 0.273      |           |
|                          | LEVEL OF SERV | ICE      |           |          |         | А          |           |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION: 4, 11TH STREET AND BLAINE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH               |               |           |                | **       |        | RIGHT TURN | _              |
|------------------------|---------------|-----------|----------------|----------|--------|------------|----------------|
| MECHDOIND              | LEFT<br>389   |           | THROUGH<br>146 | MΙ       | N ON G | REEN M     | AX ON RED<br>0 |
| WESTBOUND<br>EASTBOUND | 389           |           | 139            |          | 279    |            | 0              |
| NORTHBOUND             | -             |           | 139            |          | 0      |            | 0              |
| SOUTHBOUND             |               |           | 360            |          | 76     |            | 0              |
| SOUTHBOOKD             | 220           |           | 300            |          | 70     |            | O              |
|                        |               | **        | NUMBER         | OF LANES | **     |            |                |
| APPROACH               | LEFT          | LEFT      | THROUGH        | RIGHT    | RIGHT  | L/T/R      | TOTAL          |
|                        | ONLY          | SHARED    | ONLY           | SHARED   | ONLY   | SHARED     | LANES          |
| WESTBOUND              | 0             | 1         | 1              | 0        | 0      | 0          | 2              |
| EASTBOUND              | 0             | 0         | 1              | 0        | 1      | 0          | 2              |
| NORTHBOUND             |               | 0         | 0              | 0        | 0      | 0          | 0              |
| SOUTHBOUND             | 1             | 1         | 0              | 1        | 0      | 0          | 3              |
|                        |               | ** ASSI   | IGNED LAN      | E VOLUME | S **   |            |                |
| APPROACH               | LEFT          | LEFT      | r THRC         | UGH      | RIGHT  | RIGHT      | L/T/R          |
|                        | ONLY          | SHARI     | ED ON          | LY S     | HARED  | ONLY       | SHARED         |
| WESTBOUND              | 389           | N/A       | A 1            | 46       | N/A    | N/A        | N/A            |
| EASTBOUND              | N/A           | N/I       | A 1            | 39       | N/A    | 279        | N/A            |
| NORTHBOUND             | •             | N/A       |                | /A       | N/A    | N/A        | N/A            |
| SOUTHBOUND             | 219           | 219       | 9 и            | I/A      | 219    | N/A        | N/A            |
|                        |               |           |                |          |        |            |                |
|                        | EAST-WEST CRI | _         |                |          |        | 668<br>219 |                |
|                        |               |           |                |          |        |            |                |
|                        | THE SUM OF CF | RITICAL V | JOLUMES .      |          |        | 887        |                |
|                        | NUMBER OF CRI | TICAL CI  | LEARANCE       | INTERVAL | S      | 3*         |                |
|                        | CMA VALUE     |           |                |          |        | 0.557      |                |
|                        | LEVEL OF SERV | 7ICE      |                |          |        | A          |                |

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation. Eastbound and Westbound approaches have opposed signal phases.

INTERSECTION: 5, 11TH STREET/CHICK HEARN COURT AND CHERRY STREET/US-110 NB ON-RAMP

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |             |                      |            | *           | *       | RIGHT TUR | NS **      |
|------------|-------------|----------------------|------------|-------------|---------|-----------|------------|
|            | LEFT        |                      | THROUGH    | M           | IN ON C | GREEN N   | MAX ON RED |
| WESTBOUND  | 78          |                      | 436        |             | 328     | 3         | 0          |
| EASTBOUND  | 100         |                      | 198        |             | 5(      | )         | 0          |
| NORTHBOUND | 143         |                      | 698        |             | 214     | 1         | 90         |
| SOUTHBOUND | 0           |                      | 0          |             | (       | )         | 0          |
|            |             | * *                  |            | 00          | C **    |           |            |
|            |             | **                   | NUMBER     | OF LANE     | S **    |           |            |
| APPROACH   | LEFT        | LEFT                 | THROUGH    | RIGHT       | RIGHT   | Γ L/T/R   | TOTAL      |
|            | ONLY        | SHARED               | ONLY       | SHARED      | ONLY    | Y SHARED  | LANES      |
| WESTBOUND  | 1           | 0                    | 2          | 0           | 1       | 0         | 4          |
| EASTBOUND  | 0           | 1                    | 0          | 1           | 0       | 0         | 2          |
| NORTHBOUND | 1           | 0                    | 1          | 0           | 2       | 0         | 4          |
| SOUTHBOUND | 0           | 0                    | 0          | 0           | 0       | 0         | 0          |
|            |             | ** 7.00 <sup>-</sup> |            | TEL TAGETIM | TC **   |           |            |
|            |             | ASS.                 | IGNED LAI  | NE VOLUM    | ES ""   |           |            |
| APPROACH   | LEFT        | LEFT                 | r THRO     | OUGH        | RIGHT   | RIGHT     | L/T/R      |
|            | ONLY        | SHARI                | ED OI      | 1LY         | SHARED  | ONLY      | SHARED     |
| WESTBOUND  | 78          | N/I                  | A          | 218         | N/A     | 328       | N/A        |
| EASTBOUND  | 100         | N/I                  | 1 A        | N/A         | 248     | N/A       | N/A        |
| NORTHBOUND | 143         | N/A                  | <i>A</i> 6 | 598         | N/A     | 107       | N/A        |
| SOUTHBOUND | N/A         | N/A                  | 1 A        | N/A         | N/A     | N/A       | N/A        |
|            |             |                      |            |             |         |           |            |
|            |             |                      |            |             |         |           |            |
| E          | AST-WEST CR | ITICAL VO            | DLUMES .   |             |         | . 428     |            |
| N          | ORTH-SOUTH  | CRITICAL             | VOLUMES    |             |         | . 698     |            |
|            |             |                      |            |             |         |           |            |

THE SUM OF CRITICAL VOLUMES ..... 1126

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2\*

CMA VALUE ..... 0.734

LEVEL OF SERVICE ..... C

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:6, 11TH STREET AND OLIVE AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           |  | *         | * F      | RIGHT TURN     | S **      |
|------------|---------------|-----------|--|-----------|----------|----------------|-----------|
|            | LEFT          |           | THROUGH                                  | M         | IN ON GE | REEN M         | AX ON RED |
| WESTBOUND  | 0             |           | 319                                      |           | 90       |                | 0         |
| EASTBOUND  | 0             |           | 0  |           | 0        |                | 0         |
| NORTHBOUND |               |           | 1533                                     |           | 0        |                | 0         |
| SOUTHBOUND | 0             |           | 0  |           | 0        |                | 0         |
|            |               | **        | NUMBER                                   | OF LANE   | S **     |                |           |
| APPROACH   | LEFT          | LEFT      | THROUGH                                  | RIGHT     | RIGHT    | L/T/R          | TOTAL     |
|            | ONLY          | SHARED    | ONLY                                     | SHARED    | ONLY     | SHARED         | LANES     |
| WESTBOUND  | 0             | 0         | 2  | 0         | 1        | 0              | 3         |
| EASTBOUND  | 0             | 0         | 0  | 0         | 0        | 0              | 0         |
| NORTHBOUND | 0             | 1         | 3  | 0         | 0        | 0              | 4         |
| SOUTHBOUND | 0             | 0         | 0  | 0         | 0        | 0              | 0         |
|            |               | ** ASS    | IGNED LAN                                | IE VOLUMI | ES **    |                |           |
| APPROACH   | LEFT          | LEF"      | r Thro                                   | UGH       | RIGHT    | RIGHT          | L/T/R     |
|            | ONLY          | SHARI     | ED ON                                    | ILY :     | SHARED   | ONLY           | SHARED    |
| WESTBOUND  | N/A           | N/Z       | A 1                                      | .60       | N/A      | 90             | N/A       |
| EASTBOUND  | N/A           | N/Z       |  | I/A       | N/A      | N/A            | N/A       |
| NORTHBOUND | •             | 408       |  | 80        | N/A      | N/A            | N/A       |
| SOUTHBOUND | N/A           | N/I       | A N                                      | I/A       | N/A      | N/A            | N/A       |
|            |               |           | 0. I I I I I I I I I I I I I I I I I I I |           |          | 160            |           |
|            | EAST-WEST CRI |           |  |           |          | 160<br>408<br> |           |
|            | THE SUM OF CF | RITICAL V | VOLUMES .                                |           |          | 568            |           |
|            | NUMBER OF CRI | TICAL C   | LEARANCE                                 | INTERVA   | LS       | 2*             |           |
|            | CMA VALUE     |           |  |           |          | 0.337          |           |
|            | LEVEL OF SERV | 7ICE      |  |           |          | А              |           |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 7, 11TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |              |            |          | *             |             | RIGHT TURN | -         |
|------------|--------------|------------|----------|---------------|-------------|------------|-----------|
|            | LEFT         |            | THROUGH  | M             | IN ON G     | REEN M     | AX ON RED |
| WESTBOUND  | 55           |            | 367      |               | 104         |            | 0         |
| EASTBOUND  | 0            |            | 0        |               | 0           |            | 0         |
| NORTHBOUND | 4            |            | 35       |               | ū           |            | 0<br>0    |
| SOUTHBOUND | U            |            | 560      |               | 58          |            | U         |
|            |              | **         | NUMBER   | OF LANE       | S **        |            |           |
| APPROACH   | LEFT         | LEFT       | THROUGH  | RIGHT         | RIGHT       | L/T/R      | TOTAL     |
|            | ONLY         | SHARED     | ONLY     | SHARED        | ONLY        | SHARED     | LANES     |
| WESTBOUND  | 1            | 0          | 1        | 1             | 0           | 0          | 3         |
| EASTBOUND  | 0            | 0          | 0        | 0             | 0           | 0          | 0         |
| NORTHBOUND | 1            | 0          | 2        | 0             | 0           | 0          | 3         |
| SOUTHBOUND | 0            | 0          | 1        | 1             | 0           | 0          | 2         |
|            |              | ** ASSI    | GNED LAN | IE VOLUM      | ES **       |            |           |
| APPROACH   | LEFT         | LEFT       | THRO     | UGH           | RIGHT       | RIGHT      | L/T/R     |
|            | ONLY         | SHARE      | ED ON    | ILY           | SHARED      | ONLY       | SHARED    |
| WESTBOUND  | 55           | N/A        | A 2      | 236           | 236         | N/A        | N/A       |
| EASTBOUND  | N/A          | N/A        | N A      | I/A           | N/A         | N/A        | N/A       |
| NORTHBOUND | 4            | N/A        | A        | 18            | N/A         | N/A        | N/A       |
| SOUTHBOUND | N/A          | N/A        | 4 3      | 309           | 309         | N/A        | N/A       |
|            |              |            |          |               |             |            |           |
|            | EAST-WEST CR |            |          |               |             | 236        |           |
|            | NORTH-SOUTH  | CRITICAL   | VOLUMES  | • • • • • • • | • • • • • • | 313        |           |
|            | THE SUM OF C | CRITICAL V | OLUMES . |               |             | 549        |           |
|            | NUMBER OF CF | RITICAL CI | LEARANCE | INTERVA       | LS          | 2*         |           |

CMA VALUE ..... 0.325

LEVEL OF SERVICE .....

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:8, 11TH STREET AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH     |               |           |                | * *       | 10          | IGHT TURN | _              |
|--------------|---------------|-----------|----------------|-----------|-------------|-----------|----------------|
| WESTBOUND    | LEFT<br>55    |           | THROUGH<br>319 | MI        | N ON GR     | EEN MA    | AX ON RED<br>0 |
| EASTBOUND    | 0             |           | 319            |           | 29<br>0     |           | 0              |
| NORTHBOUND   | -             |           | 948            |           | 0           |           | 0              |
| SOUTHBOUND   |               |           | 447            |           | 53          |           | 0              |
| 500111500115 | ŭ             |           | 11,            |           | 33          |           | Ü              |
|              |               | **        | NUMBER         | OF LANES  | **          |           |                |
| APPROACH     | LEFT          | LEFT      | THROUGH        | RIGHT     | RIGHT       | L/T/R     | TOTAL          |
|              | ONLY          | SHARED    | ONLY           |           | ONLY        | SHARED    | LANES          |
| WESTBOUND    | 0             | 1         | 1              | 1         | 0           | 0         | 3              |
| EASTBOUND    | 0             | 0         | 0              | 0         | 0           | 0         | 0              |
| NORTHBOUND   |               | 0         | 2              | 0         | 0           | 0         | 3              |
| SOUTHBOUND   | 0             | 0         | 1              | 1         | 0           | 0         | 2              |
|              |               | ** ASSI   | IGNED LAN      | IE VOLUME | IS **       |           |                |
| APPROACH     | LEFT          | LEFT      | r THRC         | UGH       | RIGHT       | RIGHT     | L/T/R          |
|              | ONLY          | SHARI     | ED ON          | ILY S     | SHARED      | ONLY      | SHARED         |
| WESTBOUND    | N/A           | 134       | 4 1            | .34       | 134         | N/A       | N/A            |
| EASTBOUND    | N/A           | N/A       | N A            | 1/A       | N/A         | N/A       | N/A            |
| NORTHBOUND   | 192           | N/I       | 4 4            | 174       | N/A         | N/A       | N/A            |
| SOUTHBOUND   | N/A           | N/I       | A 2            | 250       | 250         | N/A       | N/A            |
|              |               |           |                |           |             |           |                |
|              | EAST-WEST CRI | TICAL VO  | OLUMES         |           |             | 134       |                |
|              | NORTH-SOUTH ( | CRITICAL  | VOLUMES        |           | • • • • • • | 474<br>   |                |
|              | THE SUM OF CF | RITICAL V | JOLUMES .      |           |             | 608       |                |
|              | NUMBER OF CRI | TICAL CI  | LEARANCE       | INTERVAL  | S           | 2*        |                |
|              | CMA VALUE     |           |                |           |             | 0.360     |                |
|              | LEVEL OF SERV | 7ICE      |                |           |             | A         |                |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:9, 11TH STREET AND MAIN STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |              |           |           | *        | *      | RIGHT | TURNS | **       |
|------------|--------------|-----------|-----------|----------|--------|-------|-------|----------|
|            | LEFT         |           | THROUGH   | M        | IN ON  | GREEN | MA    | X ON RED |
| WESTBOUND  | 39           |           | 258       |          | 6      | 2     |       | 0        |
| EASTBOUND  | 0            |           | 0         |          |        | 0     |       | 0        |
| NORTHBOUND | 57           |           | 923       |          |        | 0     |       | 0        |
| SOUTHBOUND | 0            |           | 575       |          | 8      | 4     |       | 0        |
|            |              | **        | NUMBER    | OF LANE  | S **   |       |       |          |
| APPROACH   | LEFT         | LEFT      | THROUGH   | RIGHT    | RIGH   | T L   | /T/R  | TOTAL    |
|            | ONLY         | SHARED    | ONLY      | SHARED   | ONL    | Y SHA | ARED  | LANES    |
| WESTBOUND  | 0            | 1         | 0         | 1        | 0      | (     | )     | 2        |
| EASTBOUND  | 0            | 0         | 0         | 0        | 0      | (     | )     | 0        |
| NORTHBOUND | 1            | 0         | 2         | 0        | 0      | (     | )     | 3        |
| SOUTHBOUND | 0            | 0         | 1         | 1        | 0      | (     | )     | 2        |
|            |              | ** ASS    | IGNED LAI | NE VOLUM | ES **  |       |       |          |
| APPROACH   | LEFT         | LEF:      | r THRO    | OUGH     | RIGHT  | ' RIC | GHT   | L/T/R    |
|            | ONLY         | SHARI     | IO GE     | 1LY      | SHARED | OI    | NLY   | SHARED   |
| WESTBOUND  | N/A          | 180       | 1 C       | I/A      | 180    | 1     | N/A   | N/A      |
| EASTBOUND  | N/A          | N/I       | 1 A       | I/A      | N/A    | 1     | N/A   | N/A      |
| NORTHBOUND | 57           | N/A       | Α 4       | 162      | N/A    | 1     | N/A   | N/A      |
| SOUTHBOUND | N/A          | N/A       | A         | 330      | 330    | 1     | N/A   | N/A      |
|            |              |           |           |          |        |       |       |          |
|            | EAST-WEST CR | _         |           |          |        |       | -     |          |
|            | THE SUM OF C | RITICAL V | VOLUMES   |          |        | . 642 | 2     |          |

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2\*

CMA VALUE ..... 0.380

LEVEL OF SERVICE .....

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:10, 12TH STREET AND OLIVE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   | T 13 13 10    |          | mup ou du    | * *      | 10            | IGHT TURNS | _              |
|------------|---------------|----------|--------------|----------|---------------|------------|----------------|
| WESTBOUND  | LEFT<br>0     |          | THROUGH<br>0 | 141 T    | IN ON GR<br>0 | EEN M      | AX ON RED<br>0 |
| EASTBOUND  | 80            |          | 244          |          | 0             |            | 0              |
| NORTHBOUND | 0             |          | 1657         |          | 26            |            | 0              |
| SOUTHBOUND | 0             |          | 0            |          | 0             |            | 0              |
|            | -             |          | _            |          |               |            | -              |
|            |               | **       | NUMBER       | OF LANES | ; **          |            |                |
| APPROACH   | LEFT          | LEFT     | THROUGH      | RIGHT    | RIGHT         | L/T/R      | TOTAL          |
|            | ONLY          | SHARED   | ONLY         | SHARED   | ONLY          | SHARED     | LANES          |
| WESTBOUND  | 0             | 0        | 0            | 0        | 0             | 0          | 0              |
| EASTBOUND  | 0             | 1        | 0            | 1        | 0             | 0          | 2              |
| NORTHBOUND |               | 0        | 3            | 1        | 0             | 0          | 4              |
| SOUTHBOUND | 0             | 0        | 0            | 0        | 0             | 0          | 0              |
|            |               | ** ASS   | IGNED LAN    | E VOLUME | IS **         |            |                |
| APPROACH   | LEFT          | LEF:     | THRO         | UGH      | RIGHT         | RIGHT      | L/T/R          |
|            | ONLY          | SHARI    | ED ON        | LY S     | SHARED        | ONLY       | SHARED         |
| WESTBOUND  | N/A           | N/A      | A N          | /A       | N/A           | N/A        | N/A            |
| EASTBOUND  | N/A           | 162      | 2 N          | /A       | 162           | N/A        | N/A            |
| NORTHBOUND | N/A           | N/A      | 4            | 21       | 421           | N/A        | N/A            |
| SOUTHBOUND | N/A           | N/A      | A N          | /A       | N/A           | N/A        | N/A            |
|            |               |          |              |          |               |            |                |
|            | EAST-WEST CRI | _        |              |          |               | 162        |                |
|            | NORTH-SOUTH C | RITICAL  | VOLUMES      |          | • • • • • •   | 421        |                |
|            | THE SUM OF CR | ITICAL V | OLUMES .     |          |               | 583        |                |
|            | NUMBER OF CRI | TICAL CI | LEARANCE     | INTERVAL | .S            | 2*         |                |
|            | CMA VALUE     |          |              |          |               | 0.345      |                |
|            | LEVEL OF SERV | ICE      |              |          |               | A          |                |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:11, 12TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           |           | * *       |        | RIGHT TURN | S **      |
|------------|---------------|-----------|-----------|-----------|--------|------------|-----------|
|            | LEFT          |           | THROUGH   | MI        | N ON G | REEN M     | AX ON RED |
| WESTBOUND  | 0             |           | 0         |           | 0      |            | 0         |
| EASTBOUND  | 0             |           | 223       |           | 35     |            | 0         |
| NORTHBOUND |               |           | 36        |           | 182    |            | 0         |
| SOUTHBOUND | 99            |           | 540       |           | 0      |            | 0         |
|            |               | **        | NUMBER    | OF LANES  | **     |            |           |
| APPROACH   | LEFT          | LEFT      | THROUGH   | RIGHT     | RIGHT  | L/T/R      | TOTAL     |
|            | ONLY          | SHARED    | ONLY      | SHARED    | ONLY   | SHARED     | LANES     |
| WESTBOUND  | 0             | 0         | 0         | 0         | 0      | 0          | 0         |
| EASTBOUND  | 0             | 0         | 1         | 1         | 0      | 0          | 2         |
| NORTHBOUND | 0             | 0         | 1         | 0         | 1      | 0          | 2         |
| SOUTHBOUND | 1             | 0         | 2         | 0         | 0      | 0          | 3         |
|            |               | ** ASS    | IGNED LAN | IE VOLUME | S **   |            |           |
| APPROACH   | LEFT          | LEFT      | r THRO    | UGH       | RIGHT  | RIGHT      | L/T/R     |
|            | ONLY          | SHARI     | ED ON     | ILY S     | HARED  | ONLY       | SHARED    |
| WESTBOUND  | N/A           | N/A       | A N       | I/A       | N/A    | N/A        | N/A       |
| EASTBOUND  | N/A           | N/I       | A 1       | .29       | 129    | N/A        | N/A       |
| NORTHBOUND | •             | N/I       | A         | 36        | N/A    | 182        | N/A       |
| SOUTHBOUND | 99            | N/A       | A 2       | 270       | N/A    | N/A        | N/A       |
|            |               |           |           |           |        |            |           |
|            | EAST-WEST CRI | TICAL VO  | OLUMES    |           |        | 129        |           |
|            | NORTH-SOUTH ( | CRITICAL  | VOLUMES   |           |        | 281        |           |
|            | THE SUM OF CF | RITICAL V | VOLUMES . |           |        | 410        |           |
|            | NUMBER OF CRI | TICAL CI  | LEARANCE  | INTERVAL  | S      | 2*         |           |
|            | CMA VALUE     |           |           |           |        | 0.243      |           |
|            | LEVEL OF SERV | CE        |           |           |        | A          |           |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:12, 12TH STREET AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |              |            |           | *             | *      | RIGHT | TURNS  | **     |
|------------|--------------|------------|-----------|---------------|--------|-------|--------|--------|
|            | LEFT         |            | THROUGH   | M             | IN ON  | GREEN | MAX    | ON RED |
| WESTBOUND  | 0            |            | 0         |               |        | 0     |        | 0      |
| EASTBOUND  | 143          |            | 283       |               | 4      | :0    |        | 0      |
| NORTHBOUND | 0            |            | 962       |               | 4      | :5    |        | 0      |
| SOUTHBOUND | 35           |            | 414       |               |        | 0     |        | 0      |
|            |              | **         | NUMBER    | OF LANE       | S **   |       |        |        |
| APPROACH   | LEFT         | LEFT       | THROUGH   | RIGHT         | RIGH   | IT L/ | T/R    | TOTAL  |
|            | ONLY         | SHARED     | ONLY      | SHARED        | ONI    | Y SHA | ARED   | LANES  |
| WESTBOUND  | 0            | 0          | 0         | 0             | 0      | 0     | )      | 0      |
| EASTBOUND  | 0            | 1          | 0         | 1             | 0      | 0     | )      | 2      |
| NORTHBOUND | 0            | 0          | 1         | 1             | 0      | 0     | )      | 2      |
| SOUTHBOUND | 1            | 0          | 2         | 0             | 0      | C     | )      | 3      |
|            |              | ** ASSI    | IGNED LAI | NE VOLUM      | ES **  |       |        |        |
| APPROACH   | LEFT         | LEFT       | r THRO    | OUGH          | RIGHT  | r RIG | SHT    | L/T/R  |
|            | ONLY         | SHARI      | ED OI     | NLY           | SHAREI | ON    | ILY    | SHARED |
| WESTBOUND  | N/A          | N/P        | 1 A       | N/A           | N/A    | N     | I/A    | N/A    |
| EASTBOUND  | N/A          | 233        | 3 1       | N/A           | 233    | N     | 1/A    | N/A    |
| NORTHBOUND | N/A          | N/B        | . A       | 504           | 504    | N     | 1/A    | N/A    |
| SOUTHBOUND | 35           | N/A        | A         | 207           | N/A    | N     | I/A    | N/A    |
|            |              |            |           |               |        |       |        |        |
|            | EAST-WEST CF |            |           |               |        | . 233 |        |        |
|            | NORTH-SOUTH  | CRITICAL   | VOLUMES   | • • • • • • • |        | . 539 | )<br>- |        |
|            | THE SUM OF C | CRITICAL V | /OLUMES   |               |        | . 772 | 2      |        |

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2\*

CMA VALUE ..... 0.472

LEVEL OF SERVICE ..... A

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:13, 12TH STREET AND MAIN STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           |           | * *       | R       | IGHT TURNS | s **      |
|------------|---------------|-----------|-----------|-----------|---------|------------|-----------|
|            | LEFT          |           | THROUGH   | IM        | N ON GR | EEN M      | AX ON RED |
| WESTBOUND  | 0             |           | 0         |           | 0       |            | 0         |
| EASTBOUND  | 36            |           | 245       |           | 37      |            | 0         |
| NORTHBOUND |               |           | 866       |           | 44      |            | 0         |
| SOUTHBOUND | 64            |           | 531       |           | 0       |            | 0         |
|            |               | * *       | NUMBER    | OF LANES  | **      |            |           |
| APPROACH   | LEFT          | LEFT      | THROUGH   | RIGHT     | RIGHT   | L/T/R      | TOTAL     |
|            | ONLY          | SHARED    | ONLY      | SHARED    | ONLY    | SHARED     | LANES     |
| WESTBOUND  | 0             | 0         | 0         | 0         | 0       | 0          | 0         |
| EASTBOUND  | 0             | 1         | 1         | 1         | 0       | 0          | 3         |
| NORTHBOUND | 0             | 0         | 1         | 1         | 0       | 0          | 2         |
| SOUTHBOUND | 1             | 0         | 2         | 0         | 0       | 0          | 3         |
|            |               | ** ASS    | IGNED LAN | IE VOLUME | S **    |            |           |
| APPROACH   | LEFT          | LEF'      | T THRC    | UGH       | RIGHT   | RIGHT      | L/T/R     |
|            | ONLY          | SHAR      | ED ON     | ILY S     | HARED   | ONLY       | SHARED    |
| WESTBOUND  | N/A           | N/2       | A N       | I/A       | N/A     | N/A        | N/A       |
| EASTBOUND  | N/A           | 10        |           | .06       | 106     | N/A        | N/A       |
| NORTHBOUND | ,             | N/2       |           | :55       | 455     | N/A        | N/A       |
| SOUTHBOUND | 64            | N/        | A 2       | 266       | N/A     | N/A        | N/A       |
|            |               |           |           |           |         |            |           |
|            | EAST-WEST CRI | _         |           |           |         | 106<br>519 |           |
|            | THE SUM OF C  | RITICAL ' | VOLUMES . |           |         | 625        |           |
|            | NUMBER OF CR  | ITICAL C  | LEARANCE  | INTERVAL  | S       | 2*         |           |
|            | CMA VALUE     |           |           |           |         | 0.370      |           |
|            | LEVEL OF SERV | /ICE      |           |           |         | А          |           |

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:14, 12TH STREET AND LOS ANGELES STREET DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |          |           | * *       | R           | GHT TURNS | s **      |
|------------|---------------|----------|-----------|-----------|-------------|-----------|-----------|
|            | LEFT          |          | THROUGH   | MI        | N ON GR     | EEN M     | AX ON RED |
| WESTBOUND  | 0             |          | 0         |           | 0           |           | 0         |
| EASTBOUND  | 42            |          | 232       |           | 32          |           | 0         |
| NORTHBOUND |               |          | 440       |           | 54          |           | 0         |
| SOUTHBOUND | 89            |          | 330       |           | 0           |           | 0         |
|            |               | **       | NUMBER    | OF LANES  | **          |           |           |
| APPROACH   | LEFT          | LEFT     | THROUGH   | RIGHT     | RIGHT       | L/T/R     | TOTAL     |
|            | ONLY          | SHARED   | ONLY      | SHARED    | ONLY        | SHARED    | LANES     |
| WESTBOUND  | 0             | 0        | 0         | 0         | 0           | 0         | 0         |
| EASTBOUND  | 0             | 1        | 2         | 1         | 0           | 0         | 4         |
| NORTHBOUND | 0             | 0        | 1         | 1         | 0           | 0         | 2         |
| SOUTHBOUND | 0             | 1        | 1         | 0         | 0           | 0         | 2         |
|            |               | ** ASS   | IGNED LAN | IE VOLUME | S **        |           |           |
| APPROACH   | LEFT          | LEF'     | r THRC    | UGH       | RIGHT       | RIGHT     | L/T/R     |
|            | ONLY          | SHAR     | ED ON     | ILY S     | HARED       | ONLY      | SHARED    |
| WESTBOUND  | N/A           | N/Z      | A N       | 1/A       | N/A         | N/A       | N/A       |
| EASTBOUND  | N/A           | 7        | б         | 76        | 76          | N/A       | N/A       |
| NORTHBOUND | N/A           | N/Z      | A 2       | 247       | 247         | N/A       | N/A       |
| SOUTHBOUND | N/A           | 14       | 4 2       | 275       | N/A         | N/A       | N/A       |
|            | EAST-WEST CRI | ITICAL V | OLUMES    |           |             | 76        |           |
|            | NORTH-SOUTH ( | CRITICAL | VOLUMES   |           | • • • • • • | 336       |           |
|            | THE SUM OF CE | -        |           |           | • • • • • • | 412       |           |
|            | NUMBER OF CRI | ITICAL C | LEARANCE  | INTERVAL  | S           | 2*        |           |
|            | CMA VALUE     |          |           |           |             | 0.244     |           |
|            | LEVEL OF SERV | /ICE     |           |           |             | A         |           |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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Capacity used = 1350.

INTERSECTION:15, PICO BOULEVARD AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH     |               |           |             | **       | 10      | IGHT TURNS |                |
|--------------|---------------|-----------|-------------|----------|---------|------------|----------------|
| WESTBOUND    | LEFT<br>18    |           | THROUGH 344 | M⊥       | N ON GR | EEN MA     | AX ON RED<br>0 |
| EASTBOUND    | 24            |           | 368         |          | 39      |            | 0              |
| NORTHBOUND   |               |           | 230         |          | 66      |            | 9              |
| SOUTHBOUND   |               |           | 510         |          | 94      |            | 0              |
| 500111500115 | 10            |           | 310         |          | 7 1     |            | · ·            |
|              |               | **        | NUMBER      | OF LANES | **      |            |                |
| APPROACH     | LEFT          | LEFT      | THROUGH     | RIGHT    | RIGHT   | L/T/R      | TOTAL          |
|              | ONLY          | SHARED    | ONLY        | SHARED   | ONLY    | SHARED     | LANES          |
| WESTBOUND    | 0             | 1         | 0           | 1        | 0       | 0          | 2              |
| EASTBOUND    | 0             | 1         | 0           | 1        | 0       | 0          | 2              |
| NORTHBOUND   |               | 0         | 1           | 0        | 1       | 0          | 3              |
| SOUTHBOUND   | 1             | 0         | 1           | 1        | 0       | 0          | 3              |
|              |               | ** ASS    | IGNED LAN   | E VOLUME | S **    |            |                |
| APPROACH     | LEFT          | LEF:      | r THRO      | UGH      | RIGHT   | RIGHT      | L/T/R          |
|              | ONLY          | SHARI     | ED ON       | ILY S    | HARED   | ONLY       | SHARED         |
| WESTBOUND    | N/A           | 182       | 2 N         | I/A      | 200     | N/A        | N/A            |
| EASTBOUND    | N/A           | 206       | б N         | I/A      | 226     | N/A        | N/A            |
| NORTHBOUND   | 98            | N/I       | A 2         | 30       | N/A     | 66         | N/A            |
| SOUTHBOUND   | 40            | N/Z       | A 3         | 02       | 302     | N/A        | N/A            |
|              |               |           |             |          |         |            |                |
|              | EAST-WEST CRI |           |             |          |         | 244        |                |
|              | NORTH-SOUTH C | RITICAL   | VOLUMES     |          |         | 400        |                |
|              | THE SUM OF CF | RITICAL V | VOLUMES .   |          |         | 644        |                |
|              | NUMBER OF CRI | TICAL C   | LEARANCE    | INTERVAL | S       | 2*         |                |
|              | CMA VALUE     |           |             |          |         | 0.343      |                |
|              | LEVEL OF SERV | 7ICE      |             |          |         | А          |                |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:16, PICO BOULEVARD AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           |           | * *      | R       | IGHT TURNS | s **      |
|------------|---------------|-----------|-----------|----------|---------|------------|-----------|
|            | LEFT          |           | THROUGH   | MI       | N ON GR | EEN M      | AX ON RED |
| WESTBOUND  | 23            |           | 198       |          | 41      |            | 0         |
| EASTBOUND  | 77            |           | 278       |          | 0       |            | 21        |
| NORTHBOUND |               |           | 879       |          | 23      |            | 0         |
| SOUTHBOUND | 28            |           | 358       |          | 46      |            | 0         |
|            |               | **        | NUMBER    | OF LANES | **      |            |           |
| APPROACH   | LEFT          | LEFT      | THROUGH   | RIGHT    | RIGHT   | L/T/R      | TOTAL     |
|            | ONLY          | SHARED    | ONLY      | SHARED   | ONLY    | SHARED     | LANES     |
| WESTBOUND  | 1             | 0         | 0         | 1        | 0       | 0          | 2         |
| EASTBOUND  | 1             | 0         | 1         | 0        | 1       | 0          | 3         |
| NORTHBOUND |               | 0         | 1         | 1        | 0       | 0          | 3         |
| SOUTHBOUND | 1             | 0         | 1         | 1        | 0       | 0          | 3         |
|            |               | ** ASS    | IGNED LAN | E VOLUME | S **    |            |           |
| APPROACH   | LEFT          | LEF'      | THRC      | UGH      | RIGHT   | RIGHT      | L/T/R     |
|            | ONLY          | SHAR      | ED ON     | ILY S    | HARED   | ONLY       | SHARED    |
| WESTBOUND  | 23            | N/I       | A N       | I/A      | 239     | N/A        | N/A       |
| EASTBOUND  | 77            | N/I       |           | 78       | N/A     | 0          | N/A       |
| NORTHBOUND |               | N/I       |           | :51      | 451     | N/A        | N/A       |
| SOUTHBOUND | 28            | N/I       | A 2       | 102      | 202     | N/A        | N/A       |
|            |               |           |           |          |         |            |           |
|            | EAST-WEST CRI |           |           |          |         | 316<br>479 |           |
|            | THE SUM OF C  | RITICAL ' | VOLUMES . |          |         | 795        |           |
|            | NUMBER OF CRI | TICAL C   | LEARANCE  | INTERVAL | S       | 2*         |           |
|            | CMA VALUE     |           |           |          |         | 0.430      |           |
|            | LEVEL OF SERV | TICE      |           |          |         | А          |           |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:17, 17TH STREET/I-10 WB ON-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   | T 131300      |          | munoudu        | * *      | 1             | IGHT TURNS |                |
|------------|---------------|----------|----------------|----------|---------------|------------|----------------|
| WESTBOUND  | LEFT<br>197   |          | THROUGH<br>495 | MI       | IN ON GR<br>0 | EEN M      | AX ON RED<br>0 |
| EASTBOUND  | 0             |          | 0              |          | 0             |            | 0              |
| NORTHBOUND | 0             |          | 0              |          | 0             |            | 0              |
| SOUTHBOUND | 0             |          | 443            |          | 237           |            | 0              |
|            |               |          |                |          |               |            |                |
|            |               | **       | NUMBER         | OF LANES | 3 **          |            |                |
| APPROACH   | LEFT          | LEFT     | THROUGH        | RIGHT    | RIGHT         | L/T/R      | TOTAL          |
|            | ONLY          | SHARED   | ONLY           | SHARED   | ONLY          | SHARED     | LANES          |
| WESTBOUND  | 0             | 1        | 0              | 1        | 0             | 0          | 2              |
| EASTBOUND  | 0             | 0        | 0              | 0        | 0             | 0          | 0              |
| NORTHBOUND | 0             | 0        | 0              | 0        | 0             | 0          | 0              |
| SOUTHBOUND | 0             | 0        | 3              | 1        | 1             | 0          | 5              |
|            |               | ** ASS   | IGNED LAN      | E VOLUME | IS **         |            |                |
| APPROACH   | LEFT          | LEF:     | Γ THRC         | UGH      | RIGHT         | RIGHT      | L/T/R          |
|            | ONLY          | SHARI    | ED ON          | ILY S    | SHARED        | ONLY       | SHARED         |
| WESTBOUND  | N/A           | 346      | 5 N            | I/A      | 346           | N/A        | N/A            |
| EASTBOUND  | N/A           | N/Z      | A N            | I/A      | N/A           | N/A        | N/A            |
| NORTHBOUND | •             | N/I      |                | I/A      | N/A           | N/A        | N/A            |
| SOUTHBOUND | N/A           | N/Z      | A 1            | .36      | 136           | 136        | N/A            |
|            |               |          |                |          |               |            |                |
|            | EAST-WEST CRI |          |                |          |               | 346<br>136 |                |
|            |               |          |                |          |               |            |                |
|            | THE SUM OF CR | TTICAL V | VOLUMES .      |          | • • • • •     | 482        |                |
|            | NUMBER OF CRI | TICAL C  | LEARANCE       | INTERVAL | ıS            | 2*         |                |
|            | CMA VALUE     |          |                |          |               | 0.257      |                |
|            | LEVEL OF SERV | ICE      |                |          |               | A          |                |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:18, 18TH STREET/I-10 EB OFF-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           |           | * *       | F       | RIGHT TURNS | s **      |
|------------|---------------|-----------|-----------|-----------|---------|-------------|-----------|
|            | LEFT          |           | THROUGH   | MI        | N ON GF | REEN MA     | AX ON RED |
| WESTBOUND  | 0             |           | 0         |           | 0       |             | 0         |
| EASTBOUND  | 0             |           | 1088      |           | 72      |             | 40        |
| NORTHBOUND |               |           | 0         |           | 199     |             | 0         |
| SOUTHBOUND | 127           |           | 445       |           | 0       |             | 0         |
|            |               | **        | NUMBER    | OF LANES  | **      |             |           |
| APPROACH   | LEFT          | LEFT      | THROUGH   | RIGHT     | RIGHT   | L/T/R       | TOTAL     |
|            | ONLY          | SHARED    | ONLY      | SHARED    | ONLY    | SHARED      | LANES     |
| WESTBOUND  | 0             | 0         | 0         | 0         | 0       | 0           | 0         |
| EASTBOUND  | 0             | 0         | 3         | 0         | 1       | 0           | 4         |
| NORTHBOUND | 0             | 0         | 0         | 0         | 2       | 0           | 2         |
| SOUTHBOUND | 1             | 0         | 3         | 0         | 0       | 0           | 4         |
|            |               | ** ASS    | IGNED LAN | IE VOLUME | S **    |             |           |
| APPROACH   | LEFT          | LEF'      | THRC      | UGH       | RIGHT   | RIGHT       | L/T/R     |
|            | ONLY          | SHAR      | ED ON     | ILY S     | HARED   | ONLY        | SHARED    |
| WESTBOUND  | N/A           | N/2       | A N       | 1/A       | N/A     | N/A         | N/A       |
| EASTBOUND  | N/A           | N/2       | A 3       | 363       | N/A     | 72          | N/A       |
| NORTHBOUND | •             | N/2       | A N       | 1/A       | N/A     | 100         | N/A       |
| SOUTHBOUND | 127           | N/        | A 1       | .48       | N/A     | N/A         | N/A       |
|            |               |           |           |           |         |             |           |
|            | EAST-WEST CRI | _         |           |           |         | 363<br>227  |           |
|            | THE SUM OF C  | RITICAL ' | VOLUMES . |           |         | 590         |           |
|            | NUMBER OF CR  | TICAL C   | LEARANCE  | INTERVAL  | S       | 3*          |           |
|            | CMA VALUE     |           |           |           |         | 0.331       |           |
|            | LEVEL OF SERV | 7ICE      |           |           |         | A           |           |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:19, 17TH STREET/I-10 WB OFF-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |                      |           | * *       | · 1         | RIGHT TURN | S **      |
|------------|---------------|----------------------|-----------|-----------|-------------|------------|-----------|
|            | LEFT          |                      | THROUGH   | MI        | N ON G      | REEN M     | AX ON RED |
| WESTBOUND  | 166           |                      | 920       |           | 203         |            | 0         |
| EASTBOUND  | 0             |                      | 0         |           | 0           |            | 0         |
| NORTHBOUND | 37            |                      | 274 0     |           |             |            | 0         |
| SOUTHBOUND | 0             |                      | 292       |           | 49          |            | 0         |
|            |               |                      |           |           |             |            |           |
|            |               | * *                  | NUMBER    | OF LANES  | **          |            |           |
| APPROACH   | LEFT          | LEFT                 | THROUGH   | RIGHT     | RIGHT       | L/T/R      | TOTAL     |
|            | ONLY          | SHARED               | ONLY      | SHARED    | ONLY        | SHARED     | LANES     |
| WESTBOUND  | 0             | 1                    | 0         | 1         | 0           | 0          | 2         |
| EASTBOUND  | 0             | 0                    | 0         | 0         | 0           | 0          | 0         |
| NORTHBOUND | 1             | 0                    | 2         | 0         | 0           | 0          | 3         |
| SOUTHBOUND | 0             | 0                    | 1         | 1         | 0           | 0          | 2         |
|            |               | ** 7.00 <sup>-</sup> |           |           | ** P'       |            |           |
|            |               | ** ASS.              | IGNED LAN | IE VOLUME | :S **       |            |           |
| APPROACH   | LEFT          | LEFT                 | r THRC    | UGH       | RIGHT       | RIGHT      | L/T/R     |
|            | ONLY          | SHARI                | ED ON     | ILY S     | SHARED      | ONLY       | SHARED    |
| WESTBOUND  | N/A           | 644                  | 4 N       | I/A       | 644         | N/A        | N/A       |
| EASTBOUND  | N/A           | N/A                  | A N       | I/A       | N/A         | N/A        | N/A       |
| NORTHBOUND | 37            | N/A                  | A 1       | .37       | N/A         | N/A        | N/A       |
| SOUTHBOUND | N/A           | N/A                  | A 1       | .70       | 170         | N/A        | N/A       |
|            |               |                      |           |           |             |            |           |
|            |               |                      |           |           |             |            |           |
|            | EAST-WEST CR  | TICAL VO             | OLUMES    |           |             | 644        |           |
|            | NORTH-SOUTH ( | CRITICAL             | VOLUMES   |           |             | 207        |           |
|            |               |                      |           |           |             |            |           |
|            | THE SUM OF C  | RITICAL V            | OLUMES .  |           | • • • • • • | 851        |           |
|            | NUMBER OF CR  | ITICAL CI            | LEARANCE  | INTERVAL  |             | 2*         |           |
|            | CMA VALUE     |                      |           |           |             | 0.467      |           |
|            | LEVEL OF SERV | /ICE                 |           |           |             | А          |           |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION: 20, 18TH STREET/I-10 EB ON-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | T 121500      |           | minorian     | * *      |         | RIGHT TURN |            |  |  |
|-----------------------------|---------------|-----------|--------------|----------|---------|------------|------------|--|--|
| MECUDOLIND                  | LEFT          |           | THROUGH<br>0 | MT       | O NO MI |            | IAX ON RED |  |  |
| WESTBOUND<br>EASTBOUND      | 0<br>542      |           | 58           |          | 22      |            | 0<br>0     |  |  |
|                             | _             |           |              |          | 21      |            |            |  |  |
| NORTHBOUND                  | 0<br>32       |           | 505          |          | 21      |            | 0<br>0     |  |  |
| SOUTHBOUND                  | 34            |           | 290          |          | U       | J          | U          |  |  |
|                             |               | **        | NUMBER       | OF LANES | 3 **    |            |            |  |  |
| APPROACH                    | LEFT          | LEFT      | THROUGH      | RIGHT    | RIGHT   | L/T/R      | TOTAL      |  |  |
|                             | ONLY          | SHARED    | ONLY         | SHARED   | ONLY    | SHARED     | LANES      |  |  |
| WESTBOUND                   | 0             | 0         | 0            | 0        | 0       | 0          | 0          |  |  |
| EASTBOUND                   | 1             | 0         | 1            | 1        | 0       | 0          | 3          |  |  |
| NORTHBOUND                  | 0             | 0         | 1            | 1        | 0       | 0          | 2          |  |  |
| SOUTHBOUND                  | 1             | 0         | 2            | 0        | 0       | 0          | 3          |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |           |              |          |         |            |            |  |  |
| APPROACH                    | LEFT          | LEF:      | r THRC       | UGH      | RIGHT   | RIGHT      | L/T/R      |  |  |
|                             | ONLY          | SHARI     | ED ON        | ILY S    | SHARED  | ONLY       | SHARED     |  |  |
| WESTBOUND                   | N/A           | N/A       | A N          | I/A      | N/A     | N/A        | N/A        |  |  |
| EASTBOUND                   | 542           | N/A       | Ą            | 40       | 40      | N/A        | N/A        |  |  |
| NORTHBOUND                  | N/A           | N/A       | A 2          | 63       | 263     | N/A        | N/A        |  |  |
| SOUTHBOUND                  | 32            | N/A       | A 1          | .45      | N/A     | N/A        | N/A        |  |  |
|                             |               |           |              |          |         |            |            |  |  |
|                             | EAST-WEST CR  | ITICAL VO | DLUMES       |          |         | 542        |            |  |  |
|                             | NORTH-SOUTH ( | CRITICAL  | VOLUMES      |          |         | 295        |            |  |  |
|                             | THE SUM OF C  | RITICAL V | OLUMES .     |          |         | 837        |            |  |  |
|                             | NUMBER OF CR  | ITICAL CI | LEARANCE     | INTERVAL |         | 2*         |            |  |  |
|                             | CMA VALUE     |           |              |          |         | 0.458      |            |  |  |
|                             | LEVEL OF SER  | VICE      |              |          |         | A          |            |  |  |

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:1, OLYMPIC BOULEVARD & HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |               |           |           | * *      | R       | IGHT TURN  | s **      |  |
|-----------------------------|---------------|-----------|-----------|----------|---------|------------|-----------|--|
|                             | LEFT          |           | THROUGH   | MI       | N ON GR | EEN M      | AX ON RED |  |
| WESTBOUND                   | 57            |           | 1305      |          | 139     |            | 0         |  |
| EASTBOUND                   | 9             |           | 1088      |          | 118     |            | 0         |  |
| NORTHBOUND                  |               |           | 196       |          | 28      |            | 0         |  |
| SOUTHBOUND                  | 44            |           | 854       |          | 148     |            | 4         |  |
|                             |               | **        | NUMBER    | OF LANES | **      |            |           |  |
| APPROACH                    | LEFT          | LEFT      | THROUGH   | RIGHT    | RIGHT   | L/T/R      | TOTAL     |  |
|                             | ONLY          | SHARED    | ONLY      | SHARED   | ONLY    | SHARED     | LANES     |  |
| WESTBOUND                   | 0             | 1         | 1         | 1        | 0       | 0          | 3         |  |
| EASTBOUND                   | 0             | 1         | 1         | 1        | 0       | 0          | 3         |  |
| NORTHBOUND                  | 1             | 0         | 1         | 1        | 0       | 0          | 3         |  |
| SOUTHBOUND                  | 1             | 0         | 2         | 0        | 1       | 0          | 4         |  |
| ** ASSIGNED LANE VOLUMES ** |               |           |           |          |         |            |           |  |
| APPROACH                    | LEFT          | LEF:      | r THRC    | UGH      | RIGHT   | RIGHT      | L/T/R     |  |
|                             | ONLY          | SHARI     | ED ON     | ILY S    | HARED   | ONLY       | SHARED    |  |
| WESTBOUND                   | N/A           | 310       | 0 5       | 95       | 595     | N/A        | N/A       |  |
| EASTBOUND                   | N/A           | 37!       | 5 4       | 20       | 420     | N/A        | N/A       |  |
| NORTHBOUND                  |               | N/Z       |           | 12       | 112     | N/A        | N/A       |  |
| SOUTHBOUND                  | 44            | N/Z       | A 4       | 27       | N/A     | 148        | N/A       |  |
|                             |               |           |           |          |         |            |           |  |
|                             | EAST-WEST CRI |           |           |          |         | 604<br>470 |           |  |
|                             | THE SUM OF CF | RITICAL V | VOLUMES . |          |         | 1074       |           |  |
|                             | NUMBER OF CRI | TICAL C   | LEARANCE  | INTERVAL | .S      | 2*         |           |  |
|                             | CMA VALUE     |           |           |          |         | 0.696      |           |  |
|                             | LEVEL OF SERV | 7ICE      |           |          |         | В          |           |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:2, OLYMPIC BOULEVARD & BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

|                             |   |   | * :  | *   | RIGHT TURN   | S **   |  |  |
|-----------------------------|---|---|--|---|--|--|--|--|
| LEFT                        |   | THROUGH   | M  | IN ON G   | REEN M   | AX ON RED  |  |  |
| 26                          |   | 1227  |  | 96  |  | 0  |  |  |
| 109                         |   | 969   |  | 36  |  | 0  |  |  |
| 121                         |   | 777   |  | 96  |  | 0  |  |  |
| 37                          |   | 770   |  | 111   |  | 0  |  |  |
|                             |   |   |  |   |  |  |  |  |
|                             | **  | NUMBER  | OF LANES   | S **  |  |  |  |  |
| LEFT                        | LEFT  | THROUGH   | RIGHT  | RIGHT   | L/T/R  | TOTAL  |  |  |
| ONLY                        | SHARED  | ONLY  | SHARED   | ONLY  | SHARED   | LANES  |  |  |
| 0                           | 1   | 1   | 1  | 0   | 0  | 3  |  |  |
| 0                           | 1   | 1   | 1  | 0   | 0  | 3  |  |  |
| 1                           | 0   | 1   | 1  | 0   | 0  | 3  |  |  |
| 1                           | 0   | 1   | 1  | 0   | 0  | 3  |  |  |
| ++ ACCIONED LANE MOLUMES ++ |   |   |  |   |  |  |  |  |
|                             | LOGA  | LGNED LAN   | ir vonom   | 10  |  |  |  |  |
| LEFT                        | LEFT  | THRC  | UGH  | RIGHT   | RIGHT  | L/T/R  |  |  |
| ONLY                        | SHARE   | ED ON   | ILY S  | SHARED  | ONLY   | SHARED   |  |  |
| N/A                         | 380   | ) 4   | 85   | 485   | N/A  | N/A  |  |  |
| 109                         | N/A   | 4 5   | 02   | 502   | N/A  | N/A  |  |  |
| 121                         | N/A   | 4   | :36  | 436   | N/A  | N/A  |  |  |
| 37                          | N/P   | A 4   | 40   | 440   | N/A  | N/A  |  |  |
|                             |   |   |  |   |  |  |  |  |
|                             |   |   |  |   |  |  |  |  |
| EAST-WEST CR                | ITICAL VO   | DLUMES  |  |   | 594  |  |  |  |
| NORTH-SOUTH (               | CRITICAL  | VOLUMES   |  |   |  |  |  |  |
| THE SUM OF C                | RITICAL V   | OLUMES .  |  |   |  |  |  |  |
|                             | -   |   |  |   | -  |  |  |  |
| NUMBER OF CR                | ITICAL CI   | LEARANCE  | INTERVA  | LS  | 2*   |  |  |  |
| CMA VALUE                   |   |   |  |   | 0.756  |  |  |  |
|                             | 26 109 121 37  LEFT ONLY 0 0 1 1 1  LEFT ONLY N/A 109 121 37  EAST-WEST CR: NORTH-SOUTH C | 26 109 121 37  **  LEFT LEFT ONLY SHARED 0 1 0 1 1 0 1 0  ** ASSI  LEFT LEFT ONLY SHARE N/A 380 109 N/A 121 N/A 37 N/A  EAST-WEST CRITICAL VO NORTH-SOUTH CRITICAL VO NUMBER OF CRITICAL CI | 26 1227 109 969 121 777 37 770  ** NUMBER  LEFT LEFT THROUGH ONLY SHARED ONLY 0 1 1 0 1 1 1 0 1 1 0 1 1 0 1  ** ASSIGNED LAN  LEFT LEFT THRO ONLY SHARED ON N/A 380 4 109 N/A 5 121 N/A 4 37 N/A 4  EAST-WEST CRITICAL VOLUMES . NORTH-SOUTH CRITICAL VOLUMES . NUMBER OF CRITICAL CLEARANCE | LEFT THROUGH ME  26 1227  109 969  121 777  37 770   ** NUMBER OF LANES  LEFT LEFT THROUGH RIGHT  ONLY SHARED ONLY SHARED  0 1 1 1 1  1 0 1 1  1 0 1 1  1 0 1 1  1 0 1 1  ** ASSIGNED LANE VOLUME  LEFT LEFT THROUGH  ONLY SHARED ONLY SHARED  N/A 380 485  109 N/A 502  121 N/A 436  37 N/A 440   EAST-WEST CRITICAL VOLUMES  NUMBER OF CRITICAL VOLUMES  NUMBER OF CRITICAL VOLUMES | LEFT THROUGH MIN ON COMPANY OF STATE OF LANES TO STATE OF LANE O | LEFT THROUGH MIN ON GREEN M  26 1227 96  109 969 36  121 777 96  37 770 111   ** NUMBER OF LANES **  LEFT LEFT THROUGH RIGHT RIGHT L/T/R  ONLY SHARED ONLY SHARED ONLY SHARED  0 1 1 1 1 0 0 0  1 0 1 1 1 0 0 0  1 0 1 1 1 0 0 0  1 0 1 1 1 0 0 0  1 0 1 1 1 0 0 0  ** ASSIGNED LANE VOLUMES **  LEFT LEFT THROUGH RIGHT RIGHT RIGHT  ONLY SHARED ONLY SHARED ONLY SHARED  N/A 380 485 485 N/A  109 N/A 380 485 485 N/A  109 N/A 502 502 N/A  121 N/A 436 436 N/A  37 N/A 440 440 N/A  EAST-WEST CRITICAL VOLUMES 594  NORTH-SOUTH CRITICAL VOLUMES 594  NOMBER OF CRITICAL VOLUMES 594  NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |  |  |

<sup>-----</sup>

LEVEL OF SERVICE .....

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 3, US-110 SB OFF-RAMP AND BLAINE STREET/CONNECTICUT STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | म् स्टब्स     |          | TUDOUGU      | * *      | I.             | RIGHT TURN |                  |  |
|-----------------------------|---------------|----------|--------------|----------|----------------|------------|------------------|--|
| WESTBOUND                   | LEFT<br>221   |          | THROUGH<br>0 | IVI      | IN ON GR<br>89 | EEEN M     | AX ON RED<br>140 |  |
| EASTBOUND                   | 0             |          | 0            |          | 32             |            | 0                |  |
| NORTHBOUND                  | 0             |          | 0            |          | 0              |            | 0                |  |
| SOUTHBOUND                  | 0             |          | 523          |          | 37             |            | 0                |  |
|                             |               |          |              |          |                |            |                  |  |
|                             |               | * *      | NUMBER       | OF LANES | 5 **           |            |                  |  |
| APPROACH                    | LEFT          | LEFT     | THROUGH      | RIGHT    | RIGHT          | L/T/R      | TOTAL            |  |
|                             | ONLY          | SHARED   | ONLY         | SHARED   | ONLY           | SHARED     | LANES            |  |
| WESTBOUND                   | 0             | 1        | 0            | 0        | 2              | 0          | 3                |  |
| EASTBOUND                   | 0             | 0        | 0            | 0        | 1              | 0          | 1                |  |
| NORTHBOUND                  |               | 0        | 0            | 0        | 0              | 0          | 0                |  |
| SOUTHBOUND                  | 0             | 0        | 1            | 1        | 0              | 0          | 2                |  |
| ** ASSIGNED LANE VOLUMES ** |               |          |              |          |                |            |                  |  |
| APPROACH                    | LEFT          | LEF:     | Г THRO       | UGH      | RIGHT          | RIGHT      | L/T/R            |  |
|                             | ONLY          | SHARI    | ED ON        | LY S     | SHARED         | ONLY       | SHARED           |  |
| WESTBOUND                   | N/A           | 22       | 1 N          | T/A      | N/A            | 44         | N/A              |  |
| EASTBOUND                   | N/A           | N/Z      | A N          | T/A      | N/A            | 32         | N/A              |  |
| NORTHBOUND                  | N/A           | N/I      | A N          | /A       | N/A            | N/A        | N/A              |  |
| SOUTHBOUND                  | N/A           | N/Z      | A 2          | 80       | 280            | N/A        | N/A              |  |
|                             |               |          |              |          |                |            |                  |  |
|                             | EAST-WEST CRI |          |              |          |                | 253<br>280 |                  |  |
|                             | NORTH-SOUTH C | KIIICAL  | VOLUMES      |          |                | 200        |                  |  |
|                             | THE SUM OF CR | ITICAL V | VOLUMES .    |          |                | 533        |                  |  |
|                             | NUMBER OF CRI | TICAL C  | LEARANCE     | INTERVAI | IS             | 3*         |                  |  |
|                             | CMA VALUE     |          |              |          |                | 0.299      |                  |  |
|                             | LEVEL OF SERV | ICE      |              |          |                | A          |                  |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION: 4, 11TH STREET AND BLAINE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                               |               |           |                | **       | 1       | RIGHT TURN | -              |  |  |
|--|---------------|-----------|----------------|----------|---------|------------|----------------|--|--|
| MECHDOIND                              | LEFT          |           | THROUGH<br>366 | MΙ       | n on gi | REEN M     | AX ON RED<br>0 |  |  |
| WESTBOUND<br>EASTBOUND                 | 489<br>0      |           | 300<br>85      |          | 301     |            | 0              |  |  |
| NORTHBOUND                             |               |           | 0              |          | 301     |            | 0              |  |  |
| SOUTHBOUND                             |               |           | 535            |          | 44      |            | 0              |  |  |
| BOOTHBOOND                             | 177           |           | 333            |          | - 1 1   |            | O              |  |  |
|  |               | **        | NUMBER         | OF LANES | **      |            |                |  |  |
| APPROACH                               | LEFT          | LEFT      | THROUGH        | RIGHT    | RIGHT   | L/T/R      | TOTAL          |  |  |
|  | ONLY          | SHARED    | ONLY           | SHARED   | ONLY    | SHARED     | LANES          |  |  |
| WESTBOUND                              | 0             | 1         | 1              | 0        | 0       | 0          | 2              |  |  |
| EASTBOUND                              | 0             | 0         | 1              | 0        | 1       | 0          | 2              |  |  |
| NORTHBOUND                             |               | 0         | 0              | 0        | 0       | 0          | 0              |  |  |
| SOUTHBOUND                             | 1             | 1         | 0              | 1        | 0       | 0          | 3              |  |  |
| ** ASSIGNED LANE VOLUMES **            |               |           |                |          |         |            |                |  |  |
| APPROACH                               | LEFT          | LEF:      | r THRC         | UGH      | RIGHT   | RIGHT      | L/T/R          |  |  |
|  | ONLY          | SHARI     | ED ON          | ILY S    | HARED   | ONLY       | SHARED         |  |  |
| WESTBOUND                              | 489           | N/Z       | A 3            | 666      | N/A     | N/A        | N/A            |  |  |
| EASTBOUND                              | N/A           | N/I       | A              | 85       | N/A     | 301        | N/A            |  |  |
| NORTHBOUND                             | ,             | N/I       |                | I/A      | N/A     | N/A        | N/A            |  |  |
| SOUTHBOUND                             | 177           | N/Z       | A 2            | 190      | 290     | N/A        | N/A            |  |  |
|  |               |           |                |          |         |            |                |  |  |
|  | EAST-WEST CRI | TICAL VO  | OLUMES         |          |         | 790        |                |  |  |
|  | NORTH-SOUTH C | RITICAL   | VOLUMES        |          |         | 290<br>    |                |  |  |
|  | THE SUM OF CR | RITICAL V | VOLUMES .      |          |         | 1080       |                |  |  |
| NUMBER OF CRITICAL CLEARANCE INTERVALS |               |           |                |          |         | 3*         |                |  |  |
|  | CMA VALUE     |           |                |          |         | 0.700      |                |  |  |
|  | LEVEL OF SERV | 'ICE      |                |          |         | В          |                |  |  |

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation. Eastbound and Westbound approaches have opposed signal phases.

INTERSECTION:5, 11TH STREET/CHICK HEARN COURT AND CHERRY STREET/US-110 NB ON-RAMP

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |              |           |              | *        | *        | RIGHT TUR | NS **      |
|-----------------------------|--------------|-----------|--------------|----------|----------|-----------|------------|
|                             | LEFT         |           | THROUGH      | M        | IIN ON G | REEN      | MAX ON RED |
| WESTBOUND                   | 26           |           | 1024         |          | 563      |           | 0          |
| EASTBOUND                   | 46           |           | 203          |          | 6        |           | 0          |
| NORTHBOUND                  | 235          |           | 399          |          | 50       |           | 200        |
| SOUTHBOUND                  | 0            |           | 0            |          | 0        |           | 0          |
|                             |              |           |              |          |          |           |            |
|                             |              | **        | NUMBER       | OF LANE  | IS **    |           |            |
| APPROACH                    | LEFT         | LEFT      | THROUGH      | RIGHT    | RIGHT    | L/T/F     | TOTAL      |
|                             | ONLY         | SHARED    | ONLY         | SHARED   | ONLY     | SHARED    | LANES      |
| WESTBOUND                   | 1            | 0         | 2            | 0        | 1        | 0         | 4          |
| EASTBOUND                   | 0            | 1         | 0            | 1        | 0        | 0         | 2          |
| NORTHBOUND                  | 1            | 0         | 1            | 0        | 2        | 0         | 4          |
| SOUTHBOUND                  | 0            | 0         | 0            | 0        | 0        | 0         | 0          |
|                             |              |           |              |          |          |           |            |
|                             |              | ** ASS    | IGNED LAI    | NE VOLUM | IES **   |           |            |
| APPROACH                    | LEFT         | LEF'      | THRO         | OUGH     | RIGHT    | RIGHT     | L/T/R      |
|                             | ONLY         | SHAR      | ED OI        | 1LA      | SHARED   | ONLY      | SHARED     |
| WESTBOUND                   | 26           | N/Z       | A !          | 512      | N/A      | 563       | N/A        |
| EASTBOUND                   | 46           | N/Z       | 1 A          | I/A      | 209      | N/A       | N/A        |
| NORTHBOUND                  | 235          | N/Z       | Α :          | 399      | N/A      | 25        | N/A        |
| SOUTHBOUND                  | N/A          | N/Z       | 1 A          | 1/A      | N/A      | N/A       | N/A        |
|                             |              |           |              |          |          |           |            |
|                             |              |           |              |          |          |           |            |
|                             | EAST-WEST CF | RITICAL V | OLUMES .     |          |          | 609       |            |
|                             | NORTH-SOUTH  | CRITICAL  | VOLUMES      |          |          | 399       |            |
| THE SUM OF CRITICAL VOLUMES |              |           |              |          |          | 1008      |            |
|                             |              |           | - · <b>-</b> |          |          |           |            |
|                             | 2*           |           |              |          |          |           |            |

Capacity used = 1350.

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CMA VALUE ..... 0.647

LEVEL OF SERVICE .....

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:6, 11TH STREET AND OLIVE AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |               |           |              | * *      | k R      | IGHT TURNS | s **      |  |
|-----------------------------|---------------|-----------|--------------|----------|----------|------------|-----------|--|
|                             | LEFT          |           | THROUGH      | M        | IN ON GR | EEN M      | AX ON RED |  |
| WESTBOUND                   | 0             |           | 682          |          | 94       |            | 0         |  |
| EASTBOUND                   | 0             |           | 0            |          | 0        |            | 0         |  |
| NORTHBOUND                  | 162           |           | 1051         |          | 0        |            | 0         |  |
| SOUTHBOUND                  | 0             |           | 0            |          | 0        |            | 0         |  |
|                             |               | **        | NUMBER       | OF LANES | 5 **     |            |           |  |
| APPROACH                    | LEFT          | LEFT      | THROUGH      | RIGHT    | RIGHT    | L/T/R      | TOTAL     |  |
|                             | ONLY          | SHARED    | ONLY         | SHARED   | ONLY     | SHARED     | LANES     |  |
| WESTBOUND                   | 0             | 0         | 2            | 0        | 1        | 0          | 3         |  |
| EASTBOUND                   | 0             | 0         | 0            | 0        | 0        | 0          | 0         |  |
| NORTHBOUND                  | 0             | 1         | 3            | 0        | 0        | 0          | 4         |  |
| SOUTHBOUND                  | 0             | 0         | 0            | 0        | 0        | 0          | 0         |  |
| ** ASSIGNED LANE VOLUMES ** |               |           |              |          |          |            |           |  |
| APPROACH                    | LEFT          | LEF'      | r THRC       | UGH      | RIGHT    | RIGHT      | L/T/R     |  |
|                             | ONLY          | SHAR      | ED ON        | ILY S    | SHARED   | ONLY       | SHARED    |  |
| WESTBOUND                   | N/A           | N/I       | A 3          | 41       | N/A      | 94         | N/A       |  |
| EASTBOUND                   | N/A           | N/2       | $A \qquad A$ | I/A      | N/A      | N/A        | N/A       |  |
| NORTHBOUND                  | N/A           | 30:       | 3 3          | 03       | N/A      | N/A        | N/A       |  |
| SOUTHBOUND                  | N/A           | N/        | A N          | I/A      | N/A      | N/A        | N/A       |  |
|                             |               |           |              |          |          |            |           |  |
|                             | EAST-WEST CRI |           |              |          |          | 341<br>303 |           |  |
|                             | THE SUM OF C  | RITICAL ' | VOLUMES .    |          |          | 644        |           |  |
|                             | NUMBER OF CR  | ITICAL C  | LEARANCE     | INTERVAI | LS       | 2*         |           |  |
|                             | CMA VALUE     | CMA VALUE |              |          |          |            |           |  |
|                             | LEVEL OF SERV | JICE      |              |          |          | A          |           |  |

<sup>-----</sup>

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 7, 11TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |               |           |           | *       | *       | RIGHT TURN     | S **      |  |
|-----------------------------|---------------|-----------|-----------|---------|---------|----------------|-----------|--|
|                             | LEFT          |           | THROUGH   | M       | IN ON G | REEN M         | AX ON RED |  |
| WESTBOUND                   | 109           |           | 630       |         | 170     |                | 0         |  |
| EASTBOUND                   | 0             |           | 0         |         | 0       |                | 0         |  |
| NORTHBOUND                  | _             |           | 145       |         | 0       |                | 0         |  |
| SOUTHBOUND                  | 0             |           | 806       |         | 120     |                | 0         |  |
|                             |               | **        | NUMBER    | OF LANE | S **    |                |           |  |
| APPROACH                    | LEFT          | LEFT      | THROUGH   | RIGHT   | RIGHT   | L/T/R          | TOTAL     |  |
|                             | ONLY          | SHARED    | ONLY      | SHARED  | ONLY    | SHARED         | LANES     |  |
| WESTBOUND                   | 1             | 0         | 1         | 1       | 0       | 0              | 3         |  |
| EASTBOUND                   | 0             | 0         | 0         | 0       | 0       | 0              | 0         |  |
| NORTHBOUND                  | 1             | 0         | 2         | 0       | 0       | 0              | 3         |  |
| SOUTHBOUND                  | 0             | 0         | 1         | 1       | 0       | 0              | 2         |  |
| ** ASSIGNED LANE VOLUMES ** |               |           |           |         |         |                |           |  |
| APPROACH                    | LEFT          | LEF'      | r THRO    | OUGH    | RIGHT   | RIGHT          | L/T/R     |  |
|                             | ONLY          | SHARI     | ED ON     | ILY :   | SHARED  | ONLY           | SHARED    |  |
| WESTBOUND                   | 109           | N/Z       | A 4       | 100     | 400     | N/A            | N/A       |  |
| EASTBOUND                   | N/A           | N/I       | A P       | I/A     | N/A     | N/A            | N/A       |  |
| NORTHBOUND                  | 5             | N/I       | A         | 72      | N/A     | N/A            | N/A       |  |
| SOUTHBOUND                  | N/A           | N/Z       | A 4       | 163     | 463     | N/A            | N/A       |  |
|                             |               |           |           |         |         |                |           |  |
|                             | EAST-WEST CRI |           |           |         |         | 400<br>468<br> |           |  |
|                             | THE SUM OF CF | RITICAL V | VOLUMES . |         |         | 868            |           |  |
|                             | NUMBER OF CRI | TICAL C   | LEARANCE  | INTERVA | LS      | 2*             |           |  |
|                             | CMA VALUE     |           |           |         |         | 0.543          |           |  |
|                             | LEVEL OF SERV | 7ICE      |           |         |         | A              |           |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:8, 11TH STREET AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | T 17.70       |           | milbolidii  | k *      | 1/             | IGHT TURN  | _              |  |
|-----------------------------|---------------|-----------|-------------|----------|----------------|------------|----------------|--|
| WESTBOUND                   | LEFT<br>89    |           | THROUGH 636 | MT       | IN ON GR<br>76 | EEN M      | AX ON RED<br>0 |  |
| EASTBOUND                   | 0             |           | 0           |          | 0              |            | 0              |  |
| NORTHBOUND                  | •             |           | 933         |          | 0              |            | 0              |  |
| SOUTHBOUND                  |               |           | 789         |          | 82             |            | 0              |  |
|                             |               |           |             |          |                |            |                |  |
|                             |               | * *       | NUMBER      | OF LANES | 3 **           |            |                |  |
| APPROACH                    | LEFT          | LEFT      | THROUGH     | RIGHT    | RIGHT          | L/T/R      | TOTAL          |  |
|                             | ONLY          | SHARED    | ONLY        | SHARED   | ONLY           | SHARED     | LANES          |  |
| WESTBOUND                   | 0             | 1         | 1           | 1        | 0              | 0          | 3              |  |
| EASTBOUND                   | 0             | 0         | 0           | 0        | 0              | 0          | 0              |  |
| NORTHBOUND                  |               | 0         | 2           | 0        | 0              | 0          | 3              |  |
| SOUTHBOUND                  | 0             | 0         | 1           | 1        | 0              | 0          | 2              |  |
| ** ASSIGNED LANE VOLUMES ** |               |           |             |          |                |            |                |  |
| APPROACH                    | LEFT          | LEFT      | THRO        | UGH      | RIGHT          | RIGHT      | L/T/R          |  |
|                             | ONLY          | SHARE     | _           |          | SHARED         | ONLY       | SHARED         |  |
| WESTBOUND                   | N/A           | 267       |             | 67       | 267            | N/A        | N/A            |  |
| EASTBOUND                   | N/A           | N/A       |             | /A       | N/A            | N/A        | N/A            |  |
| NORTHBOUND                  |               | N/A       |             | 66       | N/A            | N/A        | N/A            |  |
| SOUTHBOUND                  | N/A           | N/A       | A 4         | 36       | 436            | N/A        | N/A            |  |
|                             |               |           |             |          |                |            |                |  |
|                             | EAST-WEST CRI |           |             |          |                | 267<br>640 |                |  |
|                             | THE SUM OF C  | RITICAL V | OLUMES .    |          |                | 907        |                |  |
|                             | NUMBER OF CR  | ITICAL CI | LEARANCE    | INTERVAI | LS             | 2*         |                |  |
|                             | CMA VALUE     |           |             |          |                | 0.572      |                |  |
|                             |               |           |             |          |                | _          |                |  |

<sup>-----</sup>

LEVEL OF SERVICE .....

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:9, 11TH STREET AND MAIN STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |              |           |           | * *             | R         | IGHT TURNS | s **      |  |  |
|-----------------------------|--------------|-----------|-----------|-----------------|-----------|------------|-----------|--|--|
|                             | LEFT         |           | THROUGH   | MI              | N ON GR   | EEN M      | AX ON RED |  |  |
| WESTBOUND                   | 132          |           | 498       |                 | 124       |            | 0         |  |  |
| EASTBOUND                   | 0            |           | 0         |                 | 0         |            | 0         |  |  |
| NORTHBOUND                  | 101          |           | 1094      |                 | 0         |            | 0         |  |  |
| SOUTHBOUND                  | 0            |           | 1012      |                 | 217       |            | 0         |  |  |
|                             |              | **        | NUMBER    | OF LANES        | **        |            |           |  |  |
| APPROACH                    | LEFT         | LEFT      | THROUGH   | RIGHT           | RIGHT     | L/T/R      | TOTAL     |  |  |
|                             | ONLY         | SHARED    | ONLY      | SHARED          | ONLY      | SHARED     | LANES     |  |  |
| WESTBOUND                   | 0            | 1         | 0         | 1               | 0         | 0          | 2         |  |  |
| EASTBOUND                   | 0            | 0         | 0         | 0               | 0         | 0          | 0         |  |  |
| NORTHBOUND                  | 1            | 0         | 2         | 0               | 0         | 0          | 3         |  |  |
| SOUTHBOUND                  | 0            | 0         | 1         | 1               | 0         | 0          | 2         |  |  |
| ** ASSIGNED LANE VOLUMES ** |              |           |           |                 |           |            |           |  |  |
| APPROACH                    | LEFT         | LEF:      | r THRC    | UGH             | RIGHT     | RIGHT      | L/T/R     |  |  |
|                             | ONLY         | SHARI     | ED ON     | ILY S           | HARED     | ONLY       | SHARED    |  |  |
| WESTBOUND                   | N/A          | 37        | 7 N       | I/A             | 377       | N/A        | N/A       |  |  |
| EASTBOUND                   | N/A          | N/Z       | A N       | I/A             | N/A       | N/A        | N/A       |  |  |
| NORTHBOUND                  | 101          | N/Z       | A 5       | 647             | N/A       | N/A        | N/A       |  |  |
| SOUTHBOUND                  | N/A          | N/Z       | A 6       | 514             | 614       | N/A        | N/A       |  |  |
|                             | EAST-WEST CR |           |           |                 |           | 377        |           |  |  |
|                             | NORTH-SOUTH  | CRITICAL  | VOLUMES   | • • • • • • • • | • • • • • | 715        |           |  |  |
|                             | THE SUM OF C | RITICAL V | VOLUMES . |                 |           | 1092       |           |  |  |
|                             | NUMBER OF CR | ITICAL C  | LEARANCE  | INTERVAL        | S         | 2*         |           |  |  |
|                             | CMA VALUE    |           |           |                 |           | 0.709      |           |  |  |
|                             | LEVEL OF SER | VICE      |           |                 |           | С          |           |  |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:10, 12TH STREET AND OLIVE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |               |         |           | * *      | R       | IGHT TURNS | s **      |  |
|-----------------------------|---------------|---------|-----------|----------|---------|------------|-----------|--|
|                             | LEFT          |         | THROUGH   | MI       | N ON GR | EEN M      | AX ON RED |  |
| WESTBOUND                   | 0             |         | 0         |          | 0       |            | 0         |  |
| EASTBOUND                   | 70            |         | 199       |          | 0       |            | 0         |  |
| NORTHBOUND                  |               |         | 1089      |          | 39      |            | 0         |  |
| SOUTHBOUND                  | 0             |         | 0         |          | 0       |            | 0         |  |
|                             |               | **      | NUMBER    | OF LANES | 3 **    |            |           |  |
| APPROACH                    | LEFT          | LEFT    | THROUGH   | RIGHT    | RIGHT   | L/T/R      | TOTAL     |  |
|                             | ONLY          | SHARED  | ONLY      | SHARED   | ONLY    | SHARED     | LANES     |  |
| WESTBOUND                   | 0             | 0       | 0         | 0        | 0       | 0          | 0         |  |
| EASTBOUND                   | 0             | 1       | 0         | 1        | 0       | 0          | 2         |  |
| NORTHBOUND                  | 0             | 0       | 3         | 1        | 0       | 0          | 4         |  |
| SOUTHBOUND                  | 0             | 0       | 0         | 0        | 0       | 0          | 0         |  |
| ** ASSIGNED LANE VOLUMES ** |               |         |           |          |         |            |           |  |
| APPROACH                    | LEFT          | LEF'    | r THRO    | UGH      | RIGHT   | RIGHT      | L/T/R     |  |
|                             | ONLY          | SHAR    | ED ON     | LY S     | SHARED  | ONLY       | SHARED    |  |
| WESTBOUND                   | N/A           | N/I     | A N       | /A       | N/A     | N/A        | N/A       |  |
| EASTBOUND                   | N/A           | 13      |           | /A       | 134     | N/A        | N/A       |  |
| NORTHBOUND                  | •             | N/I     |           | 82       | 282     | N/A        | N/A       |  |
| SOUTHBOUND                  | N/A           | N/I     | A N       | /A       | N/A     | N/A        | N/A       |  |
|                             |               |         |           |          |         |            |           |  |
|                             | EAST-WEST CRI |         |           |          |         | 134<br>282 |           |  |
|                             | THE SUM OF CF | RITICAL | VOLUMES . |          |         | 416        |           |  |
|                             | NUMBER OF CRI | TICAL C | LEARANCE  | INTERVAL | .S      | 2*         |           |  |
|                             | CMA VALUE     |         |           |          |         | 0.247      |           |  |
|                             | LEVEL OF SERV | 7ICE    |           |          |         | А          |           |  |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:11, 12TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |   |           |                             | * *      | IX.     | IGHT TURNS                 |           |
|------------|---|-----------|-----------------------------|----------|---------|----------------------------|-----------|
|            | LEFT  |           | THROUGH                     | MI       | N ON GR | EEN M                      | AX ON RED |
| WESTBOUND  | 0   |           | 0                           |          | 0       |                            | 0         |
| EASTBOUND  | 0   |           | 143                         |          | 55      |                            | 0         |
| NORTHBOUND |   |           | 134                         |          | 232     |                            | 0         |
| SOUTHBOUND | 99  |           | 830                         |          | 0       |                            | 0         |
|            |   | **        | NUMBER                      | OF LANES | 3 **    |                            |           |
| APPROACH   | LEFT  | LEFT      | THROUGH                     | RIGHT    | RIGHT   | L/T/R                      | TOTAL     |
|            | ONLY  | SHARED    | ONLY                        | SHARED   | ONLY    | SHARED                     | LANES     |
| WESTBOUND  | 0   | 0         | 0                           | 0        | 0       | 0                          | 0         |
| EASTBOUND  | 0   | 0         | 1                           | 1        | 0       | 0                          | 2         |
| NORTHBOUND | 0   | 0         | 1                           | 0        | 1       | 0                          | 2         |
| SOUTHBOUND | 1   | 0         | 2                           | 0        | 0       | 0                          | 3         |
|            |   | ** ASSI   | GNED LAN                    | E VOLUME | IS **   |                            |           |
| APPROACH   | LEFT  | LEFT      | THRO                        | UGH      | RIGHT   | RIGHT                      | L/T/R     |
|            | ONLY  | SHARE     | ED ON                       | LY S     | SHARED  | ONLY                       | SHARED    |
| WESTBOUND  | N/A   | N/A       | A N                         | /A       | N/A     | N/A                        | N/A       |
| EASTBOUND  | N/A   | N/A       | A                           | 99       | 99      | N/A                        | N/A       |
| NORTHBOUND | N/A   | N/A       | 1                           | 34       | N/A     | 232                        | N/A       |
| SOUTHBOUND | 99  | N/P       | 4                           | 15       | N/A     | N/A                        | N/A       |
|            | EAST-WEST CRI<br>NORTH-SOUTH C<br>THE SUM OF CR | RITICAL V | VOLUMES  OLUMES .  LEARANCE | INTERVAL | <br>    | 99<br>415<br><br>514<br>2* |           |
|            | CMA VALUE                                       |           |                             |          |         | 0.305                      |           |

<sup>-----</sup>

LEVEL OF SERVICE .....

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:12, 12TH STREET AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH               |               |           | mun outdu    | **       | 10        | IGHT TURN | _              |
|------------------------|---------------|-----------|--------------|----------|-----------|-----------|----------------|
| MECEDOIND              | LEFT<br>0     |           | THROUGH<br>0 | M⊥       | N ON GR   | EEN MA    | AX ON RED<br>0 |
| WESTBOUND<br>EASTBOUND | 153           |           | 284          |          | 69        |           | 0              |
| NORTHBOUND             |               |           | 985          |          | 43        |           | 0              |
| SOUTHBOUND             |               |           | 798          |          | 0         |           | 0              |
| SOUTHBOOKD             | 21            |           | 750          |          | U         |           | O              |
|                        |               | **        | NUMBER       | OF LANES | **        |           |                |
| APPROACH               | LEFT          | LEFT      | THROUGH      | RIGHT    | RIGHT     | L/T/R     | TOTAL          |
|                        | ONLY          | SHARED    | ONLY         | SHARED   | ONLY      | SHARED    | LANES          |
| WESTBOUND              | 0             | 0         | 0            | 0        | 0         | 0         | 0              |
| EASTBOUND              | 0             | 1         | 0            | 1        | 0         | 0         | 2              |
| NORTHBOUND             |               | 0         | 1            | 1        | 0         | 0         | 2              |
| SOUTHBOUND             | 1             | 0         | 2            | 0        | 0         | 0         | 3              |
|                        |               | ** ASSI   | IGNED LAN    | E VOLUME | S **      |           |                |
| APPROACH               | LEFT          | LEFT      | THRO         | UGH      | RIGHT     | RIGHT     | L/T/R          |
|                        | ONLY          | SHARE     | ED ON        | LY S     | HARED     | ONLY      | SHARED         |
| WESTBOUND              | N/A           | N/P       | A N          | /A       | N/A       | N/A       | N/A            |
| EASTBOUND              | N/A           | 253       | 3 N          | /A       | 253       | N/A       | N/A            |
| NORTHBOUND             | N/A           | N/P       | A 5          | 14       | 514       | N/A       | N/A            |
| SOUTHBOUND             | 24            | N/P       | 4 3          | 99       | N/A       | N/A       | N/A            |
|                        |               |           |              |          |           |           |                |
|                        | EAST-WEST CRI | TICAL VO  | DLUMES       |          |           | 253       |                |
|                        | NORTH-SOUTH ( | CRITICAL  | VOLUMES      |          | • • • • • | 538<br>   |                |
|                        | THE SUM OF CF | RITICAL V | OLUMES .     |          |           | 791       |                |
|                        | NUMBER OF CRI | TICAL CI  | LEARANCE     | INTERVAL | S         | 2*        |                |
|                        | CMA VALUE     |           |              |          |           | 0.486     |                |
|                        | LEVEL OF SERV | 7ICE      |              |          |           | А         |                |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:13, 12TH STREET AND MAIN STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |   |          |           | * *      | · F         | RIGHT TURN | S **      |  |  |
|------------|---|----------|-----------|----------|-------------|------------|-----------|--|--|
|            | LEFT                                      |          | THROUGH   | M        | IN ON GE    | REEN M     | AX ON RED |  |  |
| WESTBOUND  | 0   |          | 0         |          | 0           |            | 0         |  |  |
| EASTBOUND  | 95  |          | 223       |          | 62          |            | 0         |  |  |
| NORTHBOUND |   |          | 1094      |          | 82          |            | 0         |  |  |
| SOUTHBOUND | 70  |          | 1023      |          | 0           |            | 0         |  |  |
|            | ** NUMBER OF LANES **                     |          |           |          |             |            |           |  |  |
| APPROACH   | LEFT                                      | LEFT     | THROUGH   | RIGHT    | RIGHT       | L/T/R      | TOTAL     |  |  |
|            | ONLY                                      | SHARED   | ONLY      | SHARED   | ONLY        | SHARED     | LANES     |  |  |
| WESTBOUND  | 0   | 0        | 0         | 0        | 0           | 0          | 0         |  |  |
| EASTBOUND  | 0   | 1        | 1         | 1        | 0           | 0          | 3         |  |  |
| NORTHBOUND | 0   | 0        | 1         | 1        | 0           | 0          | 2         |  |  |
| SOUTHBOUND | 1   | 0        | 2         | 0        | 0           | 0          | 3         |  |  |
|            |   | ** ASS   | IGNED LAN | E VOLUME | ES **       |            |           |  |  |
| APPROACH   | LEFT                                      | LEF:     | r THRC    | UGH      | RIGHT       | RIGHT      | L/T/R     |  |  |
|            | ONLY                                      | SHARI    | ED ON     | ILY S    | SHARED      | ONLY       | SHARED    |  |  |
| WESTBOUND  | N/A                                       | N/Z      | N A       | I/A      | N/A         | N/A        | N/A       |  |  |
| EASTBOUND  | N/A                                       | 12       | 7 1       | .27      | 127         | N/A        | N/A       |  |  |
| NORTHBOUND | · · · · · · · · · · · · · · · · · · ·     | N/I      | A 5       | 88       | 588         | N/A        | N/A       |  |  |
| SOUTHBOUND | 70  | N/Z      | A 5       | 12       | N/A         | N/A        | N/A       |  |  |
|            |   |          |           |          |             |            |           |  |  |
|            | EAST-WEST CRI                             | TICAL VO | OLUMES    |          | . <b></b> . | 127        |           |  |  |
|            | NORTH-SOUTH C                             | RITICAL  | VOLUMES   |          |             | 658<br>    |           |  |  |
|            | THE SUM OF CRITICAL VOLUMES 785           |          |           |          |             |            |           |  |  |
|            | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |          |           |          |             |            |           |  |  |
|            | CMA VALUE                                 |          |           |          |             | 0.481      |           |  |  |
|            | LEVEL OF SERV                             | ICE      |           |          |             | А          |           |  |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:14, 12TH STREET AND LOS ANGELES STREET DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                |               |           |            | * *      | R        | IGHT TURN | s **      |
|-------------------------|---------------|-----------|------------|----------|----------|-----------|-----------|
|                         | LEFT          |           | THROUGH    | MI       | N ON GR  | EEN M     | AX ON RED |
| WESTBOUND               | 0<br>67       |           | 0<br>215   |          | 0        |           | 0         |
| EASTBOUND<br>NORTHBOUND |               |           | 215<br>588 |          | 82<br>86 |           | 0<br>0    |
| SOUTHBOUND              |               |           | 588<br>650 |          | 0        |           | 0         |
| SOUTHBOOKD              | 117           |           | 050        |          | O        |           | O         |
|                         |               | **        | NUMBER     | OF LANES | **       |           |           |
| APPROACH                | LEFT          | LEFT      | THROUGH    | RIGHT    | RIGHT    | L/T/R     | TOTAL     |
|                         | ONLY          | SHARED    | ONLY       | SHARED   | ONLY     | SHARED    | LANES     |
| WESTBOUND               | 0             | 0         | 0          | 0        | 0        | 0         | 0         |
| EASTBOUND               | 0             | 1         | 2          | 1        | 0        | 0         | 4         |
| NORTHBOUND              |               | 0         | 1          | 1        | 0        | 0         | 2         |
| SOUTHBOUND              | 0             | 1         | 1          | 0        | 0        | 0         | 2         |
|                         |               | ** ASSI   | IGNED LAN  | E VOLUME | S **     |           |           |
| APPROACH                | LEFT          | LEFT      | THRC       | UGH      | RIGHT    | RIGHT     | L/T/R     |
|                         | ONLY          | SHARI     | ED ON      | ILY S    | HARED    | ONLY      | SHARED    |
| WESTBOUND               | N/A           | N/A       | A N        | I/A      | N/A      | N/A       | N/A       |
| EASTBOUND               | N/A           | 91        |            | 91       | 91       | N/A       | N/A       |
| NORTHBOUND              | ,             | N/I       | _          | 37       | 337      | N/A       | N/A       |
| SOUTHBOUND              | N/A           | 245       | 5 5        | 22       | N/A      | N/A       | N/A       |
|                         |               |           |            |          |          |           |           |
|                         | EAST-WEST CRI |           |            |          |          | 91<br>522 |           |
|                         | THE SUM OF CR | RITICAL V | OLUMES .   |          |          | 613       |           |
|                         | NUMBER OF CRI | TICAL CI  | LEARANCE   | INTERVAL | S        | 2*        |           |
|                         | CMA VALUE     |           |            |          |          | 0.363     |           |
|                         | LEVEL OF SERV | CE        |            |          |          | A         |           |

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:15, PICO BOULEVARD AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |                                 |         |           | * *       | · I    | RIGHT TURN | S **      |  |
|------------|---------------------------------|---------|-----------|-----------|--------|------------|-----------|--|
|            | LEFT                            |         | THROUGH   | MI        | N ON G | REEN M     | AX ON RED |  |
| WESTBOUND  | 38                              |         | 469       |           | 26     |            | 0         |  |
| EASTBOUND  | 46                              |         | 350       |           | 57     |            | 0         |  |
| NORTHBOUND |                                 |         | 206       |           | 64     |            | 36        |  |
| SOUTHBOUND | 17                              |         | 797       |           | 78     |            | 0         |  |
|            |                                 | **      | NUMBER    | OF LANES  | 3 **   |            |           |  |
| APPROACH   | LEFT                            | LEFT    | THROUGH   | RIGHT     | RIGHT  | L/T/R      | TOTAL     |  |
|            | ONLY                            | SHARED  | ONLY      | SHARED    | ONLY   | SHARED     | LANES     |  |
| WESTBOUND  | 0                               | 1       | 0         | 1         | 0      | 0          | 2         |  |
| EASTBOUND  | 0                               | 1       | 0         | 1         | 0      | 0          | 2         |  |
| NORTHBOUND | 1                               | 0       | 1         | 0         | 1      | 0          | 3         |  |
| SOUTHBOUND | 1                               | 0       | 1         | 1         | 0      | 0          | 3         |  |
|            |                                 | ** ASS  | IGNED LAN | IE VOLUME | IS **  |            |           |  |
| APPROACH   | LEFT                            | LEF:    | Γ THRO    | UGH       | RIGHT  | RIGHT      | L/T/R     |  |
|            | ONLY                            | SHARI   | ED ON     | ILY S     | SHARED | ONLY       | SHARED    |  |
| WESTBOUND  | N/A                             | 24      | 7 N       | I/A       | 286    | N/A        | N/A       |  |
| EASTBOUND  | N/A                             | 193     | 3 N       | I/A       | 260    | N/A        | N/A       |  |
| NORTHBOUND | 80                              | N/I     | A 2       | 106       | N/A    | 64         | N/A       |  |
| SOUTHBOUND | 17                              | N/A     | A 4       | :38       | 438    | N/A        | N/A       |  |
|            |                                 |         |           |           |        |            |           |  |
|            | EAST-WEST CRI<br>NORTH-SOUTH C  | _       |           |           |        | 332<br>518 |           |  |
|            | THE SUM OF CRITICAL VOLUMES 850 |         |           |           |        |            |           |  |
|            | NUMBER OF CRI                   | TICAL C | LEARANCE  | INTERVAL  |        | 2*         |           |  |
|            | CMA VALUE                       |         |           |           |        | 0.467      |           |  |
|            | LEVEL OF SERV                   | ICE     |           |           |        | А          |           |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:16, PICO BOULEVARD AND BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH        |               |           |            | * *      | 1        | RIGHT TURN | _         |
|-----------------|---------------|-----------|------------|----------|----------|------------|-----------|
| THE CHES OF THE | LEFT          |           | THROUGH    | MI       | N ON GF  | REEN M     | AX ON RED |
| WESTBOUND       | 62<br>111     |           | 418        |          | 59       |            | 0         |
| EASTBOUND       |               |           | 360        |          | 24       |            | 34        |
| NORTHBOUND      |               |           | 798<br>781 |          | 33<br>68 |            | 0         |
| SOUTHBOUND      | 43            |           | 781        |          | 80       |            | 0         |
|                 |               | * *       | NUMBER     | OF LANES | **       |            |           |
| APPROACH        | LEFT          | LEFT      | THROUGH    | RIGHT    | RIGHT    | L/T/R      | TOTAL     |
|                 | ONLY          | SHARED    | ONLY       | SHARED   | ONLY     | SHARED     | LANES     |
| WESTBOUND       | 1             | 0         | 0          | 1        | 0        | 0          | 2         |
| EASTBOUND       | 1             | 0         | 1          | 0        | 1        | 0          | 3         |
| NORTHBOUND      |               | 0         | 1          | 1        | 0        | 0          | 3         |
| SOUTHBOUND      | 1             | 0         | 1          | 1        | 0        | 0          | 3         |
|                 |               | ** ASSI   | IGNED LAN  | E VOLUME | S **     |            |           |
| APPROACH        | LEFT          | LEFT.     | THRC       | UGH      | RIGHT    | RIGHT      | L/T/R     |
|                 | ONLY          | SHARI     | ED ON      | ILY S    | HARED    | ONLY       | SHARED    |
| WESTBOUND       | 62            | N/A       | A N        | I/A      | 477      | N/A        | N/A       |
| EASTBOUND       | 111           | N/I       | 4 3        | 60       | N/A      | 24         | N/A       |
| NORTHBOUND      |               | N/I       |            | 16       | 416      | N/A        | N/A       |
| SOUTHBOUND      | 43            | N/P       | 4          | 24       | 424      | N/A        | N/A       |
|                 |               |           |            |          |          |            |           |
|                 | EAST-WEST CRI |           |            |          |          | 588<br>491 |           |
|                 | THE SUM OF CF | RITICAL V | OLUMES .   |          |          | 1079       |           |
|                 | NUMBER OF CRI | TICAL CI  | LEARANCE   | INTERVAL | S        | 2*         |           |
|                 | CMA VALUE     |           |            |          |          | 0.619      |           |
|                 | LEVEL OF SERV | ICE       |            |          |          | В          |           |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:17, 17TH STREET/I-10 WB ON-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   | T 191910      |          | mup ou du       | * *      | 1             | RIGHT TURNS |                |
|------------|---------------|----------|-----------------|----------|---------------|-------------|----------------|
| WESTBOUND  | LEFT<br>121   |          | THROUGH<br>1043 | MIT      | IN ON GF<br>0 | KEEN M      | AX ON RED<br>0 |
| EASTBOUND  | 0             |          | 1043            |          | 0             |             | 0              |
| NORTHBOUND | 0             |          | 0               |          | 0             |             | 0              |
| SOUTHBOUND | 0             |          | 929             |          | 930           |             | 0              |
|            |               |          |                 |          |               |             |                |
|            |               | * *      | NUMBER          | OF LANES | **            |             |                |
| APPROACH   | LEFT          | LEFT     | THROUGH         | RIGHT    | RIGHT         | L/T/R       | TOTAL          |
|            | ONLY          | SHARED   | ONLY            | SHARED   | ONLY          | SHARED      | LANES          |
| WESTBOUND  | 0             | 1        | 0               | 1        | 0             | 0           | 2              |
| EASTBOUND  | 0             | 0        | 0               | 0        | 0             | 0           | 0              |
| NORTHBOUND | 0             | 0        | 0               | 0        | 0             | 0           | 0              |
| SOUTHBOUND | 0             | 0        | 3               | 1        | 1             | 0           | 5              |
|            |               | ** ASSI  | IGNED LAN       | E VOLUME | IS **         |             |                |
| APPROACH   | LEFT          | LEF:     | THRO            | UGH      | RIGHT         | RIGHT       | L/T/R          |
|            | ONLY          | SHARI    | ED ON           | LY S     | SHARED        | ONLY        | SHARED         |
| WESTBOUND  | N/A           | 582      | 2 N             | /A       | 582           | N/A         | N/A            |
| EASTBOUND  | N/A           | N/A      | A N             | /A       | N/A           | N/A         | N/A            |
| NORTHBOUND | N/A           | N/A      | A N             | /A       | N/A           | N/A         | N/A            |
| SOUTHBOUND | N/A           | N/A      | 4 3             | 10       | N/A           | 465         | N/A            |
|            |               |          |                 |          |               |             |                |
|            | EAST-WEST CRI |          |                 |          |               | 582<br>465  |                |
|            | NORTH BOOTH C | KITICAL  | VOLUMED         |          |               |             |                |
|            | THE SUM OF CR | ITICAL V | OLUMES .        |          |               | 1047        |                |
|            | NUMBER OF CRI | TICAL CI | LEARANCE        | INTERVAL |               | 2*          |                |
|            | CMA VALUE     |          |                 |          |               | 0.598       |                |
|            | LEVEL OF SERV | ICE      |                 |          |               | А           |                |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:18, 18TH STREET/I-10 EB OFF-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH     | LEFT                            |             | THROUGH       | * *<br>M T | R<br>N ON GR | IGHT TURNS | S **      |  |
|--------------|---------------------------------|-------------|---------------|------------|--------------|------------|-----------|--|
| WESTBOUND    | 0                               |             | 1 nkoogn<br>0 | IVI I      | .N ON GR     | EEIN IMA   | AX ON RED |  |
| EASTBOUND    | 0                               |             | 705           |            | 107          |            | 40        |  |
| NORTHBOUND   |                                 |             | 0             |            | 159          |            | 0         |  |
| SOUTHBOUND   |                                 |             | 704           |            | 0            |            | 0         |  |
| 500111500115 | 233                             |             | , 0 1         |            | · ·          |            | Ü         |  |
|              |                                 | **          | NUMBER        | OF LANES   | **           |            |           |  |
| APPROACH     | LEFT                            | LEFT        | THROUGH       | RIGHT      | RIGHT        | L/T/R      | TOTAL     |  |
|              | ONLY                            | SHARED      | ONLY          | SHARED     | ONLY         | SHARED     | LANES     |  |
| WESTBOUND    | 0                               | 0           | 0             | 0          | 0            | 0          | 0         |  |
| EASTBOUND    | 0                               | 0           | 3             | 0          | 1            | 0          | 4         |  |
| NORTHBOUND   | 0                               | 0           | 0             | 0          | 2            | 0          | 2         |  |
| SOUTHBOUND   | 1                               | 0           | 3             | 0          | 0            | 0          | 4         |  |
|              |                                 | ** ASSI     | IGNED LAN     | IE VOLUME  | IS **        |            |           |  |
| APPROACH     | LEFT                            | LEFT        | r THRO        | UGH        | RIGHT        | RIGHT      | L/T/R     |  |
|              | ONLY                            | SHARI       | ED ON         | ILY S      | SHARED       | ONLY       | SHARED    |  |
| WESTBOUND    | N/A                             | N/A         | A N           | I/A        | N/A          | N/A        | N/A       |  |
| EASTBOUND    | N/A                             | N/A         | A 2           | 235        | N/A          | 107        | N/A       |  |
| NORTHBOUND   | N/A                             | N/A         | A N           | I/A        | N/A          | 80         | N/A       |  |
| SOUTHBOUND   | 235                             | N/A         | A 2           | 235        | N/A          | N/A        | N/A       |  |
|              |                                 |             |               |            |              |            |           |  |
|              | EAST-WEST CRI                   | TICAL VO    | DLUMES        |            |              | 235        |           |  |
|              | NORTH-SOUTH C                   | RITICAL     | VOLUMES       |            |              | 315        |           |  |
|              |                                 |             |               |            |              |            |           |  |
|              | THE SUM OF CRITICAL VOLUMES 550 |             |               |            |              |            |           |  |
|              | NUMBER OF CRI                   | TICAL CI    | LEARANCE      | INTERVAL   |              | 3*         |           |  |
|              | CMA VALUE                       | • • • • • • |               |            |              | 0.309      |           |  |
|              | LEVEL OF SERV                   | ICE         |               |            |              | А          |           |  |

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:19, 17TH STREET/I-10 WB OFF-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   | T 10101                         |          | munoudu        | **        | 10             | IGHT TURN |                |  |
|------------|---------------------------------|----------|----------------|-----------|----------------|-----------|----------------|--|
| WESTBOUND  | LEFT<br>131                     |          | THROUGH<br>601 | IVI 1     | N ON GR<br>129 | EEN MA    | AX ON RED<br>0 |  |
| EASTBOUND  | 0                               |          | 0              |           | 0              |           | 0              |  |
| NORTHBOUND | 20                              |          | 211            |           | 0              |           | 0              |  |
| SOUTHBOUND | 0                               |          | 702            |           | 185            |           | 0              |  |
|            |                                 |          |                |           |                |           |                |  |
|            |                                 | **       | NUMBER         | OF LANES  | **             |           |                |  |
| APPROACH   | LEFT                            | LEFT     | THROUGH        | RIGHT     | RIGHT          | L/T/R     | TOTAL          |  |
|            | ONLY                            | SHARED   | ONLY           | SHARED    | ONLY           | SHARED    | LANES          |  |
| WESTBOUND  | 0                               | 1        | 0              | 1         | 0              | 0         | 2              |  |
| EASTBOUND  | 0                               | 0        | 0              | 0         | 0              | 0         | 0              |  |
| NORTHBOUND |                                 | 0        | 2              | 0         | 0              | 0         | 3              |  |
| SOUTHBOUND | 0                               | 0        | 1              | 1         | 0              | 0         | 2              |  |
|            |                                 | ** ASS   | IGNED LAN      | IE VOLUME | S **           |           |                |  |
| APPROACH   | LEFT                            | LEF'     | r THRC         | UGH       | RIGHT          | RIGHT     | L/T/R          |  |
|            | ONLY                            | SHAR     | ED ON          | ILY S     | HARED          | ONLY      | SHARED         |  |
| WESTBOUND  | N/A                             | 43       | 0 N            | I/A       | 430            | N/A       | N/A            |  |
| EASTBOUND  | N/A                             | N/2      | A N            | I/A       | N/A            | N/A       | N/A            |  |
| NORTHBOUND | 20                              | N/I      |                | .06       | N/A            | N/A       | N/A            |  |
| SOUTHBOUND | N/A                             | N/I      | A 4            | 44        | 444            | N/A       | N/A            |  |
|            |                                 |          |                |           |                |           |                |  |
|            | EAST-WEST CRI                   |          |                |           |                | 430       |                |  |
|            | NORTH-SOUTH (                   | CRITICAL | VOLUMES        |           |                | 464<br>   |                |  |
|            | THE SUM OF CRITICAL VOLUMES 894 |          |                |           |                |           |                |  |
|            | NUMBER OF CRI                   | TICAL C  | LEARANCE       | INTERVAL  | S              | 2*        |                |  |
|            | CMA VALUE                       |          |                |           |                | 0.496     |                |  |
|            | LEVEL OF SERV                   | 7ICE     |                |           |                | А         |                |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION: 20, 18TH STREET/I-10 EB ON-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

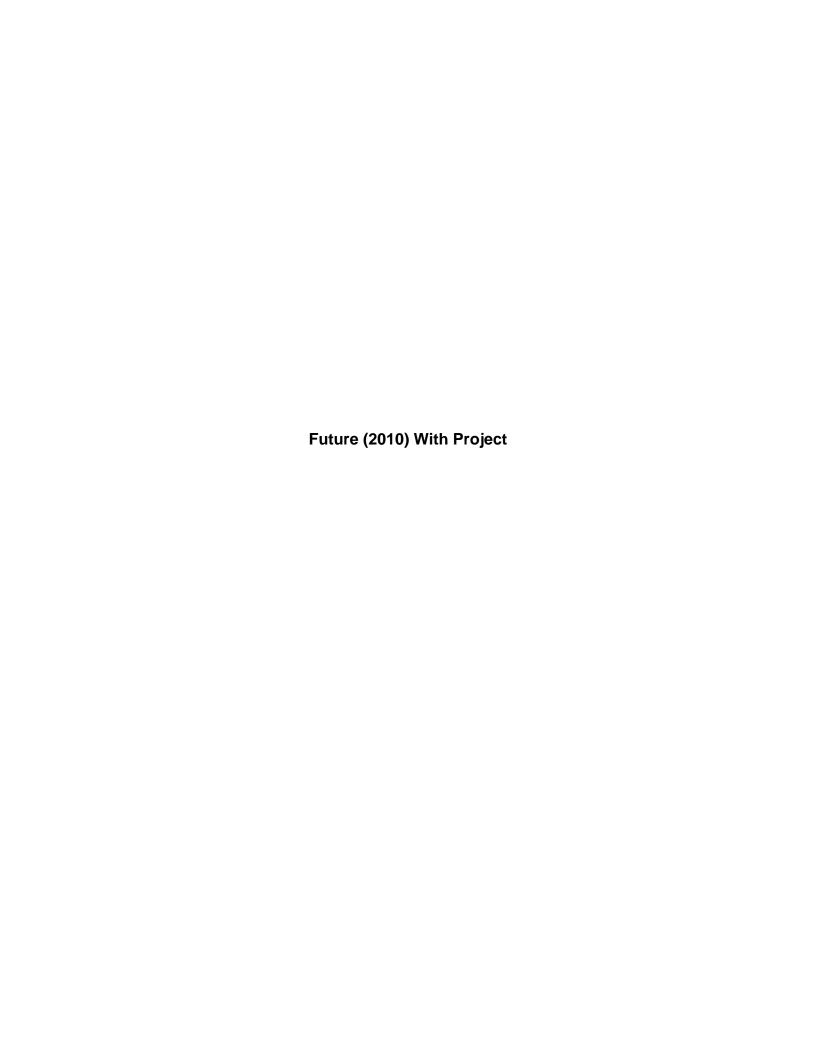
CASE: FUTURE (2010) WITHOUT PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH               |               |           |           | **              | 1/           | IGHT TURN | _              |
|------------------------|---------------|-----------|-----------|-----------------|--------------|-----------|----------------|
| ME CEROLINID           | LEFT          |           | THROUGH 0 | M⊥              | N ON GR<br>0 | EEN MA    | AX ON RED<br>0 |
| WESTBOUND<br>EASTBOUND | 0<br>808      |           | 365       |                 | 116          |           | 0              |
| NORTHBOUND             |               |           | 620       |                 | 110          |           | 0              |
| SOUTHBOUND             |               |           | 476       |                 | 0            |           | 0              |
| SOUTHBOOKD             | 10            |           | 470       |                 | O            |           | O              |
|                        |               | * *       | NUMBER    | OF LANES        | **           |           |                |
| APPROACH               | LEFT          | LEFT      | THROUGH   | RIGHT           | RIGHT        | L/T/R     | TOTAL          |
|                        | ONLY          | SHARED    | ONLY      | SHARED          | ONLY         | SHARED    | LANES          |
| WESTBOUND              | 0             | 0         | 0         | 0               | 0            | 0         | 0              |
| EASTBOUND              | 1             | 0         | 1         | 1               | 0            | 0         | 3              |
| NORTHBOUND             |               | 0         | 1         | 1               | 0            | 0         | 2              |
| SOUTHBOUND             | 1             | 0         | 2         | 0               | 0            | 0         | 3              |
|                        |               | ** ASSI   | IGNED LAN | IE VOLUME       | S **         |           |                |
| APPROACH               | LEFT          | LEFT      | r THRO    | UGH             | RIGHT        | RIGHT     | L/T/R          |
|                        | ONLY          | SHARI     | ED ON     | ILY S           | HARED        | ONLY      | SHARED         |
| WESTBOUND              | N/A           | N/B       | A N       | I/A             | N/A          | N/A       | N/A            |
| EASTBOUND              | 808           | N/A       | A 2       | 40              | 240          | N/A       | N/A            |
| NORTHBOUND             | N/A           | N/A       | 4 3       | 16              | 316          | N/A       | N/A            |
| SOUTHBOUND             | 18            | N/A       | A 2       | 38              | N/A          | N/A       | N/A            |
|                        |               |           |           |                 |              |           |                |
|                        | EAST-WEST CRI | TICAL VO  | DLUMES    |                 |              | 808       |                |
|                        | NORTH-SOUTH C | CRITICAL  | VOLUMES   |                 |              | 334       |                |
|                        |               |           |           |                 |              |           |                |
|                        | THE SUM OF CF | RITICAL V | OLUMES .  | • • • • • • • • | • • • • • •  | 1142      |                |
|                        | NUMBER OF CRI | TICAL CI  | LEARANCE  | INTERVAL        | S            | 2*        |                |
|                        | CMA VALUE     |           |           |                 |              | 0.661     |                |
|                        | LEVEL OF SERV | 7ICE      |           |                 |              | В         |                |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:1, OLYMPIC BOULEVARD & HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |                            |          |          | * *       | R       | IGHT TURN             | s **      |
|------------|----------------------------|----------|----------|-----------|---------|-----------------------|-----------|
|            | LEFT                       |          | THROUGH  | MI        | N ON GR | EEN M                 | AX ON RED |
| WESTBOUND  | 47                         |          | 802      |           | 61      |                       | 0         |
| EASTBOUND  | 29                         |          | 1176     |           | 137     |                       | 0         |
| NORTHBOUND |                            |          | 37       |           | 4       |                       | 0         |
| SOUTHBOUND | 63                         |          | 518      |           | 26      |                       | 72        |
|            |                            | **       | NUMBER   | OF LANES  | ; **    |                       |           |
| APPROACH   | LEFT                       | LEFT     | THROUGH  | RIGHT     | RIGHT   | L/T/R                 | TOTAL     |
|            | ONLY                       | SHARED   | ONLY     | SHARED    | ONLY    | SHARED                | LANES     |
| WESTBOUND  | 0                          | 1        | 1        | 1         | 0       | 0                     | 3         |
| EASTBOUND  | 0                          | 1        | 1        | 1         | 0       | 0                     | 3         |
| NORTHBOUND | 1                          | 0        | 1        | 1         | 0       | 0                     | 3         |
| SOUTHBOUND | 1                          | 0        | 2        | 0         | 1       | 0                     | 4         |
|            |                            | ** ASSI  | GNED LAN | IE VOLUME | IS **   |                       |           |
| APPROACH   | LEFT                       | LEFT     | THRO     | UGH       | RIGHT   | RIGHT                 | L/T/R     |
|            | ONLY                       | SHARE    | ED ON    | ILY S     | SHARED  | ONLY                  | SHARED    |
| WESTBOUND  | N/A                        | 147      | 7 3      | 882       | 382     | N/A                   | N/A       |
| EASTBOUND  | N/A                        | 383      | 3 4      | 179       | 479     | N/A                   | N/A       |
| NORTHBOUND | 8                          | N/A      | A        | 20        | 20      | N/A                   | N/A       |
| SOUTHBOUND | 63                         | N/P      | A 2      | 259       | N/A     | 26                    | N/A       |
|            | EAST-WEST CRINORTH-SOUTH C | CRITICAL | VOLUMES  |           |         | 526<br>267<br><br>793 |           |
|            | NUMBER OF CRI              | TICAL CI | LEARANCE | INTERVAL  | S       | 2*                    |           |
|            | CMA VALUE                  |          |          |           |         | 0.487                 |           |

<sup>-----</sup>

LEVEL OF SERVICE .....

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:2, OLYMPIC BOULEVARD & BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |              |           |          | *               | *       | RIGHT | TURNS | **     |
|------------|--------------|-----------|----------|-----------------|---------|-------|-------|--------|
|            | LEFT         |           | THROUGH  | M               | IN ON C | GREEN | MAX   | ON RED |
| WESTBOUND  | 26           |           | 911      |                 | 43      | 3     |       | 0      |
| EASTBOUND  | 43           |           | 1102     |                 | 41      | _     |       | 0      |
| NORTHBOUND | 97           |           | 811      |                 | 47      | 7     |       | 0      |
| SOUTHBOUND | 58           |           | 501      |                 | 111     | -     |       | 0      |
|            |              | * *       | NUMBER   | OF LANE         | S **    |       |       |        |
| APPROACH   | LEFT         | LEFT      | THROUGH  | RIGHT           | RIGHT   | . L/  | T/R   | TOTAL  |
|            | ONLY         | SHARED    | ONLY     | SHARED          | ONLY    | . SHA | RED   | LANES  |
| WESTBOUND  | 0            | 1         | 1        | 1               | 0       | 0     |       | 3      |
| EASTBOUND  | 0            | 1         | 1        | 1               | 0       | 0     |       | 3      |
| NORTHBOUND | 1            | 0         | 1        | 1               | 0       | 0     |       | 3      |
| SOUTHBOUND | 1            | 0         | 1        | 1               | 0       | 0     |       | 3      |
|            |              | ** ASSI   | GNED LAN | IE VOLUM        | ES **   |       |       |        |
| APPROACH   | LEFT         | LEFT      | ' THRO   | OUGH            | RIGHT   | RIG   | HT    | L/T/R  |
|            | ONLY         | SHARE     | IO OI    | ILY             | SHARED  | ON    | LY    | SHARED |
| WESTBOUND  | N/A          | 245       | 3        | 368             | 368     | N     | /A    | N/A    |
| EASTBOUND  | N/A          | 287       | ' 4      | 149             | 449     | N     | /A    | N/A    |
| NORTHBOUND | 97           | N/A       | . 4      | 129             | 429     | N     | /A    | N/A    |
| SOUTHBOUND | 58           | N/A       | . 3      | 306             | 306     | N     | /A    | N/A    |
|            |              |           |          |                 |         |       |       |        |
|            | EAST-WEST CR | ITICAL VO | LUMES    | · • • • • • • • |         | 475   |       |        |
|            | NORTH-SOUTH  | CRITICAL  | VOLUMES  |                 |         | 487   |       |        |
|            | THE SUM OF C | RITICAL V | OLUMES . |                 |         |       |       |        |
|            | NUMBER OF CR | ITICAL CL | EARANCE  | INTERVA         | LS      | . 2   | *     |        |

Capacity used = 1350.

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CMA VALUE ..... 0.613

LEVEL OF SERVICE .....

<sup>-----</sup>

 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 3, US-110 SB OFF-RAMP AND BLAINE STREET/CONNECTICUT STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | T 77.70       |  |          | * *      | 10        | IGHT TURNS | _         |  |  |
|-----------------------------|---------------|--|----------|----------|-----------|------------|-----------|--|--|
| LIEGEROLINE                 | LEFT          |  | THROUGH  | M⊥       | N ON GR   | EEN MA     | AX ON RED |  |  |
| WESTBOUND                   | 285           |  | 0        |          | 328<br>25 |            | 98<br>0   |  |  |
| EASTBOUND                   | 0             |  | 0        |          | ∠5<br>0   |            |           |  |  |
| NORTHBOUND<br>SOUTHBOUND    | 0<br>0        |  | 373      |          | 20        |            | 0<br>0    |  |  |
| SOUTHBOUND                  | U             |  | 3/3      |          | 20        |            | U         |  |  |
|                             |               | **                                     | NUMBER   | OF LANES | **        |            |           |  |  |
| APPROACH                    | LEFT          | LEFT                                   | THROUGH  | RIGHT    | RIGHT     | L/T/R      | TOTAL     |  |  |
|                             | ONLY          | SHARED                                 | ONLY     | SHARED   | ONLY      | SHARED     | LANES     |  |  |
| WESTBOUND                   | 0             | 1                                      | 0        | 0        | 2         | 0          | 3         |  |  |
| EASTBOUND                   | 0             | 0                                      | 0        | 0        | 1         | 0          | 1         |  |  |
| NORTHBOUND                  |               | 0                                      | 0        | 0        | 0         | 0          | 0         |  |  |
| SOUTHBOUND                  | 0             | 0                                      | 1        | 1        | 0         | 0          | 2         |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |  |          |          |           |            |           |  |  |
| APPROACH                    | LEFT          | LEFT                                   | r THRO   | UGH      | RIGHT     | RIGHT      | L/T/R     |  |  |
|                             | ONLY          | SHARI                                  | ED ON    | LY S     | SHARED    | ONLY       | SHARED    |  |  |
| WESTBOUND                   | N/A           | 285                                    | 5 N      | /A       | N/A       | 164        | N/A       |  |  |
| EASTBOUND                   | N/A           | N/A                                    | A N      | /A       | N/A       | 25         | N/A       |  |  |
| NORTHBOUND                  | N/A           | N/A                                    | A N      | /A       | N/A       | N/A        | N/A       |  |  |
| SOUTHBOUND                  | N/A           | N/A                                    | A 1      | 96       | 196       | N/A        | N/A       |  |  |
|                             |               |  |          |          |           |            |           |  |  |
|                             | EAST-WEST CRI | TICAL VO                               | DLUMES   |          |           | 310        |           |  |  |
|                             | NORTH-SOUTH C | RITICAL                                | VOLUMES  |          |           | 196        |           |  |  |
|                             | THE SUM OF CR | ITICAL V                               | OLUMES . |          |           | 506        |           |  |  |
|                             | NUMBER OF CRI | NUMBER OF CRITICAL CLEARANCE INTERVALS |          |          |           |            |           |  |  |
|                             | CMA VALUE     | 0.284                                  |          |          |           |            |           |  |  |
|                             | LEVEL OF SERV | LEVEL OF SERVICE                       |          |          |           |            |           |  |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION: 4, 11TH STREET AND BLAINE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   | म् स्टब्स                      |          | TUDOUGU        | * *<br>MT | 1,      | RIGHT TURN     |                |
|------------|--------------------------------|----------|----------------|-----------|---------|----------------|----------------|
| WESTBOUND  | LEFT<br>389                    |          | THROUGH<br>146 | IvI T     | N ON GF | CEEN M         | AX ON RED<br>0 |
| EASTBOUND  | 0                              |          | 139            |           | 279     |                | 0              |
| NORTHBOUND | 0                              |          | 0              |           | 0       |                | 0              |
| SOUTHBOUND | 240                            |          | 360            |           | 76      |                | 0              |
|            |                                |          |                |           |         |                |                |
|            |                                | * *      | NUMBER         | OF LANES  | **      |                |                |
| APPROACH   | LEFT                           | LEFT     | THROUGH        | RIGHT     | RIGHT   | L/T/R          | TOTAL          |
|            | ONLY                           | SHARED   | ONLY           | SHARED    | ONLY    | SHARED         | LANES          |
| WESTBOUND  | 0                              | 1        | 1              | 0         | 0       | 0              | 2              |
| EASTBOUND  | 0                              | 0        | 1              | 0         | 1       | 0              | 2              |
| NORTHBOUND |                                | 0        | 0              | 0         | 0       | 0              | 0              |
| SOUTHBOUND | 1                              | 1        | 0              | 1         | 0       | 0              | 3              |
|            |                                | ** ASSI  | IGNED LAN      | IE VOLUME | S **    |                |                |
| APPROACH   | LEFT                           | LEFT     | r THRO         | UGH       | RIGHT   | RIGHT          | L/T/R          |
|            | ONLY                           | SHARI    | ED ON          | ILY S     | HARED   | ONLY           | SHARED         |
| WESTBOUND  | 389                            | N/A      | A 1            | 46        | N/A     | N/A            | N/A            |
| EASTBOUND  | N/A                            | N/A      | 4 1            | .39       | N/A     | 279            | N/A            |
| NORTHBOUND | N/A                            | N/A      | A N            | I/A       | N/A     | N/A            | N/A            |
| SOUTHBOUND | 225                            | 225      | 5 N            | I/A       | 225     | N/A            | N/A            |
|            |                                |          |                |           |         |                |                |
|            | EAST-WEST CRI<br>NORTH-SOUTH C |          |                |           |         | 668<br>225<br> |                |
|            | THE SUM OF CR                  | ITICAL V | OLUMES .       |           |         | 893            |                |
|            | NUMBER OF CRI                  | S        | 3*             |           |         |                |                |
|            | CMA VALUE                      |          | 0.561          |           |         |                |                |
|            | LEVEL OF SERV                  | ICE      |                |           |         | A              |                |

<sup>-----</sup>

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation. Eastbound and Westbound approaches have opposed signal phases.

INTERSECTION:5, 11TH STREET/CHICK HEARN COURT AND CHERRY STREET/US-101 NB ON-RAMP

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |      |        |           | *         | *      | RIGHT | TURNS | **       |
|------------|------|--------|-----------|-----------|--------|-------|-------|----------|
|            | LEFT |        | THROUGH   | M         | IN ON  | GREEN | MAX   | X ON RED |
| WESTBOUND  | 78   |        | 436       |           | 37     | 0     |       | 0        |
| EASTBOUND  | 100  |        | 218       |           | 5      | 0     |       | 0        |
| NORTHBOUND | 143  |        | 698       |           | 20     | 3     |       | 101      |
| SOUTHBOUND | 0    |        | 0         |           |        | 0     |       | 0        |
|            |      |        |           |           |        |       |       |          |
|            |      | **     | NUMBER    | OF LANE:  | S **   |       |       |          |
| APPROACH   | LEFT | LEFT   | THROUGH   | RIGHT     | RIGH   | T L   | /T/R  | TOTAL    |
|            | ONLY | SHARED | ONLY      | SHARED    | ONL    | Y SH. | ARED  | LANES    |
| WESTBOUND  | 1    | 0      | 2         | 0         | 1      |       | 0     | 4        |
| EASTBOUND  | 0    | 1      | 0         | 1         | 0      |       | 0     | 2        |
| NORTHBOUND | 1    | 0      | 1         | 0         | 2      |       | 0     | 4        |
| SOUTHBOUND | 0    | 0      | 0         | 0         | 0      |       | 0     | 0        |
|            | *    | * ASS  | IGNED LAN | IE VOLUMI | ES **  |       |       |          |
|            |      | ADD    | IONED LAN | ie volom  |        |       |       |          |
| APPROACH   | LEFT | LEF'   | T THRO    | UGH       | RIGHT  | RI    | GHT   | L/T/R    |
|            | ONLY | SHAR   | ED ON     | ILY :     | SHARED | 0     | NLY   | SHARED   |
| WESTBOUND  | 78   | N/     | A 2       | 218       | N/A    |       | 370   | N/A      |
| EASTBOUND  | 100  | N/.    | A N       | I/A       | 268    | j     | N/A   | N/A      |
| NORTHBOUND | 143  | N/.    | Α 6       | 598       | N/A    |       | 102   | N/A      |
| SOUTHBOUND | N/A  | N/     | A N       | I/A       | N/A    | 1     | N/A   | N/A      |
|            |      |        |           |           |        |       |       |          |
|            |      |        |           |           |        |       |       |          |

| EAST-WEST CRITICAL VOLUMES             | 470   |
|--|-------|
| NORTH-SOUTH CRITICAL VOLUMES           | 698   |
| THE SUM OF CRITICAL VOLUMES            | 1168  |
| NUMBER OF CRITICAL CLEARANCE INTERVALS | 2*    |
| CMA VALUE                              | 0.765 |
| LEVEL OF SERVICE                       | С     |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

Capacity used = 1350.

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INTERSECTION:6, 11TH STREET AND OLIVE AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   | תיקים ז                                   |          | TUDOUGU        | * *      | 11             | IGHT TURN | _              |  |  |  |
|------------|---|----------|----------------|----------|----------------|-----------|----------------|--|--|--|
| WESTBOUND  | LEFT<br>0                                 |          | THROUGH<br>361 | 1417     | IN ON GR<br>97 | EEN M     | AX ON RED<br>0 |  |  |  |
| EASTBOUND  | 0   |          | 0              |          | 0              |           | 0              |  |  |  |
| NORTHBOUND | 100                                       |          | 1536           |          | 0              |           | 0              |  |  |  |
| SOUTHBOUND | 0   |          | 0              |          | 0              |           | 0              |  |  |  |
|            |   |          |                |          |                |           |                |  |  |  |
|            |   | **       | NUMBER         | OF LANES | **             |           |                |  |  |  |
| APPROACH   | LEFT                                      | LEFT     | THROUGH        | RIGHT    | RIGHT          | L/T/R     | TOTAL          |  |  |  |
|            | ONLY                                      | SHARED   | ONLY           | SHARED   | ONLY           | SHARED    | LANES          |  |  |  |
| WESTBOUND  | 0   | 0        | 2              | 0        | 1              | 0         | 3              |  |  |  |
| EASTBOUND  | 0   | 0        | 0              | 0        | 0              | 0         | 0              |  |  |  |
| NORTHBOUND | 0   | 1        | 3              | 0        | 0              | 0         | 4              |  |  |  |
| SOUTHBOUND | 0   | 0        | 0              | 0        | 0              | 0         | 0              |  |  |  |
|            |   | ** ASS   | IGNED LAN      | E VOLUME | IS **          |           |                |  |  |  |
| APPROACH   | LEFT                                      | LEFT     | Γ THRO         | UGH      | RIGHT          | RIGHT     | L/T/R          |  |  |  |
|            | ONLY                                      | SHARI    | ED ON          | LY S     | SHARED         | ONLY      | SHARED         |  |  |  |
| WESTBOUND  | N/A                                       | N/A      | A 1            | 80       | N/A            | 97        | N/A            |  |  |  |
| EASTBOUND  | N/A                                       | N/A      | A N            | /A       | N/A            | N/A       | N/A            |  |  |  |
| NORTHBOUND | N/A                                       | 409      | 9 4            | 09       | N/A            | N/A       | N/A            |  |  |  |
| SOUTHBOUND | N/A                                       | N/A      | A N            | T/A      | N/A            | N/A       | N/A            |  |  |  |
|            |   |          |                |          |                |           |                |  |  |  |
|            | EAST-WEST CRI                             | TICAL VO | OLUMES         |          |                | 180       |                |  |  |  |
|            | NORTH-SOUTH C                             | RITICAL  | VOLUMES        |          | • • • • • •    | 409       |                |  |  |  |
|            | THE SUM OF CR                             | ITICAL V | VOLUMES .      |          |                | 589       |                |  |  |  |
|            | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |          |                |          |                |           |                |  |  |  |
|            | CMA VALUE 0.349                           |          |                |          |                |           |                |  |  |  |
|            | LEVEL OF SERVICE A                        |          |                |          |                |           |                |  |  |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 7, 11TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |               |           |           | * *      | F       | RIGHT TURN | S **      |  |  |
|-----------------------------|---------------|-----------|-----------|----------|---------|------------|-----------|--|--|
|                             | LEFT          |           | THROUGH   | MI       | N ON GF | REEN M     | AX ON RED |  |  |
| WESTBOUND                   | 55            |           | 420       |          | 104     |            | 0         |  |  |
| EASTBOUND                   | 0             |           | 0         |          | 0       |            | 0         |  |  |
| NORTHBOUND                  |               |           | 35        |          | 0       |            | 0         |  |  |
| SOUTHBOUND                  | 0             |           | 584       |          | 58      |            | 0         |  |  |
|                             |               | **        | NUMBER    | OF LANES | 3 **    |            |           |  |  |
| APPROACH                    | LEFT          | LEFT      | THROUGH   | RIGHT    | RIGHT   | L/T/R      | TOTAL     |  |  |
|                             | ONLY          | SHARED    | ONLY      | SHARED   | ONLY    | SHARED     | LANES     |  |  |
| WESTBOUND                   | 1             | 0         | 1         | 1        | 0       | 0          | 3         |  |  |
| EASTBOUND                   | 0             | 0         | 0         | 0        | 0       | 0          | 0         |  |  |
| NORTHBOUND                  | 1             | 0         | 2         | 0        | 0       | 0          | 3         |  |  |
| SOUTHBOUND                  | 0             | 0         | 1         | 1        | 0       | 0          | 2         |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |           |           |          |         |            |           |  |  |
| APPROACH                    | LEFT          | LEF:      | r THRC    | UGH      | RIGHT   | RIGHT      | L/T/R     |  |  |
|                             | ONLY          | SHARI     | ED ON     | ILY S    | SHARED  | ONLY       | SHARED    |  |  |
| WESTBOUND                   | 55            | N/Z       | A 2       | 62       | 262     | N/A        | N/A       |  |  |
| EASTBOUND                   | N/A           | N/I       | A P       | I/A      | N/A     | N/A        | N/A       |  |  |
| NORTHBOUND                  | 4             | N/I       | A         | 18       | N/A     | N/A        | N/A       |  |  |
| SOUTHBOUND                  | N/A           | N/I       | A 3       | 321      | 321     | N/A        | N/A       |  |  |
|                             |               |           |           |          |         |            |           |  |  |
|                             | EAST-WEST CRI |           |           |          |         | 262<br>325 |           |  |  |
|                             | THE SUM OF CF | RITICAL V | VOLUMES . |          |         | 587        |           |  |  |
|                             | NUMBER OF CRI | 2*        |           |          |         |            |           |  |  |
|                             | CMA VALUE     |           |           |          |         | 0.348      |           |  |  |
|                             | LEVEL OF SERV | 7ICE      |           |          |         | A          |           |  |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:8, 11TH STREET AND BROADWAY

DATE: 11/27/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |                       |          |             | * *      | 10      | IGHT TURN  | _              |  |  |  |  |
|-----------------------------|-----------------------|----------|-------------|----------|---------|------------|----------------|--|--|--|--|
| MECHDOIND                   | LEFT<br>72            |          | THROUGH 322 | MΙ       | N ON GR | EEN M      | AX ON RED<br>0 |  |  |  |  |
| WESTBOUND<br>EASTBOUND      | 72                    |          | 322         |          | 29<br>0 |            | 0              |  |  |  |  |
| NORTHBOUND                  | •                     |          | 963         |          | 0       |            | 0              |  |  |  |  |
| SOUTHBOUND                  |                       |          | 455         |          | 53      |            | 0              |  |  |  |  |
| BOOTHBOOND                  | O .                   |          | 133         |          | 33      |            | Ü              |  |  |  |  |
|                             | ** NUMBER OF LANES ** |          |             |          |         |            |                |  |  |  |  |
| APPROACH                    | LEFT                  | LEFT     | THROUGH     | RIGHT    | RIGHT   | L/T/R      | TOTAL          |  |  |  |  |
|                             | ONLY                  | SHARED   | ONLY        | SHARED   | ONLY    | SHARED     | LANES          |  |  |  |  |
| WESTBOUND                   | 0                     | 1        | 1           | 1        | 0       | 0          | 3              |  |  |  |  |
| EASTBOUND                   | 0                     | 0        | 0           | 0        | 0       | 0          | 0              |  |  |  |  |
| NORTHBOUND                  |                       | 0        | 2           | 0        | 0       | 0          | 3              |  |  |  |  |
| SOUTHBOUND                  | 0                     | 0        | 1           | 1        | 0       | 0          | 2              |  |  |  |  |
| ** ASSIGNED LANE VOLUMES ** |                       |          |             |          |         |            |                |  |  |  |  |
| APPROACH                    | LEFT                  | LEFT     | r THRC      | UGH      | RIGHT   | RIGHT      | L/T/R          |  |  |  |  |
|                             | ONLY                  | SHARI    | ED ON       | ILY S    | HARED   | ONLY       | SHARED         |  |  |  |  |
| WESTBOUND                   | N/A                   | 141      | L 1         | 41       | 141     | N/A        | N/A            |  |  |  |  |
| EASTBOUND                   | N/A                   | N/A      | A N         | I/A      | N/A     | N/A        | N/A            |  |  |  |  |
| NORTHBOUND                  | 242                   | N/A      |             | 82       | N/A     | N/A        | N/A            |  |  |  |  |
| SOUTHBOUND                  | N/A                   | N/P      | A 2         | 54       | 254     | N/A        | N/A            |  |  |  |  |
|                             |                       |          |             |          |         |            |                |  |  |  |  |
|                             | EAST-WEST CRI         | -        |             |          |         | 141<br>496 |                |  |  |  |  |
|                             | THE SUM OF CR         | ITICAL V | OLUMES .    |          |         | 637        |                |  |  |  |  |
|                             | NUMBER OF CRI         | TICAL CI | LEARANCE    | INTERVAL | .S      | 2*         |                |  |  |  |  |
|                             | CMA VALUE             |          |             |          |         | 0.377      |                |  |  |  |  |
|                             | LEVEL OF SERV         | ICE      |             |          |         | А          |                |  |  |  |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:9, 11TH STREET AND MAIN STREET

DATE: 11/27/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | T 17.70                                   |          | mup ou du      | * *      | F<br>IN ON GE | RIGHT TURN | _              |  |  |
|-----------------------------|---|----------|----------------|----------|---------------|------------|----------------|--|--|
| WESTBOUND                   | LEFT<br>40                                |          | THROUGH<br>261 | 1417     | .N ON GR      | CEEN M     | AX ON RED<br>0 |  |  |
| EASTBOUND                   | 0   |          | 0              |          | 0             |            | 0              |  |  |
| NORTHBOUND                  | 67  |          | 952            |          | 0             |            | 0              |  |  |
| SOUTHBOUND                  | 0   |          | 578            |          | 85            |            | 0              |  |  |
|                             |   |          |                |          |               |            |                |  |  |
|                             |   | * *      | NUMBER         | OF LANES | ; **          |            |                |  |  |
| APPROACH                    | LEFT                                      | LEFT     | THROUGH        | RIGHT    | RIGHT         | L/T/R      | TOTAL          |  |  |
|                             | ONLY                                      | SHARED   | ONLY           | SHARED   | ONLY          | SHARED     | LANES          |  |  |
| WESTBOUND                   | 0   | 1        | 0              | 1        | 0             | 0          | 2              |  |  |
| EASTBOUND                   | 0   | 0        | 0              | 0        | 0             | 0          | 0              |  |  |
| NORTHBOUND                  |   | 0        | 2              | 0        | 0             | 0          | 3              |  |  |
| SOUTHBOUND                  | 0   | 0        | 1              | 1        | 0             | 0          | 2              |  |  |
| ** ASSIGNED LANE VOLUMES ** |   |          |                |          |               |            |                |  |  |
| APPROACH                    | LEFT                                      | LEFT     | г THRO         | UGH      | RIGHT         | RIGHT      | L/T/R          |  |  |
|                             | ONLY                                      | SHARI    | ED ON          | LY S     | HARED         | ONLY       | SHARED         |  |  |
| WESTBOUND                   | N/A                                       | 182      | 2 N            | /A       | 182           | N/A        | N/A            |  |  |
| EASTBOUND                   | N/A                                       | N/A      | A N            | /A       | N/A           | N/A        | N/A            |  |  |
| NORTHBOUND                  | 67  | N/A      | 4              | 76       | N/A           | N/A        | N/A            |  |  |
| SOUTHBOUND                  | N/A                                       | N/A      | 4 3            | 32       | 332           | N/A        | N/A            |  |  |
|                             |   |          |                |          |               |            |                |  |  |
|                             | EAST-WEST CRI                             | _        |                |          |               | 182        |                |  |  |
|                             | NORTH-SOUTH C                             | RITICAL  | VOLUMES        |          | • • • • • •   | 476<br>    |                |  |  |
|                             | THE SUM OF CR                             | ITICAL V | OLUMES .       |          |               | 658        |                |  |  |
|                             | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |          |                |          |               |            |                |  |  |
|                             | CMA VALUE                                 |          |                |          |               | 0.390      |                |  |  |
|                             | LEVEL OF SERV                             | ICE      |                |          |               | A          |                |  |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:10, 12TH STREET AND OLIVE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH               | T 121200                                  |           | mun ou ou | * *       | 10           | IGHT TURN | _              |  |
|------------------------|---|-----------|-----------|-----------|--------------|-----------|----------------|--|
| MECEDOIND              | LEFT<br>0                                 |           | THROUGH 0 | MT        | N ON GR<br>0 | EEIN MA   | AX ON RED<br>0 |  |
| WESTBOUND<br>EASTBOUND | 80  |           | 264       |           | 0            |           | 0              |  |
| NORTHBOUND             |   |           | 1660      |           | 26           |           | 0              |  |
| SOUTHBOUND             |   |           | 1000      |           | 0            |           | 0              |  |
| SOUTHBOOND             | U   |           | U         |           | U            |           | U              |  |
|                        |   | **        | NUMBER    | OF LANES  | **           |           |                |  |
| APPROACH               | LEFT                                      | LEFT      | THROUGH   | RIGHT     | RIGHT        | L/T/R     | TOTAL          |  |
|                        | ONLY                                      | SHARED    | ONLY      | SHARED    | ONLY         | SHARED    | LANES          |  |
| WESTBOUND              | 0   | 0         | 0         | 0         | 0            | 0         | 0              |  |
| EASTBOUND              | 0   | 1         | 0         | 1         | 0            | 0         | 2              |  |
| NORTHBOUND             | 0   | 0         | 3         | 1         | 0            | 0         | 4              |  |
| SOUTHBOUND             | 0   | 0         | 0         | 0         | 0            | 0         | 0              |  |
|                        |   | ** ASSI   | GNED LAN  | IE VOLUME | IS **        |           |                |  |
| APPROACH               | LEFT                                      | LEFT      | THRO      | UGH       | RIGHT        | RIGHT     | L/T/R          |  |
|                        | ONLY                                      | SHARE     | ED ON     | ILY S     | SHARED       | ONLY      | SHARED         |  |
| WESTBOUND              | N/A                                       | N/P       | A N       | I/A       | N/A          | N/A       | N/A            |  |
| EASTBOUND              | N/A                                       | 172       | 2 N       | I/A       | 172          | N/A       | N/A            |  |
| NORTHBOUND             | N/A                                       | N/P       | A 4       | 22        | 422          | N/A       | N/A            |  |
| SOUTHBOUND             | N/A                                       | N/P       | A N       | I/A       | N/A          | N/A       | N/A            |  |
|                        |   |           |           |           |              |           |                |  |
|                        | EAST-WEST CRI                             | TICAL VO  | DLUMES    |           |              | 172       |                |  |
|                        | NORTH-SOUTH C                             | CRITICAL  | VOLUMES   |           |              | 422       |                |  |
|                        |   |           |           |           |              |           |                |  |
|                        | THE SUM OF CF                             | RITICAL V | OLUMES .  |           | • • • • • •  | 594       |                |  |
|                        | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |           |           |           |              |           |                |  |
|                        | CMA VALUE                                 |           |           |           |              | 0.352     |                |  |
|                        | LEVEL OF SERV                             | /ICE      |           |           |              | А         |                |  |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:11, 12TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   | LEFT                                      |                            | THROUGH   | * *<br>MT | R<br>IN ON GR | IGHT TURNS | S **   |
|------------|---|----------------------------|-----------|-----------|---------------|------------|--------|
| WESTBOUND  | 0   |                            | 0         | 1411      | .IV ON GA     | EEN M      | O NED  |
| EASTBOUND  | 0   |                            | 247       |           | 35            |            | 0      |
| NORTHBOUND |   |                            | 36        |           | 182           |            | 0      |
| SOUTHBOUND |   |                            | 582       |           | 0             |            | 0      |
|            |   |                            |           |           |               |            |        |
|            |   | * *                        | NUMBER    | OF LANES  | 3 **          |            |        |
| APPROACH   | LEFT                                      | LEFT                       | THROUGH   | RIGHT     | RIGHT         | L/T/R      | TOTAL  |
|            | ONLY                                      | SHARED                     | ONLY      | SHARED    | ONLY          | SHARED     | LANES  |
| WESTBOUND  | 0   | 0                          | 0         | 0         | 0             | 0          | 0      |
| EASTBOUND  | 0   | 0                          | 1         | 1         | 0             | 0          | 2      |
| NORTHBOUND | 0   | 0                          | 1         | 0         | 1             | 0          | 2      |
| SOUTHBOUND | 1   | 0                          | 2         | 0         | 0             | 0          | 3      |
|            |   | ** ASSI                    | IGNED LAN | IE VOLUME | IS **         |            |        |
| APPROACH   | LEFT                                      | LEFT                       | THRC      | UGH       | RIGHT         | RIGHT      | L/T/R  |
|            | ONLY                                      | SHARI                      | ED ON     | ILY S     | SHARED        | ONLY       | SHARED |
| WESTBOUND  | N/A                                       | N/A                        | A N       | I/A       | N/A           | N/A        | N/A    |
| EASTBOUND  | N/A                                       | N/A                        | A 1       | .41       | 141           | N/A        | N/A    |
| NORTHBOUND | N/A                                       | N/A                        | Ą         | 36        | N/A           | 182        | N/A    |
| SOUTHBOUND | 103                                       | N/A                        | A 2       | 91        | N/A           | N/A        | N/A    |
|            |   |                            |           |           |               |            |        |
|            | EAST-WEST CRI                             | ΤΤ <i>C</i> ΔΤ. <i>V</i> ( | OT.TIMES  |           |               | 141        |        |
|            | NORTH-SOUTH C                             | -                          |           |           |               | 291        |        |
|            | 1,01(111 000111 0                         | 1111111111                 | VOLOTILO  |           |               |            |        |
|            | THE SUM OF CR                             | ITICAL V                   | OLUMES .  |           |               | 432        |        |
|            | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |                            |           |           |               |            |        |
|            | CMA VALUE                                 |                            |           |           |               | 0.256      |        |
|            | LEVEL OF SERV                             | ICE                        |           |           |               | А          |        |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:12, 12TH STREET AND BROADWAY

DATE: 11/27/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   | יייסיי ד                                  |          | TUDOUGU      | * *           | IN ON GR    | RIGHT TURN | _              |  |
|------------|---|----------|--------------|---------------|-------------|------------|----------------|--|
| WESTBOUND  | LEFT<br>0                                 |          | THROUGH<br>0 | IVII          | IN ON GR    | EEEIN M    | AX ON RED<br>0 |  |
| EASTBOUND  | 163                                       |          | 283          |               | 51          |            | 0              |  |
| NORTHBOUND |   |          | 1055         |               | 45          |            | 0              |  |
| SOUTHBOUND | 51  |          | 436          |               | 0           |            | 0              |  |
|            |   |          |              |               |             |            |                |  |
|            |   | **       | NUMBER       | OF LANES      | **          |            |                |  |
| APPROACH   | LEFT                                      | LEFT     | THROUGH      | RIGHT         | RIGHT       | L/T/R      | TOTAL          |  |
|            | ONLY                                      | SHARED   | ONLY         | SHARED        | ONLY        | SHARED     | LANES          |  |
| WESTBOUND  | 0   | 0        | 0            | 0             | 0           | 0          | 0              |  |
| EASTBOUND  | 0   | 1        | 0            | 1             | 0           | 0          | 2              |  |
| NORTHBOUND |   | 0        | 1            | 1             | 0           | 0          | 2              |  |
| SOUTHBOUND | 1   | 0        | 2            | 0             | 0           | 0          | 3              |  |
|            |   | ** ASS   | IGNED LAN    | E VOLUME      | IS **       |            |                |  |
| APPROACH   | LEFT                                      | LEFT     | r THRO       | UGH           | RIGHT       | RIGHT      | L/T/R          |  |
|            | ONLY                                      | SHARI    | ED ON        | LY S          | SHARED      | ONLY       | SHARED         |  |
| WESTBOUND  | N/A                                       | N/A      | A N          | T/A           | N/A         | N/A        | N/A            |  |
| EASTBOUND  | N/A                                       | 248      | 3 N          | /A            | 248         | N/A        | N/A            |  |
| NORTHBOUND | N/A                                       | N/A      | A 5          | 50            | 550         | N/A        | N/A            |  |
| SOUTHBOUND | 51  | N/A      | A 2          | 18            | N/A         | N/A        | N/A            |  |
|            |   |          |              |               |             |            |                |  |
|            | EAST-WEST CRI                             |          |              |               |             | 248        |                |  |
|            | NORTH-SOUTH C                             | RITICAL  | VOLUMES      | • • • • • • • | • • • • • • | 601        |                |  |
|            | THE SUM OF CR                             | ITICAL V | VOLUMES .    |               |             | 849        |                |  |
|            | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |          |              |               |             |            |                |  |
|            | CMA VALUE 0.529                           |          |              |               |             |            |                |  |
|            | LEVEL OF SERV                             | ICE      |              |               |             | A          |                |  |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:13, 12TH STREET AND MAIN STREET

DATE: 11/27/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           |          | * *        | R           | IGHT TURNS | s **      |
|------------|---------------|-----------|----------|------------|-------------|------------|-----------|
|            | LEFT          |           | THROUGH  | MI         | N ON GR     | EEN M      | AX ON RED |
| WESTBOUND  | 0             |           | 0        |            | 0           |            | 0         |
| EASTBOUND  | 47            |           | 248      |            | 37          |            | 0         |
| NORTHBOUND | 0             |           | 888      |            | 47          |            | 0         |
| SOUTHBOUND | 64            |           | 536      |            | 0           |            | 0         |
|            |               | **        | NUMBER   | OF LANES   | · **        |            |           |
|            |               |           |          |            |             |            |           |
| APPROACH   | LEFT          | LEFT      | THROUGH  | RIGHT      | RIGHT       | L/T/R      | TOTAL     |
|            | ONLY          | SHARED    | ONLY     | SHARED     | ONLY        | SHARED     | LANES     |
| WESTBOUND  | 0             | 0         | 0        | 0          | 0           | 0          | 0         |
| EASTBOUND  | 0             | 1         | 1        | 1          | 0           | 0          | 3         |
| NORTHBOUND | 0             | 0         | 1        | 1          | 0           | 0          | 2         |
| SOUTHBOUND | 1             | 0         | 2        | 0          | 0           | 0          | 3         |
|            |               | ** ASSI   | GNED LAN | IF. VOLUME | :S **       |            |           |
|            |               |           |          |            | -           |            |           |
| APPROACH   | LEFT          | LEFT      | THRC     | UGH        | RIGHT       | RIGHT      | L/T/R     |
|            | ONLY          | SHARE     | ED ON    | ILY S      | SHARED      | ONLY       | SHARED    |
| WESTBOUND  | N/A           | N/A       | A N      | I/A        | N/A         | N/A        | N/A       |
| EASTBOUND  | N/A           | 111       | . 1      | .11        | 111         | N/A        | N/A       |
| NORTHBOUND | N/A           | N/A       | A 4      | 68         | 468         | N/A        | N/A       |
| SOUTHBOUND | 64            | N/A       | A 2      | 68         | N/A         | N/A        | N/A       |
|            |               |           |          |            |             |            |           |
|            |               |           |          |            |             |            |           |
|            | EAST-WEST CRI |           |          |            |             | 111        |           |
|            | NORTH-SOUTH ( | CRITICAL  | VOLUMES  |            | • • • • • • | 532        |           |
|            | THE SUM OF CF | RITICAL V | OLUMES . |            |             | 643        |           |
|            | NUMBER OF CRI | TICAL CI  | LEARANCE | INTERVAL   |             | 2*         |           |
|            | CMA VALUE     |           |          |            |             | 0.381      |           |

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Capacity used = 1350.

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LEVEL OF SERVICE ..... A

 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:14, 12TH STREET AND LOS ANGELES STREET DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    |   |              |           | * *      | R           | IGHT TURNS | s **      |  |  |
|-----------------------------|---|--------------|-----------|----------|-------------|------------|-----------|--|--|
|                             | LEFT                                      |              | THROUGH   | MI       | N ON GR     | EEN M      | AX ON RED |  |  |
| WESTBOUND                   | 0   |              | 0         |          | 0           |            | 0         |  |  |
| EASTBOUND                   | 42  |              | 238       |          | 32          |            | 0         |  |  |
| NORTHBOUND                  | 0   |              | 440       |          | 54          |            | 0         |  |  |
| SOUTHBOUND                  | 89  |              | 330       |          | 0           |            | 0         |  |  |
|                             |   | **           | NUMBER    | OF LANES | ; **        |            |           |  |  |
|                             |   |              |           |          |             | - /- /-    |           |  |  |
| APPROACH                    | LEFT                                      | LEFT         | THROUGH   |          | RIGHT       |            | TOTAL     |  |  |
|                             | ONLY                                      | SHARED       | ONLY      | SHARED   | ONLY        | SHARED     | LANES     |  |  |
| WESTBOUND                   | 0   | 0            | 0         | 0        | 0           | 0          | 0         |  |  |
| EASTBOUND                   | 0   | 1            | 2         | 1        | 0           | 0          | 4         |  |  |
| NORTHBOUND                  |   | 0            | 1         | 1        | 0           | 0          | 2         |  |  |
| SOUTHBOUND                  | 0   | 1            | 1         | 0        | 0           | 0          | 2         |  |  |
| ** ASSIGNED LANE VOLUMES ** |   |              |           |          |             |            |           |  |  |
| APPROACH                    | LEFT                                      | LEFT         | Γ THRC    | UGH      | RIGHT       | RIGHT      | L/T/R     |  |  |
|                             | ONLY                                      | SHARI        | ED ON     | ILY S    | SHARED      | ONLY       | SHARED    |  |  |
| WESTBOUND                   | N/A                                       | N/A          | A N       | I/A      | N/A         | N/A        | N/A       |  |  |
| EASTBOUND                   | N/A                                       | 78           | 3         | 78       | 78          | N/A        | N/A       |  |  |
| NORTHBOUND                  | N/A                                       | N/A          | A 2       | 47       | 247         | N/A        | N/A       |  |  |
| SOUTHBOUND                  | N/A                                       | 144          | 4 2       | 75       | N/A         | N/A        | N/A       |  |  |
|                             |   |              |           |          |             |            |           |  |  |
|                             | EAST-WEST CRI                             | יייד מאד זיי | OT TIME C |          |             | 78         |           |  |  |
|                             | NORTH-SOUTH (                             | _            |           |          |             | 336        |           |  |  |
|                             |   |              |           |          |             |            |           |  |  |
|                             | THE SUM OF CF                             | RITICAL V    | OLUMES .  |          | • • • • • • | 414        |           |  |  |
|                             | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |              |           |          |             |            |           |  |  |
|                             | CMA VALUE                                 |              |           |          |             | 0.245      |           |  |  |
|                             | LEVEL OF SERV                             | VICE         |           |          |             | А          |           |  |  |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:15, PICO BOULEVARD AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | LEFT                                      |          | THROUGH   | * *<br>MT | . F      | RIGHT TURNS | S **<br>AX ON RED |  |  |  |
|-----------------------------|---|----------|-----------|-----------|----------|-------------|-------------------|--|--|--|
| WESTBOUND                   | 18  |          | 358       | 1417      | .N ON GR | CEEIN MI    | AX ON KED         |  |  |  |
| EASTBOUND                   | 24  |          | 388       |           | 39       |             | 0                 |  |  |  |
| NORTHBOUND                  |   |          | 230       |           | 66       |             | 9                 |  |  |  |
| SOUTHBOUND                  | 40  |          | 537       |           | 105      |             | 0                 |  |  |  |
|                             |   |          |           |           |          |             |                   |  |  |  |
|                             |   | **       | NUMBER    | OF LANES  | **       |             |                   |  |  |  |
| APPROACH                    | LEFT                                      | LEFT     | THROUGH   | RIGHT     | RIGHT    | L/T/R       | TOTAL             |  |  |  |
|                             | ONLY                                      | SHARED   | ONLY      | SHARED    | ONLY     | SHARED      | LANES             |  |  |  |
| WESTBOUND                   | 0   | 1        | 0         | 1         | 0        | 0           | 2                 |  |  |  |
| EASTBOUND                   | 0   | 1        | 0         | 1         | 0        | 0           | 2                 |  |  |  |
| NORTHBOUND                  | 1   | 0        | 1         | 0         | 1        | 0           | 3                 |  |  |  |
| SOUTHBOUND                  | 1   | 0        | 1         | 1         | 0        | 0           | 3                 |  |  |  |
| ** ASSIGNED LANE VOLUMES ** |   |          |           |           |          |             |                   |  |  |  |
| APPROACH                    | LEFT                                      | LEF:     | r THRC    | UGH       | RIGHT    | RIGHT       | L/T/R             |  |  |  |
|                             | ONLY                                      | SHARI    | ED ON     | ILY S     | HARED    | ONLY        | SHARED            |  |  |  |
| WESTBOUND                   | N/A                                       | 188      | 3 N       | I/A       | 208      | N/A         | N/A               |  |  |  |
| EASTBOUND                   | N/A                                       | 215      | 5 N       | N/A 236   |          | N/A         | N/A               |  |  |  |
| NORTHBOUND                  | 98  | N/A      | A 2       | 30        | N/A      | 66          | N/A               |  |  |  |
| SOUTHBOUND                  | 40  | N/A      | A 3       | 21        | 321      | N/A         | N/A               |  |  |  |
|                             |   |          |           |           |          |             |                   |  |  |  |
|                             | EAST-WEST CRI                             | TTCAL VO | OLUMES    |           |          | 254         |                   |  |  |  |
|                             | NORTH-SOUTH C                             |          |           |           |          | 419         |                   |  |  |  |
|                             |   |          |           |           |          |             |                   |  |  |  |
|                             | THE SUM OF CR                             | ITICAL V | JOLUMES . |           |          | 673         |                   |  |  |  |
|                             | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |          |           |           |          |             |                   |  |  |  |
|                             | CMA VALUE                                 |          |           |           |          | 0.359       |                   |  |  |  |
|                             | LEVEL OF SERV                             | ICE      |           |           |          | A           |                   |  |  |  |

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:16, PICO BOULEVARD AND BROADWAY

DATE: 11/27/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | LEFT          |          | THROUGH  | * *<br>MT | R<br>N ON GR | IGHT TURN | S **<br>AX ON RED |  |  |
|-----------------------------|---------------|----------|----------|-----------|--------------|-----------|-------------------|--|--|
| WESTBOUND                   | 23            |          | 198      | 1417      | .N ON GR     | EEN M     | AX ON KED         |  |  |
| EASTBOUND                   | 98            |          | 278      |           | 0            |           | 21                |  |  |
| NORTHBOUND                  |               |          | 920      |           | 23           |           | 0                 |  |  |
| SOUTHBOUND                  |               |          | 399      |           | 60           |           | 0                 |  |  |
| 500111500115                | 30            |          | 333      |           |              |           | · ·               |  |  |
|                             |               | **       | NUMBER   | OF LANES  | **           |           |                   |  |  |
| APPROACH                    | LEFT          | LEFT     | THROUGH  | RIGHT     | RIGHT        | L/T/R     | TOTAL             |  |  |
|                             | ONLY          | SHARED   | ONLY     | SHARED    | ONLY         | SHARED    | LANES             |  |  |
| WESTBOUND                   | 1             | 0        | 0        | 1         | 0            | 0         | 2                 |  |  |
| EASTBOUND                   | 1             | 0        | 1        | 0         | 1            | 0         | 3                 |  |  |
| NORTHBOUND                  |               | 0        | 1        | 1         | 0            | 0         | 3                 |  |  |
| SOUTHBOUND                  | 1             | 0        | 1        | 1         | 0            | 0         | 3                 |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |          |          |           |              |           |                   |  |  |
| APPROACH                    | LEFT          | LEFT     | THRC     | UGH       | RIGHT        | RIGHT     | L/T/R             |  |  |
|                             | ONLY          | SHARI    | ED ON    | ILY S     | HARED        | ONLY      | SHARED            |  |  |
| WESTBOUND                   | 23            | N/A      | A N      | I/A       | 247          | N/A       | N/A               |  |  |
| EASTBOUND                   | 98            | N/A      | A 2      | 78        | 78 N/A       |           | N/A               |  |  |
| NORTHBOUND                  | 60            | N/I      | A 4      | 72        | 472          | N/A       | N/A               |  |  |
| SOUTHBOUND                  | 30            | N/A      | A 2      | 30        | 230          | N/A       | N/A               |  |  |
|                             |               |          |          |           |              |           |                   |  |  |
|                             | EAST-WEST CRI | TTCAL VO | OLUMES   |           |              | 345       |                   |  |  |
|                             | NORTH-SOUTH C |          |          |           |              | 502       |                   |  |  |
|                             |               |          |          |           |              |           |                   |  |  |
|                             | THE SUM OF CR | ITICAL V | OLUMES . |           |              | 847       |                   |  |  |
|                             | NUMBER OF CRI | TICAL CI | LEARANCE | INTERVAL  | .S           | 2*        |                   |  |  |
|                             | CMA VALUE     |          |          |           |              | 0.465     |                   |  |  |
|                             | LEVEL OF SERV | ICE      |          |           |              | A         |                   |  |  |

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:17, 17TH STREET/I-10 WB ON-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | LEFT          |          | THROUGH  | * *<br>M T | R<br>N ON GR | IGHT TURNS  | S **   |  |  |
|-----------------------------|---------------|----------|----------|------------|--------------|-------------|--------|--|--|
| WESTBOUND                   | 197           |          | 548      | 1411       | .iv Oiv Giv  | .15111 1412 | 0      |  |  |
| EASTBOUND                   | 0             |          | 0        |            | 0            |             | 0      |  |  |
| NORTHBOUND                  |               |          | 0        |            | 0            |             | 0      |  |  |
| SOUTHBOUND                  | 0             |          | 443      |            | 237          |             | 0      |  |  |
|                             |               |          |          |            |              |             |        |  |  |
|                             |               | **       | NUMBER   | OF LANES   | **           |             |        |  |  |
| APPROACH                    | LEFT          | LEFT     | THROUGH  | RIGHT      | RIGHT        | L/T/R       | TOTAL  |  |  |
|                             | ONLY          | SHARED   | ONLY     | SHARED     | ONLY         | SHARED      | LANES  |  |  |
| WESTBOUND                   | 0             | 1        | 0        | 1          | 0            | 0           | 2      |  |  |
| EASTBOUND                   | 0             | 0        | 0        | 0          | 0            | 0           | 0      |  |  |
| NORTHBOUND                  | 0             | 0        | 0        | 0          | 0            | 0           | 0      |  |  |
| SOUTHBOUND                  | 0             | 0        | 3        | 1          | 1            | 0           | 5      |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |          |          |            |              |             |        |  |  |
| APPROACH                    | LEFT          | LEFT     | THRC     | UGH        | RIGHT        | RIGHT       | L/T/R  |  |  |
|                             | ONLY          | SHARI    | ED ON    | ILY S      | HARED        | ONLY        | SHARED |  |  |
| WESTBOUND                   | N/A           | 372      | 5 N      | I/A        | 372          | N/A         | N/A    |  |  |
| EASTBOUND                   | N/A           | N/A      | A N      | I/A        | N/A          | N/A         | N/A    |  |  |
| NORTHBOUND                  | N/A           | N/A      | A N      | I/A        | N/A          | N/A         | N/A    |  |  |
| SOUTHBOUND                  | N/A           | N/A      | A 1      | .36        | 136          | 136         | N/A    |  |  |
|                             |               |          |          |            |              |             |        |  |  |
|                             | EAST-WEST CRI | TICAL VO | DLUMES   |            |              | 372         |        |  |  |
|                             | NORTH-SOUTH C | RITICAL  | VOLUMES  |            | • • • • • •  | 136         |        |  |  |
|                             | THE SUM OF CR | ITICAL V | OLUMES . |            |              | 508         |        |  |  |
|                             | NUMBER OF CRI | TICAL CI | LEARANCE | INTERVAL   | S            | 2*          |        |  |  |
|                             | CMA VALUE     |          |          |            |              | 0.271       |        |  |  |
|                             | LEVEL OF SERV | ICE      |          |            |              | А           |        |  |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:18, 18TH STREET/I-10 EB OFF-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | LEFT                                      |          | THROUGH    | * *<br>M T | . F           | RIGHT TURNS | S **<br>AX ON RED |  |  |
|-----------------------------|---|----------|------------|------------|---------------|-------------|-------------------|--|--|
| WESTBOUND                   | 0   |          | 0          | IVI I      | 15 MO M.<br>0 | CEEIN III   | O RED             |  |  |
| EASTBOUND                   | 0   |          | 1109       |            | 72            |             | 40                |  |  |
| NORTHBOUND                  |   |          | 0          |            | 199           |             | 0                 |  |  |
| SOUTHBOUND                  |   |          | 445        |            | 0             |             | 0                 |  |  |
|                             |   |          |            |            |               |             |                   |  |  |
|                             |   | * *      | NUMBER     | OF LANES   | **            |             |                   |  |  |
| APPROACH                    | LEFT                                      | LEFT     | THROUGH    | RIGHT      | RIGHT         | L/T/R       | TOTAL             |  |  |
|                             | ONLY                                      | SHARED   | ONLY       | SHARED     | ONLY          | SHARED      | LANES             |  |  |
| WESTBOUND                   | 0   | 0        | 0          | 0          | 0             | 0           | 0                 |  |  |
| EASTBOUND                   | 0   | 0        | 3          | 0          | 1             | 0           | 4                 |  |  |
| NORTHBOUND                  | 0   | 0        | 0          | 0          | 2             | 0           | 2                 |  |  |
| SOUTHBOUND                  | 1   | 0        | 3          | 0          | 0             | 0           | 4                 |  |  |
| ** ASSIGNED LANE VOLUMES ** |   |          |            |            |               |             |                   |  |  |
| APPROACH                    | LEFT                                      | LEFT     | THRC       | UGH        | RIGHT         | RIGHT       | L/T/R             |  |  |
|                             | ONLY                                      | SHARI    | ED ON      | ILY S      | HARED         | ONLY        | SHARED            |  |  |
| WESTBOUND                   | N/A                                       | N/A      | A N        | I/A        | N/A           | N/A         | N/A               |  |  |
| EASTBOUND                   | N/A                                       | N/A      | 4 3        | 370        | N/A           | 72          | N/A               |  |  |
| NORTHBOUND                  | N/A                                       | N/A      | <i>y N</i> | I/A        | N/A           | 100         | N/A               |  |  |
| SOUTHBOUND                  | 127                                       | N/A      | A 1        | .48        | N/A           | N/A         | N/A               |  |  |
|                             |   |          |            |            |               |             |                   |  |  |
|                             | EAST-WEST CRI                             | TTCAL VO | OLTIMES    |            |               | 370         |                   |  |  |
|                             | NORTH-SOUTH C                             |          |            |            |               | 227         |                   |  |  |
|                             |   |          |            |            |               |             |                   |  |  |
|                             | THE SUM OF CR                             | ITICAL V | OLUMES .   |            |               | 597         |                   |  |  |
|                             | NUMBER OF CRITICAL CLEARANCE INTERVALS 3* |          |            |            |               |             |                   |  |  |
|                             | CMA VALUE 0.335                           |          |            |            |               |             |                   |  |  |
|                             | LEVEL OF SERV                             | ICE      |            |            |               | A           |                   |  |  |

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:19, 17TH STREET/I-10 WB OFF-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | T 1010111     |           | minorian       | **       | 1/             | IGHT TURN | _              |  |  |  |
|-----------------------------|---------------|-----------|----------------|----------|----------------|-----------|----------------|--|--|--|
| WESTBOUND                   | LEFT<br>166   |           | THROUGH<br>934 | IΛI Τ    | N ON GR<br>203 | EEN M     | AX ON RED<br>0 |  |  |  |
| EASTBOUND                   | 0             |           | 934            |          | 203            |           | 0              |  |  |  |
| NORTHBOUND                  |               |           | 274            |          | 0              |           | 0              |  |  |  |
| SOUTHBOUND                  |               |           | 314            |          | 49             |           | 0              |  |  |  |
| BOOTHBOOND                  | O             |           | 311            |          | 10             |           | Ü              |  |  |  |
|                             |               | **        | NUMBER         | OF LANES | **             |           |                |  |  |  |
| APPROACH                    | LEFT          | LEFT      | THROUGH        | RIGHT    | RIGHT          | L/T/R     | TOTAL          |  |  |  |
|                             | ONLY          | SHARED    | ONLY           | SHARED   | ONLY           | SHARED    | LANES          |  |  |  |
| WESTBOUND                   | 0             | 1         | 0              | 1        | 0              | 0         | 2              |  |  |  |
| EASTBOUND                   | 0             | 0         | 0              | 0        | 0              | 0         | 0              |  |  |  |
| NORTHBOUND                  |               | 0         | 2              | 0        | 0              | 0         | 3              |  |  |  |
| SOUTHBOUND                  | 0             | 0         | 1              | 1        | 0              | 0         | 2              |  |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |           |                |          |                |           |                |  |  |  |
| APPROACH                    | LEFT          | LEFT      | r THRC         | UGH      | RIGHT          | RIGHT     | L/T/R          |  |  |  |
|                             | ONLY          | SHARI     | ED ON          | ILY S    | HARED          | ONLY      | SHARED         |  |  |  |
| WESTBOUND                   | N/A           | 652       | 2 N            | I/A      | 652            | N/A       | N/A            |  |  |  |
| EASTBOUND                   | N/A           | N/B       | A N            | I/A      | N/A            | N/A       | N/A            |  |  |  |
| NORTHBOUND                  | 37            | N/B       | A 1            | .37      | N/A            | N/A       | N/A            |  |  |  |
| SOUTHBOUND                  | N/A           | N/A       | A 1            | .82      | 182            | N/A       | N/A            |  |  |  |
|                             |               |           |                |          |                |           |                |  |  |  |
|                             | EAST-WEST CRI | TICAL VO  | DLUMES         |          |                | 652       |                |  |  |  |
|                             | NORTH-SOUTH C | CRITICAL  | VOLUMES        |          |                | 219       |                |  |  |  |
|                             |               |           |                |          |                |           |                |  |  |  |
|                             | THE SUM OF CF | RITICAL V | OLUMES .       |          | • • • • • •    | 871       |                |  |  |  |
|                             | NUMBER OF CRI | TICAL CI  | LEARANCE       | INTERVAL | S              | 2*        |                |  |  |  |
|                             | CMA VALUE     | 0.481     |                |          |                |           |                |  |  |  |
|                             | LEVEL OF SERV | VICE      |                |          |                | А         |                |  |  |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION: 20, 18TH STREET/I-10 EB ON-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: AM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | T DEM                                     |          | mun ou ou | * *      | R<br>IN ON GR | IGHT TURNS | -              |  |  |
|-----------------------------|---|----------|-----------|----------|---------------|------------|----------------|--|--|
| WESTBOUND                   | LEFT<br>0                                 |          | THROUGH 0 | MI       | .n on gr<br>0 | EEN MA     | AX ON RED<br>0 |  |  |
| EASTBOUND                   | 542                                       |          | 58        |          | 22            |            | 0              |  |  |
| NORTHBOUND                  | _   |          | 505       |          | 21            |            | 0              |  |  |
| SOUTHBOUND                  |   |          | 290       |          | 0             |            | 0              |  |  |
| BOOTHBOOND                  | 32  |          | 250       |          | O             |            | O              |  |  |
|                             |   | **       | NUMBER    | OF LANES | S **          |            |                |  |  |
| APPROACH                    | LEFT                                      | LEFT     | THROUGH   | RIGHT    | RIGHT         | L/T/R      | TOTAL          |  |  |
|                             | ONLY                                      | SHARED   | ONLY      | SHARED   | ONLY          | SHARED     | LANES          |  |  |
| WESTBOUND                   | 0   | 0        | 0         | 0        | 0             | 0          | 0              |  |  |
| EASTBOUND                   | 1   | 0        | 1         | 1        | 0             | 0          | 3              |  |  |
| NORTHBOUND                  |   | 0        | 1         | 1        | 0             | 0          | 2              |  |  |
| SOUTHBOUND                  | 1   | 0        | 2         | 0        | 0             | 0          | 3              |  |  |
| ** ASSIGNED LANE VOLUMES ** |   |          |           |          |               |            |                |  |  |
| APPROACH                    | LEFT                                      | LEFT     | THRO      | UGH      | RIGHT         | RIGHT      | L/T/R          |  |  |
|                             | ONLY                                      | SHARE    | D ON      | LY S     | SHARED        | ONLY       | SHARED         |  |  |
| WESTBOUND                   | N/A                                       | N/A      | A N       | /A       | N/A           | N/A        | N/A            |  |  |
| EASTBOUND                   | 542                                       | N/A      | A         | 40       | 40            | N/A        | N/A            |  |  |
| NORTHBOUND                  | N/A                                       | N/A      | A 2       | 63       | 263           | N/A        | N/A            |  |  |
| SOUTHBOUND                  | 32  | N/P      | 1         | 45       | N/A           | N/A        | N/A            |  |  |
|                             |   |          |           |          |               |            |                |  |  |
|                             | EAST-WEST CRI                             | TICAL VO | DLUMES    |          |               | 542        |                |  |  |
|                             | NORTH-SOUTH C                             | RITICAL  | VOLUMES   |          |               | 295        |                |  |  |
|                             |   |          |           |          |               |            |                |  |  |
|                             | THE SUM OF CR                             | ITICAL V | OLUMES .  |          | • • • • • •   | 837        |                |  |  |
|                             | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |          |           |          |               |            |                |  |  |
|                             | CMA VALUE                                 |          |           |          |               | 0.458      |                |  |  |
|                             | LEVEL OF SERV                             | ICE      |           |          |               | А          |                |  |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:1, OLYMPIC BOULEVARD & HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           |          | *             | * 1     | RIGHT TURNS | s **      |
|------------|---------------|-----------|----------|---------------|---------|-------------|-----------|
|            | LEFT          |           | THROUGH  | M             | IN ON G | REEN MA     | AX ON RED |
| WESTBOUND  | 57            |           | 1319     |               | 139     |             | 0         |
| EASTBOUND  | 9             |           | 1088     |               | 146     |             | 0         |
| NORTHBOUND | 43            |           | 196      |               | 28      |             | 0         |
| SOUTHBOUND | 44            |           | 868      |               | 148     |             | 4         |
|            |               |           |          |               |         |             |           |
|            |               | * *       | NUMBER   | OF LANE       | S **    |             |           |
| APPROACH   | LEFT          | LEFT      | THROUGH  | RIGHT         | RIGHT   | L/T/R       | TOTAL     |
|            | ONLY          | SHARED    | ONLY     | SHARED        | ONLY    | SHARED      | LANES     |
| WESTBOUND  | 0             | 1         | 1        | 1             | 0       | 0           | 3         |
| EASTBOUND  | 0             | 1         | 1        | 1             | 0       | 0           | 3         |
| NORTHBOUND | 1             | 0         | 1        | 1             | 0       | 0           | 3         |
| SOUTHBOUND | 1             | 0         | 2        | 0             | 1       | 0           | 4         |
|            |               |           |          |               |         |             |           |
|            |               | ** ASSI   | GNED LAN | IE VOLUM      | ES **   |             |           |
| APPROACH   | LEFT          | LEFT      | THRO     | UGH           | RIGHT   | RIGHT       | L/T/R     |
|            | ONLY          | SHARE     | D ON     | ILY           | SHARED  | ONLY        | SHARED    |
| WESTBOUND  | N/A           | 315       | 6        | 00            | 600     | N/A         | N/A       |
| EASTBOUND  | N/A           | 384       | . 4      | :29           | 429     | N/A         | N/A       |
| NORTHBOUND | 43            | N/A       | . 1      | .12           | 112     | N/A         | N/A       |
| SOUTHBOUND | 44            | N/A       | 4        | 34            | N/A     | 148         | N/A       |
|            |               |           |          |               |         |             |           |
|            |               |           |          |               |         |             |           |
|            | EAST-WEST CRI |           |          |               |         | 609         |           |
|            | NORTH-SOUTH C | CRITICAL  | VOLUMES  | • • • • • • • |         | 477         |           |
|            | THE SUM OF CR | RITICAL V | OLUMES . |               |         | 1086        |           |
|            |               |           |          |               |         |             |           |
|            | NUMBER OF CRI | TICAL CL  | EARANCE  | INTERVA       | LS      | 2*          |           |
|            | CMA VALUE     |           |          |               |         | 0.704       |           |

<sup>-----</sup>

Capacity used = 1350.

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LEVEL OF SERVICE ..... C

 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:2, OLYMPIC BOULEVARD & BROADWAY

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |           |         |           | * *       | R       | IGHT TURN | s **      |
|------------|-----------|---------|-----------|-----------|---------|-----------|-----------|
|            | LEFT      |         | THROUGH   | MI        | N ON GR | EEN M     | AX ON RED |
| WESTBOUND  | 36        |         | 1228      |           | 96      |           | 0         |
| EASTBOUND  | 109       |         | 969       |           | 36      |           | 0         |
| NORTHBOUND | 134       |         | 777       |           | 106     |           | 0         |
| SOUTHBOUND | 37        |         | 770       |           | 111     |           | 0         |
|            |           | **      | NUMBER    | OF LANES  | ; **    |           |           |
| APPROACH   | LEFT      | LEFT    | THROUGH   | RIGHT     | RIGHT   | L/T/R     | TOTAL     |
|            | ONLY      | SHARED  | ONLY      | SHARED    | ONLY    | SHARED    | LANES     |
| WESTBOUND  | 0         | 1       | 1         | 1         | 0       | 0         | 3         |
| EASTBOUND  | 0         | 1       | 1         | 1         | 0       | 0         | 3         |
| NORTHBOUND | 1         | 0       | 1         | 1         | 0       | 0         | 3         |
| SOUTHBOUND | 1         | 0       | 1         | 1         | 0       | 0         | 3         |
|            | ,         | ** ASS  | IGNED LAN | IE VOLUME | S **    |           |           |
| APPROACH   | LEFT      | LEF'    | r THRC    | UGH       | RIGHT   | RIGHT     | L/T/R     |
|            | ONLY      | SHAR    | ED ON     | ILY S     | SHARED  | ONLY      | SHARED    |
| WESTBOUND  | N/A       | 35'     | 7 5       | 02        | 502     | N/A       | N/A       |
| EASTBOUND  | 109       | N/2     | A 5       | 02        | 502     | N/A       | N/A       |
| NORTHBOUND | 134       | N/2     | A 4       | 42        | 442     | N/A       | N/A       |
| SOUTHBOUND | 37        | N/Z     | A 4       | 40        | 440     | N/A       | N/A       |
|            |           |         |           |           |         |           |           |
|            |           |         |           |           |         |           |           |
| EAST-      | WEST CRIT | CTCAL V | OLUMES    |           |         | 611       |           |

| EAST-WEST CRITICAL VOLUMES             | 611   |
|--|-------|
| NORTH-SOUTH CRITICAL VOLUMES           | 574   |
| THE SUM OF CRITICAL VOLUMES            | 1185  |
| NUMBER OF CRITICAL CLEARANCE INTERVALS | 2*    |
| CMA VALUE                              | 0.778 |
| LEVEL OF SERVICE                       | С     |

 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

Capacity used = 1350.

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INTERSECTION: 3, US-110 SB OFF-RAMP AND BLAINE STREET/CONNECTICUT STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH                    | T 131300      |          | munoudu      | * *      | I.             | IGHT TURN  |                  |  |  |
|-----------------------------|---------------|----------|--------------|----------|----------------|------------|------------------|--|--|
| WESTBOUND                   | LEFT<br>264   |          | THROUGH<br>0 | IVI      | IN ON GR<br>89 | EEEN M     | AX ON RED<br>140 |  |  |
| EASTBOUND                   | 0             |          | 0            |          | 32             |            | 0                |  |  |
| NORTHBOUND                  | 0             |          | 0            |          | 0              |            | 0                |  |  |
| SOUTHBOUND                  | 0             |          | 523          |          | 37             |            | 0                |  |  |
|                             |               |          |              |          |                |            |                  |  |  |
|                             |               | **       | NUMBER       | OF LANES | 3 **           |            |                  |  |  |
| APPROACH                    | LEFT          | LEFT     | THROUGH      | RIGHT    | RIGHT          | L/T/R      | TOTAL            |  |  |
|                             | ONLY          | SHARED   | ONLY         | SHARED   | ONLY           | SHARED     | LANES            |  |  |
| WESTBOUND                   | 0             | 1        | 0            | 0        | 2              | 0          | 3                |  |  |
| EASTBOUND                   | 0             | 0        | 0            | 0        | 1              | 0          | 1                |  |  |
| NORTHBOUND                  |               | 0        | 0            | 0        | 0              | 0          | 0                |  |  |
| SOUTHBOUND                  | 0             | 0        | 1            | 1        | 0              | 0          | 2                |  |  |
| ** ASSIGNED LANE VOLUMES ** |               |          |              |          |                |            |                  |  |  |
| APPROACH                    | LEFT          | LEF"     | г THRO       | UGH      | RIGHT          | RIGHT      | L/T/R            |  |  |
|                             | ONLY          | SHARI    | ED ON        | LY S     | SHARED         | ONLY       | SHARED           |  |  |
| WESTBOUND                   | N/A           | 264      | 4 N          | /A       | N/A            | 44         | N/A              |  |  |
| EASTBOUND                   | N/A           | N/I      | N A          | T/A      | N/A            | 32         | N/A              |  |  |
| NORTHBOUND                  | N/A           | N/I      | N A          | T/A      | N/A            | N/A        | N/A              |  |  |
| SOUTHBOUND                  | N/A           | N/Z      | A 2          | 80       | 280            | N/A        | N/A              |  |  |
|                             |               |          |              |          |                |            |                  |  |  |
|                             | EAST-WEST CRI |          |              |          |                | 296<br>280 |                  |  |  |
|                             | THE SUM OF CR | ITICAL V | VOLUMES .    |          |                | 576        |                  |  |  |
|                             | NUMBER OF CRI | 3*       |              |          |                |            |                  |  |  |
|                             | CMA VALUE     |          | 0.323        |          |                |            |                  |  |  |
|                             | LEVEL OF SERV | ICE      |              |          |                | A          |                  |  |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION: 4, 11TH STREET AND BLAINE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH     | T DD0        |           | min oligii     | * *      | 1             | IGHT TURN | _              |
|--------------|--------------|-----------|----------------|----------|---------------|-----------|----------------|
| WESTBOUND    | LEFT<br>489  |           | THROUGH<br>366 | MI       | IN ON GR<br>0 | EEN M     | AX ON RED<br>0 |
| EASTBOUND    | 0            |           | 85             |          | 301           |           | 0              |
| NORTHBOUND   | -            |           | 0              |          | 0             |           | 0              |
| SOUTHBOUND   |              |           | 535            |          | 44            |           | 0              |
| 500111500115 | 220          |           | 333            |          |               |           | · ·            |
|              |              | * *       | NUMBER         | OF LANES | 3 **          |           |                |
| APPROACH     | LEFT         | LEFT      | THROUGH        | RIGHT    | RIGHT         | L/T/R     | TOTAL          |
|              | ONLY         | SHARED    | ONLY           | SHARED   | ONLY          | SHARED    | LANES          |
| WESTBOUND    | 0            | 1         | 1              | 0        | 0             | 0         | 2              |
| EASTBOUND    | 0            | 0         | 1              | 0        | 1             | 0         | 2              |
| NORTHBOUND   | 0            | 0         | 0              | 0        | 0             | 0         | 0              |
| SOUTHBOUND   | 1            | 1         | 0              | 1        | 0             | 0         | 3              |
|              |              | ** ASSI   | GNED LAN       | E VOLUME | IS **         |           |                |
| APPROACH     | LEFT         | LEFT      | THRO           | UGH      | RIGHT         | RIGHT     | L/T/R          |
|              | ONLY         | SHARE     | D ON           | LY S     | SHARED        | ONLY      | SHARED         |
| WESTBOUND    | 489          | N/A       | . 3            | 66       | N/A           | N/A       | N/A            |
| EASTBOUND    | N/A          | N/A       | A.             | 85       | N/A           | 301       | N/A            |
| NORTHBOUND   | N/A          | N/A       | A N            | /A       | N/A           | N/A       | N/A            |
| SOUTHBOUND   | 220          | N/A       | . 2            | 90       | 290           | N/A       | N/A            |
|              | EAST-WEST CR |           |                |          |               | 790       |                |
|              | NORTH-SOUTH  | CRITICAL  | VOLUMES        |          | • • • • • •   | 290       |                |
|              | THE SUM OF C | RITICAL V | OLUMES .       |          |               | 1080      |                |
|              | NUMBER OF CR | ITICAL CI | LEARANCE       | INTERVAL | .S            | 3*        |                |
|              |              |           |                |          |               |           |                |
|              | CMA VALUE    |           |                |          |               | 0.700     |                |

<sup>-----</sup>

LEVEL OF SERVICE .....

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation. Eastbound and Westbound approaches have opposed signal phases.

INTERSECTION:5, 11TH STREET/CHICK HEARN COURT AND CHERRY STREET/US-110 NB ON-RAMP

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

### \*\* INPUT VOLUMES \*\*

| APPROACH   |      |        |           | * *       | k       | RIGHT TUR | NS **      |
|------------|------|--------|-----------|-----------|---------|-----------|------------|
|            | LEFT |        | THROUGH   | M         | IN ON ( | GREEN     | MAX ON RED |
| WESTBOUND  | 26   |        | 1024      |           | 61      | б         | 0          |
| EASTBOUND  | 46   |        | 246       |           | (       | 6         | 0          |
| NORTHBOUND | 235  |        | 399       |           | 4       | 5         | 205        |
| SOUTHBOUND | 0    |        | 0         |           |         | 0         | 0          |
|            |      |        |           |           |         |           |            |
|            |      | **     | NUMBER    | OF LANES  | 3 **    |           |            |
| APPROACH   | LEFT | LEFT   | THROUGH   | RIGHT     | RIGH'   | T L/T/R   | TOTAL      |
|            | ONLY | SHARED | ONLY      | SHARED    | ONL     | Y SHARED  | LANES      |
| WESTBOUND  | 1    | 0      | 2         | 0         | 1       | 0         | 4          |
| EASTBOUND  | 0    | 1      | 0         | 1         | 0       | 0         | 2          |
| NORTHBOUND | 1    | 0      | 1         | 0         | 2       | 0         | 4          |
| SOUTHBOUND | 0    | 0      | 0         | 0         | 0       | 0         | 0          |
|            |      | ** 700 | IGNED LAN | IE VOLUME | 7C **   |           |            |
|            |      | "" ASS | TGNED LAN | IE VOLUME | 72      |           |            |
| APPROACH   | LEFT | LEF'   | T THRC    | UGH       | RIGHT   | RIGHT     | L/T/R      |
|            | ONLY | SHAR   | ED ON     | ILY S     | SHARED  | ONLY      | SHARED     |
| WESTBOUND  | 26   | N/L    | A 5       | 12        | N/A     | 616       | N/A        |
| EASTBOUND  | 46   | N/     | A N       | I/A       | 252     | N/A       | N/A        |
| NORTHBOUND | 235  | N/L    | A 3       | 99        | N/A     | 22        | N/A        |
| SOUTHBOUND | N/A  | N/     | A N       | I/A       | N/A     | N/A       | N/A        |
|            |      |        |           |           |         |           |            |

| EAST-WEST CRITICAL VOLUMES             |       |
|--|-------|
| THE SUM OF CRITICAL VOLUMES            | 1061  |
| NUMBER OF CRITICAL CLEARANCE INTERVALS | 2*    |
| CMA VALUE                              | 0.686 |
| LEVEL OF SERVICE                       | В     |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

Capacity used = 1350.

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INTERSECTION:6, 11TH STREET AND OLIVE AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH   | T 121200      |                             | munoudu     | * *           | I               | IGHT TURN |                |
|------------|---------------|-----------------------------|-------------|---------------|-----------------|-----------|----------------|
| WESTBOUND  | LEFT<br>0     |                             | THROUGH 735 | IVI           | IN ON GR<br>105 | EEEN M    | AX ON RED<br>0 |
| EASTBOUND  | 0             |                             | 0           |               | 0               |           | 0              |
| NORTHBOUND | 162           |                             | 1053        |               | 0               |           | 0              |
| SOUTHBOUND | 0             |                             | 0           |               | 0               |           | 0              |
|            |               |                             |             |               |                 |           |                |
|            |               | * *                         | NUMBER      | OF LANES      | 5 **            |           |                |
| APPROACH   | LEFT          | LEFT                        | THROUGH     | RIGHT         | RIGHT           | L/T/R     | TOTAL          |
|            | ONLY          | SHARED                      | ONLY        | SHARED        | ONLY            | SHARED    | LANES          |
| WESTBOUND  | 0             | 0                           | 2           | 0             | 1               | 0         | 3              |
| EASTBOUND  | 0             | 0                           | 0           | 0             | 0               | 0         | 0              |
| NORTHBOUND | 0             | 1                           | 3           | 0             | 0               | 0         | 4              |
| SOUTHBOUND | 0             | 0                           | 0           | 0             | 0               | 0         | 0              |
|            |               | ** ASS                      | IGNED LAN   | E VOLUME      | ES **           |           |                |
| APPROACH   | LEFT          | LEF:                        | r THRC      | UGH           | RIGHT           | RIGHT     | L/T/R          |
|            | ONLY          | SHARI                       | ED ON       | LY S          | SHARED          | ONLY      | SHARED         |
| WESTBOUND  | N/A           | N/Z                         | A 3         | 68            | N/A             | 105       | N/A            |
| EASTBOUND  | N/A           | N/I                         | A N         | /A            | N/A             | N/A       | N/A            |
| NORTHBOUND | •             | 304                         | 4 3         | 04            | N/A             | N/A       | N/A            |
| SOUTHBOUND | N/A           | N/Z                         | N A         | I/A           | N/A             | N/A       | N/A            |
|            |               |                             |             |               |                 |           |                |
|            | EAST-WEST CRI |                             |             |               |                 | 368       |                |
|            | NORTH-SOUTH C | RITICAL                     | VOLUMES     | • • • • • • • | • • • • • •     | 304       |                |
|            | THE SUM OF CR | THE SUM OF CRITICAL VOLUMES |             |               |                 |           |                |
|            | NUMBER OF CRI | TICAL C                     | LEARANCE    | INTERVAI      | LS              | 2*        |                |
|            | CMA VALUE     |                             |             |               |                 | 0.398     |                |
|            | LEVEL OF SERV | ICE                         |             |               |                 | A         |                |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION: 7, 11TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH               |               |           |             | **        | 11             | IGHT TURN | _              |
|------------------------|---------------|-----------|-------------|-----------|----------------|-----------|----------------|
| MECEDOIND              | LEFT<br>109   |           | THROUGH 712 | M⊥        | N ON GR<br>170 | EEN M     | AX ON RED<br>0 |
| WESTBOUND<br>EASTBOUND | 0             |           | 7 1 2       |           | 170            |           | 0              |
| NORTHBOUND             |               |           | 145         |           | 0              |           | 0              |
| SOUTHBOUND             |               |           | 858         |           | 120            |           | 0              |
| 500111500115           | · ·           |           | 030         |           | 120            |           | · ·            |
|                        |               | **        | NUMBER      | OF LANES  | **             |           |                |
| APPROACH               | LEFT          | LEFT      | THROUGH     | _         | RIGHT          | L/T/R     | TOTAL          |
|                        | ONLY          | SHARED    | ONLY        |           | ONLY           | SHARED    | LANES          |
| WESTBOUND              | 1             | 0         | 1           | 1         | 0              | 0         | 3              |
| EASTBOUND              | 0             | 0         | 0           | 0         | 0              | 0         | 0              |
| NORTHBOUND             |               | 0         | 2           | 0         | 0              | 0         | 3              |
| SOUTHBOUND             | 0             | 0         | 1           | 1         | 0              | 0         | 2              |
|                        |               | ** ASS    | IGNED LAN   | IE VOLUME | S **           |           |                |
| APPROACH               | LEFT          | LEF:      | r THRC      | UGH       | RIGHT          | RIGHT     | L/T/R          |
|                        | ONLY          | SHARI     | ED ON       | ILY S     | HARED          | ONLY      | SHARED         |
| WESTBOUND              | 109           | N/Z       | A 4         | 41        | 441            | N/A       | N/A            |
| EASTBOUND              | N/A           | N/I       |             | -         | N/A            | N/A       | N/A            |
| NORTHBOUND             | 5             | N/I       |             | 72        | N/A            | N/A       | N/A            |
| SOUTHBOUND             | N/A           | N/Z       | A 4         | :89       | 489            | N/A       | N/A            |
|                        |               |           |             |           |                |           |                |
|                        | EAST-WEST CRI | TICAL V   | OLUMES      |           |                | 441       |                |
|                        | NORTH-SOUTH C | CRITICAL  | VOLUMES     |           | • • • • • •    | 494       |                |
|                        | THE SUM OF CR | RITICAL V | VOLUMES .   |           |                | 935       |                |
|                        | NUMBER OF CRI | TICAL C   | LEARANCE    | INTERVAL  | S              | 2*        |                |
|                        | CMA VALUE     |           |             |           |                | 0.593     |                |
|                        | LEVEL OF SERV | 7ICE      |             |           |                | А         |                |

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Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:8, 11TH STREET AND BROADWAY

DATE: 11/27/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH   |              |            |           | *             | *      | RIGHT  | TURNS    | **       |
|------------|--------------|------------|-----------|---------------|--------|--------|----------|----------|
|            | LEFT         |            | THROUGH   | M             | IIN ON | GREEN  | MA       | X ON RED |
| WESTBOUND  | 120          |            | 638       |               | 7      | 6      |          | 0        |
| EASTBOUND  | 0            |            | 0         |               |        | 0      |          | 0        |
| NORTHBOUND | 284          |            | 963       |               |        | 0      |          | 0        |
| SOUTHBOUND | 0            |            | 802       |               | 8      | 32     |          | 0        |
|            |              | **         | NUMBER    | OF LANE       | S **   |        |          |          |
| APPROACH   | LEFT         | LEFT       | THROUGH   | RIGHT         | RIGH   | IT L   | /T/R     | TOTAL    |
|            | ONLY         | SHARED     | ONLY      | SHARED        | ONL    | Y SHA  | ARED     | LANES    |
| WESTBOUND  | 0            | 1          | 1         | 1             | 0      | (      | )        | 3        |
| EASTBOUND  | 0            | 0          | 0         | 0             | 0      | (      | )        | 0        |
| NORTHBOUND | 1            | 0          | 2         | 0             | 0      | (      | )        | 3        |
| SOUTHBOUND | 0            | 0          | 1         | 1             | 0      | (      | )        | 2        |
|            |              | ** ASS     | IGNED LAI | NE VOLUM      | IES ** |        |          |          |
| APPROACH   | LEFT         | LEFT       | r THR     | OUGH          | RIGHT  | r RIC  | GHT      | L/T/R    |
|            | ONLY         | SHARI      | ED OI     | NLY           | SHARED | O      | 1LY      | SHARED   |
| WESTBOUND  | N/A          | 278        | 3 :       | 278           | 278    | 1      | N/A      | N/A      |
| EASTBOUND  | N/A          | N/A        |           | N/A           | N/A    | 1      | N/A      | N/A      |
| NORTHBOUND | 284          | N/A        | . A       | 482           | N/A    | 1      | N/A      | N/A      |
| SOUTHBOUND | N/A          | N/A        | A .       | 442           | 442    | 1      | N/A      | N/A      |
|            |              |            |           |               |        |        |          |          |
|            |              |            |           |               |        |        | _        |          |
|            | EAST-WEST CR |            |           |               |        |        |          |          |
|            | NORTH-SOUTH  | CRITICAL   | VOLUMES   | • • • • • • • |        | . 726  | <b>-</b> |          |
|            | THE SUM OF C | CRITICAL V | VOLUMES   |               |        | . 1004 | 4        |          |

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2\*

CMA VALUE ..... 0.644

LEVEL OF SERVICE .....

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize *}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:9, 11TH STREET AND MAIN STREET

DATE: 11/27/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH   |              |           |           | *        | 1             | RIGHT TUR |            |
|------------|--------------|-----------|-----------|----------|---------------|-----------|------------|
|            | LEFT         |           | THROUGH   | M.       | IN ON G       | REEN      | MAX ON RED |
| WESTBOUND  | 134          |           | 504       |          | 124           |           | 0          |
| EASTBOUND  | 0            |           | 0         |          | 0             |           | 0          |
| NORTHBOUND | 103          |           | 1126      |          | 0             |           | 0          |
| SOUTHBOUND | 0            |           | 1027      |          | 233           |           | 0          |
|            |              | * *       | NUMBER    | OF LANE  | S **          |           |            |
| APPROACH   | LEFT         | LEFT      | THROUGH   | RIGHT    | RIGHT         | L/T/R     | TOTAL      |
|            | ONLY         | SHARED    | ONLY      | SHARED   | ONLY          | SHARED    | LANES      |
| WESTBOUND  | 0            | 1         | 0         | 1        | 0             | 0         | 2          |
| EASTBOUND  | 0            | 0         | 0         | 0        | 0             | 0         | 0          |
| NORTHBOUND | 1            | 0         | 2         | 0        | 0             | 0         | 3          |
| SOUTHBOUND | 0            | 0         | 1         | 1        | 0             | 0         | 2          |
|            |              | ** ASS    | IGNED LAI | NE VOLUM | ES **         |           |            |
| APPROACH   | LEFT         | LEF:      | Γ THR(    | OUGH     | RIGHT         | RIGHT     | L/T/R      |
|            | ONLY         | SHARI     | ED OI     | NLY :    | SHARED        | ONLY      | SHARED     |
| WESTBOUND  | N/A          | 382       | l 1       | N/A      | 381           | N/A       | N/A        |
| EASTBOUND  | N/A          | N/A       | A 1       | N/A      | N/A           | N/A       | N/A        |
| NORTHBOUND | 103          | N/A       | . A       | 563      | N/A           | N/A       | N/A        |
| SOUTHBOUND | N/A          | N/A       | A (       | 530      | 630           | N/A       | N/A        |
|            |              |           |           |          |               |           |            |
|            | EAST-WEST CR | ITICAL VO | OLUMES .  |          |               | 381       |            |
|            | NORTH-SOUTH  |           |           |          | • • • • • • • | 733       |            |
|            | THE SUM OF C | RITICAL V | JOLUMES   |          |               | 1114      |            |

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2\*

CMA VALUE ..... 0.725

LEVEL OF SERVICE ..... C

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Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:10, 12TH STREET AND OLIVE STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH   |               |           |           | * *       | R       | IGHT TURNS | s **      |
|------------|---------------|-----------|-----------|-----------|---------|------------|-----------|
|            | LEFT          |           | THROUGH   | MI        | N ON GR | EEN M      | AX ON RED |
| WESTBOUND  | 0             |           | 0         |           | 0       |            | 0         |
| EASTBOUND  | 70            |           | 242       |           | 0       |            | 0         |
| NORTHBOUND | 0             |           | 1091      |           | 39      |            | 0         |
| SOUTHBOUND | 0             |           | 0         |           | 0       |            | 0         |
|            |               | **        | NUMBER    | OF LANES  | **      |            |           |
| APPROACH   | LEFT          | LEFT      | THROUGH   | RIGHT     | RIGHT   | L/T/R      | TOTAL     |
|            | ONLY          | SHARED    | ONLY      | SHARED    | ONLY    | SHARED     | LANES     |
| WESTBOUND  | 0             | 0         | 0         | 0         | 0       | 0          | 0         |
| EASTBOUND  | 0             | 1         | 0         | 1         | 0       | 0          | 2         |
| NORTHBOUND | 0             | 0         | 3         | 1         | 0       | 0          | 4         |
| SOUTHBOUND | 0             | 0         | 0         | 0         | 0       | 0          | 0         |
|            |               | ** ASS    | IGNED LAN | IE VOLUME | S **    |            |           |
| APPROACH   | LEFT          | LEF'      | r THRC    | UGH       | RIGHT   | RIGHT      | L/T/R     |
|            | ONLY          | SHAR      | ED ON     | ILY S     | HARED   | ONLY       | SHARED    |
| WESTBOUND  | N/A           | N/I       |           | I/A       | N/A     | N/A        | N/A       |
| EASTBOUND  | N/A           | 15        |           | T/A       | 156     | N/A        | N/A       |
| NORTHBOUND | N/A           | N/I       | A 2       | 82        | 282     | N/A        | N/A       |
| SOUTHBOUND | N/A           | N/I       | A N       | I/A       | N/A     | N/A        | N/A       |
|            | EAST-WEST CRI |           |           |           |         | 156<br>282 |           |
|            | THE SUM OF C  | RITICAL ' | VOLUMES . |           |         | 438        |           |
|            | NUMBER OF CR  | ITICAL C  | LEARANCE  | INTERVAL  | S       | 2*         |           |
|            | CMA VALUE     |           |           |           |         | 0.260      |           |
|            | LEVEL OF SERV | /ICE      |           |           |         | А          |           |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:11, 12TH STREET AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH               |               |           |              | **        | 10           | IGHT TURN | _              |
|------------------------|---------------|-----------|--------------|-----------|--------------|-----------|----------------|
| MECHDOIND              | LEFT          |           | THROUGH<br>0 | MΙ        | N ON GR<br>0 | EEN M     | AX ON RED<br>0 |
| WESTBOUND<br>EASTBOUND | 0             |           | 195          |           | 55           |           | 0              |
| NORTHBOUND             |               |           | 134          |           | 232          |           | 0              |
| SOUTHBOUND             | -             |           | 924          |           | 232          |           | 0              |
| BOOTHBOOND             | 11,           |           | 221          |           | O            |           | Ü              |
|                        |               | **        | NUMBER       | OF LANES  | **           |           |                |
| APPROACH               | LEFT          | LEFT      | THROUGH      | RIGHT     | RIGHT        | L/T/R     | TOTAL          |
|                        | ONLY          | SHARED    | ONLY         | SHARED    | ONLY         | SHARED    | LANES          |
| WESTBOUND              | 0             | 0         | 0            | 0         | 0            | 0         | 0              |
| EASTBOUND              | 0             | 0         | 1            | 1         | 0            | 0         | 2              |
| NORTHBOUND             |               | 0         | 1            | 0         | 1            | 0         | 2              |
| SOUTHBOUND             | 1             | 0         | 2            | 0         | 0            | 0         | 3              |
|                        |               | ** ASS    | IGNED LAN    | IE VOLUME | S **         |           |                |
| APPROACH               | LEFT          | LEF:      | THRO         | UGH       | RIGHT        | RIGHT     | L/T/R          |
|                        | ONLY          | SHARI     | ED ON        | ILY S     | HARED        | ONLY      | SHARED         |
| WESTBOUND              | N/A           | N/Z       | A N          | I/A       | N/A          | N/A       | N/A            |
| EASTBOUND              | N/A           | N/I       | A 1          | .25       | 125          | N/A       | N/A            |
| NORTHBOUND             | •             | N/I       |              | .34       | N/A          | 232       | N/A            |
| SOUTHBOUND             | 117           | N/Z       | A 4          | 62        | N/A          | N/A       | N/A            |
|                        |               |           |              |           |              |           |                |
|                        | EAST-WEST CRI | TICAL V   | OLUMES       |           |              | 125       |                |
|                        | NORTH-SOUTH C | CRITICAL  | VOLUMES      |           |              | 462       |                |
|                        |               |           |              |           |              |           |                |
|                        | THE SUM OF CF | RITICAL V | VOLUMES .    |           | • • • • • •  | 587       |                |
|                        | NUMBER OF CRI | TICAL C   | LEARANCE     | INTERVAL  | S            | 2*        |                |
|                        | CMA VALUE     |           |              |           |              | 0.348     |                |
|                        | LEVEL OF SERV | 7ICE      |              |           |              | А         |                |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:12, 12TH STREET AND BROADWAY

DATE: 11/27/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH   |              |           |           | * *       | ł ·    | RIGHT          | TURNS             | **       |
|------------|--------------|-----------|-----------|-----------|--------|----------------|-------------------|----------|
|            | LEFT         |           | THROUGH   | M         | IN ON  | GREEN          | MAX               | X ON RED |
| WESTBOUND  | 0            |           | 0         |           |        | 0              |                   | 0        |
| EASTBOUND  | 187          |           | 284       |           | 11     | 1              |                   | 0        |
| NORTHBOUND | 0            |           | 1124      |           | 4      | 3              |                   | 0        |
| SOUTHBOUND | 59           |           | 847       |           |        | 0              |                   | 0        |
|            |              | **        | NUMBER    | OF LANES  | 3 **   |                |                   |          |
| APPROACH   | LEFT         | LEFT      | THROUGH   | RIGHT     | RIGH   | T L/           | T/R               | TOTAL    |
|            | ONLY         | SHARED    | ONLY      | SHARED    | ONL    | Y SHA          | ARED              | LANES    |
| WESTBOUND  | 0            | 0         | 0         | 0         | 0      | C              | )                 | 0        |
| EASTBOUND  | 0            | 1         | 0         | 1         | 0      | C              | )                 | 2        |
| NORTHBOUND | 0            | 0         | 1         | 1         | 0      | C              | )                 | 2        |
| SOUTHBOUND | 1            | 0         | 2         | 0         | 0      | C              | )                 | 3        |
|            |              | ** ASS    | IGNED LAI | NE VOLUME | ES **  |                |                   |          |
| APPROACH   | LEFT         | LEF:      | r THRO    | OUGH      | RIGHT  | RIG            | HT                | L/T/R    |
|            | ONLY         | SHARI     | ED OI     | NLY S     | SHARED | ON             | ILY               | SHARED   |
| WESTBOUND  | N/A          | N/A       | A I       | N/A       | N/A    | N              | I/A               | N/A      |
| EASTBOUND  | N/A          | 292       | l 1       | N/A       | 291    | N              | 1/A               | N/A      |
| NORTHBOUND | N/A          | N/I       | ! A       | 584       | 584    | N              | I/A               | N/A      |
| SOUTHBOUND | 59           | N/A       | <i>A</i>  | 424       | N/A    | N              | I/A               | N/A      |
|            |              |           |           |           |        |                |                   |          |
|            | EAST-WEST CR |           |           |           |        | . 291<br>. 643 | _                 |          |
|            | THE SUM OF C | RITICAL V | JOLUMES   |           |        | . 934          | -<br><del>I</del> |          |

NUMBER OF CRITICAL CLEARANCE INTERVALS .... 2\*

CMA VALUE ..... 0.592

LEVEL OF SERVICE ..... A

Capacity used = 1350.

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:13, 12TH STREET AND MAIN STREET

DATE: 11/27/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH   |               |          |           | * *       | · Е     | RIGHT TURN | S **      |
|------------|---------------|----------|-----------|-----------|---------|------------|-----------|
|            | LEFT          |          | THROUGH   | M         | IN ON G | REEN M     | AX ON RED |
| WESTBOUND  | 0             |          | 0         |           | 0       |            | 0         |
| EASTBOUND  | 115           |          | 229       |           | 62      |            | 0         |
| NORTHBOUND |               |          | 1113      |           | 85      |            | 0         |
| SOUTHBOUND | 70            |          | 1044      |           | 0       |            | 0         |
|            |               | **       | NUMBER    | OF LANES  | 3 **    |            |           |
| APPROACH   | LEFT          | LEFT     | THROUGH   | RIGHT     | RIGHT   | L/T/R      | TOTAL     |
|            | ONLY          | SHARED   | ONLY      | SHARED    | ONLY    | SHARED     | LANES     |
| WESTBOUND  | 0             | 0        | 0         | 0         | 0       | 0          | 0         |
| EASTBOUND  | 0             | 1        | 1         | 1         | 0       | 0          | 3         |
| NORTHBOUND | 0             | 0        | 1         | 1         | 0       | 0          | 2         |
| SOUTHBOUND | 1             | 0        | 2         | 0         | 0       | 0          | 3         |
|            |               | ** ASS   | IGNED LAN | IE VOLUME | ES **   |            |           |
| APPROACH   | LEFT          | LEF:     | r THRC    | UGH       | RIGHT   | RIGHT      | L/T/R     |
|            | ONLY          | SHARI    | ED ON     | ILY S     | SHARED  | ONLY       | SHARED    |
| WESTBOUND  | N/A           | N/Z      | A N       | I/A       | N/A     | N/A        | N/A       |
| EASTBOUND  | N/A           | 13!      | 5 1       | .35       | 135     | N/A        | N/A       |
| NORTHBOUND |               | N/I      | A 5       | 99        | 599     | N/A        | N/A       |
| SOUTHBOUND | 70            | N/A      | A 5       | 522       | N/A     | N/A        | N/A       |
|            |               |          |           |           |         |            |           |
|            | EAST-WEST CRI | TICAL V  | OLUMES    |           |         | 135        |           |
|            | NORTH-SOUTH C | RITICAL  | VOLUMES   |           |         | 669        |           |
|            | THE SUM OF CF | ITICAL V | VOLUMES . |           |         | 804        |           |
|            | NUMBER OF CRI | TICAL C  | LEARANCE  | INTERVAI  | LS      | 2*         |           |
|            | CMA VALUE     |          |           |           |         | 0.496      |           |
|            | LEVEL OF SERV | TICE     |           |           |         | А          |           |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\ensuremath{^{\star}}}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:14, 12TH STREET AND LOS ANGELES STREET DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH   |              |           |           | * *       | ·      | RIGHT TURN | S **      |
|------------|--------------|-----------|-----------|-----------|--------|------------|-----------|
|            | LEFT         |           | THROUGH   | MI        | N ON G | REEN M     | AX ON RED |
| WESTBOUND  | 0            |           | 0         |           | 0      |            | 0         |
| EASTBOUND  | 67           |           | 223       |           | 82     |            | 0         |
| NORTHBOUND |              |           | 588       |           | 86     |            | 0         |
| SOUTHBOUND | 117          |           | 650       |           | 0      |            | 0         |
|            |              | **        | NUMBER    | OF LANES  | ; **   |            |           |
| APPROACH   | LEFT         | LEFT      | THROUGH   | RIGHT     | RIGHT  | L/T/R      | TOTAL     |
|            | ONLY         | SHARED    | ONLY      | SHARED    | ONLY   | SHARED     | LANES     |
| WESTBOUND  | 0            | 0         | 0         | 0         | 0      | 0          | 0         |
| EASTBOUND  | 0            | 1         | 2         | 1         | 0      | 0          | 4         |
| NORTHBOUND | 0            | 0         | 1         | 1         | 0      | 0          | 2         |
| SOUTHBOUND | 0            | 1         | 1         | 0         | 0      | 0          | 2         |
|            |              | ** ASS    | IGNED LAN | IE VOLUME | IS **  |            |           |
| APPROACH   | LEFT         | LEF:      | r THRC    | UGH       | RIGHT  | RIGHT      | L/T/R     |
|            | ONLY         | SHARI     | ED ON     | ILY S     | SHARED | ONLY       | SHARED    |
| WESTBOUND  | N/A          | N/I       | N A       | I/A       | N/A    | N/A        | N/A       |
| EASTBOUND  | N/A          | 93        | 3         | 93        | 93     | N/A        | N/A       |
| NORTHBOUND | N/A          | N/Z       | A 3       | 37        | 337    | N/A        | N/A       |
| SOUTHBOUND | N/A          | 24!       | 5 5       | 22        | N/A    | N/A        | N/A       |
|            |              |           |           |           |        |            |           |
|            | EAST-WEST CR |           |           |           |        | 93<br>522  |           |
|            | THE SUM OF C | RITICAL V | VOLUMES . |           |        | 615        |           |
|            | NUMBER OF CR | ITICAL CI | LEARANCE  | INTERVAL  |        | 2*         |           |
|            | CMA VALUE    |           |           |           |        | 0.364      |           |
|            | LEVEL OF SER | VICE      |           |           |        | А          |           |

<sup>-----</sup>

Capacity used = 1350.

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 $<sup>\</sup>mbox{\scriptsize \star}$  Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:15, PICO BOULEVARD AND HILL STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH     | LEFT                            |          | THROUGH   | * *<br>M T | . F      | RIGHT TURNS | S **<br>AX ON RED |
|--------------|---------------------------------|----------|-----------|------------|----------|-------------|-------------------|
| WESTBOUND    | 38                              |          | 478       | IVI I      | .N ON GR | CEEIN MI    | AX ON KED         |
| EASTBOUND    | 46                              |          | 393       |            | 57       |             | 0                 |
| NORTHBOUND   |                                 |          | 206       |            | 71       |             | 29                |
| SOUTHBOUND   | 17                              |          | 846 98    |            |          |             | 0                 |
| 500111500115 | Δ,                              |          | 010       |            | , ,      |             | · ·               |
|              |                                 | **       | NUMBER    | OF LANES   | **       |             |                   |
| APPROACH     | LEFT                            | LEFT     | THROUGH   | RIGHT      | RIGHT    | L/T/R       | TOTAL             |
|              | ONLY                            | SHARED   | ONLY      | SHARED     | ONLY     | SHARED      | LANES             |
| WESTBOUND    | 0                               | 1        | 0         | 1          | 0        | 0           | 2                 |
| EASTBOUND    | 0                               | 1        | 0         | 1          | 0        | 0           | 2                 |
| NORTHBOUND   | 1                               | 0        | 1         | 0          | 1        | 0           | 3                 |
| SOUTHBOUND   | 1                               | 0        | 1         | 1          | 0        | 0           | 3                 |
|              |                                 | ** ASS   | IGNED LAN | IE VOLUME  | S **     |             |                   |
| APPROACH     | LEFT                            | LEF:     | r THRC    | UGH        | RIGHT    | RIGHT       | L/T/R             |
|              | ONLY                            | SHARI    | ED ON     | ILY S      | HARED    | ONLY        | SHARED            |
| WESTBOUND    | N/A                             | 24       | 7 N       | I/A        | 295      | N/A         | N/A               |
| EASTBOUND    | N/A                             | 213      | 3 N       | I/A        | 283      | N/A         | N/A               |
| NORTHBOUND   | 80                              | N/A      | A 2       | 206        | N/A      | 71          | N/A               |
| SOUTHBOUND   | 17                              | N/A      | A 4       | 72         | 472      | N/A         | N/A               |
|              |                                 |          |           |            |          |             |                   |
|              | EAST-WEST CRI                   | TICAL VO | OLUMES    |            |          | 341         |                   |
|              | NORTH-SOUTH C                   | RITICAL  | VOLUMES   |            |          | 552         |                   |
|              |                                 |          |           |            |          |             |                   |
|              | THE SUM OF CRITICAL VOLUMES 893 |          |           |            |          |             |                   |
|              | NUMBER OF CRI                   | TICAL CI | LEARANCE  | INTERVAL   | ıS       | 2*          |                   |
|              | CMA VALUE                       |          |           |            |          | 0.495       |                   |
|              | LEVEL OF SERV                   | ICE      |           |            |          | A           |                   |

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:16, PICO BOULEVARD AND BROADWAY

DATE: 11/27/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH     | LEFT          |          | THROUGH   | * *<br>MT | F<br>IN ON GF    | RIGHT TURN | S **<br>AX ON RED |
|--------------|---------------|----------|-----------|-----------|------------------|------------|-------------------|
| WESTBOUND    | 62            |          | 418       | 1411      | .iv Oiv Gr<br>70 | CEEIN IVII | O RED             |
| EASTBOUND    | 157           |          | 360       |           | 24               |            | 34                |
| NORTHBOUND   |               |          | 875       |           | 33               |            | 0                 |
| SOUTHBOUND   | ~ ·           |          | 833       |           | 80               |            | 0                 |
| 500111500115 | 1,            |          | 033       |           |                  |            | · ·               |
|              |               | **       | NUMBER    | OF LANES  | **               |            |                   |
| APPROACH     | LEFT          | LEFT     | THROUGH   | RIGHT     | RIGHT            | L/T/R      | TOTAL             |
|              | ONLY          | SHARED   | ONLY      | SHARED    | ONLY             | SHARED     | LANES             |
| WESTBOUND    | 1             | 0        | 0         | 1         | 0                | 0          | 2                 |
| EASTBOUND    | 1             | 0        | 1         | 0         | 1                | 0          | 3                 |
| NORTHBOUND   |               | 0        | 1         | 1         | 0                | 0          | 3                 |
| SOUTHBOUND   | 1             | 0        | 1         | 1         | 0                | 0          | 3                 |
|              |               | ** ASSI  | IGNED LAN | IE VOLUME | IS **            |            |                   |
| APPROACH     | LEFT          | LEFT     | THRC      | UGH       | RIGHT            | RIGHT      | L/T/R             |
|              | ONLY          | SHARI    | ED ON     | ILY S     | HARED            | ONLY       | SHARED            |
| WESTBOUND    | 62            | N/A      | A N       | I/A       | 488              | N/A        | N/A               |
| EASTBOUND    | 157           | N/A      | 4 3       | 60        | N/A              | 24         | N/A               |
| NORTHBOUND   | 67            | N/A      | 4         | 54        | 454              | N/A        | N/A               |
| SOUTHBOUND   | 47            | N/A      | 4         | 56        | 456              | N/A        | N/A               |
|              |               |          |           |           |                  |            |                   |
|              | EAST-WEST CRI | -        |           |           |                  | 645        |                   |
|              | NORTH-SOUTH C | RITICAL  | VOLUMES   |           | • • • • • •      | 523<br>    |                   |
|              | THE SUM OF CR | ITICAL V | OLUMES .  |           |                  | 1168       |                   |
|              | NUMBER OF CRI | TICAL CI | LEARANCE  | INTERVAL  | ıS               | 2*         |                   |
|              | CMA VALUE     |          |           |           |                  | 0.679      |                   |
|              | LEVEL OF SERV | ICE      |           |           |                  | В          |                   |

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:17, 17TH STREET/I-10 WB ON-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH   | T 1010111     |                             | munoudu         | **        | 1            | RIGHT TURNS |                |
|------------|---------------|-----------------------------|-----------------|-----------|--------------|-------------|----------------|
| WESTBOUND  | LEFT<br>121   |                             | THROUGH<br>1110 | IVI 1     | n on gf<br>0 | KEEN M      | AX ON RED<br>0 |
| EASTBOUND  | 0             |                             | 0               |           | 0            |             | 0              |
| NORTHBOUND | 0             |                             | 0               |           | 0            |             | 0              |
| SOUTHBOUND | 0             |                             | 929             |           | 930          |             | 0              |
|            |               |                             |                 |           |              |             |                |
|            |               | **                          | NUMBER          | OF LANES  | * *          |             |                |
| APPROACH   | LEFT          | LEFT                        | THROUGH         | RIGHT     | RIGHT        | L/T/R       | TOTAL          |
|            | ONLY          | SHARED                      | ONLY            | SHARED    | ONLY         | SHARED      | LANES          |
| WESTBOUND  | 0             | 1                           | 0               | 1         | 0            | 0           | 2              |
| EASTBOUND  | 0             | 0                           | 0               | 0         | 0            | 0           | 0              |
| NORTHBOUND |               | 0                           | 0               | 0         | 0            | 0           | 0              |
| SOUTHBOUND | 0             | 0                           | 3               | 1         | 1            | 0           | 5              |
|            |               | ** ASS                      | IGNED LAN       | IE VOLUME | S **         |             |                |
| APPROACH   | LEFT          | LEF'                        | r THRC          | UGH       | RIGHT        | RIGHT       | L/T/R          |
|            | ONLY          | SHAR                        | ED ON           | ILY S     | HARED        | ONLY        | SHARED         |
| WESTBOUND  | N/A           | 61                          | б N             | I/A       | 616          | N/A         | N/A            |
| EASTBOUND  | N/A           | N/I                         | A N             | I/A       | N/A          | N/A         | N/A            |
| NORTHBOUND | ·             | N/I                         |                 | I/A       | N/A          | N/A         | N/A            |
| SOUTHBOUND | N/A           | N/Z                         | A 3             | 10        | N/A          | 465         | N/A            |
|            |               |                             |                 |           |              |             |                |
|            | EAST-WEST CRI |                             |                 |           |              | 616<br>465  |                |
|            | THE SUM OF CR | THE SUM OF CRITICAL VOLUMES |                 |           |              |             |                |
|            | NUMBER OF CRI | TICAL C                     | LEARANCE        | INTERVAL  | S            | 2*          |                |
|            | CMA VALUE     |                             |                 |           |              | 0.621       |                |
|            | LEVEL OF SERV | ICE                         |                 |           |              | В           |                |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION:18, 18TH STREET/I-10 EB OFF-RAMP AND GRAND AVENUE

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH                    | LEFT                                   |        | THROUGH       | * *<br>MT | R<br>N ON GR | IGHT TURNS | S **<br>AX ON RED |  |
|-----------------------------|--|--------|---------------|-----------|--------------|------------|-------------------|--|
| WESTBOUND                   | 0                                      |        | 1 nkoogn<br>0 | 141 T     | .N ON GR     | EEIN IMA   | AX ON RED         |  |
| EASTBOUND                   | 0                                      |        | 747           |           | 107          |            | 40                |  |
| NORTHBOUND                  |  |        | 0             |           | 159          |            | 0                 |  |
| SOUTHBOUND                  |  |        | 704           |           | 0            |            | 0                 |  |
|                             |  |        |               |           |              |            |                   |  |
| ** NUMBER OF LANES **       |  |        |               |           |              |            |                   |  |
| APPROACH                    | LEFT                                   | LEFT   | THROUGH       | RIGHT     | RIGHT        | L/T/R      | TOTAL             |  |
|                             | ONLY                                   | SHARED | ONLY          | SHARED    | ONLY         | SHARED     | LANES             |  |
| WESTBOUND                   | 0                                      | 0      | 0             | 0         | 0            | 0          | 0                 |  |
| EASTBOUND                   | 0                                      | 0      | 3             | 0         | 1            | 0          | 4                 |  |
| NORTHBOUND                  | 0                                      | 0      | 0             | 0         | 2            | 0          | 2                 |  |
| SOUTHBOUND                  | 1                                      | 0      | 3             | 0         | 0            | 0          | 4                 |  |
| ** ASSIGNED LANE VOLUMES ** |  |        |               |           |              |            |                   |  |
| APPROACH                    | LEFT                                   | LEFT   | THRC          | UGH       | RIGHT        | RIGHT      | L/T/R             |  |
|                             | ONLY                                   | SHARI  | ED ON         | ILY S     | SHARED       | ONLY       | SHARED            |  |
| WESTBOUND                   | N/A                                    | N/A    | A N           | I/A       | N/A          | N/A        | N/A               |  |
| EASTBOUND                   | N/A                                    | N/A    | A 2           | 249 N/A   |              | 107        | N/A               |  |
| NORTHBOUND                  | N/A                                    | N/A    | A N           | N/A       |              | 80         | N/A               |  |
| SOUTHBOUND                  | 235                                    | N/A    |               | 35 N/A    |              | N/A        | N/A               |  |
|                             |  |        |               |           |              |            |                   |  |
|                             | EAST-WEST CRITICAL VOLUMES 249         |        |               |           |              |            |                   |  |
|                             | NORTH-SOUTH CRITICAL VOLUMES           |        |               |           |              |            |                   |  |
|                             | NORTH-SOUTH CRITICAL VOLUMES 315       |        |               |           |              |            |                   |  |
|                             | THE SUM OF CRITICAL VOLUMES            |        |               |           |              | 564        |                   |  |
|                             | NUMBER OF CRITICAL CLEARANCE INTERVALS |        |               |           |              | 3*         |                   |  |
|                             | CMA VALUE                              |        |               |           |              | 0.317      |                   |  |
|                             | LEVEL OF SERVICE                       |        |               |           |              | А          |                   |  |

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

INTERSECTION:19, 17TH STREET/I-10 WB OFF-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH                       |   |        |           | * *     | R       | IGHT TURNS | s **      |  |
|--------------------------------|---|--------|-----------|---------|---------|------------|-----------|--|
|                                | LEFT                                      |        | THROUGH   | MI      | N ON GR | EEN M      | AX ON RED |  |
| WESTBOUND                      | 131                                       |        | 629       |         | 129     |            | 0         |  |
| EASTBOUND                      | 0   |        | 0         |         | 0       |            | 0         |  |
| NORTHBOUND                     |   |        | 211       |         | 0       |            | 0         |  |
| SOUTHBOUND                     | 0   |        | 729       |         | 185     |            | 0         |  |
| ** NUMBER OF LANES **          |   |        |           |         |         |            |           |  |
| APPROACH                       | LEFT                                      | LEFT   | THROUGH   | RIGHT   | RIGHT   | L/T/R      | TOTAL     |  |
|                                | ONLY                                      | SHARED | ONLY      | SHARED  | ONLY    | SHARED     | LANES     |  |
| WESTBOUND                      | 0   | 1      | 0         | 1       | 0       | 0          | 2         |  |
| EASTBOUND                      | 0   | 0      | 0         | 0       | 0       | 0          | 0         |  |
| NORTHBOUND                     | 1   | 0      | 2         | 0       | 0       | 0          | 3         |  |
| SOUTHBOUND                     | 0   | 0      | 1         | 1       | 0       | 0          | 2         |  |
| ** ASSIGNED LANE VOLUMES **    |   |        |           |         |         |            |           |  |
| APPROACH                       | LEFT                                      | LEF'   | THRC      | UGH     | RIGHT   | RIGHT      | L/T/R     |  |
|                                | ONLY                                      | SHAR   | ED ONLY S |         | HARED   | ONLY       | SHARED    |  |
| WESTBOUND                      | N/A                                       | 44     | 4 N       | 1/A     | 444     | N/A        | N/A       |  |
| EASTBOUND                      | N/A                                       | N/2    |           | 1/A     | N/A     | N/A        | N/A       |  |
| NORTHBOUND                     |   | N/2    |           | .06     | N/A     | N/A        | N/A       |  |
| SOUTHBOUND                     | N/A                                       | N/2    | A 4       | 157 457 |         | N/A        | N/A       |  |
| EAST-WEST CRITICAL VOLUMES 444 |   |        |           |         |         |            |           |  |
|                                | NORTH-SOUTH CRITICAL VOLUMES 477          |        |           |         |         |            |           |  |
|                                | THE SUM OF CRITICAL VOLUMES 921           |        |           |         |         |            |           |  |
|                                | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |        |           |         |         |            |           |  |
|                                | CMA VALUE 0.514                           |        |           |         |         |            |           |  |
|                                | LEVEL OF SERVICE A                        |        |           |         |         |            |           |  |

<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.

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INTERSECTION: 20, 18TH STREET/I-10 EB ON-RAMP AND LOS ANGELES STREET

DATE: 11/16/2005 INITIALS: RF PERIOD: PM PEAK HOUR

CASE: FUTURE (2010) WITH PROJECT

## \*\* INPUT VOLUMES \*\*

| APPROACH                    | LEFT                                      |        | TIDOUGU      | * *      | r<br>In on Gr | RIGHT TURN | S **<br>AX ON RED |  |
|-----------------------------|---|--------|--------------|----------|---------------|------------|-------------------|--|
| WESTBOUND                   | 0   |        | THROUGH<br>0 | 1/1      | IN ON GR      | EEEN M     | AX ON RED         |  |
| EASTBOUND                   | 808                                       |        | 365          |          | 116           |            | 0                 |  |
| NORTHBOUND                  |   |        | 620          |          | 11            |            | 0                 |  |
| SOUTHBOUND                  |   |        | 476          |          | 0             |            | 0                 |  |
| BOOTHBOOND                  | 10  |        | 170          |          | O             |            | O                 |  |
|                             |   | **     | NUMBER       | OF LANES | 3 **          |            |                   |  |
| APPROACH                    | LEFT                                      | LEFT   | THROUGH      | RIGHT    | RIGHT         | L/T/R      | TOTAL             |  |
|                             | ONLY                                      | SHARED | ONLY         | SHARED   | ONLY          | SHARED     | LANES             |  |
| WESTBOUND                   | 0   | 0      | 0            | 0        | 0             | 0          | 0                 |  |
| EASTBOUND                   | 1   | 0      | 1            | 1        | 0             | 0          | 3                 |  |
| NORTHBOUND                  |   | 0      | 1            | 1        | 0             | 0          | 2                 |  |
| SOUTHBOUND                  | 1   | 0      | 2            | 0        | 0             | 0          | 3                 |  |
| ** ASSIGNED LANE VOLUMES ** |   |        |              |          |               |            |                   |  |
| APPROACH                    | LEFT                                      | LEF:   | r THRO       | OUGH     | RIGHT         | RIGHT      | L/T/R             |  |
|                             | ONLY                                      | SHARI  | ED OI        | JLY S    | SHARED        | ONLY       | SHARED            |  |
| WESTBOUND                   | N/A                                       | N/Z    | 1 A          | I/A      | N/A           | N/A        | N/A               |  |
| EASTBOUND                   | 808                                       | N/I    | Α 2          | 240      | 240           | N/A        | N/A               |  |
| NORTHBOUND                  | N/A                                       | N/I    | A 3          | 316 316  |               | N/A        | N/A               |  |
| SOUTHBOUND                  | 18  | N/Z    | A 2          | 238      | N/A           | N/A        | N/A               |  |
|                             |   |        |              |          |               |            |                   |  |
|                             | EAST-WEST CRITICAL VOLUMES 808            |        |              |          |               |            |                   |  |
|                             | NORTH-SOUTH CRITICAL VOLUMES 334          |        |              |          |               |            |                   |  |
|                             | THE SUM OF CRITICAL VOLUMES 1142          |        |              |          |               |            |                   |  |
|                             | NUMBER OF CRITICAL CLEARANCE INTERVALS 2* |        |              |          |               |            |                   |  |
|                             | CMA VALUE                                 |        |              |          |               | 0.661      |                   |  |

LEVEL OF SERVICE .....

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<sup>\*</sup> Includes CMA value decreased due to ATCS Implementation.