

Traffic Study for the Elysian Reservoir Water Quality Improvement Project Los Angeles, California

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I. Introduction

This report documents the traffic analysis prepared by KOA Corporation to assess the traffic impact of the proposed Elysian Reservoir Water Quality Improvement Project, located within Elysian Park. The park is owned by the City of Los Angeles and operated by the Department of Recreation and Parks (LADRP). The existing reservoir facility is maintained by the City of Los Angeles Department of Water and Power (LADWP).

This traffic study assesses the potential traffic impact of the construction of the proposed Project as well as two alternatives. An additional focused analysis was also conducted of trips that would be generated by a post-project park use, to be constructed on six acres of the project site with the proposed Project.

I.I Project Overview

In order to ensure compliance with updated United States Environmental Protection Agency (EPA) water quality standards, the Los Angeles Department of Water and Power (LADWP) proposes to replace the uncovered Elysian Reservoir with underground concrete tanks, which would be sited essentially within the existing reservoir footprint.

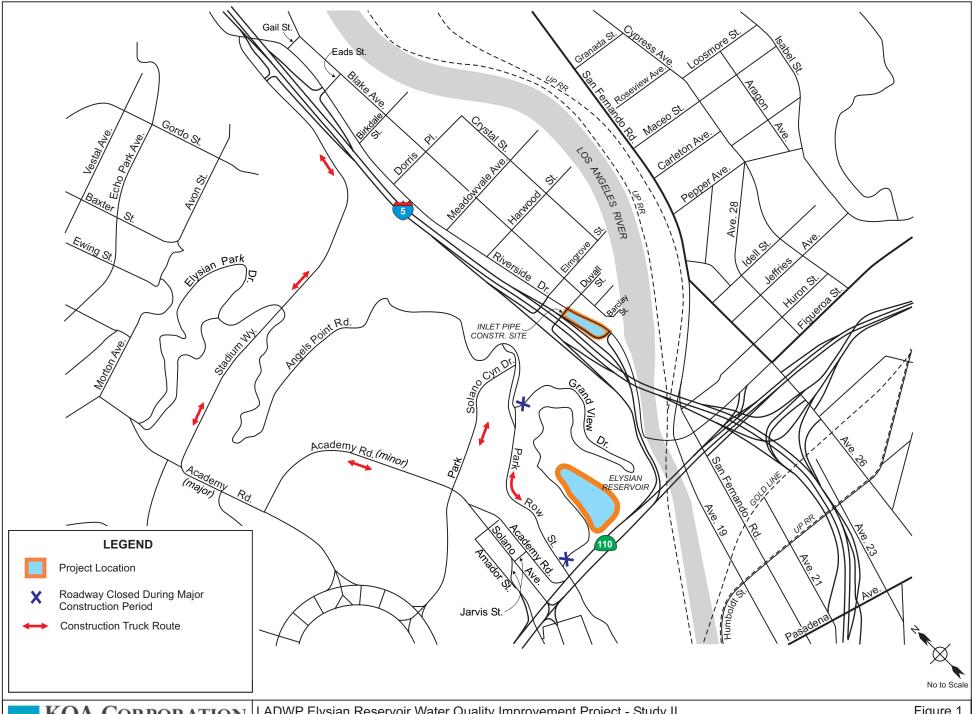
The area atop the tanks would be developed for recreation uses in the post-Project period, under the proposed Project scenario. A shallow wildlife pond would also be created at the northern end of the project site, outside of the area of the tanks.

After the completion of project construction, the site would be open to the public as part of an expanded but managed area of Elysian Park. Other than facilities related to water storage and transmission, the site would be maintained and operated by the Los Angeles Department of Recreation and Parks (LADRP). The determination of the nature of recreation functions to be provided at the Elysian Reservoir property would require a separate planning process that would involve community, LADRP, LADWP, and City Council office participation and would occur after 2015, at a date closer in time to the implementation of any recreation improvements at the property. Impacts of a potential park use within the Project site area has been analyzed, based on a conservative level of recreational development.

1.2 Project Location

The existing Elysian Reservoir is located approximately 1.5 miles north of downtown Los Angeles. The reservoir site is located to the northwest of and immediately adjacent to the Arroyo Seco Parkway (State Route 110), between Dodger Stadium to the southwest and the Golden State Freeway (Interstate 5) to the northeast. Elysian Reservoir is accessed off of Grand View Drive, which is a road located within the interior of Elysian Park.

Figure I illustrates the roadway network area and the location of the project site.





I.3 Level of Service Definition

The concept of level of service (LOS) for roadway segments is typically defined in terms of average travel speed of all vehicles on the facility. Average travel speed is strongly influenced by the density of signalized intersections per mile, average intersection delay, the number of driveways per segment and the presence of on-street parking.

Table I provides descriptions of general roadway operations for each LOS value, as defined within the 2000 Highway Capacity Manual (published by the Transportation Research Board).

Table I - Level of Service Definitions

Level of Service	Flow Conditions	Volume to Capacity Ratio
A	LOS A describes primarily free-flow operations at average travel speeds, usually about 90 percent of the free-flow speed for the arterial classification. Vehicles are completely unimpeded in their ability to maneuver within the traffic stream. Stopped delay at signalized intersections is minimal.	0.00-0.60
В	LOS B represents reasonably unimpeded operations at average travel speeds, usually about 70 percent of the free-flow speed for the arterial classification. The ability to maneuver within the traffic stream is only slightly restricted and stopped delays are not bothersome. Drivers are not generally subjected to appreciable tension.	0.61-0.70
С	LOS C represents stable operations; however, ability to maneuver and change lanes in mid-block locations may be more restricted than at LOS B, and longer queues, adverse signal coordination, or both may contribute to lower average speeds of about 50 percent of the average free-flow speed for the arterial classification. Motorists will experience appreciable tension while driving.	0.71-0.80
D	LOS D borders on a range in which small increases in flow may cause a substantial increase in delay and hence decreases in arterial speed. LOS D may be due to adverse signal progression, inappropriate signal timing, high volumes, or some combination of these factors. Average travel speeds are about 40 percent of free-flow speed.	0.81-0.90
E	LOS E is characterized by significant delays and average travel speeds of one-third the free-flow speed of less. Such operations are caused by some combination of adverse progression, high signal density, high volumes, extensive delays at critical intersections, and inappropriate signal timing.	0.91-1.00
F	LOS F characterizes arterial flow at extremely low speeds below one-third to one-fourth of the free-flow speed. Intersection congestion is likely at critical signalized locations, with high delays and extensive queuing. Adverse progression is frequently a contributor to this condition.	Over I.00

Section 4 of this report provides a review of existing LOS values at the study intersections and roadway segments. Section 5 provides a review of pre-Project (pre-construction and pre-operations) conditions. Construction period LOS values for the various alternatives are reviewed within Section 7, and LOS values related to post-project recreation use at the project site are reviewed within Section 8.

2. Proposed Project Description and Construction Phasing

2.1 Project Description

To accomplish the objectives of the proposed Project, a new buried concrete-covered reservoir would be constructed in place of the existing uncovered Elysian Reservoir. The buried concrete cover would be located essentially within the existing reservoir footprint, and would provide an equivalent storage and basic operational capabilities to the existing reservoir. The area atop the underground tanks would be developed in accordance with a recreation plan prepared by LADRP, with the proposed Project.

For the purposes of the EIR, the proposed recreation facilities have been defined as three full-size soccer fields; a skate park; playground; perimeter walking/jogging path with exercise stations; recreation building(s) housing restrooms, concession areas, offices, and equipment storage areas; and a maintenance storage yard.

These facilities would be essentially contained in the area previously occupied by the reservoir complex. A small wildlife pond would be constructed at the north end of the Elysian Reservoir property, to the north of the recreation area.

In addition to the reservoir and recreation improvements, a new 54-inch diameter underground inlet line would be constructed to replace the existing 36-inch inlet line and improve the distribution system capability. The proposed inlet line would connect the buried reservoir to the existing Riverside Trunk Line adjacent to Riverside Drive (on the east side of the I-5 freeway). This inlet line construction would be located within Caltrans landscaped right-of-way adjacent to the I-5 northbound on-ramp, along the west side of Riverside Drive, between Barclay Street and Duvall Street. Construction of the new inlet line would proceed independently from the reservoir, but occur concurrently with the first two years of the reservoir construction period.

2.2 Construction Staging

Construction of the proposed Project would take approximately five and a-half years to complete. However, due to potential delays, the actual construction period may continue for up to six and a-half years to complete. It is anticipated that construction activities would start in 2015 and be completed in 2020.

Throughout construction, Grand View Drive would be closed to ensure public safety and to provide equipment storage, worker parking, and a material laydown areas. This road segment essentially surrounds the reservoir. It is located outside the reservoir property but entirely within the boundaries of Elysian Park.

Due to vehicle load restrictions on certain roads and bridges and to minimize impacts to local neighborhoods, the proposed truck delivery and haul route in the vicinity of the project has been restricted to one specific access route. The inbound route proceeds from the Stadium Way exit from the I-5 freeway, south along Stadium Way, east (left) on Academy Road (to the Dodger Stadium Gate), north (left) on Academy Road, north (left) on Solano Canyon Drive, south (right) on Park Row Street, and east (left) on Grand View Drive to the project site. Outbound traffic would follow the same route in a reverse direction.

The construction effort would be conducted in five basic phases:



Phase I: Mobilization, Bypass Line Construction & Activation, and Reservoir (16 months)

The first phase of construction would consist of mobilizing for construction, constructing and activating the new reservoir bypass line, and draining and demolishing the existing Elysian Reservoir and appurtenant facilities. This phase would take approximately 16 months to complete. Based on a monthly average, the number of on-site workers per day would range from a low of 17 during mobilization to a peak of 98 workers during concurrent bypass line construction and the initiation of Phase 2 activities. The number of truck deliveries or haul trips per day would range from a low of six during the bypass line construction to a peak of 98 workers during concurrent bypass line construction and reservoir construction.

To minimize disruptions to the Elysian Reservoir service area water distribution system, the construction of the new bypass line would be substantially completed and activated prior to the removal of the existing bypass line from service.

The draining of the reservoir would be accomplished by normal consumption through the drinking water distribution system until the water reached the lower limit of the normal operating range. It would take approximately two weeks to drain the remaining water and an additional two to three to dry out to be ready for subsequent construction activities.

Phase 2: Reservoir Rough Shaping, Retaining Wall Excavation, Sub-Grade Excavation and Preparation, and New Inlet and Outlet Structures (19 months)

The second phase of construction would involve rough shaping and excavating of the reservoir bottom and preparing the sub-grade below the reservoir to adequately support the concrete roof system and the soil cover. A new inlet structure and outlet structure for the reservoir would also be constructed during this phase. The entire phase would take approximately 19 months to complete. The number of on-site workers per day would range from a low of 37 to a peak of 91 workers during the concurrent sub-grade preparation and inlet/outlet structure construction. Based on a monthly average, the number of truck deliveries or haul trips per day would range from a low of 6 to a peak of 16 workers during the concurrent sub-grade preparation and inlet/outlet structure construction.

Phase 3: Concrete Reservoir and Sub-Drain System Construction (14 months)

The third phase of construction wound involve the construction of the new concrete reservoir, including the perimeter retaining walls and interior walls, liner and sub-drain system, and column and roof assembly. This phase would take approximately 14 months to complete. The number of on-site workers per day would range from a low of 63 to a peak of 92 workers. Based on a monthly average, the number of truck deliveries or haul trips per day would range from a low of 23 to a peak of 57 workers.

Phase 4: Backfilling and Covering the Concrete Reservoir (2 months)

The fourth phase of construction would consist of backfilling behind the retaining walls and covering the reservoir with topsoil. The refilling of the reservoir would take approximately one month after the completion of backfilling. This phase would take approximately two months to complete. Based on a monthly average, the number of on-site workers per day would be about 45. The average number of truck deliveries or haul trips per day would be about 126.



Phase 5: Recreation Improvements (12 months)

The final phase of the proposed Project would involve the construction of the recreation facility and wildlife pond. Recreation development would be limited to the level area that would exist after completion of the tank construction.

The buried reservoir would consume approximately two-thirds of the property in the center of the site, and the space available for recreational facilities would be essentially limited to the areas outside of the reservoir footprint. Therefore, large structural elements cannot be located above the buried reservoir because of load-bearing concerns and accessibility to the underground facilities. These elements would include buildings and certain recreation functions such as skate parks.

The wildlife pond would be located at the northern end of the property to avoid the underground tanks and, based on its intended purpose, to establish a separation from more active recreation uses at the site.

The recreation facility would require the provision of emergency access roads and maintenance access around the perimeter of the site, limiting the space available for facility development of certain types. Some roads may also be required in the interior of the site to provide access for maintenance and operations related to certain components of the water storage facilities.

Several types of aboveground structures, such as manholes, access hatches, vents, and electrical cabinets would be required in relation to the buried reservoir. Certain limitations relative to infrastructure and minimum separation distances must be considered. These structures would be incompatible with and, therefore, limit the flexibility of certain elements, such as soccer fields.

To maintain flexibility for the recreation planning process, LADRP has identified an intensive level of recreation development at the site that may include any or all of the following elements:

- Up to three soccer fields
- Skate plaza
- Playground
- Perimeter walking/jogging path with exercise stations
- Recreation support building(s) housing restrooms, concession areas, offices, and equipment storage areas
- Maintenance storage yard
- Parking for up to 200 vehicles
- Bus drop-off/turnaround area

Based on the constraints discussed above, it is unlikely that all of these elements could be accommodated within the reservoir property. However, this program is being considered in the EIR in order to provide a conservative impact analysis.

This phase of work would take approximately 12 months to complete. An average of approximately 30 workers would be on site throughout the phase. However, 45 workers may be required during peak construction. Delivery trips to the site would not exceed five truck trips on any day.



2.3 Inlet Line Construction

The new inlet line construction would involve boring a tunnel, with an approximate length of 2,300 feet, between the Riverside Trunk Line and the site area just north of Elysian Reservoir. The construction of the inlet line would take 25 months to complete and, as discussed above, would occur concurrently with Phase I and Phase 2 of the reservoir construction. Based on a monthly average, the number of on-site workers per day would range from a low of I I to a peak of I7 workers. The number of truck deliveries or haul trips per day would range from a low of one to a peak of I6 workers.

The first task of the inlet line construction would take approximately five months and would involve mobilization and site preparation. Essentially the entire "island" area (the landscaped right-of-way between the freeway and Riverside Drive) would be disturbed. This island is located along the west side of Riverside Drive between the north I-5 on-ramp/off-ramp across from Barclay Street and the south I-5/SR-IIO on-ramps across from Duvall Street. The approximately one-acre island would be used as a staging area and include employee parking, equipment and materials laydown, field offices, and the tunnel launching pit. The pit itself would be approximately 40 feet long, I5 feet wide, and 40 feet deep.

The preparation of the staging area would also involve the construction of a 12-foot wide traffic lane that would parallel Riverside Drive, but would be located entirely within the island, facilitating truck egress from and ingress to Riverside Drive during delivery and hauling activities. This would generally avoid the closure of Riverside Drive traffic lanes during tunnel construction.

The second task of the inlet line construction would take approximately 16 months and would include the tunnel construction and inlet line installation. The tunnel would consist of a 102-inch diameter concrete or steel casing.

The third task of the inlet line construction would consist of installing approximately 150 feet of 54-inch pipeline from the launching pit located on the west side of Riverside Drive that would connect to the Riverside Trunk Line, which runs along the east side of Riverside Drive. The pipeline would be installed using traditional open trench construction techniques. This would require the temporary closure of traffic lanes on Riverside Drive. However, no more than one lane would be closed, and the overall disruption to traffic would be less as compared to the tunneling installation.

The final task of work would take approximately two months and would consist of demobilizing and restoring the Caltrans island. Once the inlet line is completed, the existing inlet line would be removed from service, and water would be supplied to the new bypass line through the new inlet line.

The inlet line construction would occur concurrently with the reservoir construction, but both construction sites are physically separated.



2.4 Post-Project Operations

The Elysian Reservoir property would remain under the ownership of LADWP, however, the planned recreation functions and property maintenance (other than the water supply and distribution facilities) would be the responsibility of LADRP. The post-project recreational uses would represent an expansion of overall Elysian Park uses.

Recreation functions would be permitted during daylight hours only, and no night lighting other than minimal parking lot and pathway security lighting would be provided. Peak use periods would be weekend evenings and weekend afternoons. A gate would be installed at the entrance to the site that would be opened in the morning and closed at dusk.

This post-project use is discussed in more detail, along with potential parking and traffic circulation impacts, within Section 8 of this report.

3. Alternatives to the Proposed Project

In accordance with Section 15126.6(a) of the CEQA Guidelines, the project environmental documentation must discuss a range of reasonable alternatives to the project.

A discussion of each alternative is provided below. The construction truck route for each alternative would be similar to the proposed project, as discussed within Section 2 of this report. Throughout construction, the truck and delivery route and access provisions would be the same as that defined for the proposed project.

- Alternative I: No Project
- Alternative 2: Floating Reservoir Cover Alternative
- Alternative 3: Aluminum Cover Alternative

An evaluation of these alternatives, identified by LACDPW for the proposed Project, is provided within Section 6 (trip generation) and Section 7 (significant impacts) of this report:

3.1 Alternative I - No Project

Under Alternative I (No Project), the Reservoir operations would remain the same as under existing conditions and a negligible number of vehicle trips would continue to be generated on a daily basis.

3.2 Alternative 2 – Floating Reservoir Cover

Under the Alternative 2 (Floating Cover Alternative), the reservoir would remain in its existing configuration. A flexible membrane floating cover of approximately 305,000 square-feet in size would be installed over the entire surface of the reservoir and secured to the edge of the reservoir. Under this alternative, the Elysian Reservoir property would remain under the operation of LADWP and no recreational facilities would be constructed.

Construction of the alternative would take approximately two and a-half years to complete. It is anticipated that construction activities would start in early 2014 and be completed in late 2016. The activities would be conducted in three basic phases, as described below.

As with the proposed Project, Grand View Drive would be closed throughout construction to ensure public safety and to provide equipment storage, worker parking, and material laydown areas. The proposed truck delivery and haul route would remain the same as under the proposed Project, due to restrictions related to loads on certain roads and bridges and to minimize impacts to local neighborhoods.

Similar to the proposed Project, the Floating Cover Alternative would include the construction of a new 54-inch diameter underground inlet line connecting the reservoir to the existing Riverside Trunk Line, adjacent to Riverside Drive. This new inlet line would replace the existing 36-inch inlet line and would provide improved distribution system capability. The inlet line construction would be essentially concurrent with the floating cover construction. Details on the inlet line construction were provided within Section 2 of this report.



Phase I: Mobilization, Bypass Line Construction & Activation, and Reservoir Demolition (19 months)

The first phase of the Floating Cover Alternative construction would consist of mobilizing for construction, construction and activating the new reservoir bypass line, and draining and demolishing the existing reservoir. This phase would take approximately 19 months to complete. During Phase I, an average of approximately 17 to 72 daily workers would be on-site during the concurrent bypass line construction and reservoir demolition. Based on a monthly average, approximately six to 34 daily truck deliveries or haul trips would be generated from the site.

Mobilization would entail widening and stabilizing existing on-site roads as necessary for truck access during construction. Improvement to Grand View Drive at the intersection with Park Row Street would be required to facilitate outbound truck traffic from the reservoir site. The improvement would include both grading and widening the road at the intersection. To provide an adequate turning radius for trucks, a truck turnaround area would be provided at Point Grand View, northeast of the reservoir. The existing parking area and several palm trees would be removed during construction, which would be restored after the completion of construction.

Draining the reservoir would initially be accomplished by normal consumption through the drinking water distribution system until the water level reached the lower limit of the normal operating range of the reservoir. It would take approximately two weeks to drain the remaining water and an additional two to three weeks for the reservoir to dry out.

Phase 2: Construction New Inlet and Outlet Structures and Installation of Asphalt Reservoir Liner (9 months)

The second phase of construction would consist of constructing the new inlet and outlet structures and connecting the structures to the inlet/bypass line system. In addition, the reservoir would be relined with asphaltic concrete, and new concrete equipment vaults would be installed. This phase of work would take approximately nine months to complete. Based on the monthly average, approximately 25 to 54 workers would be on-site per day. Approximately eight to 14 truck deliveries and haul trips would occur on a daily basis

Phase 3: Installation of Floating Cover (3 months)

The third phase of construction would consist of installation of the floating cover, refilling of the reservoir, and construction of the wildlife pond. This phase of work would take approximately three months to complete. Based on the monthly average, approximately 18 workers would be on-site per day. Approximately one truck delivery and haul trip would occur on a daily basis. After the floating cover is installed, it would take approximately one month to refill the reservoir. This would occur concurrently with demobilization.

Floating Cover Operations

Operations of the reconstructed reservoir with the floating cover would not require the permanent presence of LADWP personnel on-site. Occasional washing to remove dirt and debris would be necessary to protect the drinking water supply. These operations would generate minimal traffic to and from the site. However, every 15 to 20 years, the floating cover would need to be replaced, which would entail similar activity as described in Phase 3.



3.2 Alternative 3 – Aluminum Cover

Under project Alternative 3 (Aluminum Cover Alternative), the Reservoir would be retained in its existing configuration, and LADWP would install a lightweight aluminum cover over the entire water surface. Under this alternative, the Reservoir would remain under the operation of LADWP and recreational facilities would not be constructed. Therefore, public access to the Elysian Reservoir would be prohibited. As part of the Aluminum Cover Alternative, and similar to other alternatives, a wildlife pond would be created at the north end of the reservoir property.

Construction of this alternative would take approximately four years to complete. It is anticipated that construction activities would start in mid 2014, be completed in mid 2018, and would be conducted in three basic phases as described below.

As with the proposed Project, Grand View Drive would be closed throughout construction to ensure public safety and to provide equipment storage, worker parking, and material laydown areas. Because of restrictions related to loads on certain roads and bridges and to minimize impacts to local neighborhoods, the proposed truck delivery and haul route would be the same as that for the proposed Project.

Similar to the proposed Project, the Aluminum Cover Alternative would include the construction of a new 54-inch diameter underground inlet line connecting the reservoir to the existing Riverside Trunk Line, adjacent to Riverside Drive. This new inlet line would replace the existing 36-inch inlet line and would provide improved distribution system capability. The inlet line construction would be essentially concurrent with the floating cover construction, as with other project alternatives.

Phase I: Mobilization, Bypass Line Construction & Activation and Reservoir Demolition (19 months)

The first phase of the Aluminum Cover Alternative construction would consist of mobilizing for construction, construction and activation of the new reservoir bypass line, and draining and demolishing the existing reservoir. This phase would take approximately 19 months to complete. During Phase I, an average of approximately 17 to 72 daily workers would be on-site during the concurrent bypass line construction and reservoir demolition. Based on a monthly average, approximately six to 46 daily truck deliveries or haul trips would be generated from the site.

Mobilization would entail widening and stabilizing existing on-site roads as necessary for truck access during construction. Improvements to Grand View Drive at the intersection with Park Row Street would be required to facilitate outbound truck traffic from the reservoir site. The improvements would include both grading and widening of the road at the intersection. To provide an adequate turning radius for trucks, a truck turnaround area would be provided at Point Grand View, northeast of the reservoir. The parking area and several palm trees would be removed during construction, which would be restored after construction.

Draining of the reservoir would initially be accomplished by normal consumption through the drinking water distribution system until the water level reached the lower limit of the normal operating range of the reservoir. It would take approximately two weeks to drain the remaining water and an additional two to three weeks for the reservoir to dry out.



Phase 2: Construction New Inlet and Outlet Structures and Installation of Asphalt Reservoir Liner (9 months)

The second phase of construction would consist of constructing the new inlet and outlet structures and connecting the structures to the inlet/bypass line system. In addition, the reservoir would be relined with asphaltic concrete, and new concrete equipment vaults would be installed. This phase of work would take approximately nine months to complete. Based on the monthly average, approximately 25 to 54 workers would be on-site per day. Approximately eight to 14 truck deliveries and haul trips would occur on a daily basis.

Phase 3: Aluminum Cover Construction (18 months)

The third phase of construction would consist of installation of the aluminum cover, refilling the reservoir, and construction of the wildlife pond. This phase of work would take approximately 18 months to complete. Based on the monthly average, approximately 23 workers would be on-site per day. Approximately four truck deliveries and haul trips would occur on a daily basis. After the aluminum cover is installed, it would take approximately one month to refill the reservoir. This would occur concurrently with demobilization.

Aluminum Cover Operations

Operations of the reconstructed reservoir with the aluminum cover would not require the permanent presence of LADWP personnel on-site. As described above, no recreation area or public access would be provided within the Elysian Reservoir site under this alternative. Maintenance of the aluminum cover is minimal and such operations would generate minimal traffic to and from the site.

Solar Panel Option

LADWP would consider an option to install solar photovoltaic panels on the aluminum cover. The installation of the solar panels would be an additional phase of construction that would occur after the construction of the aluminum cover. The solar panel option would extend the construction period from approximately four years to five and a-half years.

Phase 4: Solar Panel Installation (7 months)

The fourth phase of construction would consist of the installation of the solar panels, including panel installation and wiring, the installation of power inverters and transformers, and the interconnection of the solar power facility to the City distribution system. This phase would take approximately seven months to complete. Approximately 16 workers would be required to install the panels and complete the wiring. This task would require less than three truck deliveries per day for the solar panels and about two additional truck deliveries for the other required components.

Solar Power Facility Operations

No additional personnel would be required at the Elysian Reservoir site on a daily basis to maintain and operate the solar power facilities. A small number of personnel may be required during brief periods when certain maintenance operations must be performed. Occasional washing of the solar panels would be performed on an as-needed basis to maintain system performance.

4. Existing Area Traffic Conditions

This report section describes the characteristics of roadways within the study area. A review of the collected traffic volumes is provided, along with a level of service analysis for these facilities.

4.1 Study Intersections and Roadway Segments

For the traffic impact analysis, five locations were defined as study intersections in the project Memorandum of Understanding (MOU) with LADOT, which is provided as Appendix A to this report. Existing intersection traffic volumes were collected on Thursday, September 16, 2010 and on Friday, September 17, 2010.

The following are the locations of the study intersections:

- I. Stadium Way / Riverside Drive *
- Stadium Way / Landa Street I-5 southbound on & off ramps*
- 3. Riverside Drive / Eads I-5 northbound on & off ramps (to Stadium Way) *
- 4. Riverside Drive / I-5 northbound on ramp & I-110 northbound off-ramp (south of Oros Street) *
- 5. Academy Road (major)/Academy Road (minor) ** #
- 6. Academy Road/Park Road (Solano Canyon Drive on some maps)**
- * Weekday a.m. and p.m. peak hour counts were collected at these locations.
- ** Weekday p.m. peak hour counts only were collected at these locations, due to low anticipated morning traffic activity in the area.
- # Unsignalized intersection.

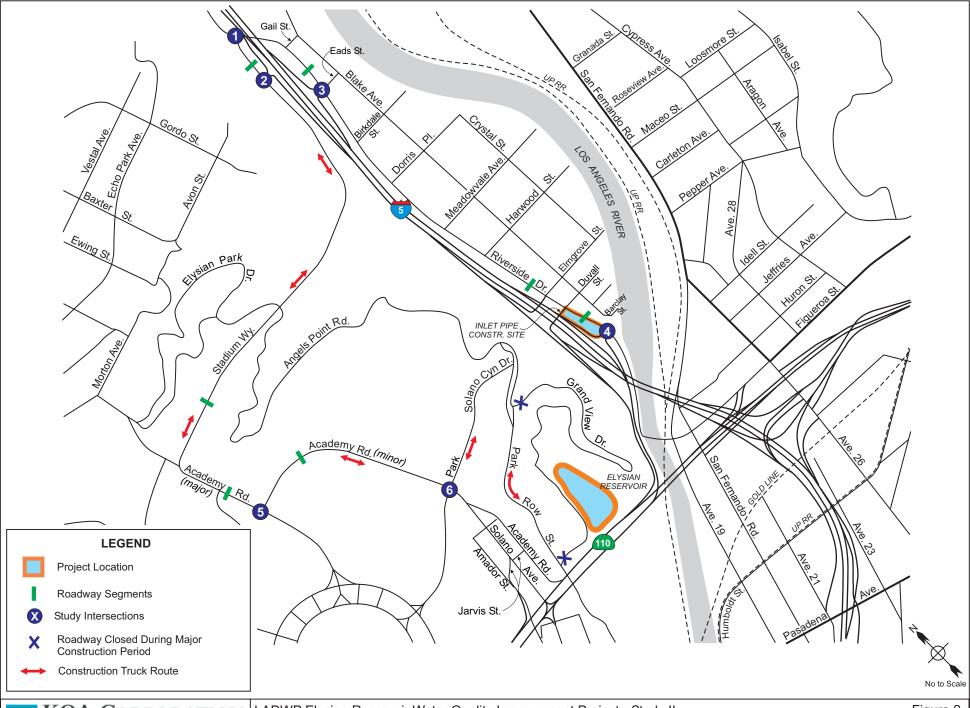
Counts were conducted on two days to provide analysis of traffic with and without active baseball games at Dodger Stadium. An evening Los Angeles Dodgers baseball game was scheduled on Friday (September 17, 2010) at nearby Dodger Stadium.

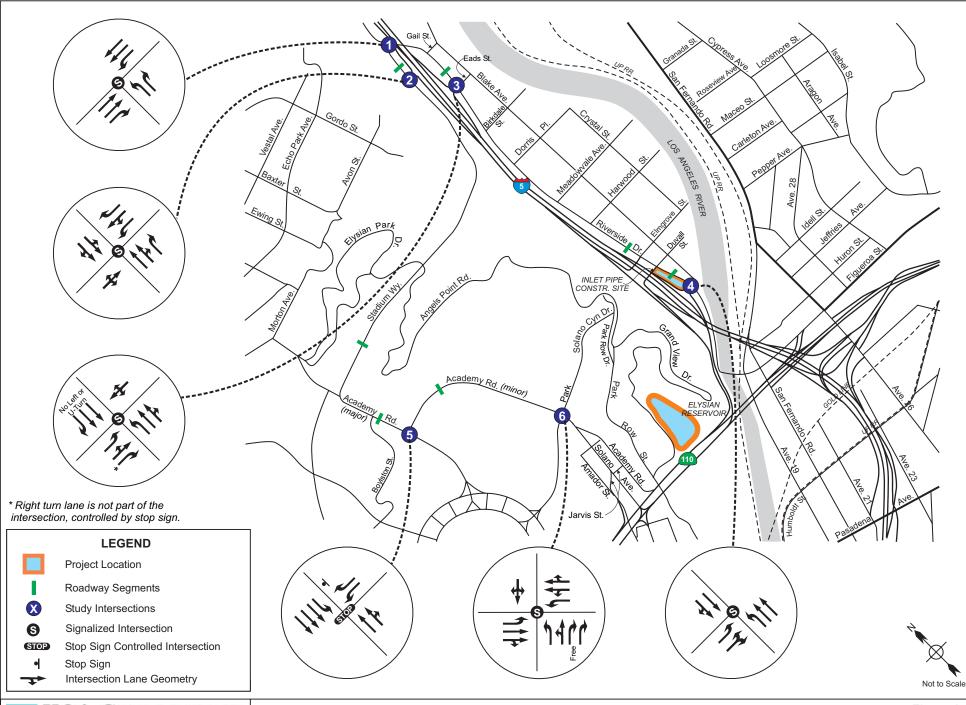
In addition, the following five roadway segments were also included in the study area:

- A. Stadium Way, between Riverside Drive and I-5 southbound ramps
- B. Riverside Drive, between Gall Street and Forney Street
- C. Riverside Drive, between Fernleaf Street and Elmgrove Street
- D. Riverside Drive, between Oros Street and I-5 northbound ramps
- E. Stadium Way, north of Academy Road
- F. Academy Road, east of Stadium Way
- G. Academy Road, north of Academy Road east-west segment

The associated daily roadway counts were also collected for two consecutive days, during the same days as the intersection counts.

Figure 2 illustrates the locations of the study intersections and roadway segments. Figure 3 illustrates the study intersection approach lanes and control configurations. The existing traffic count volumes are provided within Appendix B of this report.







4.2 Local Roadway Characteristics

The following text provides a description of the study roadway segments and other roadways in the vicinity of the Project site.

Riverside Drive in the project vicinity is a four-lane roadway bordered by office and storage land uses between Gall Street and Interstate 5. There is no posted speed limit, and on-street parking is prohibited.

Stadium Way is a six-lane roadway in the vicinity of the two study roadway segments of Academy Road and Elysian Park Drive. There are no developed land uses adjacent to these segments, or there is adjacent parkland within Elysian Park, and on-street parking is prohibited. There is a posted speed limit of 35 miles per hour (mph) on Stadium Way between Academy Road and Elysian Park Drive.

Academy Road, in the project vicinity, has variable lane configurations:

- Between Stadium Way and Boylston Street, the roadway has three northbound lanes and two southbound lanes.
- Between Boylston Street and Solano Canyon Drive, the roadway has two northbound lanes and one southbound lane.
- Between Solano Canyon Drive and the SR-II0 freeway, the roadway has one northbound lane and one southbound lane.

There are no posted speed limits on these roadway segments. There are no developed land uses adjacent to the roadway, outside of Dodger Stadium and the LAPD training facility, and parking is generally prohibited.

Solano Avenue, between Javis Street and the SR-110 freeway, provides two lanes northbound and one lane southbound with a 15 mph posted speed limit. The adjacent land uses are primarily residential and parking is prohibited along the east side of the roadway adjacent to Solano Avenue Elementary School. Parking is generally permitted along other segments. Solano Avenue provides one lane in each direction of travel between the SR-110 freeway and Broadway with a 25 mph posted speed limit.

Amador Street, between Javis Street and the SR-II0 freeway, traverses a residential neighborhood and provides two southbound travel lanes and one northbound travel lane. The posted speed limit is I5 mph. There are no parking restrictions on the east side of this roadway segment but parking is prohibited at all times on the west side.

Solano Canyon Drive is a two-lane roadway between Academy Road and Angels Point Road and has no posted speed limit. The land adjacent to this roadway is parkland within Elysian Park and there are no posted parking restrictions.



Park Row Drive / Park Row Street, as a continuous facility, is a two-lane roadway bordered by Elysian Park to the south of Solano Canyon Drive and to the west of the Arroyo Seco Parkway. On-street parking is prohibited south of Solano Canyon Drive at all times. No posted parking restrictions are provided west of the Parkway.

Grand View Drive is a roadway located to the north of Park Row Drive, which does not have a striped centerline. The adjacent land is part of Elysian Park and there are no posted parking restrictions or speed limits.

Interstate 5 (Golden State Freeway) is an eight-lane north-south interstate highway located to the north of the project site. This facility has multiple interchanges with Riverside Drive and Stadium Way in the vicinity of the study area and provides access between downtown Los Angeles on the south and the San Fernando Valley on the north.

State Route 110 (Arroyo Seco Parkway) is a six-lane north-south freeway that is located to the east of the project site, and also defines the eastern edge of Elysian Park. To the south of the I-10 freeway in downtown Los Angeles, the freeway is designated as Interstate 110 (Harbor Freeway). Truck traffic is prohibited along the older section of the freeway corridor that extends north of the US-101 (Hollywood Freeway). The I-110/SR-110 corridor provides access between San Pedro and Long Beach on the south and Pasadena on the north.

4.3 Existing Area Transit Service

The project study area is served by public transit bus lines operated by the County of Los Angeles Metropolitan Transportation Authority (Metro). Metro Line 96 is the only route that serves the study area, with stops along Riverside Drive. Transit service is not provided along Stadium Way or Academy Road. The approximate service frequency of Line 96 is 28 minutes during the weekday a.m. and p.m. peak hours.

4.4 Existing Intersection Levels of Service

This report section documents the existing weekday a.m. and p.m. peak-hour traffic operations within the study area. Based on the traffic counts conducted at the study intersections, a level of service (LOS) value and a corresponding volume-to-capacity (v/c) ratio was determined for each of the six locations. The Critical Movement Analysis (CMA) methodology, also known as the Circular 212 Planning methodology, was used to conduct these calculations. LADOT-provided spreadsheets were used to finalize the calculations.

Table 2 provides the v/c and LOS values for existing (2010) conditions, during the a.m. and p.m. peak hours.



Table 2 -Intersection Level of Service Calculations - Existing (2010) Conditions

				Weekday PM Peak	
Study Intersections	Scenario			V/C	LOS
I. Stadium Way / Riverside Dr	Non Game	0.651	В	0.660	В
	Game	0.568	Α	0.725	С
2. Stadium Way / I-5 SB on & off Ramps	Non Game	0.656	В	0.517	Α
	Game	0.611 B		0.619	В
3. Riverside Dr / I-5 NB on & off Ramps	Non Game	0.435	Α	0.368	Α
	Game	0.380 A		0.456	Α
4. Riverside Dr / NB on & off Ramps	Non Game	0.265	Α	0.309	Α
	Game	0.244	0.244 A		Α
5. Academy Rd (Major) / Academy Rd (Minor) *	Non Game	Excluded from AM		8.7	Α
	Game	peak analysis		9.0	Α
6. Academy Rd / Park - Solano Canyon Dr	Non Game	Excluded from AM		0.065	Α
	Game	peak ana	ılysis	0.102	Α

LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

The data in Table 2 indicates that all of the study intersections are currently operating at LOS C or better during the weekday peak hours on a scheduled Dodgers game day, and at LOS B or better on a non-game day. The differences in v/c values for game and non-game days during the a.m. peak hour are only based on differences in general traffic levels on both days and not the presence of significant Dodger Stadium traffic.

The existing (2010) peak-hour turn movement volumes at the study intersections are provided on Figure 4 (a.m. peak) and Figure 5 (p.m. peak), beyond Table 3.

The traffic count summaries are provided in Appendix B of this report. The intersection level of service worksheets for the existing conditions scenario are provided in Appendix C of this report.

4.6 Existing Roadway Segment Volumes

To provide conservative roadway analysis, similar to the study intersection analysis, the traffic counts on the study area roadway segments were conducted for two consecutive days, a scheduled game day via Dodger Stadium and a non-game day (typical weekday). Table 3 provides a summary of the average daily traffic (ADT) volumes, based on the September 2010 counts.

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.



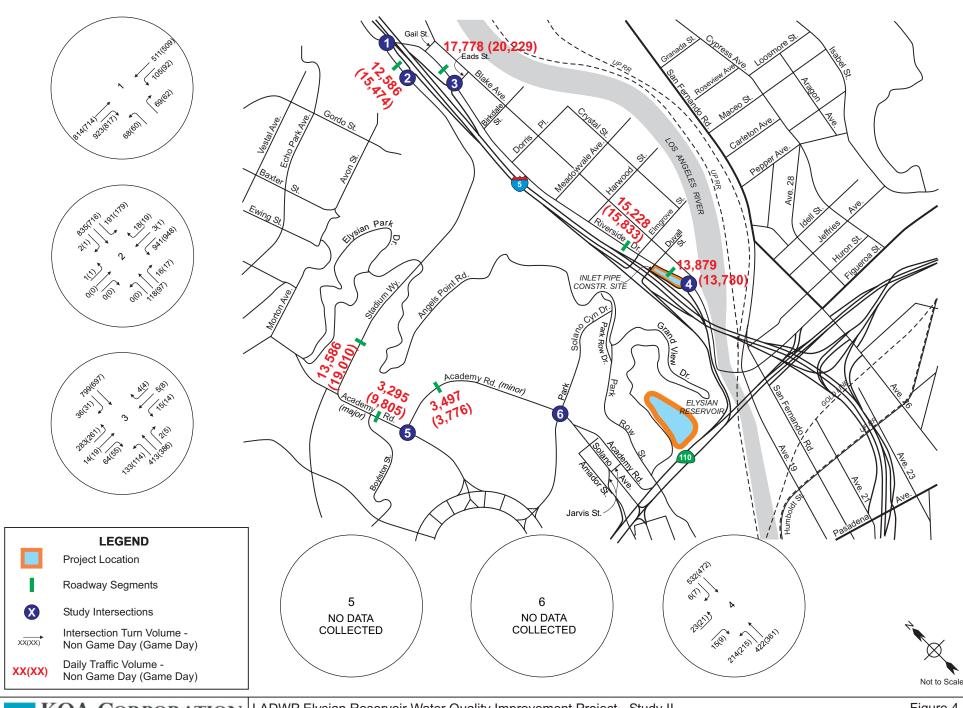
Table 3 - Study Roadway Segments - Existing (Year 2010)
Weekday Daily Vehicle Volumes

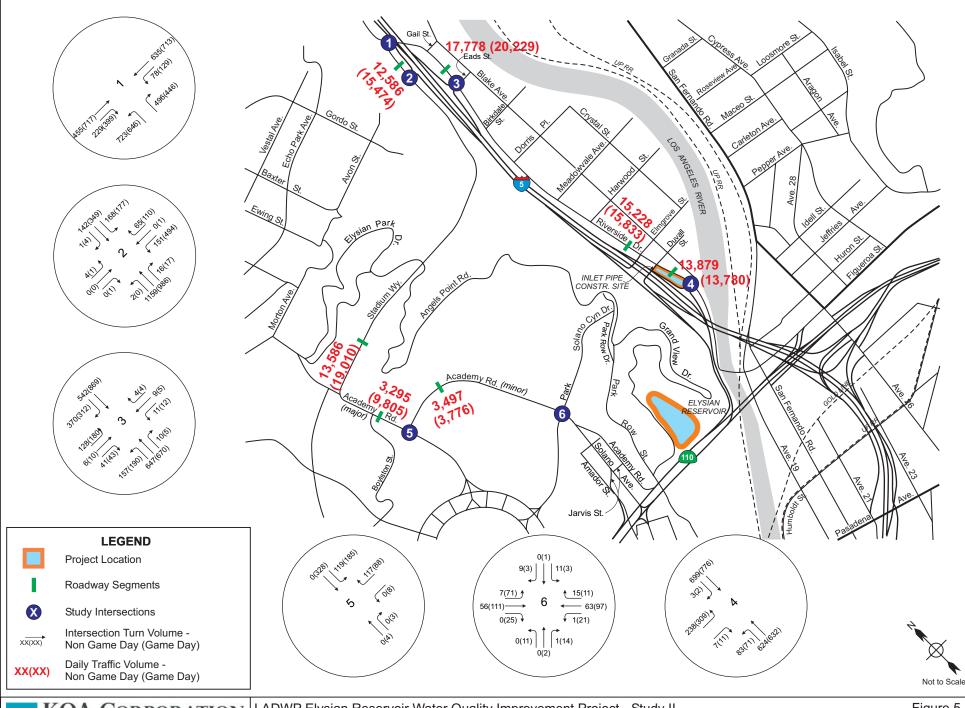
	Street Segments	None Game Day	Game Day
Α	Stadium Way,	12,586	15,474
В	Between Riverside Drive and I-5 southbound ramps Riverside Drive, Between Gail Street and Forney Street	17,778	20,229
С	Riverside Drive, Between Fernleaf Street and Elmgrove Street	15,228	15,833
D	Riverside Drive, Between Oros Street and I-5 northbound ramps	13,879	13,780
Е	Stadium Way, North of Academy Road	13,586	19,010
F	Academy Road, East of Stadium Way	3,295	9,805
G	Academy Road, North of Academy Road east-west segment	3,497	3,776

The data in Table 3 indicates that the highest daily vehicle volume on both game and non-game days is on Riverside Drive, between Gail Street and Forney Street, north of the I-5 northbound on and off ramps.

The existing (2010) average daily weekday volumes are provided on Figure 4 and Figure 5. The same values are provided on each figure, as daily volumes are not specific to either peak hour.

The traffic count summaries are provided within Appendix B to this report.





5. Future 2015 and 2019 No-Project Conditions

This section provides an analysis of "no-Project" Conditions in the study area with ambient growth and area project trips. Construction of the proposed Project is anticipated to be completed by the end of the year 2019. Some project construction scenarios would be complete in 2015.

Each project alternative has a different peak year of construction. The latest peak of the proposed Project would occur in the year 2019 during Phase 4 of construction. For the other project alternatives, the Floating Cover and Aluminum Cover alternatives, the peak construction activity year for both alternatives is 2015. The no-Project analysis for both years was defined and analyzed through modified applications of the ambient growth rate and consistent application of area projects volumes to the specific peak periods of the construction alternatives.

Therefore, this report section provides a definition of future base volumes used for the proposed Project analysis and the project alternatives analysis.

5.1 Ambient Growth

In order to forecast baseline traffic volumes for the no-Project analysis in the year 2019, year-2010 peak-hour traffic count volumes from the existing conditions scenario were increased by an ambient growth rate of 1% per year (a compounded factor of 1.0937).

Similar methodology was utilized to define the year-2015 no-Project baseline traffic volumes. Year-2010 peak-hour traffic count volumes from the existing conditions scenario were increased by an ambient growth rate of 1% per year (a compounded factor of 1.0510).

The application of these annual rates is consistent with sub-regional traffic growth data defined by the County of Los Angeles Congestion Management Program (CMP) document.

5.2 Area Projects

Two I.5-mile radius lines, from both the Reservoir and inlet line construction sites, were used to define a capture area for area approved and pending (cumulative) projects. The list of area projects was compiled based on information provided by LADOT staff, via databases maintained by both the West Los Angeles and the Valley Development Review offices. Twelve projects were defined within the study area for inclusion in the analysis.

The projects included within the area projects list would potentially contribute measurable traffic volumes to the study area during the future analysis period. The LADOT project database provides total peak-hour trips, compiled from environmental documentation or traffic studies. The in/out trip generation ratios applied to the area projects were based on rates within *Trip Generation (8th Edition)*, published by the Institute of Transportation Engineers.

The area projects included in this study for future period analysis, and the trip generation of each, are provided in Table 4.



	Table 4	l – Area	Projec	ts Trip	Generation	Forecast
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Мар				<u> </u>		Daily	AM Peak		PM Peak			
#	Project Name	Location	Land use	Intensity	Units	Total	Total	In	Out	Total	In	Out
			Condos	223	d.u.							
	Discourage Mr. allia Davisa	000 N.B	Retail	22.008	k.s.f.	2,823	162	84	78	184	109	75
'	Blossom Plaza - Mixed Use Project	900 N Broadway	Restaurant	175.000	k.s.f.	2,823	162	84	/8	184	109	/5
			Cultural Center	7.000	k.s.f.							
2	Supermarket & Retail	500 N Bunker Hill Ave	Supermarket	17.000	k.s.f.	1.924	60	37	23	189	96	93
2	Supermarket & Retail	300 IN Bulker Hill Ave	Retail	4.200	k.sf.	1,724	60	37	23	107	70	73
3	LAUSD - Central Region	San Fernando RD & Division St	High School	2,295	Students	3,402	780	640	140	162	104	58
3	High School #13	San Fernando KD & Division St	Adult School	540	Students	3,402	760	040	140	102	104	30
4	Chinatown Gateway Project	Cesar E Chavez St & N Broadway	Apartment	280	d.u.	2.665	152	30	122	247	161	86
*	Chinatown Gateway Project	Cesar E Chavez St & N Broadway	Retail	22.000	k.s.f.	2,003	132	30	122	247	101	00
5	Chinatown Condos	I I O I N Main St	condos	300	d.u.	1,102	71	12	59	87	58	29
6	PUC Charter School	1855 N Main St	Elementary School	550	Students	1.115	280	154	126	115	56	59
6	PUC Charter School	1855 N Main St	Middle School	230	Students	1,115	260	154	126	113	36	37
	Taylor Yard Village -		Apartments	164	d.u.							
7	Mixed-Use	1555 N San Fernando Rd	Condos	290	d.u.	2,940	166	33	133	240	156	84
	Mixed-Ose		Retail	25.000	k.s.f							
			Condos	272	d.u.							
8	Bunker Hill Mixed-Use	720 W Cesar E Chavez Av	Retail	6.431	d.u.	1,639	112	58	54	147	87	60
			Restaurant	8.000	k.s.f							
9	LAUSD Early Educational Center &	3000 N Verdugo Rd	Early Education	175	Students	302	23	12	П	28	13	15
	Affordable Housing Project	3000 N Verdugo Kd	Apartments	45	d.u.	302	23	12	"	20	13	13
10	Apartments	715 N Yale St	Apartments	65	d.u.	437	34	7	27	40	26	14
			Retail	23.750	k.s.f.							
- 11	LA Dodger Stadium the	1000 W Elysian Park Ave	Restaurant	38.490	k.sf.	4,456	199	103	96	48	28	20
11	Next 50 Years		Museum	35.570	k.s.f.							
			Office	138.565	k.sf.							
12	Marrie Barrer	030 NIV(C	Bus Maintenance &	271	Buses	1027	72	/2		75	- 12	- (2
12	Metro Bus Facility	920 N Vignes St	Operation	647	Employees	1927	72	63	9	75	13	62
	Total		•			24,732	2,111	1,233	878	1,562	907	655

Source: LADOT provided the list of area projects and trip generation.

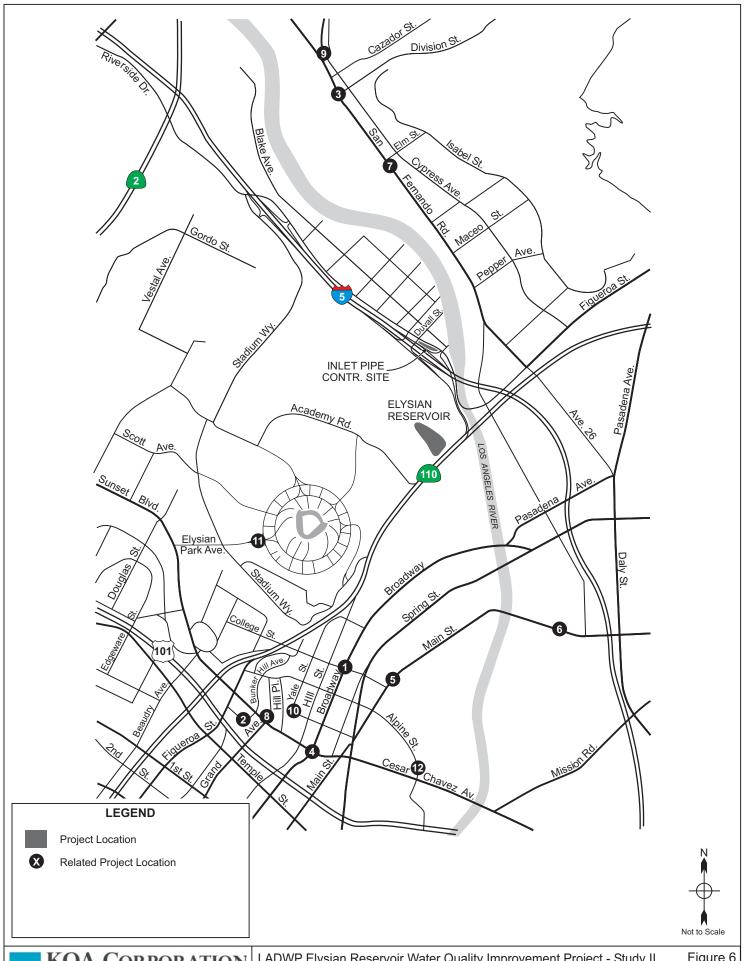
Table 4 indicates that the area projects are expected to generate approximately 24,732 weekday daily trips, of which 2,111 trips (1,233 inbound trips and 878 outbound trips) would occur during the a.m. peak hour and 1,562 trips (907 inbound trips and 655 outbound trips) would occur during the p.m. peak hour.

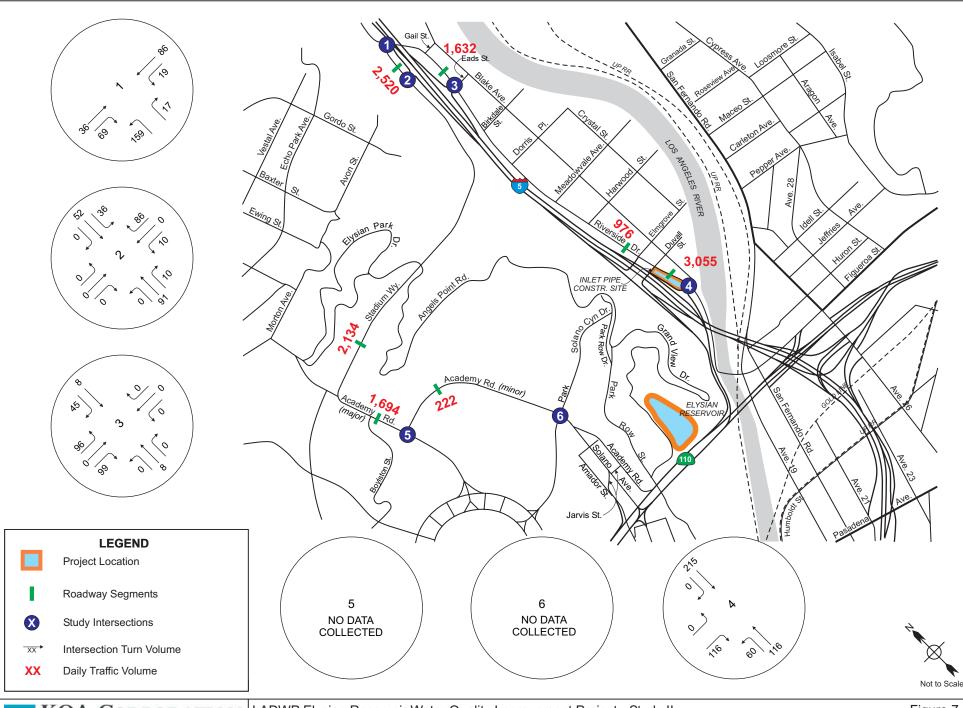
Figure 6 illustrates the locations of the included area projects. The area projects trip assignment is illustrated on Figure 7 (a.m. peak) and Figure 8 (p.m. peak).

5.3 Intersection Levels of Service - 2015

To analyze future conditions in the year 2015 without the proposed Project, intersection turn volumes with ambient growth and trips generated by area projects were analyzed using the same methodology applied to the existing conditions analysis.

Table 5 provides the a.m. and p.m. peak-hour results of this analysis for the study intersections.





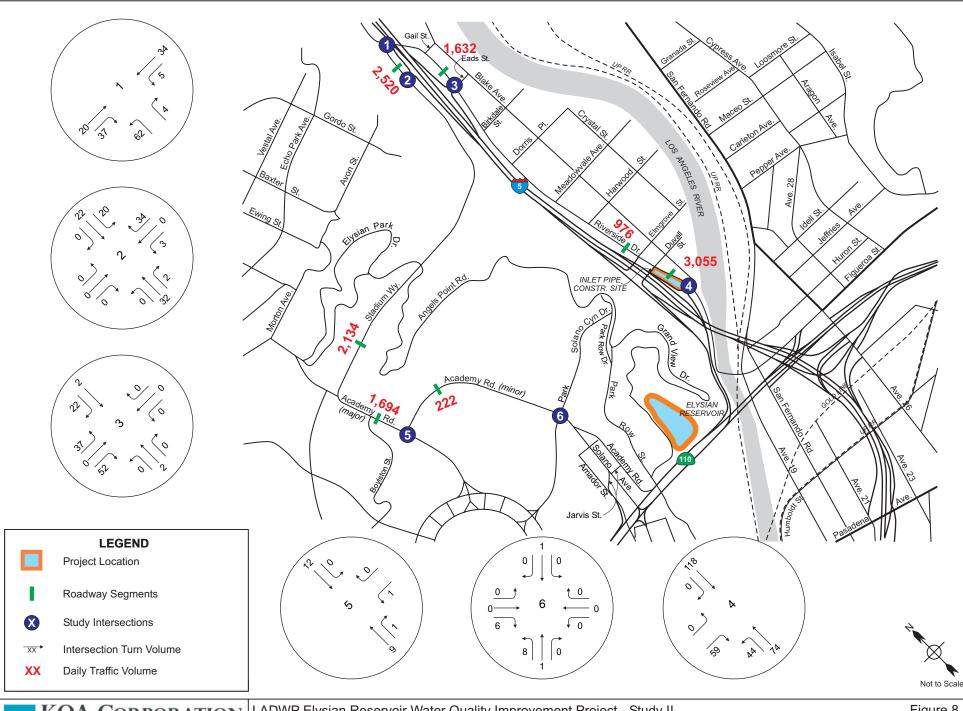




Table 5 – Level of Service Calculations – Future (Year-2015)
No-Project Construction Conditions

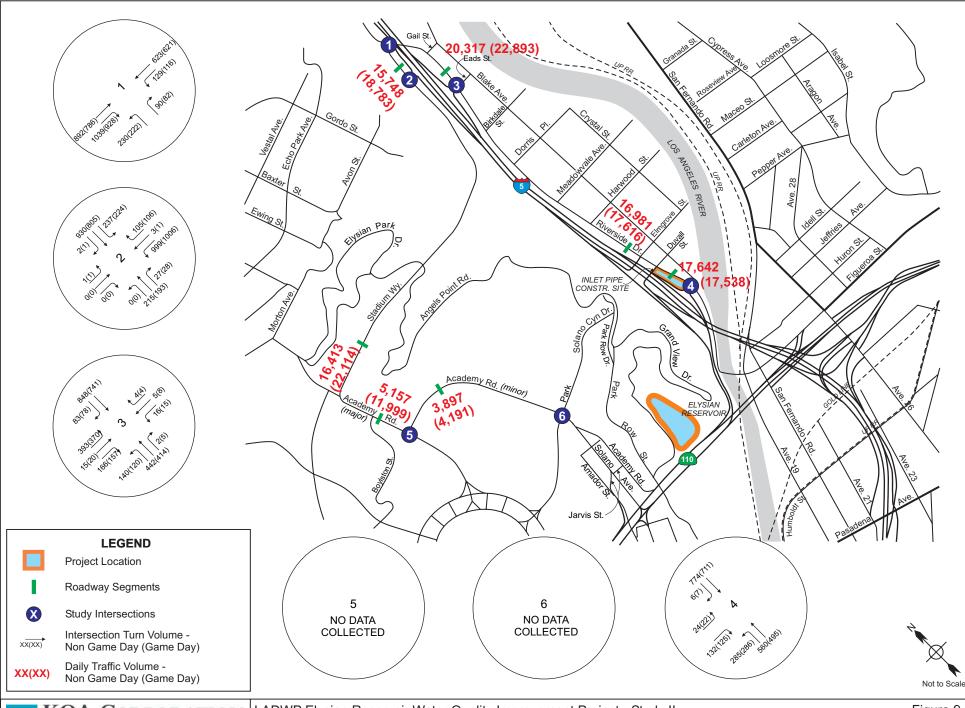
		Weekday AM Peak		Weekday PM Peak	
		V/C or Delay		V/C or Delay	
Study Intersections	Scenario	(secs.) LOS		(secs.)	LOS
I. Stadium Way / Riverside Dr	Non Game	0.720	С	0.723	С
	Game	0.632	В	0.790	С
2. Stadium Way / I-5 SB on & off Ramps	Non Game	0.697	В	0.543	Α
	Game	0.651	В	0.675	В
3. Riverside Dr / I-5 NB on & off Ramps	Non Game	0.470	Α	0.390	Α
	Game	0.413	Α	0.468	Α
4. Riverside Dr / NB on & off Ramps	Non Game	0.438	Α	0.387	Α
	Game	0.414 A		0.434	Α
5. Academy Rd (Major) / Academy Rd (Minor) *	Non Game	Excluded from AM		8.8	Α
	Game	peak analysis		9.1	Α
6. Academy Rd / Park - Solano Canyon Dr	Non Game	Excluded from AM		0.067	Α
	Game	peak ana	lysis	0.107	Α

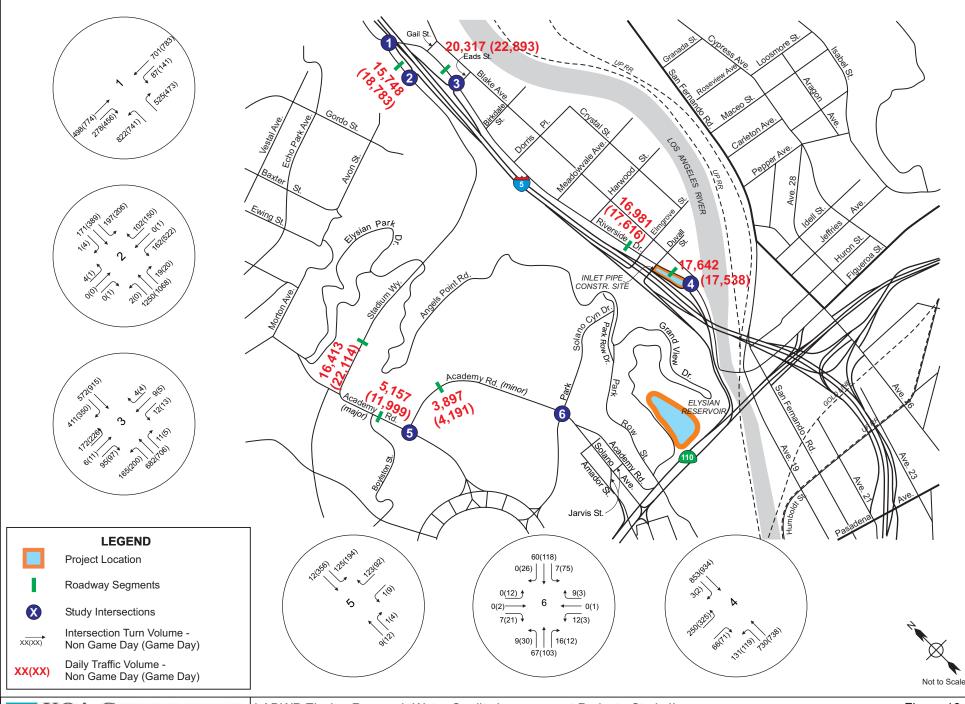
LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

Under this scenario, all of the study intersections would continue to operate at LOS C or better during the weekday peak hours on both game and non-game days at Dodger Stadium.

The study intersection analysis worksheets for this scenario are provided in Appendix D of this report (provides all scenarios for the proposed Project analysis). The analyzed peak-hour traffic volumes at the study intersections for this scenario are provided on Figure 9 (a.m. peak) and Figure 10 (pm. peak).

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.







5.4 Study Roadway Segment Volumes - 2015

Table 6 provides the average daily traffic volumes for year-2015 conditions on the study roadway segments, based on the application of ambient growth and the calculated daily trips from the included area project.

Table 6 - Study Roadway Segments - Future (Year 2015)
No-Project Daily Vehicle Volumes

	Street Segments	None Game Day	Game Day
Α	Stadium Way, Between Riverside Drive and I-5 southbound ramps	15,748	18,783
В	Riverside Drive, Between Gail Street and Forney Street	20,317	22,893
С	Riverside Drive, Between Fernleaf Street and Elmgrove Street	16,981	17,616
D	Riverside Drive, Between Oros Street and I-5 northbound ramps	17,642	17,538
Е	Stadium Way, North of Academy Road	16,413	22,114
F	Academy Road, East of Stadium Way	5,157	11,999
G	Academy Road, North of Academy Road east-west segment	3,897	4,191

The data in Table 6 indicates that the highest daily vehicle volume on both game and non-game days is at Riverside Drive, between Gail Street and Forney Street, north of the I-5 northbound on and off ramps.

The future (2015) average daily volumes are provided on Figure 9 (a.m. peak) and Figure 10 (p.m. peak), introduced earlier in this report section.

5.5 Intersection Levels of Service - 2019

To analyze future year-2019 conditions without the proposed project, intersection turn volumes with ambient growth and trips generated by area projects were analyzed using the same methodology used for the existing conditions analysis.

Table 7 provides the a.m. and p.m. peak-hour results of this analysis for the study intersections.



Table 7 – Level of Service Calculations – Future (Year-2019)
No-Project Construction Conditions

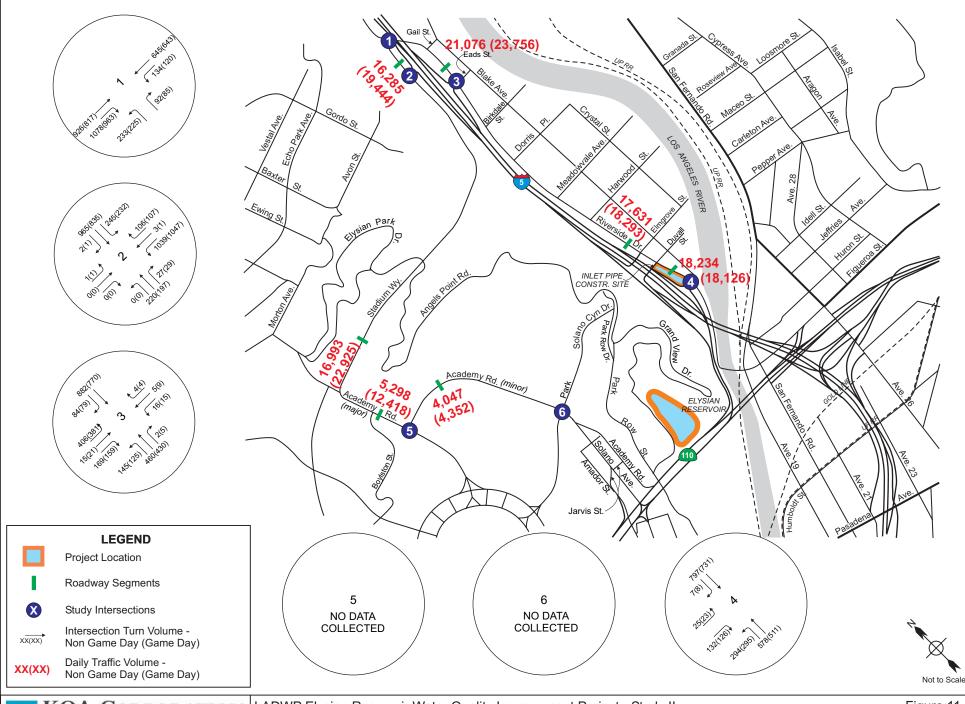
		Week	•	Week	•
Study Intersections	Scenario	V/C	LOS	V/C	LOS
I. Stadium Way / Riverside Dr	Non Game	0.751	С	0.754	С
	Game	0.659	В	0.824	D
2. Stadium Way / I-5 SB on & off Ramps	Non Game	0.728	С	0.568	Α
	Game	0.680	В	0.704	С
3. Riverside Dr / I-5 NB on & off Ramps	Non Game	0.492	Α	0.409	Α
	Game	0.432	Α	0.490	Α
4. Riverside Dr / NB on & off Ramps	Non Game	0.452	Α	0.403	Α
	Game	0.427	Α	0.452	Α
5. Academy Rd (Major) / Academy Rd (Minor) *	Non Game	Excluded fr	om AM	8.8	Α
	Game	peak analysis		9.1	Α
6. Academy Rd / Park - Solano Canyon Dr	Non Game	Excluded fr	Excluded from AM		Α
	Game	peak ana	lysis	0.112	Α

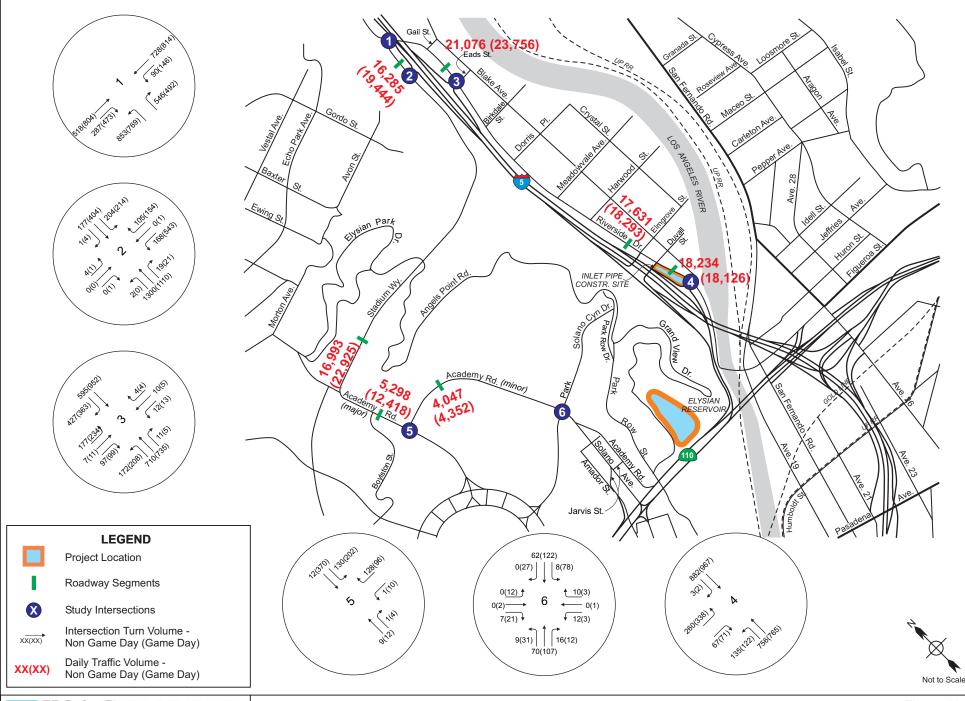
LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

Under this scenario, all of the study intersections would continue to operate at LOS D or better during the weekday peak hours on game days. On non-game days, the worst-case LOS would be C.

The intersection analysis worksheets for this scenario are provided in Appendix E of this report. The analyzed peak-hour traffic volumes at the study intersections for this scenario are provided on Figure 11 (a.m. peak) and Figure 12 (pm. peak).

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.







5.6 Study Roadway Segment Volumes - 2019

Table 8 provides the average year-2019 daily traffic volumes for the year-2019 pre-project scenario on the study roadway segments.

Table 8 - Study Roadway Segments - Future (Year 2019)
No-Project Daily Vehicle Volumes

	Street Segments	None Game Day	Game Day
Α	Stadium Way, Between Riverside Drive and I-5 southbound ramps	16,285	19,444
В	Riverside Drive, Between Gall Street and Forney Street	21,076	23,756
С	Riverside Drive, Between Fernleaf Street and Elmgrove Street	17,631	18,293
D	Riverside Drive, Between Oros Street and I-5 northbound ramps	18,234	18,126
Е	Stadium Way, North of Academy Drive	16,993	22,925
F	Academy Drive, East of Stadium Way	5,298	12,418
G	Academy Drive, North of Academy Drive east-west segment	4,047	4,352

The data in Table 8 indicates that the highest daily vehicle volume on both game and non-game days is at Riverside Drive, between Gail Street and Forney Street, north of the I-5 northbound on and off ramps.

The future (2019) average no-project daily volumes are provided on both Figure 11 (a.m. peak) and Figure 12 (p.m. peak), introduced earlier in this report section.

6. Project Construction and Post Project Trip Generation Forecasts

This section provides definitions for truck and employee vehicle trip generation during the peak period of project construction for each alternative, along with the distribution and assignment of those trips to the study area roadway network. To evaluate a worst-case scenario for construction trip generation of the proposed Project and three alternatives, it is assumed that each employee will drive to and from work with some carpooling.

In converting trucks to passenger car equivalents, a Passenger Car Equivalent (PCE) factor of 2.5 was assumed. This factoring was used to increase truck volumes due to the additional roadway space and design capacity utilized by trucks. The applied value matches typical factors used in area studies that include trips generated by trucking activities. The factor is based on conservative factors defined by the Southern California Association of Governments (SCAG) Heavy Duty Truck Model.

This is a planning-level analysis of construction activity, used for the purposes of determining traffic impacts during the project construction period. Prior to initiating construction, a detailed construction plan will be developed by the construction manager to identify necessary resources and to define the construction supervisory and technical field organization and staffing levels required for the project. The methods and procedures for sequencing and implementing construction operations will also be detailed in the construction plan. In addition, a project safety program will be developed by the operator, consistent with federal and state requirements. This is a standard LADWP procedural requirement.

Therefore, basic construction details defined for the project planning process have been used to analyze potential construction-period impacts.

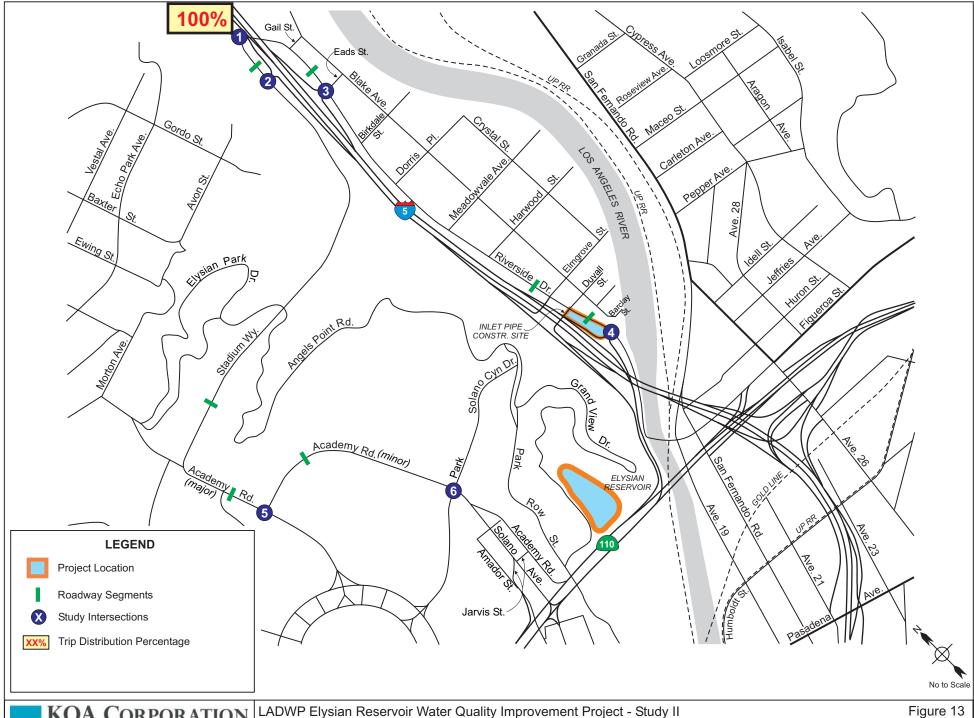
6.1 Construction Project Trip Distribution

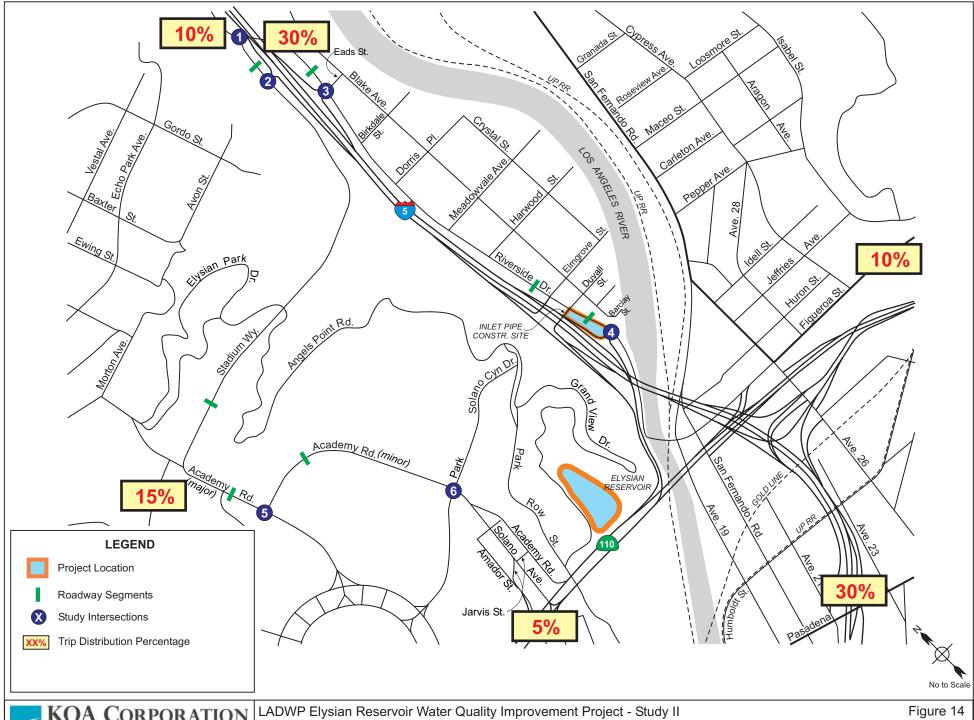
The distribution of construction truck trips was assumed to be primarily freeway-oriented. For the I-5 freeway to the north of the study area, 100 percent of the truck trips were assigned to that corridor and roadways between the Project site and the applicable I-5 interchanges. Trucks will enter the site via Park-Solano Canyon Drive, and road closures are anticipated during construction within Elysian Park on Grand View Drive. The new inlet pipeline truck access will occur via a nearby southbound I-5 off-ramp (to the north of the pipeline construction site) and via a nearby northbound on-ramp (to the south of the site), both on Riverside Drive.

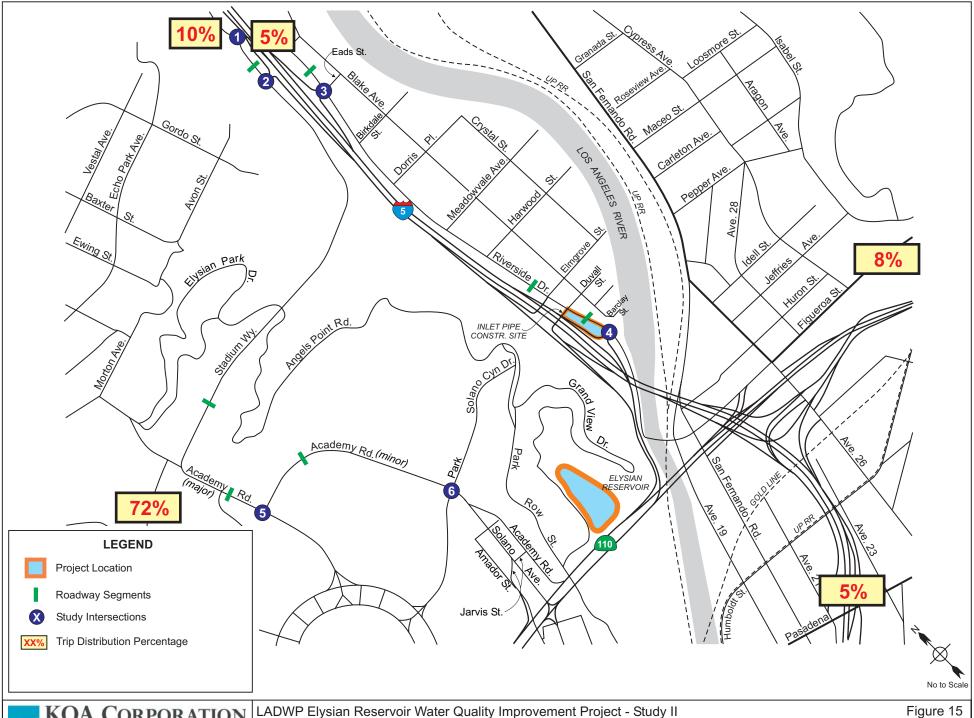
The distribution pattern for analyzed employee trips assumed that employees would arrive on-site from all directions. A total of 60 percent was distributed to the I-5 freeway, with 30 percent distributed to the north of the study area and 30 percent to the south. For the remaining 40 percent, it was assumed that these employee trips would arrive at the site through local streets to avoid peak-period traffic or to reach the site from nearby local neighborhoods.

Based on project characteristics and the routes between the site access points and the nearby freeway interchanges, the project trip distribution patterns illustrated on Figure 13 (construction truck trips) and in Figure 14 (construction employee vehicle trips) were developed.

Under the proposed Project scenario, the proposed park use would be open to the public after completion of the concrete roof construction period. Figure 15 illustrates the proposed park trip distribution pattern.









Trip generation calculations are provided below for the proposed Project, Alternative 2 (Floating Cover), and Alternative 3 (Aluminum Cover). Trip generation calculations were not provided for Alternative I, as that scenario represents a "no-build" project alternative under which no new vehicle or truck trips would be generated.

The proposed Project will be constructed in five phases over a period of approximately five and a-half years. Trip generation for employees and trucks will vary depending on the phase, and therefore the worst-case period for the construction trip generation was evaluated based on the construction plan and related monthly activity estimates.

6.2 Proposed Project Construction – Peak Hour Trip Generation

Table 9 provides the peak hour trip generation calculations for the construction of the proposed Project, based on the number of on-site employees and number of daily truck trips from the peak month of construction.

Table 9 - Peak Hour Project Construction Trip Generation - Proposed Project (Buried Concrete)

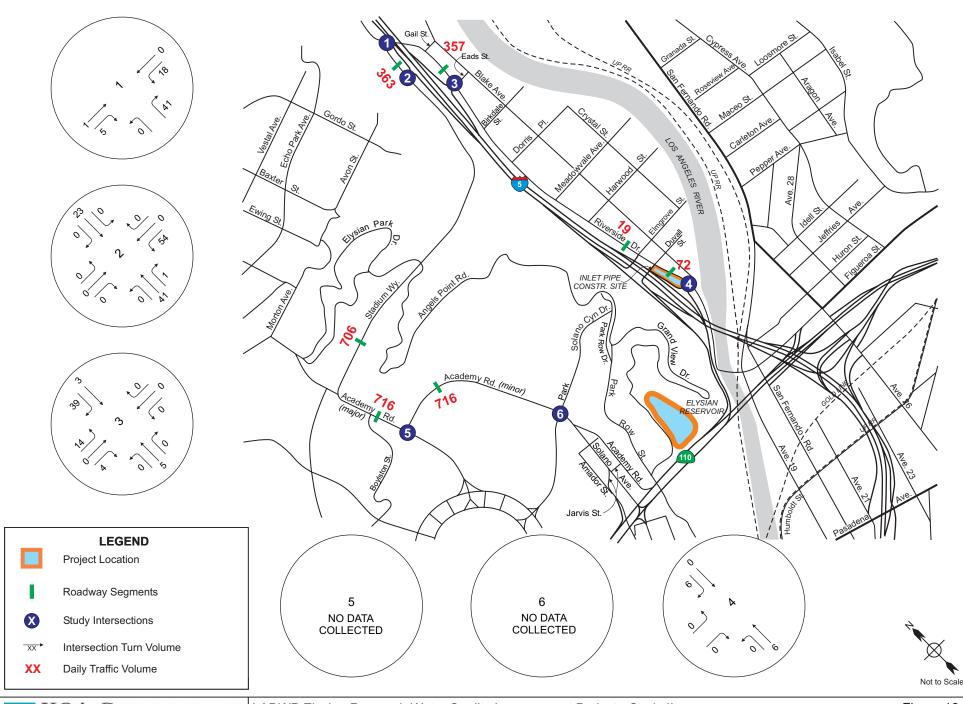
			Weekday	Weekday	Weekday	Weekday	Weekday	Weekday
Project Scenario	Generator	Daily	AM Total	AM IN	AM OUT	PM Total	PM IN	PM OUT
Concrete Roof	Employees [a]	90	45	45	0	45	0	45
	Trucks [b]	630	79	40	39	79	40	39
тот	720	124	85	39	124	40	84	

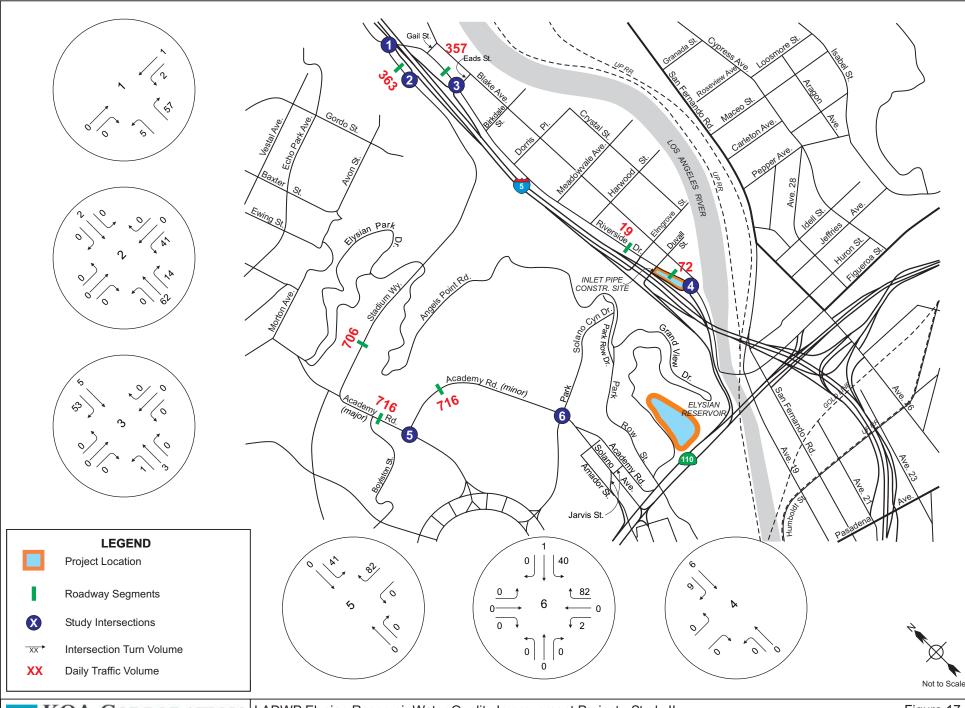
[[]a] Employee trips = I vehicle/employee

The number of employee trips was based on the assumption that all 45 employees would arrive within the a.m. peak hour and depart within the p.m. peak hour. The number of truck trips was based on a typical eight-hour shift, with delivery truck trips distributed evenly throughout the day. Based on a daily total of 252 truck trips (630 truck trips with PCE factoring), 32 truck trips (79 truck trips with PCE factoring) would occur during both the a.m. and p.m. peak hours. The total construction trip generation with PCE factoring would be 720 daily trips, of which 124 trips would occur during each of the peak hours.

The overall assignment of the project construction trips to the study area for this construction scenario is provided on Figure 16 (a.m. peak) and Figure 17 (pm. peak). The assignment of daily construction trips are provided on both figures as well.

[[]b] Vehicle trips = 2.5 PCE x truck trips







6.3 Project Alternative 2 (Floating Cover) - Construction Trip Generation

The Floating Cover Alternative (Alternative 2) will be constructed in three phases over a period of approximately one and one-half years. The worst-case period for the construction trip generation was evaluated in a similar manner to that applied to the proposed Project.

Table 10 provides the peak hour trip generation calculations for this construction scenario, based on the number of on-site employees and the number of daily truck trips.

Table 10 - Peak Hour Construction Trip Generation - Floating Cover Alternative

			Weekday	Weekday	Weekday	Weekday	Weekday	Weekday
Project Scenario	Generator	Daily	AM Total	AM IN	AM OUT	PM Total	PM IN	PM OUT
Floating Cover	Employees [a]	144	72	72	0	72	0	72
	Trucks [b]	170	21	П	10	21	- 11	10
ТОТ	314	93	83	10	93	Ш	82	

[[]a] Employee trips = I vehicle/employee

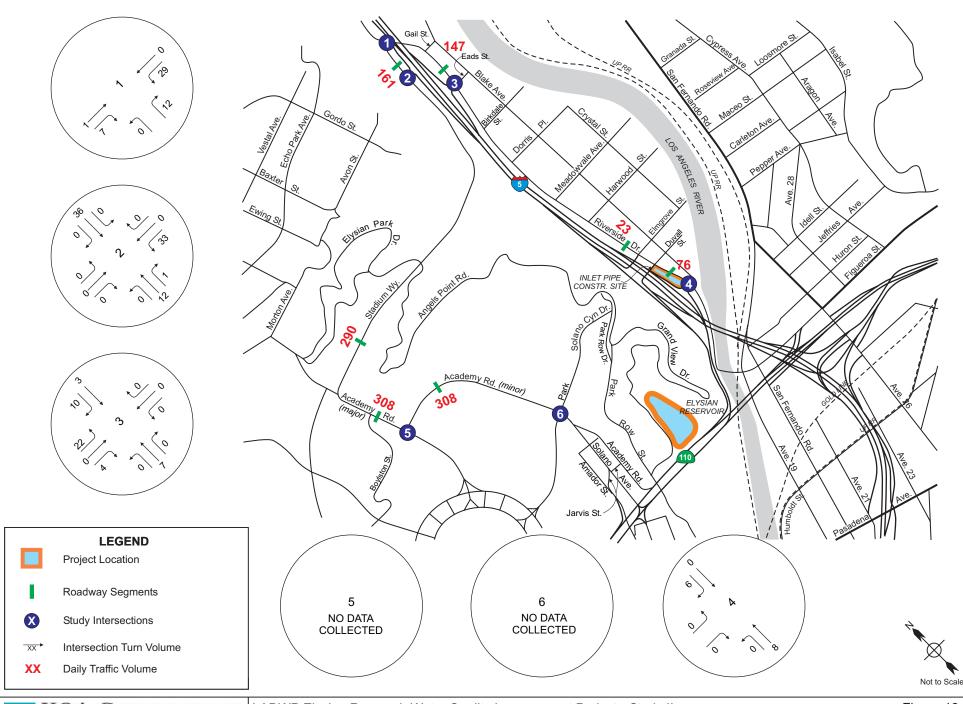
The number of employee trips was based on the assumption that all 72 employees would arrive within the a.m. peak hour and depart within the p.m. peak hour. The number of truck trips was based on a typical eight-hour shift, with delivery truck trips distributed throughout the day. Based on a daily total of 68 truck trips (170 truck trips with PCE factoring), 8 truck trips (21 truck trips with PCE factoring) would occur during both the a.m. and p.m. peak hours. The total construction trip generation with PCE factoring would be 314 daily trips, of which 93 trips would occur during each of the peak hours.

The overall assignment of the project construction trips to the study area for this construction scenario is provided on Figure 18 (a.m. peak) and Figure 19 (pm. peak). The assignment of daily construction trips are provided on both figures as well.

6.4 Project Alternative 3 (Aluminum Cover) - Construction Trip Generation

The Aluminum Cover Alternative (Alternative 3) will be constructed in three phases over a period of approximately four years. The worst-case period for the construction trip generation was evaluated in a similar manner to that applied to the proposed Project.

[[]b] Vehicle trips = 2.5 PCE x truck trips



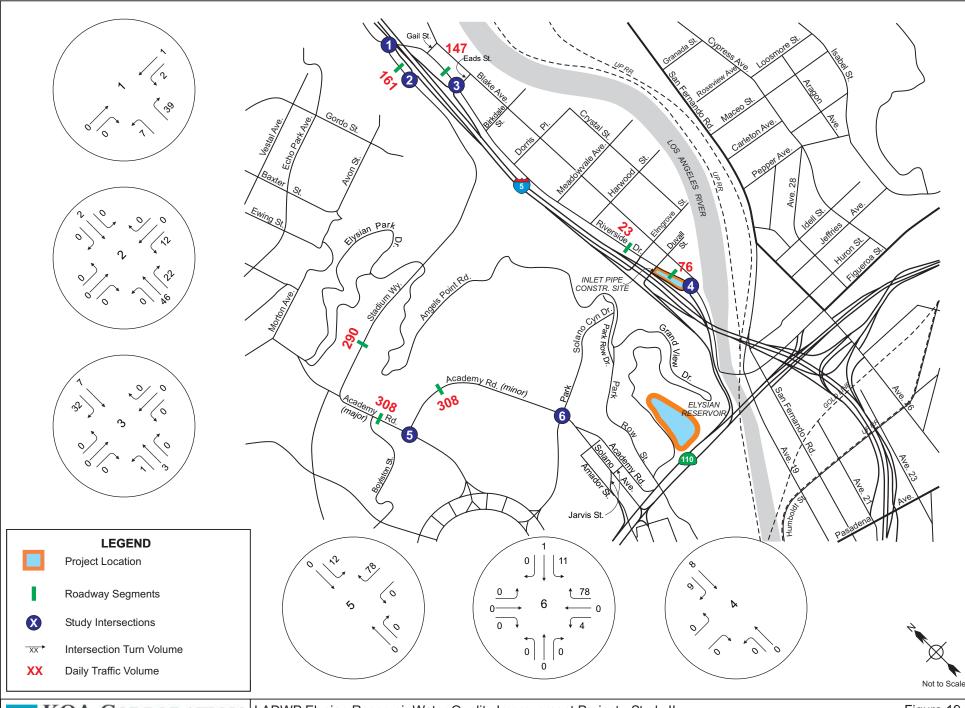




Table 11 provides the peak hour trip generation calculations for the Aluminum Cover construction scenario, based on the number of on-site employees and the number of daily truck trips.

Table II - Peak Hour Construction Trip Generation - Aluminum Cover Alternative

Project Scenario	Generator	Daily	Weekday AM Total	Weekday AM IN	,	Weekday PM Total	,	Weekday PM OUT
Aluminum Cover	Employees [a]	144	72	72	0	72	0	72
	Trucks [b]	230	29	15	14	29	15	14
TOT	374	101	87	14	101	15	86	

[a] Employee trips = I vehicle/employee

The number of employee trips was based on the assumption that all 72 employees would arrive within the a.m. peak hour and depart within the p.m. peak hour. The number of truck trips was based on a typical eight-hour shift, with delivery truck trips distributed throughout the day. Based on a daily total of 92 truck trips (230 truck trips with PCE factoring), 12 truck trips (29 truck trips with PCE factoring) would occur during both the a.m. and p.m. peak hours. The total construction trip generation with PCE factoring would be 374 daily trips, of which 101 trips would occur during each of the peak hours.

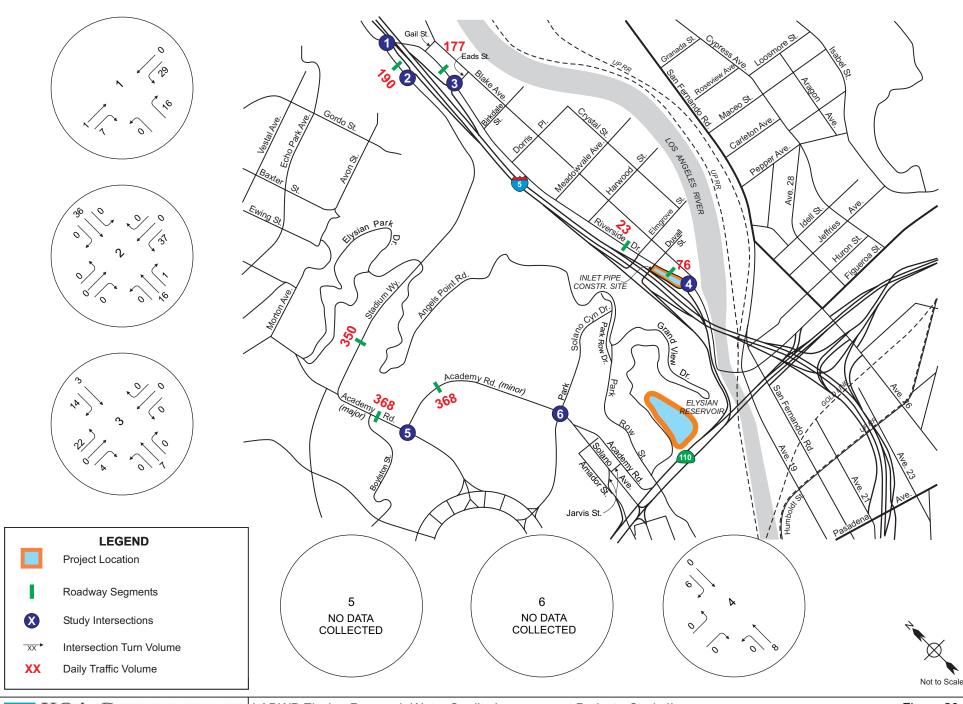
The overall assignment of the project construction trips to the study area for this construction scenario is provided on Figure 20 (a.m. peak) and Figure 21 (pm. peak). The assignment of daily construction trips are provided on both figures as well.

6.5 Inlet Line – Construction Trip Generation

The new inlet line construction will be constructed concurrently with the reservoir construction. At both construction sites are physically separated. Inlet line construction would occur over a period of approximately 25 months. The worst-case period for the construction trip generation was evaluated in a similar manner to that applied to the proposed Project and the two alternatives.

Table 12 provides the peak hour trip generation calculations for the inlet line construction activities, based on the number of on-site employees and the number of daily truck trips.

[[]b] Vehicle trips = 2.5 PCE x truck trips



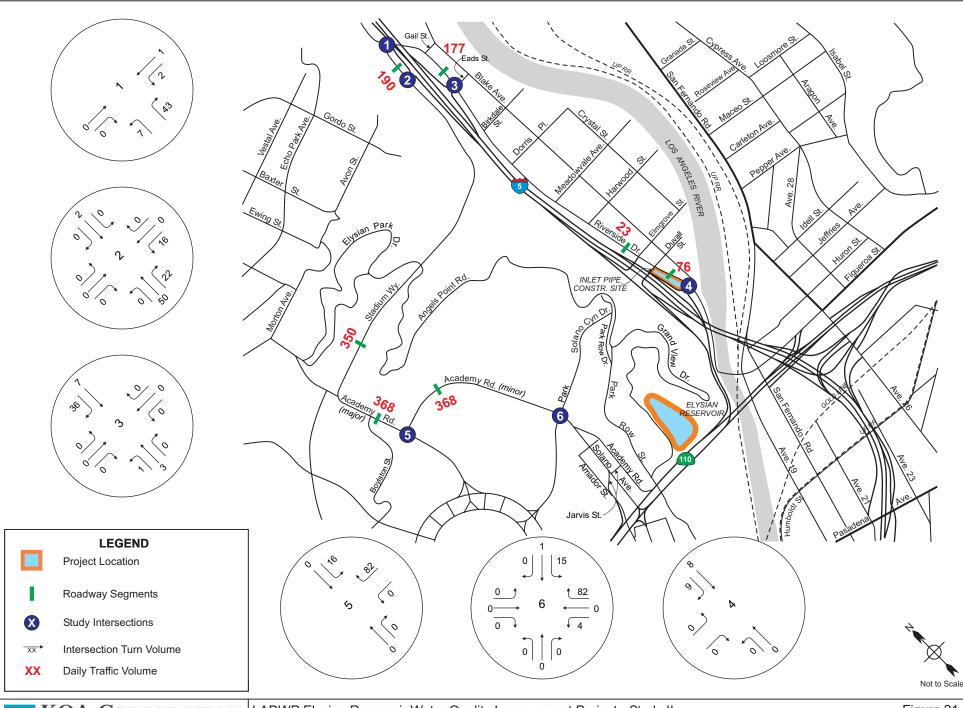




Table 12 - Peak Hour Construction Trip Generation -
Inlet Pipeline

			Weekday	Weekday	Weekday	Weekday	Weekday	Weekday
Project Scenario	Generator	Daily	AM Total	,	AM OUT	PM Total	PM IN	PM OUT
Aluminum Cover	Employees [a]	20	10	10	0	10	0	10
	Trucks [b]	95	12	6	6	12	6	6
тот	115	22	16	6	22	6	16	

[[]a] Employee trips = I vehicle/employee

The number of employee trips was based on the assumption that all 10 employees would arrive within the a.m. peak hour and depart within the p.m. peak hour. The number of truck trips was based on a typical eight-hour shift, with delivery truck trips distributed throughout the day. Based on a daily total of 38 truck trips (95 truck trips with PCE factoring), five truck trips (12 truck trips with PCE factoring) would occur during both the a.m. and p.m. peak hours.

Since the new inlet pipeline construction will occur concurrently with the reservoir construction, the generated construction trips were included with the analysis of the Buried Concrete (proposed Project) alternative and the two alternatives (Floating Cover and Aluminum Cover).

6.6 Post-Project Trip Generation - Proposed Park

Under the proposed project, public access to the Elysian Reservoir property would be provided for recreational purposes. Public access is a component of the proposed Project based on the public investment in the buried concrete reservoir.

The final determination of the recreation functions characteristics that would be provided at the Elysian Reservoir property would require a separate planning process that would involve community, LADRP, LADWP, and City Council office participation and would occur after 2015, at a date closer in time to the implementation of any recreation improvements at the property. Impacts of a potential park use within the Project site area have been analyzed here, however, based on a conservative level of recreational development.

This development plan may provide for a range of passive or active recreation uses, but for the purposes of impact analysis in this EIR, the recreation facilities include up to three soccer fields; a skate plaza; playground; perimeter walking/jogging path with exercise stations; recreation building(s) housing restrooms, concession areas, offices, and equipment storage areas; and a maintenance storage yard; and the associated parking area. These elements would encompass an area of six to eight acres and would be contained within the existing reservoir property.

Recreation functions would be permitted during daylight hours only. The peak parking demand at the site would occur during the overlap between arriving and departing participants for consecutively scheduled activities. During peak use hours on weekend days, it is anticipated that approximately 188 vehicle trips to and from the site could be generated by the recreation activity associated with the proposed facilities. The athletic fields would be the most intense use in the park area and therefore are the primary generator of vehicle trips to and from the park use.

Use of the athletic fields and other facilities would be scheduled through LADRP. A gate would be installed

[[]b] Vehicle trips = 2.5 PCE x truck trips



at the entrance to the site that would be opened in the morning and closed at dusk.

Table 13 summarizes the proposed park trip generation estimate for the proposed Project. The rates applied to the a.m. peak hour were taken from *Trip Generation (8th edition)*, published by the Institute of Transportation Engineers. The trips for the p.m. peak hour were calculated using assumptions of sports team sizes and in/out activity rates defined by p.m. rates from *Trip Generation*. This provided a more conservative number of trips than would have been provided through the application of typical acreage-based rates for park uses.

Table 13 - Peak Hour Trip Generation - Proposed Park

Land Use	ITE Code	Intensity	Units	Weekday Daily	Weekday AM Total	Weekday AM IN	Weekday AM OUT	Weekday PM Total	Weekday PM IN	Weekday PM OUT	Saturday Daily ***	Saturday Total	Saturday IN	Saturday OUT
	TRIP GENERATION RATES													
Soccer Fields	488	-	fields	*lolok	1.40	50%	50%	Rates taken from team size-based calcs, with 18 players per team and a rate of 1.5 players per vehicle. Total trips would be 12 round trips per team and 24 per field.						
						PROPOSED	TRIP GENE	RATION						
Soccer Fields	488	3	fields	235	5	3	2	188	94	94	564	188	94	94

^{* &#}x27;Soccer complex', as defined by ITE, includes ancillary amenities such as a fitness trail, picnic grounds, playground, etc.

Table 13 indicates that the proposed park use would generate 235 weekday daily trips, of which 5 trips would occur during the a.m. peak hour and 188 trips would occur during the p.m. peak hour. The a.m. peak hour trips would be negligible, as organized activities would not be occurring within the park during that time. An estimated 188 trips would be generated during the Saturday mid-day hour, but not overlapping the peak weekday usage time for area roadways.

Based on the current area programs for the American youth Soccer Organization (AYSO), team sizes range from 11 to 18 players. A conservative assumption of 18 players per team was used for the soccer field trip generation calculations. All players would assume to arrive by car, and a rate of 1.5 players per car was used. The soccer fields would be expected to generate 12 vehicles per team, or 24 vehicles per field, with a total to 72 vehicles when three games occur simultaneously.

The following illustrates the trips associated with overlapping soccer games.

			in/out rates:	in	out *		in *	out	1		
			iii/Out rates.	100%	31%		31%	100%			
						-					
Fields	players	vehicles	starting	in	out	ending	in	out	TOTAL	in	out
3	108	72	94	72	22	94	22	72	188	94	94
Fields x players ÷ 1 5 =			72	vehicles		72	vehicles				

Assumptions:

II-18 players (18-player maximum size team)

I.5 players per car

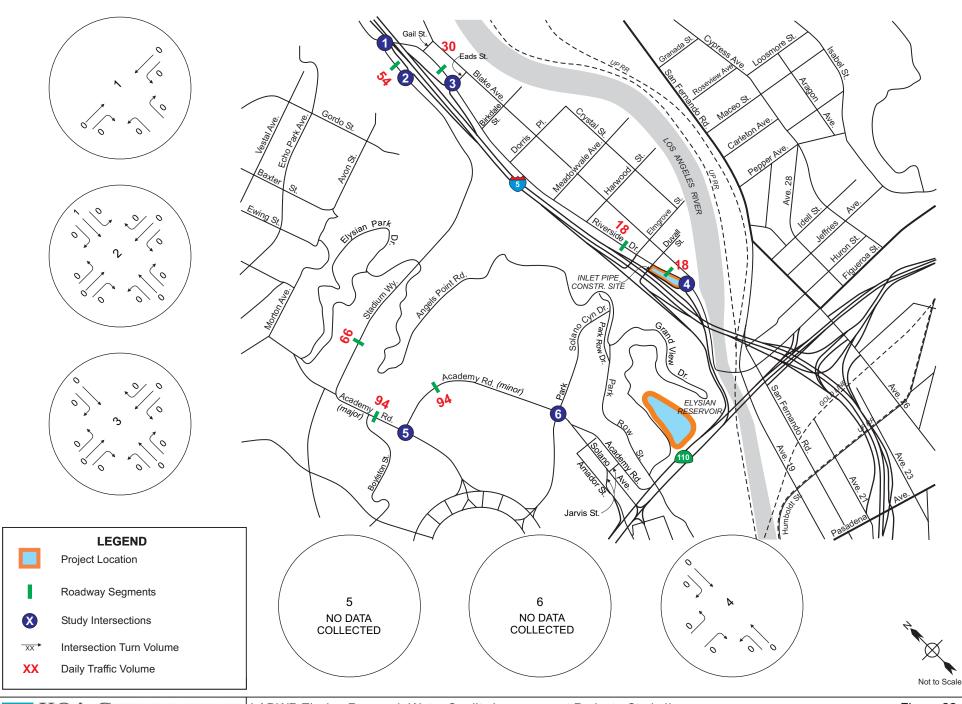
^{**} Weekday p.m. and Saturday mid-day peak rates were taken from rates developed for this study, as those rates were higher and more conservative than those provided by ITE.

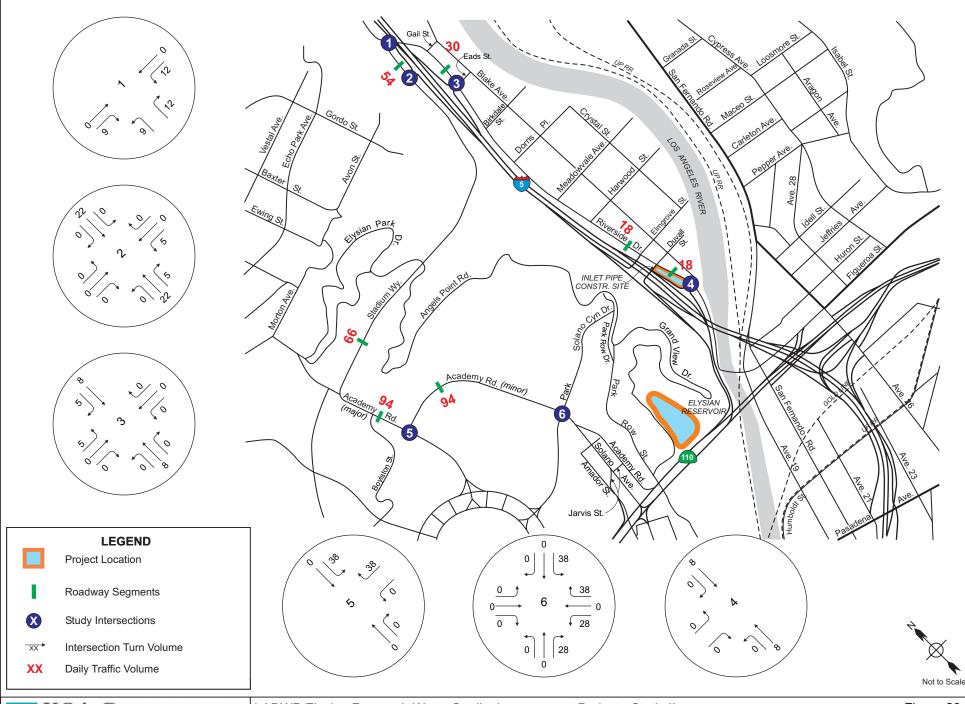
^{***} Daily trips were assumed to be equivalent to two sets of games occurring during each weekday evening (with additional trips equivalent to half of a game occurring during other hours) and three sets of games during each Saturday.



In/out trip rates were assumed to be 100 percent in and 31 percent out at the start of the games. A total of 72 vehicles would enter the project site, and approximately 31 percent of the total of 94 vehicles (22 vehicles) would only drop off players and immediately leave the site. The 22 vehicles would be expected to return to the site to pick up the players.

At the end of each game, all 72 vehicles would exit the Park. For peak hour conditions it was assumed that one set of soccer game would end while the next game would start approximately 30 minutes later. As a result, the trip generation was combined to represent the peak-period during the turnover between the games.





7. Project Construction-Period Conditions and Impacts

7.1 Significant Impact Guidelines

Traffic impacts are identified if a proposed development will result in a significant change in traffic conditions at a study intersection or roadway segment. A significant impact is typically identified if project-related traffic will cause service levels to deteriorate beyond a threshold limit specified by the overseeing agency. Impacts can also be significant if a facility is already operating below the acceptable level of service and project traffic will cause a further decline below a threshold.

The City of Los Angeles Department of Transportation has established specific thresholds for project related increases in the volume-to-capacity ratio (V/C) of signalized study intersections. The following increases in peak-hour V/C ratios are considered significant impacts:

Level of Service	Final V/C*	Project Related v/c increase					
С	< 0.70 – 0.80	Equal to or greater than 0.040					
D	< 0.80 - 0.90	Equal to or greater than 0.020					
E and F	0.90 or more	Equal to or greater than 0.010					

Note: Final V/C is the V/C ratio at an intersection, considering impacts from the project, ambient and related project growth, and without proposed traffic impact mitigations.

Roadway segment and unsignalized intersection impacts were determined based on changes in peak-hour level of service values to E or F due to Project construction. Study area traffic operations for the construction and post-project park use scenarios are discussed below, along with significant impact determinations.

7.2 No-Build Alternative Impacts

Under the Project No-Built Alternative, trip generation to and from the Project site would remain as it is under existing conditions. The No-Build Alternative would therefore not create any new significant traffic impacts.



7.3 Proposed Project Buried Concrete Alternative Description Analysis

The study intersection operations across all analyzed scenarios, for the proposed Project (Buried Concrete Alternative) are summarized in Table 14 (a.m. peak-hour) and Table 15 (p.m. peak-hour). Traffic impacts created by the project construction under this scenario were calculated by subtracting the volume-to-capacity (v/c) totals under the "Year 2019 No-Project" heading from the totals under the "Year 2019 with-Project Construction" heading.

The overall traffic impacts created by the project construction traffic and determination of significant impacts are provided in the right two columns of the tables. The level of service calculation worksheets for this analysis scenario are provided in Appendix F.

Table 14 - Significant Intersection Traffic Impacts - Buried Concrete Alternative - AM Peak Hour

			Exist Condit (Year 2 V/C or	ions	Future No- Project Constr Conditions (Year 2019) (Year V/C or V/C or			ect iction tions		
	Study Intersections	Sceanrio	Delay	LOS	Delay	LOS	Delay	LOS	Diff.	Signif?
I.	Stadium Way / Riverside Dr	Non Game	0.651	В	0.751	С	0.767	С	0.016	No
		Game	0.568	Α	0.659	В	0.676	В	0.017	No
2.	Stadium Way / I-5 SB on & off Ramps	Non Game	0.656	В	0.728	С	0.757	С	0.029	No
		Game	0.611	В	0.680	В	0.709	С	0.029	No
3.	Riverside Dr / I-5 NB on & off Ramps	Non Game	0.435	Α	0.492	Α	0.498	Α	0.006	No
		Game	0.380	Α	0.432	Α	0.438	Α	0.006	No
4.	Riverside Dr / NB on & off Ramps	Non Game	0.265	Α	0.452	Α	0.454	Α	0.002	No
		Game	0.244	Α	0.427	Α	0.429	Α	0.002	No
5.	Academy Rd (Major) / Academy Rd (Minor) *	Non Game	Excluded from AM peak analysis							
		Game								
6.	Academy Rd / Park - Solano Canyon Dr	Non Game	e Frankish da da AM a sala arabada							
		Game	Excluded from AM peak analysis							

LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.



Table 15 - Significant Intersection Traffic Impacts - Buried Concrete Alternative - PM Peak Hour

			Exist Condit (Year 2	ions	Proje Condit	Future No- Project Conditions (Year 2019)		Future with- Project Construction Conditions (Year 2019)		
	Struke Internacións	Scenario	V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS	D:«	6: 10
⊢-	Study Intersections								Diff.	Signif?
'.	Stadium Way / Riverside Dr	Non Game		В	0.754	С	0.758	C	0.004	No
		Game	0.725	С	0.824	D	0.829	D	0.005	No
2.	Stadium Way / I-5 SB on & off Ramps	Non Game	0.517	Α	0.568	Α	0.605	В	0.037	No
		Game	0.619	В	0.704	С	0.721	С	0.017	No
3.	Riverside Dr / I-5 NB on & off Ramps	Non Game	0.368	Α	0.409	Α	0.446	Α	0.037	No
		Game	0.456	Α	0.490	Α	0.492	Α	0.002	No
4.	Riverside Dr / NB on & off Ramps	Non Game	0.309	Α	0.403	Α	0.408	Α	0.005	No
		Game	0.354	Α	0.452	Α	0.457	Α	0.005	No
5.	Academy Rd (Major) / Academy Rd (Minor) *	Non Game	8.7	Α	8.8	Α	9.1	Α	-	-
		Game	9.0	Α	9.1	Α	9.3	Α	-	-
6.	Academy Rd / Park - Solano Canyon Dr	Non Game	0.065	Α	0.070	Α	0.141	Α	0.071	No
		Game	0.102	Α	0.112	Α	0.202	Α	0.090	No

LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

Based on the results provided within Table 14 and Table 15, construction of the proposed Project would not create significant impacts at any of the study intersections. All of the study intersections would operate at LOS D or better under this scenario on game days and at LOS C or better on non-game days.

The daily volumes on the study roadway segments, for conditions with and without construction of the proposed Project, are provided in Table 16. Volume percentage increases due to Project construction are provided for reference purposes. Impacts to these roadway segments are evaluated after this informational table.

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.

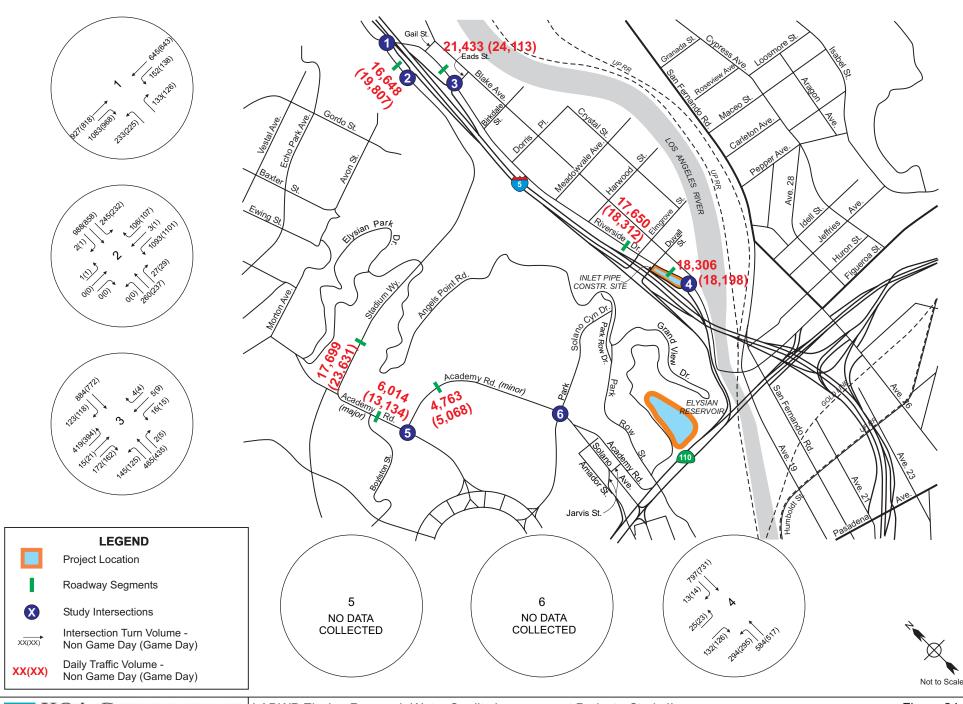


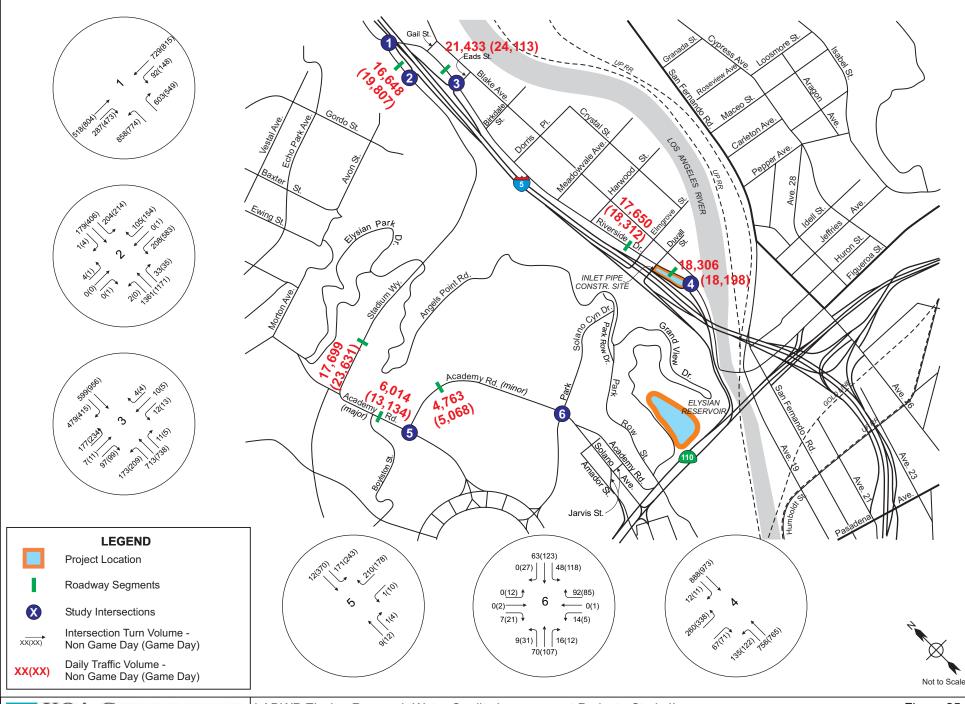
Table 16 – Roadway Segments Summary – Buried Concrete Alternative

				Base V	olumes		Proposed Project			
	Street Segments	Scenario	Existing	Ambient	Area	Future	Project	Future with	%	
			Existing	Growth	Projects	Base	Only	Project	Increase	
Α	Stadium Way,	Non Game Day	12,586	9%	2,520	16,285	363	16,648	2.23%	
	Between Riverside Drive and I-5 southbound ramps	Game Day	15,474	9%	2,320	19,444	363	19,807	1.87%	
В	Riverside Drive,	Non Game Day	17,778	9%	1,632	21,076	357	21,433	1.69%	
	Between Gail Street and Forney Street	Game Day	20,229	9%	1,632	23,756	337	24,113	1.50%	
С	Riverside Drive,	Non Game Day	15,228	9%	976	17,631	19	17,650	0.11%	
	Between Fernleaf Street and Elmgrove Street	Game Day	15,833	9%	7/6	18,293	17	18,312	0.10%	
D	Riverside Drive,	Non Game Day	13,879	9%	3,055	18,234	72	18,306	0.39%	
	Between Oros Street and I-5 northbound ramps	Game Day	13,780	9%	3,033	18,126	72	18,198	0.40%	
Ε	Stadium Way,	Non Game Day	13,586	9%	2,134	16,993	706	17,699	4.15%	
	North of Academy Road	Game Day	19,010	9%	2,137	22,925	706	23,631	3.08%	
F	Academy Road	Non Game Day	3,295	9%	1,694	5,298	716	6,014	13.51%	
	East of Stadium Way	Game Day	9,805	9%	1,074	12,418	/10	13,134	5.77%	
G	Academy Road	Non Game Day	3,497	9%	222	4,047	716	4,763	17.69%	
	North of Academy Road east-west segment	Game Day	3,776	9%	222	4,352	/10	5,068	16.45%	

Based on the data within Table 16, Segment G (Academy Road) would have the highest percentage of Project construction vehicle trips throughout the day. The significance of impacts on the analyzed roadway segments were determined via the analysis of peak-hour volumes, discussed below.

Total construction period volumes at the study intersections are provided on Figure 24 (a.m. peak hour) and Figure 25 (p.m. peak hour). Daily traffic volumes are included on both figures. The intersection LOS calculation worksheets for this scenario are provided within Appendix F.







Peak hour traffic impacts were analyzed at the study roadway segments to determine potential significant impacts at these locations. Table I7 summarizes the peak-hour volumes from the daily counts. The peak-hour volumes may not necessarily occur during the typical peak-hour periods of 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.

Table 17 - Peak Hour Roadway Segments LOS - Buried Concrete Alternative

		# of						Base V	olumes					Proposed Project		
	Street Segments		Capacity	Scenario	Existing A			Ambient	Area	Future Base			Project	Future with Project		ect
					Volumes	V/C	LOS	Growth	Projects	Volumes	V/C	LOS	Only	Volumes	V/C	LOS
Α	Stadium Way,	4	2.500	Non Game Day	1,494	0.598	Α	9%	264	1,898	0.759	С	64	1,962	0.785	С
	Between Riverside Drive and I-5 southbound ramps	7	2,300	Game Day 1,586 0.634 B 9%	1,999	0.800	С	01	2,063	0.825	О					
В	Riverside Drive,	4	2.500	Non Game Day	1,678	0.671	В	9%	157	1,992	0.797	С	60	2,052	0.821	О
	Between Gail Street and Forney Street	7	2,300	Game Day	2,014	0.806	D	9%	137	2,360	0.944	E	60	2,420	0.968	E
С	Riverside Drive,	4	2,500	Non Game Day	1,357	0.543	Α	9%	115	1,599	0.640	В	- 11	1,610	0.644	В
	Between Fernleaf Street and Elmgrove Street	7		Game Day	1,740	0.696	В	9%	113	2,018	0.807	D	- ''	2,029	0.812	D
D	Riverside Drive,	4	2.500	Non Game Day	1,352	0.541	Α	9%	331	1,810	0.724	С	20	1,830	0.732	С
	Between Oros Street and I-5 northbound ramps	7	2,300	Game Day	1,405	0.562	Α	9%	331	1,868	0.747	С	20	1,888	0.755	С
Ε	Stadium Way,	6	4.500	Non Game Day	1,973	0.438	Α	9%	162	2,320	0.516	Α	117	2,437	0.542	Α
	North of Academy Road	٥	4,300	Game Day	2,312	0.514	Α	9%	102	2,691	0.598	Α	117	2,808	0.624	В
F	Academy Road	-	3.125	Non Game Day	563	0.180	Α	9%	75	691	0.221	Α	123	814	0.260	Α
	East of Stadium Way	3	3,123	Game Day	2,838	0.908	E	9%	73	3,179	1.017	F	123	3,302	1.057	F
G	Academy Road	3	1,350	Non Game Day	490	0.363	Α	9%	10	546	0.404	Α	123	669	0.496	Α
	North of Academy Road east-west segment	,		Game Day	350	0.259	Α	9%	10	393	0.291	Α	123	516	0.382	Α

Based on the results provided within Table 17, the analyzed roadway segments would operate at LOS C or better on a non-game day. However, two of the roadway segments on a typical game day would operate at LOS E or F and would worsen with Project construction:

- Riverside Drive, between Gail Street and Forney Street LOS E
- Academy Road, north of Academy Road east-west segment LOS F

Mitigation measures for these significant impacts are discussed at the end of this report section.

7.5 Floating Cover Alternative Analysis

The study intersection operations across all analyzed scenarios, for the Floating Cover Alternative, are summarized in Table 18 (a.m. peak-hour) and Table 19 (p.m. peak-hour). Traffic impacts created by the project construction under this scenario were calculated by subtracting the volume-to-capacity (v/c) totals under the "Year 2015 No-Project" heading from the totals under the "Year 2015 with-Project Construction" heading.

The overall traffic impacts created by the project construction traffic and determination of significant impacts are provided in the right two columns of the tables. The levels of service calculation worksheets for this analysis scenario are provided in Appendix G.



Table 18 - Significant Traffic Impacts -Floating Cover - AM Peak Hour

	1104611	lg Gove									
							Future with-				
					Future	No-	Project				
			Exist	ing	Project		Construction				
			Condit	Conditions		ions	Condit	ions			
			(Year 2	(Year 2010)		(Year 2015)		2015)			
			V/C or		V/C or		V/C or				
	Study Intersections	Sceanrio	Delay	LOS	Delay	LOS	Delay	LOS	Diff.	Signif?	
Ι.	Stadium Way / Riverside Dr	Non Game	0.651	В	0.720	С	0.745	С	0.025	No	
		Game	0.568	Α	0.632	В	0.657	В	0.025	No	
2.	Stadium Way / I-5 SB on & off Ramps	Non Game	0.656	В	0.697	В	0.723	С	0.026	No	
		Game	0.611	В	0.651	В	0.676	В	0.025	No	
3.	Riverside Dr / I-5 NB on & off Ramps	Non Game	0.435	Α	0.470	Α	0.479	Α	0.009	No	
		Game	0.380	Α	0.413	Α	0.422	Α	0.009	No	
4.	Riverside Dr / NB on & off Ramps	Non Game	0.265	Α	0.438	Α	0.440	Α	0.002	No	
		Game	0.244	Α	0.414	Α	0.416	Α	0.002	No	
5.	Academy Rd (Major) / Academy Rd (Minor) *	Non Game			Eveludor	from /	AM peak an	alveie			
		Game			Excluded	1 11 0111 7	ari peak an	iaiysis			
6.	Academy Rd / Park - Solano Canyon Dr	Non Game			Evolude	Evaluded from AM peak analysis					
		Game		Excluded from AM peak analysis							

LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

Table 19 - Significant Traffic Impacts - Floating Cover - PM Peak Hour

		8	Existi Condit (Year 2	ions	Future Proje Condit (Year 2	cct Construction ions Conditions 015) (Year 2015		ect iction cions		
			V/C or	LOS	V/C or Delay	LOS	V/C or Delay	LOS		aa
-	Study Intersections	Scenario	Delay						Diff.	Signif?
Ι.	Stadium Way / Riverside Dr	Non Game	0.660	В	0.723	С	0.729	С	0.006	No
		Game	0.725	С	0.790	С	0.797	С	0.007	No
2.	Stadium Way / I-5 SB on & off Ramps	Non Game	0.517	Α	0.543	Α	0.563	Α	0.020	No
		Game	0.619	В	0.675	В	0.680	В	0.005	No
3.	Riverside Dr / I-5 NB on & off Ramps	Non Game	0.368	Α	0.390	Α	0.413	Α	0.023	No
		Game	0.456	Α	0.468	Α	0.471	Α	0.003	No
4.	Riverside Dr / NB on & off Ramps	Non Game	0.309	Α	0.387	Α	0.393	Α	0.006	No
		Game	0.354	Α	0.434	Α	0.440	Α	0.006	No
5.	Academy Rd (Major) / Academy Rd (Minor) *	Non Game	8.7	Α	8.8	Α	9.1	Α	-	-
		Game	9.0	Α	9.1	Α	9.2	Α	-	-
6.	Academy Rd / Park - Solano Canyon Dr	Non Game	0.065	Α	0.067	Α	0.125	Α	0.058	No
		Game	0.102	Α	0.107	Α	0.175	Α	0.068	No

LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.



Based on the results provided within Table 17 and Table 18, project construction would not create significant impacts at any of the study intersections. All the study intersections would operate at LOS C or better.

The daily volumes on the study roadway segments, for conditions with and without construction of the Floating Cover Alternative, are provided in Table 20. Volume percentage increases due to Project construction are provided for reference purposes.

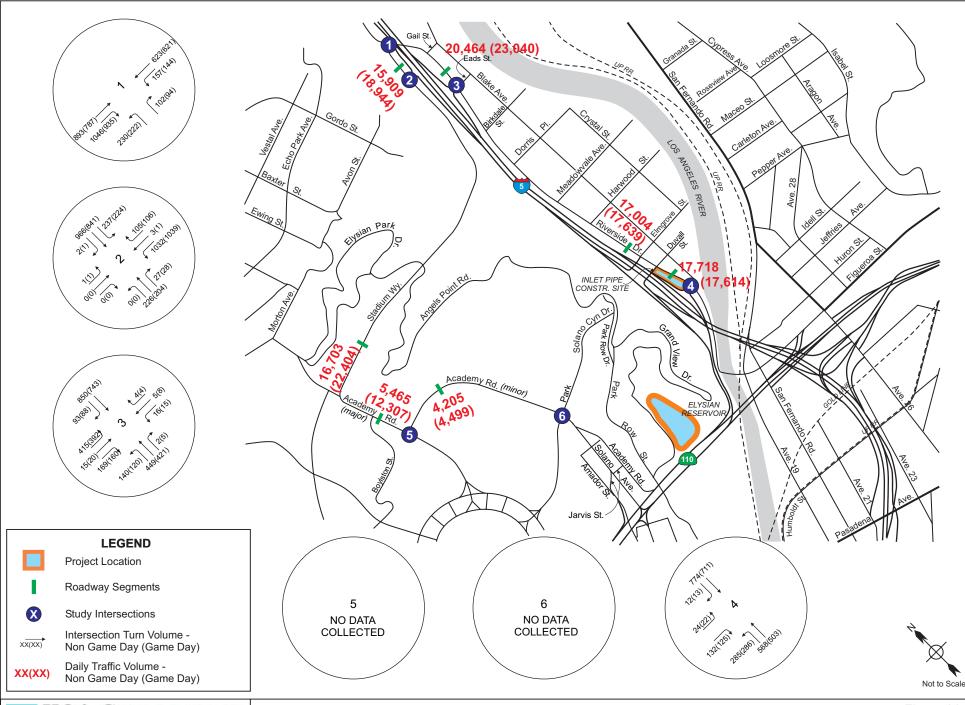
Table 20 – Roadway Segments Summary – Floating Cover Alternative

				Base V	olumes		Proposed Project			
	Street Segments	Scenario	Existing	Ambient	Area	Future	Project	Future with	%	
			EXISTING	Growth	Projects	Base	Only	Project	Increase	
Α	Stadium Way,	Non Game Day	12,586	5%	2,520	15,748	161	15,909	1.02%	
	Between Riverside Drive and I-5 southbound ramps	Game Day	15,474	5%	2,320	18,783	101	18,944	0.86%	
В	Riverside Drive,	Non Game Day	17,778	5%	1,632	20,317	147	20,464	0.72%	
	Between Gail Street and Forney Street	Game Day	20,229	5%	1,632	22,893	177	23,040	0.64%	
С	Riverside Drive,	Non Game Day	15,228	5%	976	16,981	23	17,004	0.14%	
	Between Fernleaf Street and Elmgrove Street	Game Day	15,833	5%	776	17,616	23	17,639	0.13%	
D	Riverside Drive,	Non Game Day	13,879	5%	3,055	17,642	76	17,718	0.43%	
	Between Oros Street and I-5 northbound ramps	Game Day	13,780	5%	3,033	17,538	70	17,614	0.43%	
Е	Stadium Way,	Non Game Day	13,586	5%	2,134	16,413	290	16,703	1.77%	
	North of Academy Road	Game Day	19,010	5%	2,137	22,114	270	22,404	1.31%	
F	Academy Road	Non Game Day	3,295	5%	1,694	5,157	308	5,465	5.97%	
	East of Stadium Way	Game Day	9,805	5%	1,074	11,999	300	12,307	2.57%	
G	Academy Road	Non Game Day	3,497	5%	222	3,897	308	4,205	7.90%	
	North of Academy Road east-west segment	Game Day	3,776	5%	222	4,191	300	4,499	7.35%	

The data within Table 20 provides the percentage increases in project construction trips on a typical non-game day and game day analysis. Based on the results provided, Segment G (Academy Road) would have the highest percentage of Project construction vehicle trips throughout the day. Impacts on roadway segments were determined via the analysis of peak-hour volumes discussed below.

Total construction period volumes at the study intersections are provided on Figure 26 (a.m. peak hour) and Figure 27 (p.m. peak hour). Daily traffic volumes are included on both figures. The LOS calculation worksheets for this scenario are provided within Appendix G.

Peak hour traffic impacts were analyzed at the study roadway segments to determine potential significant impacts at the analyzed roadways. Table 21 summarizes the peak-hour volumes occurred throughout the day. The peak-hour volumes may not necessarily occur during the typical peak-hour periods of 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.



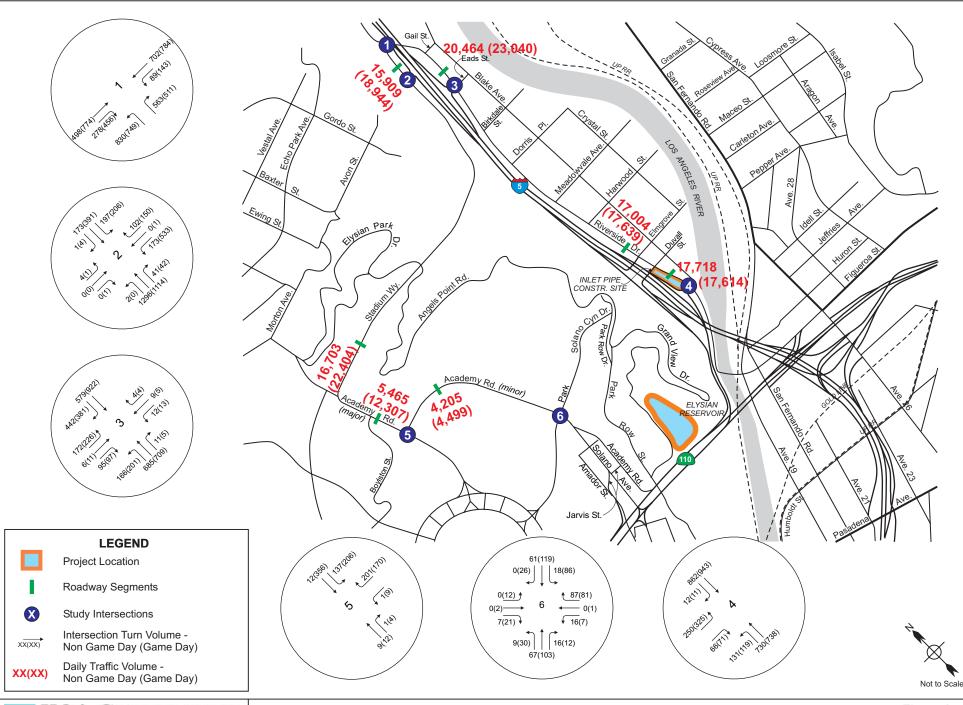




Table 21 – Peak Hour Roadway Segments LOS – Floating Cover Alternative

		# of			Base Volumes									Proposed Project			
	Street Segments		Capacity	Scenario	Existing A			Ambient	Area	Future Base			Project	Future with Project			
					Volumes	V/C	LOS	Growth	Projects	Volumes	V/C	LOS	Only	Volumes	V/C	LOS	
Α	Stadium Way,	4	2.500	Non Game Day	1,494	0.598	Α	5%	264	1,834	0.734	С	48	1,882	0.753	С	
	Between Riverside Drive and I-5 southbound ramps	7	2,300	Game Day	1,586	0.634	В	5%	204	1,931	0.772	С	70	1,979	0.792	С	
В	Riverside Drive,	4	2,500	Non Game Day	1,678	0.671	В	5%	157	1,921	0.768	С	42	1,963	0.785	С	
	Between Gail Street and Forney Street	4	2,500	Game Day	2,014	0.806	D	5%	15/	2,274	0.910	E	42	2,316	0.926	E	
С	Riverside Drive,	4	2,500	Non Game Day	1,357	0.543	Α	5%	115	1,541	0.616	В	13	1,554	0.622	В	
	Between Fernleaf Street and Elmgrove Street	7	2,300	Game Day	1,740	0.696	В	5%	113	1,944	0.778	С	13	1,957	0.783	С	
D	Riverside Drive,	4	2,500	Non Game Day	1,352	0.541	Α	5%	331	1,752	0.701	С	22	1,774	0.710	С	
	Between Oros Street and I-5 northbound ramps	7	2,300	Game Day	1,405	0.562	Α	5%	331	1,808	0.723	С	22	1,830	0.732	С	
Е	Stadium Way,	,	4.500	Non Game Day	1,973	0.438	Α	5%	162	2,236	0.497	Α	81	2,317	0.515	Α	
	North of Academy Road	6	4,500	Game Day	2,312	0.514	Α	5%	162	2,592	0.576	Α	81	2,673	0.594	Α	
F	Academy Road	-	2 125	Non Game Day	563	0.180	Α	5%	75	667	0.213	Α	90	757	0.242	Α	
	East of Stadium Way	3	3,125	Game Day	2,838	0.908	E	5%	/5	3,058	0.979	E	90	3,148	1.007	F	
G	Academy Road	,	1.350	Non Game Day	Non Game Day	490	0.363	Α	5%	10	525	0.389	Α	90	615	0.456	Α
	North of Academy Road east-west segment	3	1,330	Game Day	350	0.259	Α	5%	10	378	0.280	Α	90	468	0.347	Α	

Based on the results provided within Table 21, the analyzed roadway segments would operate at LOS C or better on a non-game day. However, two of the roadway segments on a typical game day would operate at LOS E or F, and would worsen with Project construction.

- Riverside Drive, between Gail Street and Forney Street LOS E
- Academy Road, north of Academy Road east-west segment LOS F

7.6 Aluminum Cover Alternative Analysis

The study intersection operations across all analyzed scenarios, for the Aluminum Cover Alternative, are summarized in Table 22 (a.m. peak-hour) and Table 23 (p.m. peak-hour). Traffic impacts created by the project construction under this scenario were calculated by subtracting the volume-to-capacity (v/c) totals under the "Year 2015 No-Project" heading from the totals under the "Year 2015 with-Project Construction" heading.

The overall traffic impacts created by the project construction traffic and determination of significant impacts are provided in the right two columns of the tables. The levels of service calculation worksheets for this analysis scenario are provided in Appendix H.



Table 22 – Significant Traffic Impacts – Aluminum Cover – AM Peak Hour

			Existi Condit (Year 2 V/C or	ions (010)	Future Proje Condit (Year 2	re No- pject Cons litions Cor 2015) (Yea		Future with- Project Construction Conditions (Year 2015) V/C or Delay LOS		
	Study Intersections	Sceanrio	Delay	LOS	Delay	LOS	Delay	LOS	Diff.	Signif?
Ι.	Stadium Way / Riverside Dr	Non Game	0.651	В	0.720	С	0.745	С	0.025	No
		Game	0.568	Α	0.632	В	0.657	В	0.025	No
2.	Stadium Way / I-5 SB on & off Ramps	Non Game	0.656	В	0.697	В	0.724	С	0.027	No
		Game	0.611	В	0.651	В	0.678	В	0.027	No
3.	Riverside Dr / I-5 NB on & off Ramps	Non Game	0.435	Α	0.470	Α	0.479	Α	0.009	No
		Game	0.380	Α	0.413	Α	0.422	Α	0.009	No
4.	Riverside Dr / NB on & off Ramps	Non Game	0.265	Α	0.438	Α	0.440	Α	0.002	No
		Game	0.244	Α	0.414	Α	0.416	Α	0.002	No
5.	Academy Rd (Major) / Academy Rd (Minor) *	Non Game	ne Excluded from AM peak analysis							
		Game			Excluded	irom A	ari peak an	aiysis		
6.	Academy Rd / Park - Solano Canyon Dr	Non Game			Evaludas		M seek on	alvaia		
		Game	Excluded from AM peak analysis ame							

LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

Table 23 - Significant Traffic Impacts - Aluminum Cover - PM Peak Hour

			Existi Condit (Year 2	ions	Future Proje Condit (Year 2	ect	Future Proje Constru Condit (Year 2	ect iction tions		
	Study Intersections	Scenario	V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS	Diff.	Signif?
1.	Stadium Way / Riverside Dr	Non Game	0.660	В	0.723	С	0.729	С	0.006	No
	,	Game	0.725	С	0.790	С	0.797	С	0.007	No
2.	Stadium Way / I-5 SB on & off Ramps	Non Game	0.517	Α	0.543	Α	0.566	Α	0.023	No
		Game	0.619	В	0.675	В	0.682	В	0.007	No
3.	Riverside Dr / I-5 NB on & off Ramps	Non Game	0.368	Α	0.390	Α	0.416	Α	0.026	No
		Game	0.456	Α	0.468	Α	0.471	Α	0.003	No
4.	Riverside Dr / NB on & off Ramps	Non Game	0.309	Α	0.387	Α	0.393	Α	0.006	No
		Game	0.354	Α	0.434	Α	0.440	Α	0.006	No
5.	Academy Rd (Major) / Academy Rd (Minor) *	Non Game	8.7	Α	8.8	Α	9.1	Α	-	-
		Game	9.0	Α	9.1	Α	9.2	Α	-	-
6.	Academy Rd / Park - Solano Canyon Dr	Non Game	0.065	Α	0.068	Α	0.128	Α	0.060	No
		Game	0.102	Α	0.107	Α	0.181	Α	0.074	No

LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.



Based on the results provided within Table 22 and Table 23, project construction would not create significant impacts at any of the study intersections. All the study intersections would operate at LOS C or better.

The daily volumes on the study roadway segments, for conditions with and without construction of the Aluminum Cover Alternative, are provided in Table 24. Volume percentage increases due to Project construction are provided for reference purposes and impacts are analyzed beyond this table.

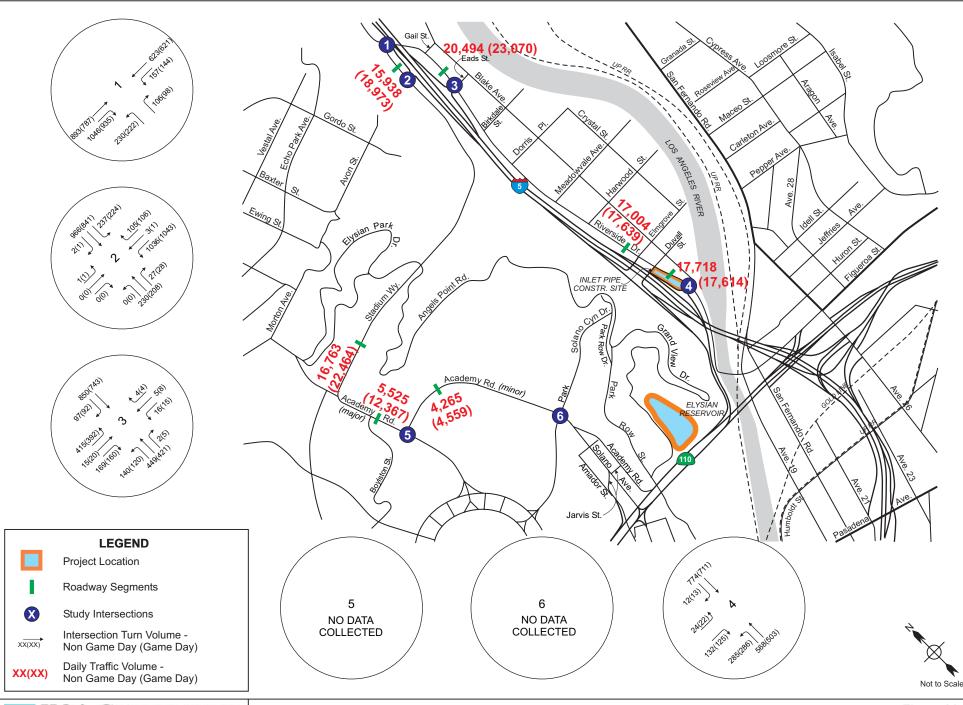
Table 24 – Roadway Segments Summary – Aluminum Cover Alternative

				Base V	olumes		P	roposed Proje	ect
	Street Segments	Scenario	Existing	Ambient	Area	Future	Project	Future with	%
			EXISTING	Growth	Projects	Base	Only	Project	Increase
Α	Stadium Way,	Non Game Day	12,586	5%	2,520	15,748	190	15,938	1.21%
	Between Riverside Drive and I-5 southbound ramps	Game Day	15,474	5%	2,320	18,783	170	18,973	1.01%
В	Riverside Drive,	Non Game Day	17,778	5%	1,632	20,317	177	20,494	0.87%
	Between Gail Street and Forney Street	Game Day	20,229	5%	1,032	22,893	177	23,070	0.77%
С	Riverside Drive,	Non Game Day	15,228	5%	976	16,981	23	17,004	0.14%
	Between Fernleaf Street and Elmgrove Street	Game Day	15,833	5%	7/6	17,616	23	17,639	0.13%
D	Riverside Drive,	Non Game Day	13,879	5%	3,055	17,642	76	17,718	0.43%
	Between Oros Street and I-5 northbound ramps	Game Day	13,780	5%	3,033	17,538	76	17,614	0.43%
Ε	Stadium Way,	Non Game Day	13,586	5%	2,134	16,413	350	16,763	2.13%
	North of Academy Road	Game Day	19,010	5%	2,134	22,114	330	22,464	1.58%
F	Academy Road	Non Game Day	3,295	5%	1,694	5,157	368	5,525	7.14%
	East of Stadium Way	Game Day	9,805	5%	1,074	11,999	366	12,367	3.07%
G	Academy Road	Non Game Day	3,497	5%	222	3,897	368	4,265	9.44%
	North of Academy Road east-west segment	Game Day	3,776	5%	222	4,191	500	4,559	8.78%

Based on the results provided within Table 24, Segment G (Academy Road) would have the highest percentage of Project construction vehicle trips throughout the day. Impacts on roadway segments were determined via the analysis of peak-hour volumes, discussed below.

Total construction period volumes at the study intersections are provided on Figure 28 (a.m. peak hour) and Figure 29 (p.m. peak hour). Daily traffic volumes are included on both figures. The LOS calculation worksheets are provided within Appendix G.

Peak hour traffic impacts were analyzed at the study roadway segments to determine potential significant impacts at the analyzed roadways. Table 21 summarizes the peak-hour volumes from the daily counts.



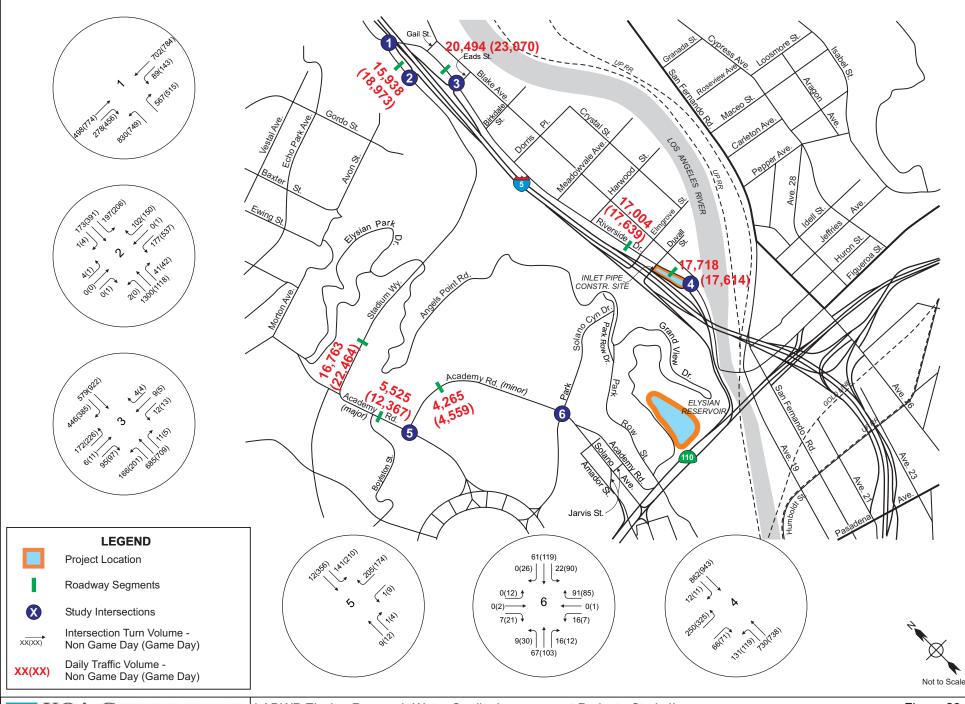




Table 25 – Peak Hour Roadway Segments LOS	-
Aluminum Cover Alternative	

		# of						Base V	olumes					Proposed Pr	oject			
	Street Segments	# or Lanes	Capacity	Scenario	E:	cisting		Ambient	Area	Futu	ire Base		Project	Future v	vith Proje	ct		
		Lanes			Volumes	V/C	LOS	Growth	Projects	Volumes	V/C	LOS	Only	Volumes	V/C	LOS		
Α	Stadium Way,	4	2.500	Non Game Day	1,494	0.598	Α	5%	264	1,834	0.734	С	52	1,886	0.754	С		
	Between Riverside Drive and I-5 southbound ramps	7	2,300	Game Day	1,586	0.634	В	5%	204	1,931	0.772	С	32	1,983	0.793	С		
В	Riverside Drive,	4	2.500	Non Game Day	1,678	0.671	В	5%	157	1,921	0.768	С	46	1,967	0.787	С		
	Between Gail Street and Forney Street	7	2,300	Game Day	2,014	0.806	D	5%	137	2,274	0.910	Е	70	2,320	0.928	E		
С	Riverside Drive,	4	2,500	Non Game Day	1,357	0.543	Α	5%	115	1,541	0.616	В	13	1,554	0.622	В		
	Between Fernleaf Street and Elmgrove Street	7	2,300	Game Day	1,740	0.696	В	5%	115	1,944	0.778	С	13	1,957	0.783	С		
D	Riverside Drive,	4	2,500	Non Game Day	1,352	0.541	Α	5%	331	1,752	,752 0.701	С	22	1,774	0.710	С		
	Between Oros Street and I-5 northbound ramps	7	2,300	Game Day	1,405	0.562	Α	5%	331	1,808	0.723	С	22	1,830	0.732	С		
Е	Stadium Way,	,	4.500	Non Game Day	1,973	0.438	Α	5%	162	2,236	0.497	Α	89	2,325	0.517	Α		
	North of Academy Road	6	4,300	Game Day	2,312	0.514	Α	5%	102	2,592	0.576	Α	07	2,681	0.596	Α		
F	Academy Road		3.125	Non Game Day	563	0.180	Α	5%	75	667	0.213	Α	98	765	0.245	Α		
	East of Stadium Way	3	3,125	Game Day	2,838	0.908	Е	5%	75	3,058	0.979	E	78	3,156	1.010	F		
G	Academy Road	,	1.350	Non Game Day	490	0.363	Α	5%	- 10	10 525	10	525	0.389	Α	98	623	0.461	Α
	North of Academy Road east-west segment	3	1,330	Game Day	350	0.259	Α	5%		378	0.280	Α	/0	476	0.353	Α		

Based on the results provided within Table 21, the analyzed roadway segments would operate at LOS C or better on a non-game day. However, two of the roadway segments on a typical game day would operate at LOS E or F and would worsen with Project construction.

- Riverside Drive, between Gail Street and Forney Street LOS E
- Academy Road, north of Academy Road east-west segment LOS F

7.7 Recommended Mitigation Measures

Construction period traffic has been determined to create significant traffic impacts at two of the seven analyzed study roadway segments, as identified in the above sub-sections of this report. These impacts would occur during game days at Dodger Stadium, but would not occur when games are not in session. It is therefore recommended that construction truck routes that use these two roadway segments not be scheduled for use within one hour of the start of a Dodgers game and within one hour from the completion of a game.

Many of the local roadways used to access the Reservoir construction site are smaller two-lane park roads. The increases in traffic volumes that would occur on these roadways under most of the project alternatives could cause potential safety issues on these roads that primarily serve Elysian Park.

The following measures are recommended for implementation during project construction, in order to avoid potential safety conflicts between construction trucks and other vehicles:

Prior to construction, a construction traffic control plan shall be prepared by the Los Angeles Department of Water and Power for review and approval by the Los Angeles Department of Transportation and the Los Angeles Department of Recreation and Parks. The plan shall include, at a minimum, advanced signing on Stadium Way and Riverside Drive, alerting motorists to construction and an increase in construction vehicle movements; signing to alert motorists to temporary or limited access points to adjacent properties; appropriate barricades for road closures; construction speed limit signage along the haul route; other appropriate signage along the haul route to warn park users of construction equipment and vehicles; flag persons at road closure locations, blind spots, other sharp turns to direct construction vehicle traffic; temporary crosswalks for park users; and parking restrictions during construction.



- Prior to the start of construction, the Los Angeles Department of Water and Power shall
 provide all construction workers with driver safety training to minimize conflicts between
 construction activities and park users. Training shall include adherence to posted speed limits,
 discussion of haul routes, and explanation of the construction traffic control plan.
- Traffic on non-park roads shall be controlled during construction by adhering to the guidelines contained in Standard Specifications for Public Works Construction used by many municipalities in California and Caltrans' Traffic Manual, Chapter 5, "Manual of Traffic Controls for Construction and Maintenance Work Zones" and applicable City requirements. These guidelines provide methods to minimize construction effects on traffic flow.
- Los Angeles Department of Water and Power shall coordinate with Los Angeles Department
 of Recreation and Parks and Los Angeles Department of Transportation to prohibit on-street
 parking during peak phases of construction on the following street segments: Academy Road,
 north of Academy Road east-west segment; Park Drive-Solano Canyon Drive, north of
 Academy Road; Park Row Drive, south of Park Drive-Solano Canyon Drive; and Park Row
 Drive, west of Grand View Drive.
- During construction when major sporting events are planned at Dodger Stadium, Los Angeles
 Department of Water and Power shall coordinate with the Los Angeles Department of
 Transportation to establish manual traffic control at established major intersections along the
 Stadium Way-Academy Road route to and from the stadium. If manual control cannot be
 provided, construction traffic would not be allowed on the haul route the hour before through
 the hour after a major event at Dodgers Stadium.

8. Future (2019) Post-Project Conditions and Impacts - with Proposed Park

This section documents the future traffic conditions with the proposed project park use, which would become an active site use if the Buried Concrete alternative is implemented. The traffic volumes for this scenario were derived by adding the project park vehicle trips to the future 2019 no-project condition traffic volumes defined within Section 5 of this report.

8.1 Intersection Level of Service

To analyze the proposed Park use condition, vehicle trips that would be generated by the park use were added to intersection turn volumes with growth and area project trips. Table 26 provides the a.m. and p.m. peak-hour results of this analysis.

Table 26 – Level of Service Calculations – Future (Year-2019)

Future with-Project Conditions

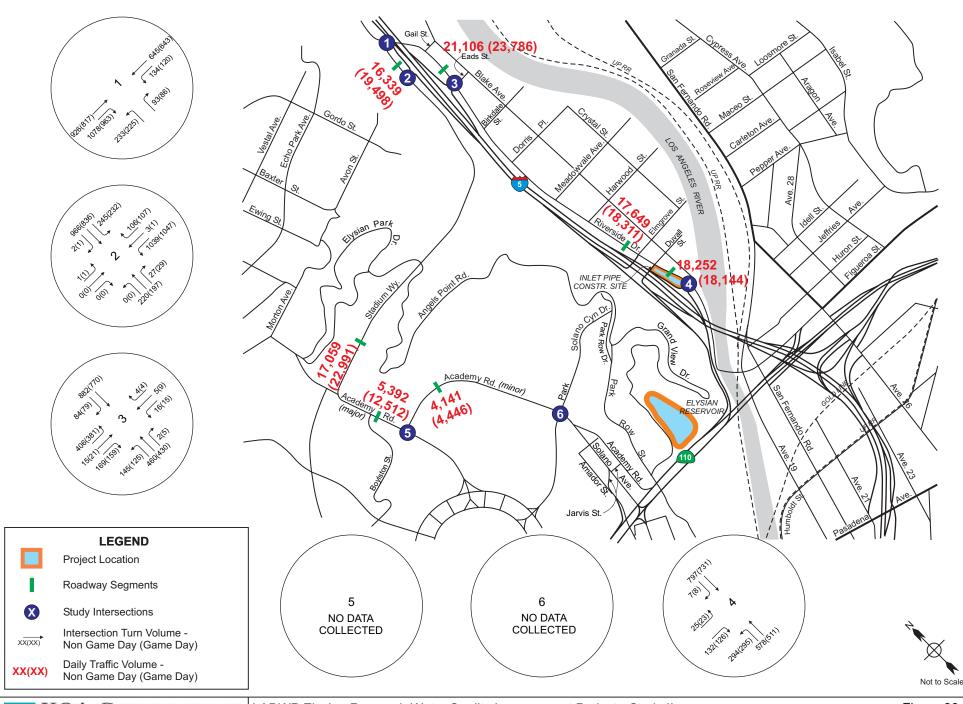
		Week	day	Week	day
		AM Pe	eak	PM Pe	ak
Study Intersections	Scenario	V/C	LOS	V/C	LOS
I. Stadium Way / Riverside Dr	Non Game	0.751	С	0.761	С
	Game	0.659	В	0.839	D
2. Stadium Way / I-5 SB on & off Ramps	Non Game	0.729	С	0.578	Α
	Game	0.680	В	0.714	С
3. Riverside Dr / I-5 NB on & off Ramps	Non Game	0.492	Α	0.414	Α
	Game	0.432	Α	0.495	Α
4. Riverside Dr / NB on & off Ramps	Non Game	0.452	Α	0.405	Α
	Game	0.427	Α	0.454	Α
5. Academy Dr (Major) / Academy Dr (Minor) *	Non Game	Excluded fr	om AM	8.9	Α
	Game	peak ana	lysis	9.2	Α
6. Academy Dr / Park - Solano Canyon Dr	Non Game	Excluded fr	om AM	0.043	Α
	Game	peak ana	lysis	0.102	Α

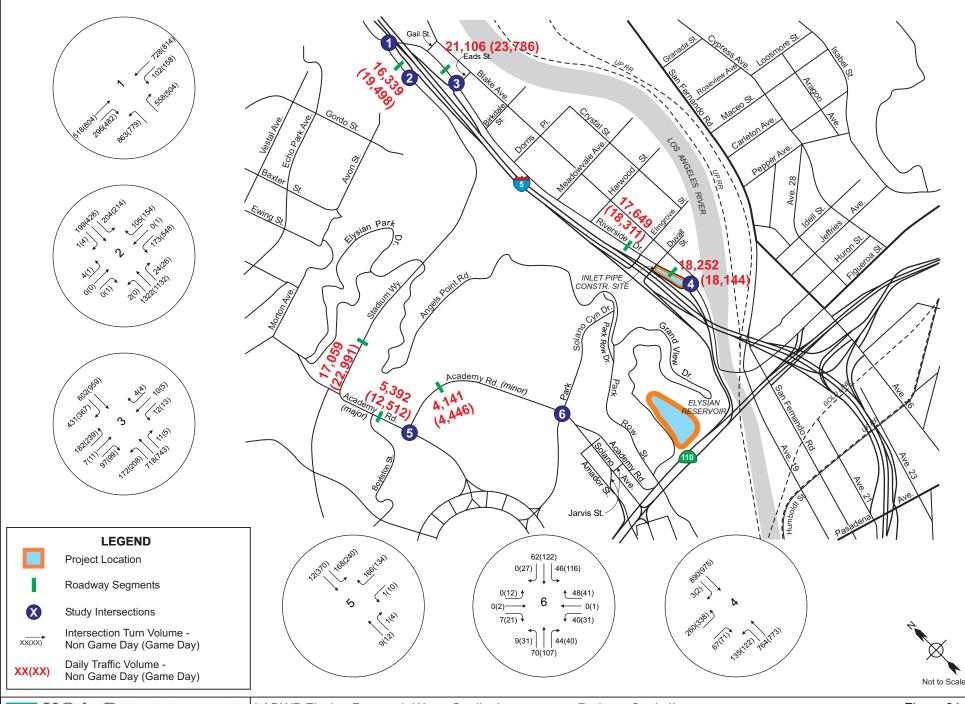
LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

Under this scenario, all of the study intersections would operate at LOS D or better during the weekday peak hours on game days. On non-game days, the worst-case LOS would be C.

The intersection analysis worksheets for this scenario are provided in Appendix I of this report. The analyzed peak-hour traffic volumes at the study intersections for this scenario are provided on Figure 30 (a.m. peak) and Figure 31 (p.m. peak).

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.







8.2 Post-Project Analysis - Proposed Park

The study intersection operations analysis across all analyzed scenarios is summarized in Table 27 (a.m. peakhour) and Table 28 (p.m. peakhour) for the proposed park use. Traffic impacts created by the project park use were calculated by subtracting the volume-to-capacity (v/c) totals under the "Year-2019 No-Project" heading from the totals under the "2019 with-Project" heading.

The overall traffic impact determinations for the Project park use are provided in the right two columns of the tables.

Table 27 - Significant Traffic Impacts - Park Use - AM Peak Hour

	Study Intersections	Sceanrio	Existi Condit (Year 2 V/C or Delay	ions	Future Proje Condit (Year 2 V/C or Delay	ect	Future Proje Condit (Year 2 V/C or Delay	ect cions	Diff.	Signif?
-	Stadium Way / Riverside Dr	Non Game	0.651	В	0.751	С	0.751	С	0.000	No
'	Stadium **ay / Niverside Di	Game	0.568	A	0.659	В	0.659	В	0.000	No
2.	Stadium Way / I-5 SB on & off Ramps	Non Game	0.656	В	0.728	С	0.729	С	0.001	No
		Game	0.611	В	0.680	В	0.680	В	0.000	No
3.	Riverside Dr / I-5 NB on & off Ramps	Non Game	0.435	Α	0.492	Α	0.492	Α	0.000	No
		Game	0.380	Α	0.432	Α	0.432	Α	0.000	No
4.	Riverside Dr / NB on & off Ramps	Non Game	0.265	Α	0.452	Α	0.452	Α	0.000	No
		Game	0.244	Α	0.427	Α	0.427	Α	0.000	No
5.	Academy Dr (Major) / Academy Dr (Minor) *	Non Game			Evaludas	d forces /	AM peak an	alusia		
		Game			Excluded	1 11 OIII F	ari peak an	iaiysis		
6.	Academy Dr / Park - Solano Canyon Dr	Non Game			Excluded	from A	AM peak an	alvsis		
		Game								

LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.



Table 28 - Significant Traffic Impacts - Park Use - PM Peak Hour

			Existi Condit (Year 2	ions	Future Proje Condit (Year 2	ect	Proje Condit (Year 2	Future with- Project Conditions (Year 2019)		
	Study Intersections	Scenario	V/C or Delay	LOS	V/C or Delay	LOS	V/C or Delay	LOS	Diff.	Signif?
_	Stadium Way / Riverside Dr	Non Game	0.660	В	0.754	С	0.761	С	0.007	No No
١.	Stadium vvay / Riverside Di	Game	0.725	C	0.734	D	0.761	D	0.007	No
_	C. I: \A/ /LECD 0 (CD									
2.	Stadium Way / I-5 SB on & off Ramps	Non Game	0.517	Α	0.568	Α	0.578	Α	0.010	No
		Game	0.619	В	0.704	С	0.714	С	0.010	No
3.	Riverside Dr / I-5 NB on & off Ramps	Non Game	0.368	Α	0.409	Α	0.414	Α	0.005	No
		Game	0.456	Α	0.490	Α	0.495	Α	0.005	No
4.	Riverside Dr / NB on & off Ramps	Non Game	0.309	Α	0.403	Α	0.405	Α	0.002	No
		Game	0.354	Α	0.452	Α	0.454	Α	0.002	No
5.	Academy Rd (Major) / Academy Rd (Minor) *	Non Game	8.7	Α	8.8	Α	8.9	Α	-	-
		Game	9.0	Α	9.1	Α	9.2	Α	-	-
6.	Academy Rd / Park - Solano Canyon Dr	Non Game	-0.005	Α	-0.032	Α	0.043	Α	0.075	No
		Game	0.032	Α	0.012	Α	0.102	Α	0.090	No

LADOT policies allow for v/c credits, based on the type of signal control/synchronization system. All study intersections are currently equipped with ATSAC capability, and therefore a 0.070 v/c credit was applied to existing conditions. An additional 0.030 v/c credit was also applied for additional ATSC (adaptove control) capability that will be added by the future project year. The credits were excluded from the calculations for intersection #6, due to the low v/c numbers at this location.

Based on the results provided within Table 27 and Table 28, the proposed Park would not create significant impacts at any of the study intersections. All the study intersections would operate at LOS D or better during game days under this scenario, and at LOS C or better on non-game days.

8.3 Study Roadway Segment volumes

The daily volumes on the study roadway segments, for conditions with and without the Park use are provided in Table 29.

^{*} The HCM 2000 unsignalized methodology provides an average seconds of delay per approaching vehicle, influenced primarily by the minor approaches.



Table 29 – Roadway Segments Summary – Future with-Project Conditions

				Base V	olumes		P	roposed Proje	ect
	Street Segments	Scenario	Existing	Ambient	Area	Future	Project	Future with	%
			Existing	Growth	Projects	Base	Only	Project	Increase
Α	Stadium Way,	Non Game Day	12,586	9%	2,520	16,285	54	16,339	0.33%
	Between Riverside Drive and I-5 southbound ramps	Game Day	15,474	9%	2,320	19,444	J 1	19,498	0.28%
В	Riverside Drive,	Non Game Day	17,778	9%	1,632	21,076	30	21,106	0.14%
	Between Gail Street and Forney Street	Game Day	20,229	9%	1,632	23,756	30	23,786	0.13%
С	Riverside Drive,	Non Game Day	15,228	9%	974	17,631	18	17,649	0.10%
	Between Fernleaf Street and Elmgrove Street	Game Day	15,833	9%	976	18,293	10	18,311	0.10%
D	Riverside Drive,	Non Game Day	13,879	9%	3,055	18,234	18	18,252	0.10%
	Between Oros Street and I-5 northbound ramps	Game Day	13,780	9%	3,033	18,126	10	18,144	0.10%
Ε	Stadium Way,	Non Game Day	13,586	9%	2,134	16,993	66	17,059	0.39%
	North of Academy Road	Game Day	19,010	9%	2,137	22,925	0	22,991	0.29%
F	Academy Road	Non Game Day	3,295	9%	1,694	5,298	94	5,392	1.77%
	East of Stadium Way	Game Day	9,805	9%	1,074	12,418	77	12,512	0.76%
G	Academy Road	Non Game Day	3,497	9%	222	4,047	94	4,141	2.32%
	North of Academy Road east-west segment	Game Day	3,776	9%	222	4,352	77	4,446	2.16%

Based on the data within Table 29, Segment G (Academy Road) would have the highest percentage of Park-generated trips throughout the day. The significance of impacts on the analyzed roadway segments were determined via the analysis of peak-hour volumes, discussed below.

Total volumes generated by the proposed Park at the study intersections are provided on Figure 30 (a.m. peak hour) and Figure 31 (p.m. peak hour). Daily traffic volumes are included on both figures. The intersection LOS calculation worksheets for this scenario are provided within Appendix I.

Peak hour traffic impacts were analyzed at the study roadway segments to determine potential significant impacts at the analyzed roadways. Table 30 summarizes the peak-hour volumes from the daily roadway counts.



Table 30 – Peak Hour Roadway Segments LOS – Future with-Project Conditions

	· · · · · · · · · · · · · · · · · · ·																	
		# of						Base V	olumes					Proposed Pr	oject			
	Street Segments	Lanes	Capacity	ty Scenario	Existing		ng Ambient		Area	Futu	ire Base		Project	Future v	vith Proje	ect		
		Lanes	<u> </u>		Volumes	V/C	LOS	Growth	Projects	Volumes	V/C	LOS	Only	Volumes	V/C	LOS		
Α	Stadium Way,		2.500	Non Game Day	1,494	0.598	Α	9%	264	1,898	0.759	С	44	1,942	0.777	С		
	Between Riverside Drive and I-5 southbound ramps	4	2,500	Game Day	1,586	0.634	В	9%	264	1,999	0.800	С	44	2,043	0.817	D		
В	Riverside Drive,		2,500	Non Game Day	1,678	0.671	В	9%	157	1,992	0.797	С	24	2,016	0.806	D		
	Between Gail Street and Forney Street	4	2,500	Game Day	2,014	0.806	D	9%	15/	2,360	0.944	E	24	2,384	0.954	E		
С	Riverside Drive,	4	2,500	Non Game Day	1,357	0.543	Α	9%	115	1,599	0.640	В	16	1,615	0.646	В		
	Between Fernleaf Street and Elmgrove Street	7	2,300	Game Day	1,740	0.696	В	9%	115	2,018	0.807	D	16	2,034	0.814	D		
D	Riverside Drive,	4	2,500	Non Game Day	1,352	0.541	Α	9%	331	1,810	0.724	С	16	1,826	0.730	С		
	Between Oros Street and I-5 northbound ramps	7	2,300	Game Day	1,405	0.562	Α	9%	331	1,868	0.747	С	10	1,884	0.754	С		
Е	Stadium Way,	,	4.500	Non Game Day	1,973	0.438	Α	9%	162	2,320	0.516	Α	52	2,372	0.527	Α		
	North of Academy Road	6	4,500	Game Day	2,312	0.514	Α	9%	102	2,691	0.598	Α	32	2,743	0.610	В		
F	Academy Road	r	3.125	Non Game Day	563	0.180	Α	9%	75	691	0.221	Α	76	767	0.245	Α		
	East of Stadium Way	,	3,123	Game Day	2,838	0.908	E	9%	75	3,179	1.017	F	76	3,255	1.042	F		
G	Academy Road	2	1.350	Non Game Day	490	0.363	Α	9%	- 10	10	10	546 0.40	0.404	Α	76	622	0.461	Α
	North of Academy Road east-west segment	,	1,550	Game Day	350	0.259	Α	9%		393	0.291	Α	70	469	0.347	Α		

Based on the results provided within Table 30, the analyzed roadway segments would operate at LOS C or better on a non-game day. However, two of the roadway segments on a typical game day would operate at LOS E or F.

- Riverside Drive, between Gail Street and Forney Street LOS E
- Academy Road, north of Academy Road east-west segment LOS F

Parking Demand Analysis

Trip generation does not always correspond directly with parking generation, but with the in and out tri generation rates defined for the sports fields and the general park acreage, parking demand for the new recreational uses can be estimated. When two sets of games overlap, parking demand could be as high as 141 vehicles (demand based on the three-game intensity of 94 vehicle trips analyzed for trip generation purposes, plus a 50% overlap in demand between sets of games). Overlap would occur during pick-up/drop-off periods while vehicles are loading/unloading.

The parking demand generated by the new park area and used must be contained within the project site or significant impacts could occur to nearby vehicle parking areas currently used by park patrons. It is not currently known how the recreation area site plan would be configured. If all estimated parking demand can be contained within the project area, no significant parking impacts would result.

9. Congestion Management Program (CMP) Analysis

This section demonstrates the ways in which this traffic study was prepared to be in conformance with the procedures mandated by the County of Los Angeles Congestion Management Program.

The Congestion Management Program (CMP) was created statewide because of Proposition III and has been implemented locally by the Los Angeles County Metropolitan Transportation Authority (LACMTA). The CMP for Los Angeles County requires the analysis of the traffic impacts of individual development projects with potentially regional significance. A specific system of arterial roadways plus all freeways comprises the CMP system. In conformance with CMP Transportation Impact Analysis (TIA) Guidelines, a traffic impact analysis is conducted at:

- CMP arterial monitoring intersections, including freeway on-ramps or off-ramps, where the proposed project would add 50 or more vehicle trips during either morning or afternoon weekday peak hours.
- CMP mainline freeway-monitoring locations, where the project would add 150 or more trips, in either direction, during the either the morning or afternoon weekday peak hours.

Truck trips within the totals below have been adjusted by a passenger-car equivalent (PCE) factor of 2.5, as explained within the analysis. Construction employee vehicle trips have also been included.

Impacts to CMP Arterials

The nearest CMP monitoring locations to the study area are the I-5 on/off ramps on Stadium Way to the south of Riverside Drive and on Riverside Drive at Eads Street. The following Project-related trips would be added to these ramps during peak periods during the maximum-intensity construction period (proposed Project):

- At the I-5 southbound off-ramp, Stadium Way 54 peak-hour trips would be added.
- At the I-5 northbound on-ramp, Riverside Drive 53 peak-hour trips would be added.

These locations are on the proposed Project construction truck route. It is recommended that truck trips related to Reservoir construction, destined to the north and arriving from the north via the I-5 freeway, be spaced at intervals in order to avoid caravans of trucks. Avoiding the grouping of truck trips on these ramps, and avoiding peak-hour times for area traffic as much as possible, will remove any potential significant impacts at these CMP facilities.

Impacts to CMP Freeways

The nearest CMP mainline freeway-monitoring locations to the project site are on the I-5 freeway at Stadium Way and on the SR-II0 freeway at Pasadena Avenue. Project trucks would not be allowed on the SR-II0 freeway due to truck restrictions on the adjacent segment of that freeway. Project construction, during the most maximum-intensity construction period (proposed Project), would add less than I50 trips to the I-5 freeway mainline during peak hours.

10. Conclusions

The following is concluded from the traffic impact analysis conducted for this report.

10.1 Analysis Summary

The proposed Elysian Reservoir, located within Elysian Park, is owned by the City of Los Angeles and operated by the Department of Recreation and Parks (LADRP). The existing reservoir facility is maintained by the City of Los Angeles Department of Water and Power (LADWP)

To accomplish the objectives of the proposed Project, a new buried concrete-covered reservoir would be constructed in place of the existing uncovered Elysian Reservoir. Alternatives to the buried concrete have also been defined for the project. A park use would be constructed within the footprint of the buried reservoir (proposed Project), but would not be constructed under the Project alternatives.

A summary of the project analysis recommendations is provided below.

Recommended Traffic Mitigation Measures – Study Roadway Segments

Construction period traffic has been determined to create significant traffic impacts at two of the seven analyzed study roadway segments on game days at Dodger Stadium:

- Riverside Drive, between Gail Street and Forney Street
- Academy Road, north of Academy Road east-west segment

These impacts would occur during game days at Dodger Stadium, but would not occur when games are not in session. It is therefore recommended that construction truck routes that use these two roadway segments not be scheduled for use within one hour of the start of a Dodgers game and within one hour from the completion of a game.

Many of the local roadways used to access the Reservoir construction site are smaller two-lane park roads. The increases in traffic volumes that would occur on these roadways under most of the project alternatives could cause potential safety issues on these roads that primarily serve Elysian Park.

The following measures are recommended for implementation during project construction, in order to avoid potential safety conflicts between construction trucks and other vehicles:

- Prior to construction, a construction traffic control plan shall be prepared by the Los Angeles Department of Water and Power for review and approval by the Los Angeles Department of Transportation and the Los Angeles Department of Recreation and Parks. The plan shall include, at a minimum, advanced signing on Stadium Way and Riverside Drive, alerting motorists to construction and an increase in construction vehicle movements; signing to alert motorists to temporary or limited access points to adjacent properties; appropriate barricades for road closures; construction speed limit signage along the haul route; other appropriate signage along the haul route to warn park users of construction equipment and vehicles; flag persons at road closure locations, blind spots, other sharp turns to direct construction vehicle traffic; temporary crosswalks for park users; and parking restrictions during construction.
- Prior to the start of construction, the Los Angeles Department of Water and Power shall provide all construction workers with driver safety training to minimize conflicts between



construction activities and park users. Training shall include adherence to posted speed limits, discussion of haul routes, and explanation of the construction traffic control plan.

- Traffic on non-park roads shall be controlled during construction by adhering to the guidelines
 contained in Standard Specifications for Public Works Construction used by many
 municipalities in California and Caltrans' Traffic Manual, Chapter 5, "Manual of Traffic Controls
 for Construction and Maintenance Work Zones" and applicable City requirements. These
 guidelines provide methods to minimize construction effects on traffic flow.
- Los Angeles Department of Water and Power shall coordinate with Los Angeles Department of Recreation and Parks and Los Angeles Department of Transportation to prohibit on-street parking during peak phases of construction on the following street segments: Academy Road, north of Academy Road east-west segment; Solano Canyon Drive, north of Academy Road; Park Row Drive, south of Solano Canyon Drive; and Park Row Drive, west of Grand View Drive
- During construction when major sporting events are planned at Dodger Stadium, Los Angeles
 Department of Water and Power shall coordinate with the Los Angeles Department of
 Transportation to establish manual traffic control at established major intersections along the
 Stadium Way-Academy Road route to and from the stadium. If manual control cannot be
 provided, construction traffic would not be allowed on the haul route the hour before through
 the hour after a major event at Dodgers Stadium.

Recommended Traffic Mitigation Measures – Freeway Facilities

Project construction, during the highest activity period and during the peak-hour, would add more than 50 trips to the nearest I-5 interchange ramps at Stadium Way and Riverside Drive. These locations are on the proposed Project construction truck route. It is recommended that truck trips related to Reservoir construction, destined to the north and arriving from the north via the I-5 freeway, be spaced at intervals in order to avoid caravans of trucks. Avoiding the grouping of truck trips on these ramps, and avoiding peak-hour times for area traffic as much as possible, will remove any potential significant impacts at these CMP facilities.

Potential Parking Impacts

The parking demand generated by the new park area and used must be contained within the project site or significant impacts could occur to nearby vehicle parking areas currently used by park patrons. It is not currently known how the recreation area site plan would be configured. If all estimated parking demand can be contained within the project area, no significant parking impacts would result.

Appendix A

Memorandum of Understanding (MOU)

SCOPING FOR TRAFFIC STUDY

Elysian Reservoir Water Quality Improvement Project - Study II

September 20, 2010

[v1]

This Memorandum of Understanding (MOU) acknowledges Los Angeles Department of Transportation (LADOT) requirements of traffic impact analysis for the following project.

Project Name:

Elysian Reservoir Water Quality Improvement Project

Project Location:

The Elysian Reservoir property is owned by the City of Los Angeles and operated and maintained by LADWP. It is essentially surrounded by Elysian Park, which is operated and maintained by LADRP. The reservoir itself lies northwest of and immediately adjacent to the Arroyo Seco Parkway (SR-110). The project site location is illustrated in Attachment A.

Project Description:

The Los Angeles Department of Water and Power (LADWP) proposes to construct a new buried concrete-covered reservoir (buried reservoir) to replace the existing uncovered Elysian Reservoir

The new buried reservoir would consist of a reinforced concrete liner, concrete perimeter retaining walls, an extensive system of interior concrete shear walls and columns, and a concrete roof. The new buried reservoir would be constructed in essentially the same location as the existing reservoir, although with a slightly reduced footprint. This would necessitate the demolition of the existing reservoir. Topsoil would be placed over the buried reservoir, and the area above would be developed for recreation uses. A shallow wildlife pond of not less than 0.5-acres in size would also be created at the northern end of the reservoir property, but not atop the buried reservoir itself. After completion of project construction, the site would be opened to the public as part of Elysian Park. A formal program for the new public park space has not been defined, and the traffic analysis under this MOU would assume that no new major uses are planned for the new passive park use area within the project site boundaries.

Other than facilities related to water storage and transmission, the site would be maintained and operated by the Los Angeles Department of Recreation and Parks (LADRP).

Upon completion of the recreation planning process, the City of Los Angeles Board of Recreation and Parks Commissioners would use the EIR to make a discretionary decision regarding the recreation facility at the reservoir property. Additional future action under CEQA by LADRP may also be required, depending on the exact nature of this recreation facility.

Geographic Trip Distribution:

Truck trip distribution would be based on the planned haul routes for the project construction period. It is anticipated that construction activities would start in 2015 and be completed in 2020. Throughout construction, Grand View Drive from Park Row Drive to Point Grand View would be closed to ensure public safety and to provide equipment storage, worker parking, and material laydown areas. The inbound truck route would proceed from the Stadium Way exit from I-5, south along Stadium Way, east (left) on Academy Road (to the Dodger Stadium Gate), north (left) on Academy Road, north (left) on Park Road, south (right) on Park Row, east (left) on Grand View Drive to the project site. Outbound traffic would follow the same route in reverse.

Trip Generation Rate Source:

Daily construction truck trip estimates and number of construction employees during the peak period of construction were based on the general monthly construction schedule. Truck volumes would be multiplied by a factor of 2.5, consistent with the SCAG Heavy Duty Truck Model analysis. The proposed project, and the project alternatives, would generate the following daily trips during the peak periods of construction:

Proposed Project (Buried Structure): From 2015 to 2020, with peak activity in 2019 of 126 daily construction truck round trips and 45 construction worker vehicle round trips.

Floating Cover Alternative: From 2014 to 2016, with peak activity in 2015 of 34 daily construction truck round trips and 72 construction worker vehicle round trips.

Aluminum Cover Alternative: From 2014 to 2018, with peak activity in 2015 of 46 daily construction truck round trips and 72 construction worker vehicle round trips.

Separate Replacement of Inlet Line: Construction of the inlet line would occur concurrently with reservoir improvements, with peak activity in 2016 of 19 daily construction truck round trips and 10 construction worker vehicle round trips.

Trip generation of the new park area would be calculated using ITE Trip Generation (8th edition) rates for regional parks, based on acreage that would become available to park users once construction is completed. Park trip generation would be analyzed separately from construction-period traffic.

Ambient Growth Rate: 1%

Area Projects:

A list of pending projects would be used for analysis, as the impact analysis will be based on magnitude of volumes versus daily trips and general circulation issues to and from the site. A conservative growth rate of two percent, twice the typical rate, would be used to calculate growth for the project year.

Study Intersections (locations included on Attachment A map):

- Stadium Way / Riverside Drive *
- 2. Stadium Way / Landa Street *
- 3. Riverside Drive / Eads I-5 northbound on & off ramps (to Stadium Way) *
- 4. Riverside Drive / I-5 northbound on ramp & I-110 northbound off-ramp (south of Oros Street) *
- 5. Academy Drive (major)/Academy Drive (minor) ** #
- 6. Academy Drive/Park Road (Solano Canyon Drive on some maps)**
- * Weekday a.m. and p.m. peak hour counts would be collected at these locations.
- ** Only weekday p.m. peak hour counts would be collected at these locations.
- # Unsignalized intersection.

Study Roadway Segments (locations included on Attachment A map):

- A. Stadium Way, between Riverside Drive and I-5 southbound ramps
- B. Riverside Drive, between Gall Street and Forney Street
- C. Riverside Drive, between Fernleaf Street and Elmgrove Street
- D. Riverside Drive, between Oros Street and I-5 northbound ramps
- E. Stadium Way, north of Academy Drive
- F. Academy Drive, east of Stadium Way

September 13, 2010

[v1]

G. Academy Drive, north of Academy Drive east-west segment

Count Timeframes:

The project site is in the vicinity of the Dodger Stadium, and the construction truck route overlaps with the Dodger Stadium entry/exit gates. Weekday a.m. and p.m. peak-period counts (7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.) would be conducted at the study intersections adjacent to the I-5 corridor, and p.m. peak-period only counts would be conducted at intersections near Dodger Stadium. All intersection counts would be conducted on a game day and a non-game day for Dodger Stadium operations. Roadway segment counts would be conducted over the course of two 24-hour periods, with one period as a Dodger Stadium game day and an adjacent period as a non-game day.

The analysis would determine traffic impacts during the construction period with and without Dodger games in session.

Trip Credits: (Exact amount of credit subject to approval by LADOT)

	A SAME AND ADDRESS OF THE ABOVE ADDRES		
Transportation Demand Management (TDM)	yes	no	
Existing Active Land Use	yes	no	
Previous Land Use	yes	no	
Internal Trip	yes	no	
Pass-By Trip	yes	no	

This analysis will generally follow LADOT traffic study guidelines, dated August 2003, for the trip generation analysis.

Consultant: Applicant:

Name: KOA Corporation LADWP
Address: 1055 Corporate Center Dr., Suite 300 Prime consultant is AECOM:

Monterey Park, CA 91754-7642 515 South Flower Street, 9th Floor

Los Angeles, CA 90071

Contact: Brian A. Marchetti – (323) 260-4703 Melissa Hatcher – (213) 368-1614

Approved by:

Consultant's Representative

KOA Corporation

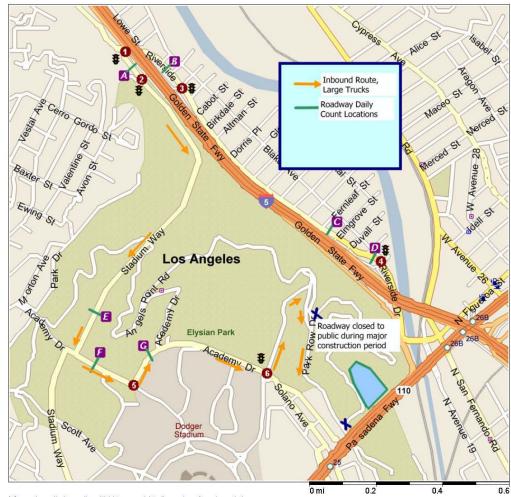
Doto

te LADO1

LADOT's Representative

Date

ATTACHMENT A PROJECT SITE AND STUDY LOCATIONS



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Appendix B
Existing Traffic Count Data

Prepared by:

National Data & Surveying Services

N-S STREET: Stadium Way DATE: 9/16/2010 LOCATION: City of Los Angeles

E-W STREET: Riverside Dr DAY: THURSDAY PROJECT# 10-5350-001

	NORTHBOUND			SOUTHBOUND			E	ASTBOL	JND	W			
LANES:	NL 0	NT 1	NR 1	SL 0	ST 0	SR 0	EL 0	ET 2	ER 1	WL 1	WT 2	WR 0	TOTAL
7:00 AM 7:15 AM 7:30 AM 7:45 AM 8:00 AM 8:15 AM 8:30 AM 8:45 AM	16 17 12 28 20 8 10 13		22 14 10 24 19 16 16					117 146 229 199 191 195 168 168	174 224 246 221 238 218 236 251	32 31 34 27 21 23 27 16	124 128 124 143 139 105 116 114		485 560 655 642 628 565 573 572
TOTAL VOLUMES =	NL 124 k Hr Be	NT 0 gins at:	NR 131 730	SL 0	ST 0	SR 0	EL O	ET 1413	ER 1808	WL 211	WT 993	WR 0	TOTAL 4680
PEAK VOLUMES =	68	0	69	0	0	0	0	814	923	105	511	0	2490

0.914

0.906

0.000

CONTROL: Signalized

0.659

PEAK HR. FACTOR:

Prepared by:

National Data & Surveying Services

N-S STREET: Stadium Way DATE: 9/16/2010 LOCATION: City of Los Angeles

E-W STREET: Riverside Dr DAY: THURSDAY PROJECT# 10-5350-001

	NO	RTHBO	UND	SC	OUTHBO	UND	E	ASTBOL	JND	W	/ESTBOL	IND	
LANES:	NL 0	NT 1	NR 1	SL 0	ST 0	SR 0	EL 0	ET 2	ER 1	WL 1	WT 2	WR 0	TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	112 135 132 151 180 199 168 176		67 101 71 112 109 149 126 112					97 99 99 97 98 119 127	59 55 53 50 64 65 50	14 12 8 16 12 14 28 24	153 130 116 110 119 165 179 172		502 532 479 536 582 711 678 645
TOTAL VOLUMES =	NL 1253 ak Hr Beç	NT 0 gins at:	NR 847 500	SL 0	ST 0	SR 0	EL O	ET 847	ER 446	WL 128	WT 1144	WR 0	TOTAL 4665
PEAK VOLUMES =	723	0	496	0	0	0	0	455	229	78	635	0	2616

PEAK														
VOLUMES =	723	0	496	0	Ο	0	0	455	229	78	635	Λ	2616	ı
VOLOIVILO —	723	O	470	U	O	O	U	400	227	, 0	000	O	2010	ı
													1	
PEAK HR.														ı
		0.074			0.000			0.020			0.041		0.020	ı
FACTOR:		0.876			0.000			0.929			0.861		0.920	ı

Prepared by:

National Data & Surveying Services

LOCATION: City of Los Angeles N-S STREET: Stadium Way DATE: 9/17/2010

E-W STREET: Riverside Dr DAY: FRIDAY PROJECT# 10-5350-001

	NC	ORTHBO	UND	SC	OUTHBOU	JND	E	ASTBOL	JND	V	/ESTBOL	JND	
LANES:	NL 0	NT 1	NR 1	SL 0	ST 0	SR 0	EL 0	ET 2	ER 1	WL 1	WT 2	WR 0	TOTAL
7:00 AM	12		11					74	115	12	109		333
7:15 AM 7:30 AM	7 6		21 18					137 202	160 200	23 24	122 156		470 606
7:45 AM	20		16					178	211	29	123		577
8:00 AM	17		16					170	205	13	124		545
8:15 AM 8:30 AM	17 8		12 12					164 172	201 202	26 16	106 101		526 511
8:45 AM	10		15					167	157	23	82		454
TOTAL VOLUMES =	NL 97	NT 0	NR 121	SL 0	ST 0	SR 0	EL 0	ET 1264	ER 1451	WL 166	WT 923	WR 0	TOTAL 4022
AM Pea	ık Hr Be	gins at:	730	AM									
PEAK													
VOLUMES =	60	0	62	0	0	0	0	714	817	92	509	0	2254
PEAK HR. FACTOR:		0.847			0.000			0.952			0.835		0.930

CONTROL: Signalized

Prepared by:

National Data & Surveying Services

N-S STREET: Stadium Way DATE: 9/17/2010 LOCATION: City of Los Angeles

E-W STREET: Riverside Dr DAY: FRIDAY PROJECT# 10-5350-001

LANES:	NL 0	NT 1	NR	SL									
	0	1		SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
4:00 PM 1		1	1	0	0	0	0	2	1	1	2	0	
	102		78					167	74	15	134		570
4:15 PM 1	139		84					169	75	17	161		645
4:30 PM 1	130		7 5					166	88	30	142		631
4:45 PM 1	145		109					191	86	22	178		731
5:00 PM 1	164		104					193	91	31	172		755
5:15 PM 1	190		127					198	95	22	191		823
5:30 PM 1	151		120					144	106	36	172		729
5:45 PM 1	141		95					182	107	40	178		743
TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
VOLUMES = 1	1162	0	792	0	0	0	0	1410	722	213	1328	0	5627
PM Peak F	Hr Begi	ns at:	500	PM									

PEAK														
VOLUMES =	646	0	446	0	0	0	0	717	399	129	713	0	3050	ı
VOLOIVILO	0.10	O	110	U	O	O		, , ,	0,,	127	, 10	Ü	0000	ı
														ı
PEAK HR.														ı
FACTOR:		0.861			0.000			0.952			0.966		0.926	ı
FACTOR.		0.001			0.000			0.952			0.900		0.920	ı

Prepared by:

National Data & Surveying Services

N-S STREET: Stadium Way DATE: 9/16/2010 LOCATION: City of Los Angeles

E-W STREET: I-5 SB Ramps DAY: THURSDAY PROJECT# 10-5350-002

	NO	ORTHBO	UND	SC	OUTHBO	UND	E	ASTBOU	ND	W	ESTBOL	JND	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	0	1.5	1.5	0	2	0	0	1	0	1.5	0.5	1	
7:00 AM		25	2	65	145	0	1			183	2	9	432
7:15 AM		22	1	64	187	0	0			209	0	5	488
7:30 AM		26	2	50	233	1	0			234	1	1	548
7:45 AM		39	6	42	202	0	1			231	2	7	530
8:00 AM		39	5	58	207	0	0			239	0	5	553
8:15 AM		14	3	41	193	1	0			237	0	5	494
8:30 AM		22	1	51	217	0	0			221	0	5	517
8:45 AM		19	2	51	210	1	1			228	1	4	517
TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
VOLUMES =	0	206	22	422	1594	3	3	0	0	1782	6	41	4079
AM Pea	ık Hr Be	egins at:	730	AM									
PEAK													
VOLUMES =	0	118	16	191	835	2	1	0	0	941	3	18	2125
PEAK HR. FACTOR:		0.744			0.905			0.250			0.986		0.961

Prepared by:

National Data & Surveying Services

N-S STREET: Stadium Way DATE: 9/16/2010 LOCATION: City of Los Angeles

E-W STREET: I-5 SB Ramps DAY: THURSDAY PROJECT# 10-5350-002

	NO	ORTHBO	JND	SC	UTHBO	UND	E.	ASTBOL	IND	W	ESTBOL	JND	
LANES:	NL 0	NT 1.5	NR 1.5	SL 0	ST 2	SR 0	EL 0	ET 1	ER 0	WL 1.5	WT 0.5	WR 1	TOTAL
4:00 PM	0	162	4	47	29	0	0			30	0	19	291
4:15 PM	0	221	4	36	29	0	0			32	0	16	338
4:30 PM	1	195	8	40	23	1	0			39	3	8	318
4:45 PM	0	257	6	38	30	0	1			34	0	11	377
5:00 PM	0	263	3	39	35	0	1			54	0	20	415
5:15 PM	0	330	6	45	39	1	0			37	0	21	479
5:30 PM	0	289	7	38	35	0	2			31	0	14	416
5:45 PM	2	277	0	46	33	0	1			29	0	10	398
TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
VOLUMES =	3	1994	38	329	253	2	5	0	0	286	3	119	3032
PM Pea	ık Hr Be	egins at:	500	PM									
PEAK VOLUMES =	2	1159	16	l 168	142	1	l 4	0	0	l 151	0	65	l 1708

PEAK														
VOLUMES =	2	1159	16	168	142	1	4	0	Ο	151	Ο	65	1708	ı
VOLONIES	_	1107	10	100			· '	O	Ü	101	Ü	00	1700	ı
														ı
PEAK HR.														ı
FACTOR:		0.876			0.915			0.500			0.730		0.891	ı
FACTOR.		0.676			0.915			0.500			0.730		0.091	ı

Prepared by:

National Data & Surveying Services

N-S STREET: Stadium Way DATE: 9/17/2010 LOCATION: City of Los Angeles

E-W STREET: I-5 SB Ramps DAY: FRIDAY PROJECT# 10-5350-002

	NC	ORTHBO	UND	SC	OUTHBOU	JND	E	ASTBOU	IND	W	ESTBOL	JND	
LANES:	NL 0	NT 1.5	NR 1.5	SL 0	ST 2	SR 0	EL 0	ET 1	ER 0	WL 1.5	WT 0.5	WR 1	TOTAL
7:00 AM	0	15	3	57	77	0	0		1	193	0	9	355
7:15 AM	0	14	4	56	121	0	1		0	239	1	12	448
7:30 AM	1	18	4	53	177	0	0		0	230	0	11	494
7:45 AM	0	27	6	50	183	1	1		0	213	0	3	484
8:00 AM	0	26	3	45	179	0	0		0	244	1	7	505
8:15 AM	0	21	5	52	168	0	0		0	235	0	8	489
8:30 AM	0	23	3	32	186	0	0		0	256	0	1	501
8:45 AM	0	16	3	31	149	0	0		0	231	0	5	435
TOTAL VOLUMES =	NL 1	NT 160	NR 31	SL 376	ST 1240	SR 1	EL 2	ET 0	ER 1	WL 1841	WT 2	WR 56	TOTAL 3711
AM Pea	k Hr Be	gins at:	745	AM									
PEAK VOLUMES =	0	97	17	179	716	1	1	0	0	948	1	19	1979

0.250

0.957

0.942

PEAK HR. FACTOR: 0.864

Prepared by:

National Data & Surveying Services

N-S STREET: Stadium Way DATE: 9/17/2010 LOCATION: City of Los Angeles

E-W STREET: I-5 SB Ramps DAY: FRIDAY PROJECT# 10-5350-002

NORTHBOUND SOUTHBOUND EASTBOUND WESTBOUND														
LANES: 0 1.5 1.5 0 2 0 0 1 0 1.5 0.5 1 4:00 PM 167 5 48 44 0 0 0 56 0 20 340 4:15 PM 199 3 40 49 0 0 0 73 0 17 381 4:30 PM 199 6 52 69 0 0 0 53 1 13 393 4:45 PM 216 9 49 64 1 0 1 102 0 39 481 5:00 PM 239 5 41 75 0 0 0 76 1 29 466 5:15 PM 297 5 44 75 1 0 1 113 0 26 562 5:30 PM 233 3 51 93 2 0 0 128 0 31 541 5:45 PM 217 4 41 106 1 <td></td> <td>NO</td> <td>DRTHBOU</td> <td>JND</td> <td>SC</td> <td>OUTHBOU</td> <td>JND</td> <td>E</td> <td>ASTBOU</td> <td>ND</td> <td>W</td> <td>/ESTBOL</td> <td>IND</td> <td></td>		NO	DRTHBOU	JND	SC	OUTHBOU	JND	E	ASTBOU	ND	W	/ESTBOL	IND	
LANES: 0 1.5 1.5 0 2 0 0 1 0 1.5 0.5 1 4:00 PM 167 5 48 44 0 0 0 56 0 20 340 4:15 PM 199 3 40 49 0 0 0 73 0 17 381 4:30 PM 199 6 52 69 0 0 0 53 1 13 393 4:45 PM 216 9 49 64 1 0 1 102 0 39 481 5:00 PM 239 5 41 75 0 0 0 76 1 29 466 5:15 PM 297 5 44 75 1 0 1 113 0 26 562 5:30 PM 233 3 51 93 2 0 0 128 0 31 541 5:45 PM 217 4 41 106 1 <td></td> <td>NL</td> <td>NT</td> <td>NR</td> <td>SL</td> <td>ST</td> <td>SR</td> <td>EL</td> <td>ET</td> <td>ER</td> <td>WL</td> <td>WT</td> <td>WR</td> <td>TOTAL</td>		NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
4:15 PM 199 3 40 49 0 0 0 73 0 17 381 4:30 PM 199 6 52 69 0 0 0 53 1 13 393 4:45 PM 216 9 49 64 1 0 1 102 0 39 481 5:00 PM 239 5 41 75 0 0 0 76 1 29 466 5:15 PM 297 5 44 75 1 0 1 113 0 26 562 5:30 PM 233 3 51 93 2 0 0 128 0 31 541 5:45 PM 217 4 41 106 1 1 0 177 0 24 571 TOTAL VOLUMES = 0 1767 40 366 575 5 1 0 2 778 2 199 3735 PEAK VOLUMES =<	LANES:													
4:15 PM 199 3 40 49 0 0 0 73 0 17 381 4:30 PM 199 6 52 69 0 0 0 53 1 13 393 4:45 PM 216 9 49 64 1 0 1 102 0 39 481 5:00 PM 239 5 41 75 0 0 0 76 1 29 466 5:15 PM 297 5 44 75 1 0 1 113 0 26 562 5:30 PM 233 3 51 93 2 0 0 128 0 31 541 5:45 PM 217 4 41 106 1 1 0 177 0 24 571 TOTAL VOLUMES = NL NT NR SL ST SR EL ET ER WL WT WR TOTAL VOLUMES = 0 <t< td=""><td>4:00 DM</td><td></td><td>167</td><td>5</td><td>10</td><td>11</td><td>0</td><td></td><td></td><td>0</td><td>56</td><td>0</td><td>20</td><td>340</td></t<>	4:00 DM		167	5	10	11	0			0	56	0	20	340
4:30 PM 199 6 52 69 0 0 0 53 1 13 393 4:45 PM 216 9 49 64 1 0 1 102 0 39 481 5:00 PM 239 5 41 75 0 0 0 76 1 29 466 5:15 PM 297 5 44 75 1 0 1 113 0 26 562 5:30 PM 233 3 51 93 2 0 0 128 0 31 541 5:45 PM 217 4 41 106 1 1 0 177 0 24 571 TOTAL VOLUMES = NL NT NR SL ST SR EL ET ER WL WT WR TOTAL VOLUMES = 0 1767 40 366 575 5 1 0 1 494 1 110 2140 <td></td>														
4:45 PM 216 9 49 64 1 0 1 102 0 39 481 5:00 PM 239 5 41 75 0 0 0 76 1 29 466 5:15 PM 297 5 44 75 1 0 1 113 0 26 562 5:30 PM 233 3 51 93 2 0 0 128 0 31 541 5:45 PM 217 4 41 106 1 1 0 177 0 24 571 TOTAL VOLUMES = NL NT NR SL ST SR EL ET ER WL WT WR TOTAL VOLUMES = PM Peak Hr Begins at: 500 PM														
5:00 PM 239 5 41 75 0 0 0 76 1 29 466 5:15 PM 297 5 44 75 1 0 1 113 0 26 562 5:30 PM 233 3 51 93 2 0 0 128 0 31 541 5:45 PM 217 4 41 106 1 1 0 177 0 24 571 TOTAL VOLUMES = NL NT NR SL SL ST SR ST ST SR ST														
5:15 PM 297 5 44 75 1 0 1 113 0 26 562 5:30 PM 233 3 51 93 2 0 0 128 0 31 541 5:45 PM 217 4 41 106 1 1 0 177 0 24 571 TOTAL VOLUMES = NL NT NR SL ST SR EL ET ER WL WT WR TOTAL VOLUMES PM Peak Hr Begins at: 500 PM PEAK VOLUMES = 0 986 17 177 349 4 1 0 1 494 1 110 2140														
5:30 PM 233 3 51 93 2 0 0 128 0 31 541 5:45 PM 217 4 41 106 1 1 0 177 0 24 571 TOTAL VOLUMES = NL NT NR OLUMES SL ST SR SR ST ST SR ST ST SR ST ST SR ST												-		
5:45 PM 217 4 41 106 1 1 0 177 0 24 571 TOTAL VOLUMES = NL NT NR 0 1767 SL ST SR 1 0 2 178 EL ET ER 1 0 2 178 WL WT WR TOTAL 778 TOTAL 778 2 199 3735 PM Peak Hr Begins at: 500 PM PEAK VOLUMES = 0 986 17 177 349 4 1 0 1 494 1 110 2140										•				
TOTAL VOLUMES =														
VOLUMES = 0 1767 40 366 575 5 1 0 2 778 2 199 3735 PM Peak Hr Begins at: 500 PM PEAK VOLUMES = 0 986 17 177 349 4 1 0 1 494 1 110 2140	3.43 I W		217	7	71	100	'			U	177	U	24	371
VOLUMES = 0 1767 40 366 575 5 1 0 2 778 2 199 3735 PM Peak Hr Begins at: 500 PM PEAK VOLUMES = 0 986 17 177 349 4 1 0 1 494 1 110 2140	TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
PM Peak Hr Begins at: 500 PM PEAK VOLUMES = 0 986 17 177 349 4 1 0 1 494 1 110 2140														
PEAK VOLUMES = 0 986 17 177 349 4 1 0 1 494 1 110 2140														
PEAK VOLUMES = 0 986 17 177 349 4 1 0 1 494 1 110 2140	•	•			-						•			•
PEAK VOLUMES = 0 986 17 177 349 4 1 0 1 494 1 110 2140														
VOLUMES = 0 986 17 177 349 4 1 0 1 494 1 110 2140	PM Pea	k Hr Be	egins at:	500	PM									
VOLUMES = 0 986 17 177 349 4 1 0 1 494 1 110 2140	PFΔK													
		0	986	17	177	349	4	l 1	0	1	494	1	110	2140
DEAL LID							-		-	-		•		
PEAK HR.	PEAK HR.													
FACTOR: 0.830 0.895 0.500 0.752 0.937			0.830			0.895			0.500			0.752		0.937

Prepared by:

National Data & Surveying Services

N-S STREET: I-5 NB Ramps/Eads St DATE: 9/16/2010 LOCATION: City of Los Angeles

E-W STREET: Riverside Dr DAY: THURSDAY PROJECT# 10-5350-003

NIC	NOTUDOI	INID	<u> </u>	NITUDAL	INID		ACTROLL	ND	١٨	/FCTDOI	INID	
NC	JK I HBOU	טאט	50)O I HBOL	טאט	E	A21BO0	ND	V\	IE2 I BOL	טאנ	
NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
1	2	0	0	2	0	1.5	0.5	1	0	1	0	
55	3	13	5	2	2		129	14	38	96	1	358
81	6	20		1	1		166	6	35		0	413
			5	1	1		225	7	40		2	473
70		15	4	1	1		216	9	23	113	0	455
60	3	11	4		1		192	14	35	105	0	427
37	0	12	2		1		197	7	35	100	2	393
45	2	17	0	2	2		162	10	25	95	3	363
44	4	7	5	1	1		189	9	20	85	2	367
									_			
												TOTAL
464	23	113	27	10	10	0	1476	76	251	789	10	3249
. Ur Do	ains at	715	A N A									
спі ве	giris at.	713	Alvi									
283	14	64	15	5	4	0	799	36	133	413	2	1768
				-	-							
	0.843			0.857			0.900			0.965		0.934
	NL 1 55 81 72 70 60 37 45 44 NL 464	NL NT 1 2 55 3 81 6 72 2 70 3 60 3 37 0 45 2 44 4	1 2 0 55 3 13 81 6 20 72 2 18 70 3 15 60 3 11 37 0 12 45 2 17 44 4 7 NL NT NR 464 23 113 CHr Begins at: 715	NL NT NR SL 1 2 0 0 55 3 13 5 81 6 20 2 72 2 18 5 70 3 15 4 60 3 11 4 37 0 12 2 45 2 17 0 44 4 7 5 NL A64 NT NR A64 NSL 27 AM 283 14 64 15	NL NT NR SL ST 1 2 0 0 2 55 3 13 5 2 81 6 20 2 1 72 2 18 5 1 70 3 15 4 1 60 3 11 4 2 37 0 12 2 0 45 2 17 0 2 44 4 7 5 1 NL NR NR SL ST 10 SHr Begins at: 715 AM	NL NT NR SL ST SR 1 2 0 0 2 0 55 3 13 5 2 2 81 6 20 2 1 1 72 2 18 5 1 1 70 3 15 4 1 1 60 3 11 4 2 1 37 0 12 2 0 1 45 2 17 0 2 2 44 4 7 5 1 1 NL NT NR SL ST SR 464 23 113 27 10 10 At Hr Begins at: 715 AM	NL NT NR SL ST SR EL 1 2 0 0 2 0 1.5 55 3 13 5 2 2 81 6 20 2 1 1 72 2 18 5 1 1 70 3 15 4 1 1 60 3 11 4 2 1 37 0 12 2 0 1 45 2 17 0 2 2 44 4 7 5 1 1 SL ST SR EL O Add The Begins at: 715 AM Add 23 113 27 10 10 0	NL NT NR SL ST SR EL ET 1 2 0 0 2 0 1.5 0.5 55 3 13 5 2 2 129 81 6 20 2 1 1 166 72 2 18 5 1 1 225 70 3 15 4 1 1 216 60 3 11 4 2 1 192 37 0 12 2 0 1 197 45 2 17 0 2 2 162 44 4 7 5 1 1 189 NL NT NR SL ST SR EL ET 464 23 113 27 10 10 0 1476 CHr Begins at: 715 AM 283 14 64 15 5 4 0 799	NL NT NR SL ST SR EL ET ER 1 2 0 0 2 0 1.5 0.5 1 55 3 13 5 2 2 11 1 166 6 72 2 18 5 1 1 225 7 70 3 15 4 1 1 216 9 60 3 11 4 2 1 192 14 37 0 12 2 0 1 197 7 45 2 17 0 2 2 2 162 10 44 4 7 5 1 1 189 9 NL NT NR SL ST SR EL ET ER 464 23 113 27 10 10 0 1476 76	NL NT NR SL ST SR EL ET ER WL 1 2 0 0 2 0 1.5 0.5 1 0 55 3 13 5 2 2 129 14 38 81 6 20 2 1 1 166 6 35 72 2 18 5 1 1 225 7 40 70 3 15 4 1 1 216 9 23 60 3 11 4 2 1 192 14 35 37 0 12 2 0 1 197 7 35 45 2 17 0 2 2 162 10 25 44 4 7 5 1 1 189 9 20 WH AH AH	NL NT NR SL ST SR EL ET ER WL WT 55 3 13 5 2 2 129 14 38 96 81 6 20 2 1 1 166 6 35 95 72 2 18 5 1 1 225 7 40 100 70 3 15 4 1 1 216 9 23 113 60 3 11 4 2 1 192 14 35 105 37 0 12 2 0 1 197 7 35 100 45 2 17 0 2 2 162 10 25 95 44 4 7 5 1 1 189 9 20 85 What Hr Begins at: 715 AM	NL NT NR SL ST SR EL ET ER WL WT WR 1 2 0 0 2 0 1.5 0.5 1 0 1 0 55 3 13 5 2 2 129 14 38 96 1 81 6 20 2 1 1 166 6 35 95 0 72 2 18 5 1 1 225 7 40 100 2 70 3 15 4 1 1 216 9 23 113 0 60 3 11 4 2 1 192 14 35 105 0 37 0 12 2 0 1 197 7 35 100 2 445 2 17 0 2 2

Prepared by:

National Data & Surveying Services

N-S STREET: I-5 NB Ramps/Eads St DATE: 9/16/2010 LOCATION: City of Los Angeles

E-W STREET: Riverside Dr DAY: THURSDAY PROJECT# 10-5350-003

	NO	RTHBO	UND	SC	UTHBO	UND	E	ASTBOU	ND	W	'ESTBOL	IND	
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 0	EL 1.5	ET 0.5	ER 1	WL 0	WT 1	WR 0	TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	36 36 33 37 23 38 38 29	2 2 4 2 2 1 2	10 10 12 4 11 7 13	5 8 10 5 2 2 2 5	7 2 6 3 6 2 1	2 2 1 2 2 0 1	3 0 0 0 0 1 0	116 120 123 121 129 148 155 109	48 76 60 88 81 97 93 99	38 25 19 22 33 50 36 38	139 111 98 89 127 167 172 181	3 0 0 1 3 3 2 2	409 392 366 374 419 516 515 475
TOTAL VOLUMES =	NL 270 sk Hr Beg	NT 16	NR 77 500	SL 39	ST 27	SR 11	EL 4	ET 1021	ER 642	WL 261	WT 1084	WR 14	TOTAL 3466
PEAK VOLUMES =	128	6	41	11	9	4	1	541	370	157	647	10	1925

0.919

0.600

0.921

CONTROL: Signalized

0.825

PEAK HR.

FACTOR:

Prepared by:

National Data & Surveying Services

N-S STREET: I-5 NB Ramps/Eads St DATE: 9/17/2010 LOCATION: City of Los Angeles

E-W STREET: Riverside Dr DAY: FRIDAY PROJECT# 10-5350-003

	NORTHBOUND			SC	SOUTHBOUND			EASTBOUND			WESTBOUND		
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 0	EL 1.5	ET 0.5	ER 1	WL 0	WT 1	WR 0	TOTAL
7:00 AM	51	0	7	2	2	1		95	1	1	80	2	242
7:15 AM	70	1	10	6	3	1		143	11	28	85	0	358
7:30 AM	76	8	13	0	2	0		196	3	34	109	2	443
7:45 AM	62	3	22	3	2	1		179	10	30	104	2	418
8:00 AM	53	7	10	5	1	2		179	7	22	88	1	375
8:15 AM	46	4	10	2	0	2		167	8	22	87	1	349
8:30 AM	30	0	7	2	1	4		181	7	23	81	0	336
8:45 AM	44	5	15	1	2	2		175	12	21	73	3	353
TOTAL VOLUMES =	NL 432	NT 28	NR 94	SL 21	ST 13	SR 13	EL 0	ET 1315	ER 59	WL 181	WT 707	WR 11	TOTAL 2874
	ık Hr Be	gins at:	715	AM									
PEAK VOLUMES =	261	19	55	14	8	4	0	697	31	114	386	5	1594

0.915

0.650

0.871

CONTROL: Signalized

0.863

PEAK HR.

FACTOR:

Prepared by:

National Data & Surveying Services

N-S STREET: I-5 NB Ramps/Eads St DATE: 9/17/2010 LOCATION: City of Los Angeles

E-W STREET: Riverside Dr DAY: FRIDAY PROJECT# 10-5350-003

	NORTHBOUND			SC	SOUTHBOUND			EASTBOUND			WESTBOUND		
LANES:	NL 1	NT 2	NR 0	SL 0	ST 2	SR 0	EL 1.5	ET 0.5	ER 1	WL 0	WT 1	WR 0	TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM	31 32 34 35 36 47 44 53	6 0 3 2 2 6 0 2	7 6 8 12 8 13 12 10	5 7 9 9 4 3 5	6 8 6 5 0 2 3 0	2 1 0 4 1 1 1	1 0 0 0 0 1 0	189 176 195 214 230 229 194 215	59 64 49 72 76 94 77 65	39 44 44 32 40 44 51 55	122 144 141 157 164 178 164 164	3 3 5 4 2 1 0 2	470 485 494 546 563 619 551 567
TOTAL VOLUMES =	NL 312 k Hr Be	NT 21 gins at:	NR 76 500	SL 42	ST 30	SR 11	EL 2	ET 1642	ER 556	WL 349	WT 1234	WR 20	TOTAL 4295
PEAK VOLUMES =	180	10	43	12	5	4	1	868	312	190	670	5	2300

0.911

0.583

0.970

CONTROL: Signalized

0.883

PEAK HR.

FACTOR:

Prepared by:

National Data & Surveying Services

LOCATION: City of Los Angeles N-S STREET: I-5 NB Ramps DATE: 9/16/2010

E-W STREET: Riverside Dr DAY: THURSDAY PROJECT# 10-5350-004

	NC	ORTHBO	LIND	SC	OUTHBOU	IND	F	ASTBOU	ND	١٨			
	NC	JKTTIBO	UND	30	000111000110			LASTBOOND			WESTBOUND		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1.5	0	0.5	0	0	0	0	2	0	1	2	0	
7:00 AM	5		2					91	5	54	65		222
7:15 AM	2		4					114	2	57	77		256
7:30 AM	4		5					154	2	45	105		315
7:45 AM	2		1					119	0	66	98		286
8:00 AM	8		6					130	2	52	112		310
8:15 AM	9		3					129	2	51	107		301
8:30 AM	3		8					102	4	39	98		254
8:45 AM	6		6					116	1	34	94		257
TOTAL		NIT.	NID	01		- OD	FI		- FD	1 100	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	MD	LTOTAL
TOTAL	NL 20	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
VOLUMES =	39	0	35	0	0	0	0	955	18	398	756	0	2201
	1												1
AM Pea	ık Hr Be	gins at:	730	AM									
		J											
PEAK													
VOLUMES =	23	0	15	0	0	0	0	532	6	214	422	0	1212
PEAK HR.													
FACTOR:		0.679			0.000			0.862			0.970		0.962

CONTROL: Signalized

Prepared by:

National Data & Surveying Services

N-S STREET: I-5 NB Ramps DATE: 9/16/2010 LOCATION: City of Los Angeles

E-W STREET: Riverside Dr DAY: THURSDAY PROJECT# 10-5350-004

	NC	NORTHBOUND			SOUTHBOUND			ASTBOU	ND	V			
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1.5	0	0.5	0	0	0	0	2	0	1	2	0	
4:00 PM	30		1					124	1	20	123		299
4:15 PM	39		1					139	1	29	118		327
4:30 PM	25		2					111	0	25	104		267
4:45 PM	16		0					142	1	16	108		283
5:00 PM	44		3					146	3	30	157		383
5:15 PM	77		3					194	0	14	154		442
5:30 PM	57		1					193	0	15	143		409
5:45 PM	60		0					166	0	24	170		420
TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
VOLUMES =	348	0	11	0	0	0	0	1215	6	173	1077	0	2830
	Ī			l						I]
PM Pea	ak Hr Be	gins at:	500	PM									
PEAK													
VOLUMES =	238	0	7	0	0	0	0	699	3	83	624	0	1654
PEAK HR. FACTOR:		0.766			0.000			0.905			0.911		0.936

Prepared by:

National Data & Surveying Services

N-S STREET: I-5 NB Ramps DATE: 9/17/2010 LOCATION: City of Los Angeles

E-W STREET: Riverside Dr DAY: FRIDAY PROJECT# 10-5350-004

	NIC.	DELIBOI	UNID		NITURAL	INID		ACTROLL	ND	1.0	(EOTDO)	INID	
	NC	ORTHBO	UND	SC	DUTHBOU	טאט	E	ASTBOU	שמ	V	/ESTBOL	טאנ	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1.5	0	0.5	0	0	0	0	2	0	1	2	0	
7:00 AM	7		2					96	5	42	58		210
7:15 AM	3		8					94	3	55	70		233
7:30 AM	8		0					130	1	59	83		281
7:45 AM	4		4					111	2	55	103		279
8:00 AM	2		4					131	0	44	83		264
8:15 AM	7		1					100	4	57	92		261
8:30 AM	11		4					96	2	48	77		238
8:45 AM	3		2					115	3	42	82		247
TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
VOLUMES =	45	0	25	0	0	0	0	873	20	402	648	0	2013
AM Pea	k Hr Be	gins at:	730	AM									
71171 00		gino ati	, 00	,									
PEAK													
VOLUMES =	21	0	9	0	0	0	0	472	7	215	361	0	1085
PEAK HR.													
FACTOR:		0.938			0.000			0.914			0.911		0.965

CONTROL: Signalized

Prepared by:

National Data & Surveying Services

N-S STREET: I-5 NB Ramps DATE: 9/17/2010 LOCATION: City of Los Angeles

E-W STREET: Riverside Dr DAY: FRIDAY PROJECT# 10-5350-004

	NC	ORTHBO	IND	\$(OUTHBOU	INID		ASTBOU	ND	١٨	/ESTBOL	INID	
	INC	ЖІПЬО	טווט	30	ЛОТПВОС	טאט		ASTOUU	ND	V	/E31bUC	טאט	
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
LANES:	1.5	0	0.5	0	0	0	0	2	0	1	2	0	
4:00 PM	47		3					149	2	17	148		366
4:15 PM	60		3					154	2	16	146		381
4:30 PM	61		2					180	1	19	138		401
4:45 PM	66		1					184	1	18	146		416
5:00 PM	78		2					202	1	22	164		469
5:15 PM	73		5					195	0	20	152		445
5:30 PM	80		2 2					174	0	18	148		422
5:45 PM	78		2					205	1	11	168		465
TOTAL	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
VOLUMES =	543	0	20	0	0	0	0	1443	8	141	1210	0	3365
PM Pea	ık Hr Be	gins at:	500	PM									
		=											
PEAK	_			_			_			_			<u>.</u> .
VOLUMES =	309	0	11	0	0	0	0	776	2	71	632	0	1801
PEAK HR.													
FACTOR:		0.976			0.000			0.944			0.945		0.960

CONTROL: Signalized

Prepared by:

National Data & Surveying Services

N-S STREET: Academy Dr DATE: 9/16/2010 LOCATION: City of Los Angeles

E-W STREET: Stadium Northwest Gate DAY: THURSDAY PROJECT# 10-5350-005

	NC	RTHBO	UND	SC	OUTHBC	UND	E/	ASTBOL	IND	W	'ESTBOL	JND	
LANES:	NL 0	NT 0	NR 0	SL 1	ST 0	SR 1	EL 1	ET 3	ER 0	WL 0	WT 2	WR 0	TOTAL
4:00 PM 4:15 PM 4:30 PM 4:45 PM 5:00 PM 5:15 PM 5:30 PM 5:45 PM						37 22 23 24 28 33 29 27	26 33 25 32 31 21 34 33	1 1 0 1 0 0 0			1 0 0 1 0 0 0	0 1 0 0 0 0 0	65 57 48 58 59 54 63
TOTAL VOLUMES =	NL O k Hr Be	NT 0 gins at:	NR 0 500	SL 0	ST 0	SR 223	EL 235	ET 3	ER 0	WL O	WT 2	WR 1	TOTAL 464
PEAK VOLUMES =	0	0	0	0	0	117	119	0	0	0	0	0	236

0.875

0.000

0.886

CONTROL: 1-Way Stop (SB)

0.000

PEAK HR. FACTOR:

Prepared by:

National Data & Surveying Services

LOCATION: City of Los Angeles N-S STREET: Academy Dr DATE: 9/17/2010

E-W STREET: Stadium Northwest Gate DAY: FRIDAY PROJECT# 10-5350-005

	NO	ORTHBOU	JND	SC	OUTHBOU	JND	E	ASTBOUI	ND	W	/ESTBOU	JND	
LANES:	NL 0	NT 0	NR 0	SL 1	ST 0	SR 1	EL 1	ET 3	ER 0	WL 0	WT 2	WR 0	TOTAL
4:00 PM				1		38	29	2			0	0	70
4:15 PM				0		22	28	6			0	0	56
4:30 PM				0		24	26	2			0	0	52
4:45 PM				1		33	61	6			0	0	101
5:00 PM				1		29	45	55			0	0	130
5:15 PM				1		19	43	52			2	0	117
5:30 PM				4		18	41	101			0	2	166
5:45 PM				2		22	56	120			2	1	203
TOTAL VOLUMES =	NL O	NT 0	NR 0	SL 10	ST 0	SR 205	EL 329	ET 344	ER 0	WL 0	WT 4	WR 3	TOTAL 895
PM Pea	k Hr Be	egins at:	500	PM									
PEAK	1 -	_	_ 1	1 _	_		l					_	
VOLUMES =	0	0	0	8	0	88	185	328	0	0	4	3	616
PEAK HR. FACTOR:		0.000			0.800			0.729			0.583		0.759

CONTROL: 1-Way Stop (SB)

Prepared by:

National Data & Surveying Services

N-S STREET: Park Rd-Park DATE: 9/16/2010 LOCATION: City of Los Angeles

E-W STREET: Academy Dr DAY: THURSDAY PROJECT# 10-5350-006

	NC	ORTHBO	UND	SC	UTHBO	UND	E	ASTBOU	ND	W	/ESTBOL	JND	
LANES:	NL 1.5	NT 0.5	NR 2	SL 1	ST 2	SR 0	EL 1.5	ET 0.5	ER 0	WL 1	WT 2	WR 0	TOTAL
4:00 PM	0		0	1		2	1	11	0	0	17	2	34
4:15 PM	1		1	4		4	1	12	1	1	17	5	47
4:30 PM	0		0	4		1	5	14	0	0	11	4	39
4:45 PM	0		1	4		0	2	14	0	1	12	3	37
5:00 PM	0		0	1		3	1	16	0	0	17	2	40
5:15 PM	0		0	4		2	3	12	0	0	15	8	44
5:30 PM	0		0	2		4	1	14	0	0	19	2	42
5:45 PM	0		0	4		0	3	10	0	0	14	0	31
TOTAL VOLUMES =	NL 1	NT 0	NR 2	SL 24	ST 0	SR 16	EL 17	ET 103	ER 1	WL 2	WT 122	WR 26	TOTAL 314
PM Pea	ık Hr Be	gins at:	445	PM									
PEAK VOLUMES =	0	0	1	11	0	9	7	56	0	1	63	15	163
PEAK HR.													

0.926

0.833

0.859

CONTROL: Signalized;

0.250

FACTOR:

Prepared by:

National Data & Surveying Services

N-S STREET: Park Rd-Park DATE: 9/17/2010 LOCATION: City of Los Angeles

E-W STREET: Academy Dr DAY: FRIDAY PROJECT# 10-5350-006

	NC	RTHBO	UND	SC	UTHBO	UND	E	ASTBOU	IND	W	ESTBOL	JND	
LANES:	NL 1.5	NT 0.5	NR 2	SL 1	ST 2	SR 0	EL 1.5	ET 0.5	ER 0	WL 1	WT 2	WR 0	TOTAL
4:00 PM	2	0	1	2	0	0	0	29	3	5	25	1	68
4:15 PM	2	0	1	0	0	2	3	21	2	3	22	0	56
4:30 PM	2	0	3	0	0	0	0	22	4	3	18	0	52
4:45 PM	5	2	4	2	0	0	3	27	5	9	32	1	90
5:00 PM	6	0	4	1	0	1	3	30	6	4	19	4	78
5:15 PM	1	0	3	0	1	0	16	20	5	6	28	1	81
5:30 PM	2	1	4	0	0	0	13	25	7	6	21	1	80
5:45 PM	2	1	3	2	0	2	39	36	7	5	29	5	131
TOTAL VOLUMES =	NL 22	NT 4	NR 23	SL 7	ST 1	SR 5	EL 77	ET 210	ER 39	WL 41	WT 194	WR 13	TOTAL 636
PM Pea	ık Hr Be	gins at:	500	PM									
PEAK VOLUMES = PEAK HR.	11	2	14	3	1	3	71	111	25	21	97	11	370

0.631

0.438

0.706

0.827

CONTROL: Signalized;

FACTOR:

							Prepare	ed by NDS/	ATD								
Volumes 1	for:	Thurs	day,	Septem	nber 1	6, 2010	City:	Los An	geles	NB		Da SB	ily T	otals EB		WB	Total
Location:	Sta	dium	Way	SW/o	River	side Dr	Project:	10-535	1-001	6,007		6,579		0		0	12,586
AM Period	NB		SB		EB	WB		PM Period	NB		SB		EB		WB		
00:00	7		13					12:00	46		74						
00:15	6		11					12:15	56		68						
00:30	7		7					12:30	64		76						
00:45	6	26	15	46			72	12:45	39	205	66	284					489
01:00	5		10					13:00	49		71						
01:15	6		9					13:15	59		76						
01:30	2		16					13:30	70		78						
01:45	2	15	7	42			57	13:45	68	246	81	306					552
02:00	2		5					14:00	51		67						
02:15	2		6					14:15	60		67 71						
02:30 02:45	2 4	10	7 6	24			34	14:30 14:45	101 93	305	71 87	292					597
		10		24			34			303		272					377
03:00 03:15	1 2		7 11					15:00 15:15	110 109		63 72						
03:15	2		9					15:15	135		72 78						
03:45	0	5	8	35			40	15:45	150	504	79	292					796
04:00	2		8					16:00	156	-5.	68	-					. , 0
04:00	3		9					16:15	227		70						
04:30	2		8					16:30	210		70						
04:45	3	10	16	41			51	16:45	258	851	64	272					1123
05:00	6		19					17:00	282		73						
05:15	4		25					17:15	327		81						
05:30	10		37					17:30	299		64						
05:45	15	35	33	114			149	17:45	293	1201	75	293					1494
06:00	15		52					18:00	289		78						
06:15	28		45					18:15	227		49						
06:30	18		109					18:30	194		57						
06:45	27	88	147	353			441	18:45	154	864	69	253					1117
07:00	39		200					19:00	171		48						
07:15	27		240					19:15	118		43						
07:30	26		275					19:30	83		52						
07:45	49	141	249	964			1105	19:45	52	424	61	204					628
08:00	39		258					20:00	54		46						
08:15	24		234					20:15	55		46						
08:30	26		263					20:30	36		49						
08:45	45	134	269	1024			1158	20:45	55	200	38	179					379
09:00	31		186					21:00	32		59						
09:15	33		172					21:15	35		39						
09:30	47	1.40	146				77.4	21:30	32	100	39	170					202
09:45	38	149	121	625			774	21:45	24	123	33	170					293
10:00	41		102					22:00	15		26						
10:15	42 25		79 76					22:15	18 17		24						
10:30 10:45	35 36	154	76 71	328			482	22:30 22:45	17 15	65	18 18	86					151
		134	71	320			702			03		30					131
11:00 11:15	42 52		71 78					23:00 23:15	13 21		22 20						
11:30	50		76					23:30	12		11						
11:45	51	195	56	281			476	23:45	11	57	18	71					128
Total Vol.		962		3877			4839			5045 NB		2702 SB		EB		WB	7747 Total
								Daily To	stale :								
					Δ	M		Daily 10	rtais :	6,007		6,579		O PM		0	12,586
Split %		19.9%		80.1%			38.4%			65.1%		34.9%					61.6%
AM				00.00				PM									
Peak Hr. Volume		11:45 217		08:00 1024			07:15 1163	Peak Hr. Volume		17:15 1208		13:00 306					17:15 1506
P.H.F.		0.848		0.952			0.966	P.H.F.		0.924		0.944					0.923
F .1 1.1 .				1988			2263	4 - 6 Vol.		2052		565					2617
		275															
7 - 9 Vol. Peak Hr.		07:00	١	08:00			07:15	Peak Hr.		17:00		17:00					17:00
7 - 9 Vol.							07:15 1163 0.966	Peak Hr. Volume P.H.F.		17:00 1201 0.918		17:00 293 0.904					17:00 1494 0.915

							Prepare	ed by NDS/	ATD							
Volumes	for:	Frida	y, Sep	pteml	ber 17, :	2010	City:	Los An	geles	NB		Da SB	ily To	tals EB	WB	Total
Location:	Sta	dium	Way	SW	o River	side Dr	Project:	10-535	1-001	8,063		7,411		0	0	15,474
AM Period	NB		SB		EB	WB		PM Period	NB	II.	SB		EB	WB		
00:00	7		15					12:00	34		76					
00:15	4		14					12:15	49		69					
00:30	9		9					12:30	67		78					
00:45	5	25	11	49			74	12:45	80	230	68	291				521
01:00	3		1					13:00	69		69					
01:15	5		8					13:15	67		74					
01:30	1 1	10	9 21	20			49	13:30	55 55	246	92 64	200				545
01:45		10		39			49	13:45		246		299				343
02:00 02:15	8		11 4					14:00 14:15	70 76		67 68					
02:15	2		3					14:15	88		83					
02:45	6	16	8	26			42	14:45	84	318	75	293				611
03:00	0		5					15:00	99		97					
03:15	2		5					15:15	124		82					
03:30	5		7					15:30	138		111					
03:45	0	7	3	20			27	15:45	175	536	87	377				913
04:00	4		11					16:00	178		82					
04:15	2		8					16:15	220		96					
04:30	2		11					16:30	205		115					
04:45	5	13	8	38			51	16:45	259	862	107	400				1262
05:00	2		16					17:00	265		114					
05:15	7		23					17:15	311		113					
05:30	12	25	27	00			100	17:30	270	1070	133	F07				150/
05:45	14	35	27	93			128	17:45	233	1079	147	507				1586
06:00	13		39					18:00	175		156					
06:15 06:30	18 18		43 64					18:15 18:30	167 143		190 224					
06:45	29	78	83	229			307	18:45	85	570	223	793				1363
07:00	22	, ,	129					19:00	113	0,0	222					1000
07:15	29		176					19:15	85		147					
07:30	25		217					19:30	85		130					
07:45	35	111	245	767			878	19:45	70	353	92	591				944
08:00	39		212					20:00	56		93					
08:15	52		214					20:15	50		56					
08:30	19		219					20:30	54		52					
08:45	25	135	180	825			960	20:45	53	213	44	245				458
09:00	30		171					21:00	103		52					
09:15	31		141					21:15	122		45					
09:30	27	100	101	F17			(40	21:30	164	/ 00	43	17/				704
09:45	35	123	104	517			640	21:45	219	608	36	176				784
10:00 10:15	33 28		80 73					22:00 22:15	451 405		39 39					
10:15	28 37		73 67					22:15	405 255		39 36					
10:35	45	143	76	296			439	22:45	506	1617	29	143				1760
11:00	52		70					23:00	375		36					
11:15	42		66					23:15	87		20					
11:30	58		80					23:30	43		25					
11:45	40	192	81	297			489	23:45	38	543	19	100				643
Total Vol.		888		3196			4084			7175		4215				11390
										NB		SB		ЕВ	WB	Total
								Daily To	otals :	8,063		7,411		0	0	15,474
Cwllt Or		06.55		70.5		M	0/ 10/			/2.00/		27.004	PI	VI		70.404
Split %		21.7%)	78.3%			26.4%	PM		63.0%		37.0%				73.6%
Peak Hr.		10:45		07:45			07:30	Peak Hr.		22:00		18:15				22:00
Volume		197		890			1039	Volume		1617		859				1760
P.H.F.		0.849		0.908			0.928	P.H.F.		0.799		0.959				0.822
7 - 9 Vol. Peak Hr.		246 07:30		1592 07:45			1838 07:30	4 - 6 Vol. Peak Hr.		1941 16:45		907 17:00				2848 17:00
Volume		151		890			1039	Volume		1105		507				1586

0.928

P.H.F.

0.888

0.862

0.935

P.H.F.

0.726

							Prepare	ed by NDS/ <i>F</i>	AID							
Volumes	for: '	Thurs	day,	Septem	nber 16	, 2010	City:	Los Anç	geles	NB		Da SB	aily Tot	als B	WB	Total
Location:	Rive	erside	Dr	S/o Sta	adium \	Nay	Project:	10-5351	1-002	8,954		8,824		0	0	17,778
AM Period	NB		SB		EB	WB		PM Period	NB		SB		EB	WB		
00:00	24		32					12:00	91		114					
00:15	17		21					12:15	93		91					
00:30	16		21					12:30	113		93					
00:45	12	69	30	104			173	12:45	85	382	91	389				771
01:00	11		23					13:00	87		100					
01:15 01:30	9 9		18 18					13:15 13:30	112 106		94 102					
01:45	8	37	12	71			108	13:45	101	406	122	418				824
02:00	9		14					14:00	106		104					
02:15	5		11					14:15	101		130					
02:30	3		16					14:30	119		105					
02:45	6	23	16	57			80	14:45	144	470	125	464				934
03:00	3		5					15:00	176		150					
03:15	1		7					15:15	156		167					
03:30	5		8					15:30	182		147					
03:45	1	10	4	24			34	15:45	166	680	181	645				1325
04:00	2		9					16:00	158		172					
04:15	7 5		14					16:15	195		146					
04:30 04:45	5 7	21	10 9	42			63	16:30 16:45	173 206	732	134 129	581				1313
05:00	10	1	16	72			- 03	17:00	207	732	148	301				1313
05:00	18		32					17:00	247		205					
05:30	26		43					17:30	248		209					
05:45	34	88	57	148			236	17:45	207	909	207	769				1678
06:00	35		56					18:00	206		201					
06:15	61		72					18:15	168		168					
06:30	60		103					18:30	168		157					
06:45	133	289	128	359			648	18:45	144	686	155	681				1367
07:00	144		166					19:00	150		119					
07:15	160		162					19:15	110		120					
07:30 07:45	230 224	758	157 184	669			1427	19:30 19:45	100 80	440	101 136	476				916
08:00	213	730	162	007			1427	20:00	75	440	170	470				710
08:00	209		143					20:00	83		119					
08:30	176		136					20:30	72		141					
08:45	209	807	136	577			1384	20:45	72	302	86	516				818
09:00	162		141					21:00	68		64					
09:15	167		107					21:15	63		65					
09:30	154		129					21:30	62		64					
09:45	126	609	97	474			1083	21:45	42	235	58	251				486
10:00	98		125					22:00	59		35					
10:15	101		125					22:15	46 27		38					
10:30 10:45	87 75	361	100 102	452			813	22:30 22:45	37 30	172	44 31	148				320
	82	301		734			UIS			1/2		140				320
11:00 11:15	82 94		111 96					23:00 23:15	32 39		23 25					
11:30	88		100					23:30	20		25					
11:45	89	353	102	409			762	23:45	24	115	27	100				215
Total Vol.		3425		3386			6811			5529		5438				10967
rotal VOI.		J42J		3300			0011			NB		SB		ЕВ	WB	Total
								Daily To	tals ·	8,954		8,824		<u>0</u>	0	17,778
					A۱	1		any re		0,754		SIGE	PΝ			
Split %		50.3%)	49.7%			38.3%			50.4%		49.6%				61.7%
AM								PM								
Peak Hr. Volume		07:30 876		07:00 669			07:30 1522	Peak Hr. Volume		17:00 909		17:15 822				17:15 1730
P.H.F.		0.952		0.909			0.933	P.H.F.		0.916		0.983				0.946
7 - 9 Vol.		1565		1246			2811	4 - 6 Vol.		1641		1350				2991
Peak Hr.		07:30		07:00			07:30	Peak Hr.		17:00		17:00				17:00
Volume		876 0.052		669 n 909			1522	Volume		909 0.016		769 0.920				1678 0.918
P.H.F.		0.952		0.909			0.933	P.H.F.		0.916		0.920				0.918

							Prepar	ed by NDS/A	ATD							
Volumes	for:	Friday	y, Se	ptembe	17, 201	0	City:	Los Anç	geles	NB		Da SB	aily To	tals EB	WB	Total
Location:	Rive	erside	Dr	S/o Sta	dium Wa	ay	Project:	10-5351	I-002	11,052		9,177		0	0	20,229
AM Period	NB		SB	E	В	WB		PM Period	NB		SB		EB	WB		
00:00	22		15					12:00	104		110					
00:15	12		20					12:15	97		106					
00:30	14		26					12:30	86		101					
00:45	10	58	20	81			139	12:45	110	397	98	415				812
01:00	15		14					13:00	104		121					
01:15 01:30	12 15		17 11					13:15 13:30	113 114		102 96					
01:45	7	49	19	61			110	13:45	117	448	97	416				864
02:00	11		12					14:00	112		126					
02:15	5		8					14:15	130		133					
02:30	5		14					14:30	135		160					
02:45	6	27	10	44			71	14:45	152	529	162	581				1110
03:00	3		6					15:00	150		165					
03:15	6		7					15:15	186		164					
03:30	5		8					15:30	185		158					
03:45	3	17	8	29			46	15:45	224	745	156	643				1388
04:00	4		16					16:00	237		153					
04:15	3		9					16:15	247		178					
04:30 04:45	5 7	19	7 10	42			61	16:30 16:45	247 283	1014	186 200	717				1731
05:00	8	17	13	42			01	17:00	296	1014	201	717				1731
05:00	o 18		31					17:00	321		227					
05:30	28		37					17:30	276		205					
05:45	34	88	53	134			222	17:45	272	1165	216	849				2014
06:00	31		56					18:00	225		227					
06:15	53		79					18:15	213		237					
06:30	44		65					18:30	166		243					
06:45	89	217	118	318			535	18:45	152	756	244	951				1707
07:00	91		133					19:00	154		204					
07:15	149		146					19:15	109		168					
07:30	213	4.44	179	411			1057	19:30	115	404	138	420				1104
07:45	193	646	153 136	611			1257	19:45	108	486	110 81	620				1106
08:00 08:15	188 180		137					20:00 20:15	116 98		76					
08:30	176		115					20:30	113		61					
08:45	185	729	117	505			1234	20:45	81	408	73	291				699
09:00	161		90					21:00	113		70					
09:15	133		97					21:15	122		58					
09:30	110		101					21:30	136		53					
09:45	104	508	93	381			889	21:45	166	537	78	259				796
10:00	84		79					22:00	305		71					
10:15	79		99					22:15	286		66					
10:30	75	040	109	004				22:30	185	1070	68	0.40				4044
10:45	75	313	94	381			694	22:45	302	1078	58	263				1341
11:00	81		103					23:00	254		63					
11:15 11:30	77 121		105 93					23:15 23:30	87 55		49 47					
11:45	101	380	91	392			772	23:45	42	438	34	193				631
Total Vol.		3051		2979			6030			8001		6198		ED.	WD	14199
								Daily To	tale	NB		SB		<u>ЕВ</u> 0	WB	Total 20,229
					AM			Daily 10	tais :	11,052		9,177	D	M	0	20,229
Split %		50.6%)	49.4%	AIVI		29.8%			56.3%		43.7%				70.2%
AM								PM								
Peak Hr.		07:30		07:15			07:30	Peak Hr.		16:45		18:00				17:00
Volume P.H.F.		774 0.908		614 0.858			1379 0.879	Volume P.H.F.		1176 0.916		951 0.974				2014 0.919
7 - 9 Vol.		1375		1116			2491	4 - 6 Vol.		2179		1566				3745
Peak Hr.		07:30		07:15			07:30	Peak Hr.		16:45		17:00				17:00
Volume		774		614			1379	Volume		1176		849				2014
P.H.F.		0.908		0.858			0.879	P.H.F.		0.916		0.935				0.919

					Prepar	ed by NDS/ATD							
Volumes for: Thursday	, Septembe	er 16,	2010)	City:	Los Angeles	NB		Daily SB	Totals EB		WB	Total
Location: Riverside Dr	N/o Elmg	rove	St		Project	: 10-5351-003	0		0	8,053		7,175	15,228
AM Period NB SE	B EB		WB			PM Period NB		SB	EB		WB		
00:00	21		33			12:00			99		78		
00:15	18		21			12:15			78		72		
00:30	21		28			12:30			98		67		
00:45	14	74	15	97	171	12:45			92	367	74	291	658
01:00	3		16			13:00			95		63		
01:15	4		7			13:15			90		71		
01:30	5		7			13:30			113		77		
01:45	10	22	8	38	60	13:45			82	380	74	285	665
	7		4	- 00					105	000	72	200	000
02:00 02:15	9		2			14:00 14:15			94		104		
02:30	5		4			14:15			116		75		
02:30	6	27	2	12	39	14:45			124	439	104	355	794
		21		12	37					437		333	174
03:00	3		0			15:00			171		125		
03:15	1		5			15:15			123		154		
03:30	8	40	5		0.0	15:30			150		168	, , ,	1000
03:45	7	19	1	11	30	15:45			133	577	199	646	1223
04:00	7		3			16:00			137		171		
04:15	10		4			16:15			143		130		
04:30	18		2			16:30			114		119		
04:45	10	45	4	13	58	16:45			111	505	123	543	1048
05:00	14		5			17:00			134		187		
05:15	27		9			17:15			119		228		
05:30	31		12			17:30			151		199		
05:45	28	100	32	58	158	17:45			122	526	217	831	1357
06:00	51		37			18:00			93		218		
06:15	51		43			18:15			96		175		
06:30	80		73			18:30			112		151		
06:45	131	313	79	232	545	18:45			75	376	152	696	1072
07:00	167		79			19:00			92		112		
07:15	202		84			19:15			78		99		
07:30	272		101			19:30			76		75		
07:45	252	893	106	370	1263	19:45			68	314	111	397	711
08:00	252		117			20:00			83		173		
08:15	238		112			20:15			51		116		
08:30	189		100			20:30			54		158		
08:45	250	929	96	425	1354	20:45			59	247	64	511	758
		,,,		120	1001					217		011	700
09:00	197		133			21:00			61		55		
09:15	187		79			21:15			47		36		
09:30	157	400	89	202	1000	21:30			39	102	43	170	245
09:45	157	698	91	392	1090	21:45			46	193	38	172	365
10:00	122		73			22:00			52		18		
10:15	98		80			22:15			40		29		
10:30	92	222	82	207	/07	22:30			30	150	36	10.	057
10:45	78	390	72	307	697	22:45			31	153	21	104	257
11:00	94		88			23:00			24		29		
11:15	87		73			23:15			34		21		
11:30	98		65			23:30			21		23		
11:45	90	369	77	303	672	23:45			18	97	13	86	183
Total Vol.		3879		2258	6137					4174		4917	9091
							NB		SB	EB		WB	Total
						Daily Totals :	0		0	8,053		7,175	15,228
		AM				Daily Totals.	U		- U	PM		7,175	15,220
Split %				36.8%	40.294					45.9%		5/L10/	50 79/
AM		63.2%)	30.8%	40.3%	PM				43.9%		54.1%	59.7%
Peak Hr.		07:30)	08:15	07:30	Peak Hr.				15:00		17:15	17:00
Volume		1014		441	1450	Volume				577		862	1357
P.H.F.		0.932		0.829	0.972	P.H.F.				0.844		0.945	0.969
7 - 9 Vol.		1822		795	2617	4 - 6 Vol.				1031		1374	2405
Peak Hr.		07:30		07:30	07:30	Peak Hr.				17:00		17:00	17:00
Volume		1014		436	1450	Volume				526		831	1357
BUE													

P.H.F.

0.932

0.932

0.972

P.H.F.

0.871

0.911

					Prepare	ed by NDS/ATD					
Volumes for: Friday	y, September 1	7, 20	10		City:	Los Angeles	NB	Daily SB	/ Totals EB	WB	Total
Location: Riverside	Dr N/o Elmg	rove S	St		Project:	10-5351-003	0	0	8,940	6,893	15,833
AM Period NB	SB EB		WB			PM Period NB	SB	EE	3	WB	
00:00	21		13			12:00		110)	80	
00:15	7		13			12:15		91		70	
00:30	9		15			12:30		84		72	
00:45	20	57	11	52	109	12:45		90	375	76 298	673
01:00	16		4			13:00		118	3	84	
01:15	11		9			13:15		121		76	
01:30	11		6			13:30		109)	81	
01:45	7	45	7	26	71	13:45		99	447	85 326	773
02:00	5		8			14:00		109)	101	
02:15	4		4			14:15		109		108	
02:30	5		2			14:30		143		119	
02:45	3	17	1	15	32	14:45		136	5 497	158 486	983
03:00	6		5			15:00		146	<u>'</u>	170	
03:15	5		3			15:15		140		147	
03:30	11		2			15:30		141		149	
03:45	3	25	4	14	39	15:45		157		152 618	1202
04:00	7		6			16:00		185		180	
04:00	5		3			16:15		171		197	
04:30	13		4			16:30		195		192	
04:45	16	41	4	17	58	16:45		210		210 779	1540
05:00	15		4			17:00		219		206	
05:15	22		13			17:00		214		229	
05:30	26		10			17:13		199		218	
05:45	18	81	24	51	132	17:45		221		234 887	1740
	43	01	27		132			165		199	1740
06:00 06:15	43		32			18:00 18:15		171		217	
06:30	67		41			18:30		121		189	
06:45	97	251	62	162	413	18:45		138		152 757	1352
		231		102	413						1332
07:00	112 152		72 77			19:00		130 88		127	
07:15 07:30	234		90			19:15 19:30		100		84 69	
	234	728	109	240	1074			91			750
07:45		120		348	1076	19:45					758
08:00	219		80			20:00		91		53	
08:15	215		93			20:15		81		49	
08:30	200	044	82	220	1100	20:30		82		44	400
08:45	210	844	84	339	1183	20:45		59		34 180	493
09:00	179		55			21:00		50		41	
09:15	166		63			21:15		55		40	
09:30	120		73	0.40	0.40	21:30		40		39	250
09:45	136	601	51	242	843	21:45		49		45 165	359
10:00	117		69			22:00		66		38	
10:15	92		73			22:15		69		40	
10:30	92		72			22:30		63		39	
10:45	95	396	61	275	671	22:45		52	250	31 148	398
11:00	98		60			23:00		54		32	
11:15	98		62			23:15		35		18	
11:30	108		80			23:30		45		32	
11:45	110	414	53	255	669	23:45		28	162	22 104	266
Total Vol.		3500		1796	5296				5440	5097	10537
							NB	SB	EB	WB	Total
						Daily Totals :	0	0	8,940	6,893	
		AM				Daily Totals .		0	PM	0,073	13,033
Split %		66.1%		33.9%	33.4%				51.6%	48.4%	66.6%
AM		00.170		55.770	33.478	PM			31.070	70.470	55.576
Peak Hr.		07:30		07:30	07:30	Peak Hr.			17:00	17:00	17:00
Volume		898		372	1270	Volume			853	887	1740
P.H.F.		0.959		0.853	0.937	P.H.F.			0.965	0.948	0.956
7 - 9 Vol.		1572		687	2259	4 - 6 Vol.			1614	1666	3280
Peak Hr.		07:30		07:30	07:30	Peak Hr.			17:00	17:00	17:00
Volume		898		372	1270	Volume			853	887	1740
P.H.F.		0.959		0.853	0.937	P.H.F.			0.965	0.948	0.956

						Prepare	ed by NDS/ATD							
Volumes	for: Thursday,	, Septembe	er 16,	2010)	City:	Los Angeles	NB		Daily SB	/ Totals EB		WB	Total
Location:	Riverside Dr Ramps	between (Oros !	St &	1-5 NB	Project:	10-5351-004	0		0	6,395		7,484	13,879
AM Period		EB		WB			PM Period NB		SB	EB	3	WB		
00:00		16		36			12:00			81		76		
00:15		9		23			12:15			84		74		
00:30		16		33			12:30			74		72		
00:45		6	47	17	109	156	12:45			85	324	82	304	628
01:00		5		20			13:00			91		71		
01:15		7		7			13:15			94		84		
01:30		4		9			13:30			109)	84		
01:45		8	24	8	44	68	13:45			87	381	78	317	698
02:00		4		4			14:00			94		79		
02:15		5		3			14:15			115		97		
02:30		6		6			14:30			97		75		
02:45		8	23	2	15	38	14:45			105		106	357	768
03:00		4		1			15:00			120		140		
03:15		2		3			15:15			106		172		
03:30		1		6			15:30			125		169		
03:45		6	13	1	11	24	15:45			113		206	687	1151
04:00		4		3			16:00		-	98		174		
04:00		6		4			16:15			110		127		
04:13		12		1			16:30			103		130		
04:45		10	32	3	11	43	16:45			116		126	557	984
		15	- 02	8			17:00			122		193	- 007	701
05:00 05:15		16		10			17:00			127		230		
05:30		28		12			17:30			131		206		
05:45		30	89	33	63	152	17:45			124		219	848	1352
			07			102							040	1332
06:00		51		39			18:00			108		226		
06:15 06:30		48 52		41 69			18:15 18:30			113 101		177 168		
06:45		78	229	79	228	457	18:45			88		156	727	1137
			227		220	437							121	1137
07:00		94		76 83			19:00			78		122		
07:15 07:30		114 136		63 109			19:15			84 79		113 92		
		115	450		272	021	19:30					126	452	740
07:45			459	104	372	831	19:45			66			453	760
08:00		109		120			20:00			70		175		
08:15		127		116			20:15			50		112		
08:30		103	450	98	424	002	20:30			49		165	F10	74/
08:45		120	459	100	434	893	20:45			58		67	519	746
09:00		113		132			21:00			56		55		
09:15		126		89			21:15			58		42		
09:30		114	4/0	90	407	0/0	21:30			44		46	100	200
09:45		109	462	96	407	869	21:45			48		40	183	389
10:00		106		78			22:00			38		27		
10:15		95		88			22:15			34		31		
10:30		89	0/-	83	00-		22:30			32		30	440	0.46
10:45		78	368	78	327	695	22:45			26		24	112	242
11:00		81		97			23:00			24		26		
11:15		74		71			23:15			26		26		
11:30		70	04-	67			23:30			16		15	05	47-
11:45		88	313	79	314	627	23:45			20	86	18	85	171
Total Vol.			2518		2335	4853					3877		5149	9026
								NB		SB	EB		WB	Total
							Daily Totals :	0		0	6,395		7,484	13,879
			AM								PM			
Split %			51.9%)	48.1%	35.0%					43.0%		57.0%	65.0%
AM			2,70		.3.775	33.073	PM				.0.070		5.1070	33.370
Peak Hr.			07:30		07:30	07:30	Peak Hr.				17:00		17:15	17:15
Volume			487		449	936	Volume				504		881	1371
P.H.F.			0.895		0.935	0.955	P.H.F.				0.962		0.958	0.960
7 - 9 Vol.			918		806	1724	4 - 6 Vol.				931		1405	2336
			07:30		07:30	07:30	Peak Hr.				17:00		17:00	17:00
Peak Hr.					440								0.40	4050
Peak Hr. Volume P.H.F.			487 0.895		449 0.935	936 0.955	Volume P.H.F.				504 0.962		848 0.922	1352 0.947

					Prepar	ed by NDS/ATD							
Volumes for: Frida					City:	Los Angeles	NB	Da SB	ily 1	Fotals EB		WB	Total
Location: Riverside Ramps	e Dr between	Oros S	St &	I-5 NB	Project:	10-5351-004	0	0		6,663		7,117	13,780
AM Period NB	SB EB		WB			PM Period NB		SB	EB		WB		
00:00	14		14			12:00			68		79		
00:15	14		13			12:15			99		76		
00:30	7		17			12:30			79		68		
00:45	4	39	16	60	99	12:45			94	340	78	301	641
01:00	10		7			13:00			94		78		
01:15	10		6			13:15			105		87		
01:30	8		7			13:30			108		87		
01:45	2	30	10	30	60	13:45			82	389	87	339	728
02:00	7		8			14:00			105		102		
02:15	8		4			14:15			100		111		
02:30	1		4			14:30			117		118		
02:45	3	19	0	16	35	14:45			117	439	160	491	930
03:00	5		4			15:00			94		165		
03:15	6		3			15:15			100		155		
03:30	1		2			15:30			133		155		
03:45	2	14	7	16	30	15:45			127	454	154	629	1083
04:00	2		4			16:00			97		189	027	1000
04:00	8		4			16:15			97 109		197		
04:15	o 11		3			16:30			117		197		
04:45	5	26	3	14	40	16:45			114	437	214	798	1235
		20			70					437		770	1233
05:00	7		5			17:00			133 129		228		
05:15	21 34		13 14			17:15			129 116		219 227		
05:30 05:45	35	97	27	59	156	17:30			113	491	240	914	1405
		91		39	156	17:45				491		914	1400
06:00	42		25			18:00			119		218		
06:15	59		31			18:15			120		213		
06:30	64	255	40	155	410	18:30			97	400	192	770	1001
06:45	90	255	59	155	410	18:45			87	423	155	778	1201
07:00	105		67			19:00			99		129		
07:15	122		74			19:15			89		81		
07:30	122	400	91	227	010	19:30			89	240	67	251	700
07:45	133	482	105	337	819	19:45			72	349	74	351	700
08:00	117		87			20:00			66		55		
08:15	119		98			20:15			49		42		
08:30	108	475	87	0.40	005	20:30			50	04.4	51	405	400
08:45	131	475	88	360	835	20:45			49	214	47	195	409
09:00	104		68			21:00			53		41		
09:15	137		65			21:15			54		40		
09:30	152		70			21:30			62		43		
09:45	128	521	62	265	786	21:45			59	228	53	177	405
10:00	114		70			22:00			47		38		
10:15	108		86			22:15			36		49		
10:30	108		76			22:30			18		37		
10:45	92	422	62	294	716	22:45			22	123	37	161	284
11:00	97		68			23:00			23		28		
11:15	74		69			23:15			17		18		
11:30	61		87			23:30			22		32		
11:45	85	317	51	275	592	23:45			17	79	24	102	181
Total Vol.		2697		1881	4578					3966		5236	9202
Total Toll		2077		1001			NB	SB		EB		WB	Total
						Daily Totals :	0	0		6,663			
		AM				Daily Totals:	U			6,663 PM		7,117	13,780
Split %		58.9%		41 1%	33.2%					43.1%		56.9%	66.8%
AM		50.9%	,	41.170	JJ.Z /0	PM				43.170		30.7/0	00.6 /6
Peak Hr.		09:15		07:30	07:30	Peak Hr.				16:30		17:00	17:00
Volume		531		381	872	Volume				493		914	1405
P.H.F.		0.873		0.907	0.916	P.H.F.				0.927		0.952	0.973
7 - 9 Vol.		957		697	1654	4 - 6 Vol.				928		1712	2640
Peak Hr.		07:15		07:30	07:30	Peak Hr.				16:30		17:00	17:00
Volume		494		381	872	Volume				493		914	1405
P.H.F.		0.929		0.907	0.916	P.H.F.				0.927		0.952	0.973

							Prepare	d by NDS/	ATD	1						
Volumes	for: ⁻	Thurs	day,	Septe	mber 1	16, 2010	City:	Los Ang	geles	NB		Dai SB	ly Tota EB	s	WB	Total
Location:	Stac	dium \	Way	NE/	o Acade	emy Dr	Project:	10-535	1-005	8,032		5,554	0		0	13,586
AM Period	NB		SB		EB	WB		PM Period	NB		SB		EB	WB		1
00:00	3		5					12:00	48		39					
00:15	3		3					12:15	61		49					
00:30	1		4					12:30	43		49					
00:45	4	11	2	14			25	12:45	65	217	35	172				389
01:00	5		3					13:00	50		44					
01:15	2		5					13:15	62		57					
01:30 01:45	2	11	1 2	11			22	13:30 13:45	50 37	199	65 58	224				423
02:00	0	- ' '	2				22	14:00	47	177	47	224				423
02:00	2		1					14:00	60		82					
02:30	2		1					14:30	54		82					
02:45	2	6	3	7			13	14:45	59	220	85	296				516
03:00	3		1					15:00	51		98					
03:15	1		1					15:15	53		83					
03:30	1		1					15:30	61		126					
03:45	4	9	0	3			12	15:45	78	243	129	436				679
04:00	1		1					16:00	62		154					
04:15	1		1					16:15	62		217					
04:30	6 7	15	1	2			10	16:30	63	254	211 254	024				1000
04:45		15	0	3			18	16:45	67	254		836				1090
05:00 05:15	10 24		5 3					17:00 17:15	89 80		266 323					
05:30	20		3 7					17:13	70		292					
05:45	31	85	3	18			103	17:45	65	304	290	1171				1475
06:00	56		2					18:00	70		279					
06:15	90		13					18:15	42		227					
06:30	185		11					18:30	36		193					
06:45	265	596	18	44			640	18:45	49	197	148	847				1044
07:00	310		37					19:00	44		164					
07:15	380		20					19:15	29		114					
07:30	427		31					19:30	39		77					
07:45	427	1544	43	131			1675	19:45	30	142	48	403				545
08:00	446		41					20:00	21		48					
08:15	427 463		18 24					20:15	23 34		44					
08:30 08:45	508	1844	46	129			1973	20:30 20:45	18	96	48 56	196				292
09:00	412	1011	30	127			1770	21:00	20	70	33	170				
09:15	351		27					21:15	19		35					
09:30	269		32					21:30	20		24					
09:45	219	1251	32	121			1372	21:45	16	75	16	108				183
10:00	178		26					22:00	12		6					
10:15	95		32					22:15	6		15					
10:30	90		29					22:30	5		14					
10:45	70	433	37	124			557	22:45	7	30	8	43				73
11:00	50		44					23:00	9		12					
11:15	65 EE		44					23:15	10		16					
11:30 11:45	55 52	222	36 48	172			394	23:30 23:45	7 2	28	11 6	45				73
	JZ		-10					۷۵.۹۵			U					
Total Vol.		6027		777			6804			2005		4777				6782
										NB		SB	EB		WB	Total
						N/I		Daily To	itals :	8,032		5,554	0		0	13,586
Split %		99 49/		11 /0/		M	50.1%			29.6%		70.4%	PM			49.9%
AM		88.6%		11.4%			30.176	PM		27.070		70.470				47.770
Peak Hr.		08:00		11:45			08:00	Peak Hr.		16:45		17:15				17:00
Volume		1844		185			1973	Volume		306		1184				1475
P.H.F. 7 - 9 Vol.		0.907		0.944			0.890	P.H.F.		0.860		0.916				0.915
7 - 9 VOI.		3388		260 07:15			3648 08:00	4 - 6 Vol. Peak Hr.		558 16:45		2007 17:00				2565 17:00
Peak Hr		08.00														
Peak Hr. Volume		08:00 1844		135			1973	Volume		306		1171				1475

							Prepare	ed by NDS/A	ATD	1						
Volumes	olumes for: Friday, Se		ptembe	r 17, 20	010	City:	ty: Los Angeles		NB		Da SB	aily T	otals EB	WB	Total	
Location:	: Sta	dium	Way	NE/o	Acaden	ny Dr	Project:	10-5351	I-005	10,581		8,429		0	0	19,010
AM Period	l NB		SB		EB	WB		PM Period	NB		SB		EB	\	ΝB	
00:00	1		3					12:00	68		38					
00:15	2		2					12:15	53		52					
00:30	4	0	5	10			21	12:30	46	222	53	207				420
00:45	2	9	2	12			21	12:45	65	232	64	207				439
01:00 01:15	3 1		3 2					13:00 13:15	62 92		60 51					
01:13	1		0					13:30	65		59					
01:45	4	9	2	7			16	13:45	52	271	60	230				501
02:00	4		6					14:00	60		66					
02:15	5		0					14:15	61		64					
02:30	0		2					14:30	52		89					
02:45	1	10	4	12			22	14:45	66	239	80	299				538
03:00	0		0					15:00	64		102					
03:15	0		0					15:15	65		124					
03:30	1 1	2	1 0	1			3	15:30	108 125	362	138 149	513				875
03:45	0	2	3	- 1			<u> </u>	15:45		302		313				0/3
04:00 04:15	0		ა 1					16:00 16:15	111 127		170 208					
04:15	3		1					16:30	107		200					
04:45	3	6	3	8			14	16:45	169	514	222	800				1314
05:00	6		0					17:00	143		249					
05:15	9		6					17:15	187		290					
05:30	12		6					17:30	214		238					
05:45	15	42	1	13			55	17:45	243	787	204	981				1768
06:00	33		2					18:00	334		169					
06:15	62		7					18:15	423		168					
06:30 06:45	103 189	387	22 15	46			433	18:30 18:45	483 511	1751	131 93	561				2312
	245	307	24	40			433		426	1731	108	301				2312
07:00 07:15	331		20					19:00 19:15	250		88					
07:13	368		21					19:30	202		76					
07:45	394	1338	34	99			1437	19:45	112	990	72	344				1334
08:00	383		37					20:00	97		44					
08:15	392		42					20:15	43		46					
08:30	428		23					20:30	26		59					
08:45	374	1577	21	123			1700	20:45	19	185	59	208				393
09:00	341		29					21:00	23		128					
09:15	325		32					21:15	23		152					
09:30 09:45	212 187	1065	22 37	120			1185	21:30 21:45	30 19	95	248 284	812				907
10:00	104	1003	35	120			1103	22:00	24	75	591	012				707
10:00	74		28					22:15	27		568					
10:30	66		28					22:30	27		303					
10:45	51	295	43	134			429	22:45	15	93	756	2218				2311
11:00	67		48					23:00	13		339					
11:15	77		36					23:15	12		95					
11:30	71		61					23:30	10		31					
11:45	64	279	35	180			459	23:45	8	43	36	501				544
Total Vol.		5019		755			5774			5562		7674				13236
										NB		SB		EB	WB	
						_		Daily To	tals :	10,581		8,429		0	0	19,010
Split %		94.00	/	12 10/	A۱	//	30.4%			42.0%		58.0%		PM		69.6%
AM		86.99	U	13.1%			30.4 /0	PM		42.070		30.070				07.070
Peak Hr.		07:45		10:45			07:45	Peak Hr.		18:15		22:00				18:15
Volume P.H.F.		1597 0.933		188			1733 0.961	Volume P.H.F.		1843 0.902		2218 0.733				2343 0.954
7 - 9 Vol.		2915		0.770 222			3137	4 - 6 Vol.		1301		1781				3082
Peak Hr.		07:45		07:45			07:45	Peak Hr.		17:00		16:45				17:00
Volume		1597		136			1733	Volume		787		999				1768
рыс		(1 ())		0.010												

0.961 P.H.F.

0.810

0.861

0.927

P.H.F.

0.933

						Prepar	ea by NDS/ATD							
Volumes for: Thu	ırsday, Sept	embe	er 16,	2010		City:	Los Angeles	NB		Daily SB	Totals EB		WB	Total
Location: Acader	ny Dr E/o S	Stadiu	ım W	ay cu	rve	Project	: 10-5351-006	0		0	1,094		2,201	3,295
AM Period NB	SB	EB		WB			PM Period NB		SB	EB		WB		
00:00		2		0			12:00			16		26		
00:15		0		1			12:15			16		23		
00:30		2		1			12:30			15		18		
00:45		0	4	2	4	8	12:45			9	56	35	102	158
01:00		0		0			13:00			11		26		
01:15		3		0			13:15			14		29		
01:30		0		0			13:30			10		15		
01:45		0	3	1	1	4	13:45			10	45	20	90	135
02:00		0		0			14:00			16		25		
02:15		0		1			14:15			24		18		
02:30		0		1			14:30			37		21		
02:45		1	1	1	3	4	14:45			31	108	20	84	192
03:00		2		2			15:00			29		11		
03:15		0		0			15:15			11		18		
03:30		0		1			15:30			18		18		
03:45		0	2	3	6	8	15:45			32	90	28	75	165
04:00		0		0			16:00			24		27		
04:15		0		4			16:15			20		31		
04:30		0 0		2	0	0	16:30			22	00	27	447	200
04:45				3	9	9	16:45			17	83	32	117	200
05:00		1		9			17:00			16		29		
05:15		1		11			17:15			20		20		
05:30		3 2	7	10 15	45	E2	17:30			18	77	35 36	120	197
05:45					45	52	17:45			23	77		120	197
06:00		5		11			18:00			22		35		
06:15		2 4		12 27			18:15			10		15 23		
06:30 06:45		2	13	46	96	109	18:30 18:45			10 14	56	23 12	85	141
			13		70	107					30		03	141
07:00 07:15		7 6		40 64			19:00 19:15			14 23		15 12		
07:30		15		82			19:30			11		14		
07:45		19	47	117	303	350	19:45			16	64	16	57	121
08:00		18	.,,	98	000	000	20:00			9	01	8	- 07	121
08:15		19		97			20:15			15		6		
08:30		32		136			20:30			10		4		
08:45		24	93	139	470	563	20:45			25	59	12	30	89
09:00		20		118			21:00			22		6		
09:15		14		70			21:15			24		12		
09:30		9		38			21:30			16		6		
09:45		11	54	38	264	318	21:45			11	73	8	32	105
10:00		11		27			22:00			10		4		
10:15		18		22			22:15			7		1		
10:30		14		29			22:30			5		2		
10:45		16	59	26	104	163	22:45			9	31	1	8	39
11:00		11		15			23:00			8		5		_
11:15		11		23			23:15			7		3		
11:30		13		22			23:30			4		3		
11:45		13	48	24	84	132	23:45			2	21	1	12	33
Total Vol.			331		1389	1720					763		812	1575
								NB		SB	EB		WB	Total
							Daily Totals :	0		0	1,094		2,201	3,295
			AM								PM			- , <u>-</u> , -
Split %			19.2%		80.8%	52.2%					48.4%		51.6%	47.8%
AM							PM							
Peak Hr.			08:15		08:15	08:15	Peak Hr.				14:15		17:15	15:45
Volume			95		490	585	Volume				121		126	211
P.H.F. 7 - 9 Vol.			0.742		0.881 773	0.871 913	P.H.F. 4 - 6 Vol.				0.818 160		0.875 237	0.879 397
Peak Hr.			08:00		08:00	08:00	Peak Hr.				16:00		17:00	16:00
Volume			93		470	563	Volume				83		120	200
5.11.5														

P.H.F.

0.727

0.845

0.838

P.H.F.

0.865

0.833

Volumes for: Frida	ıy, September 1	7, 20°	10		City:	Los Angeles	NB		Daily SB	Totals EB		WB	Total
Location: Academy	y Dr E/o Stadi	um Wa	ау сι	ırve	Project:	10-5351-006	0		0	5,247		4,558	9,805
AM Period NB	SB EB		WB			PM Period NB		SB	EB		WB		
00:00	0		1			12:00			27		23		
00:15	1		0			12:15			25		17		
00:30	1		1			12:30			23		28		
00:45	1	3	1	3	6	12:45			14	89	23	91	180
01:00	2		3			13:00			24		16		
01:15	0		0			13:15			18		26		
01:30	4	,	1	-	4.4	13:30			12	77	25	00	1/0
01:45	0	6	1	5	11	13:45			23	77	25	92	169
02:00	1		1			14:00			23		16		
02:15	1 2		1 1			14:15			21 21		25 34		
02:30 02:45	0	4	0	3	7	14:30 14:45			27	92	34 28	103	195
	1	- 7	0	<u> </u>					28	72	22	103	173
03:00 03:15	0		0			15:00 15:15			34		38		
03:30	1		1			15:30			25		34		
03:45	1	3	0	1	4	15:45			33	120	31	125	245
04:00	0	-	0			16:00			39	<u> </u>	40		
04:00	1		0			16:15			51		31		
04:30	0		0			16:30			70		21		
04:45	3	4	0		4	16:45			72	232	35	127	359
05:00	10		0			17:00			102		34		
05:15	9		2			17:15			136		42		
05:30	7		4			17:30			158		40		
05:45	10	36	5	11	47	17:45			231	627	40	156	783
06:00	19		10			18:00			258		50		
06:15	24		8			18:15			302		58		
06:30	31		5			18:30			318		71		
06:45	49	123	6	29	152	18:45			302	1180	70	249	1429
07:00	50		14			19:00			245		74		
07:15	59		8			19:15			212		54		
07:30	81	007	14		244	19:30			94		32	404	700
07:45	97	287	21	57	344	19:45			51	602	31	191	793
08:00	79		23			20:00			37		41		
08:15	78		20			20:15			28		86		
08:30 08:45	98 75	330	27 17	87	417	20:30 20:45			21 21	107	158 219	504	611
	69	330		07	417				97	107	392	304	011
09:00 09:15	61		21 23			21:00 21:15			199		535		
09:30	55		26			21:30			213		515		
09:45	46	231	28	98	329	21:45			251	760	636	2078	2838
10:00	47		29			22:00			29		268		
10:15	37		24			22:15			4		42		
10:30	64		22			22:30			6		15		
10:45	38	186	15	90	276	22:45			7	46	6	331	377
11:00	27		14			23:00			3		10		
11:15	24		34			23:15			3		6		
11:30	23		31			23:30			2		4		
11:45	19	93	27	106	199	23:45			1	9	1	21	30
Total Vol.		1306		490	1796					3941		4068	8009
							NB		SB	EB		WB	Total
						Daily Totals :	0		0	5,247		4,558	9,805
		AM								PM			7,550
Split %		72.7%		27.3%	18.3%					49.2%		50.8%	81.7%
AM						PM							
Peak Hr.		07:45		11:15	07:45	Peak Hr.				18:00		21:00	21:00
Volume P.H.F.		352 0.898		115 0.846	443 0.886	Volume P.H.F.				1180 0.928		2078 0.817	2838 0.800
7 - 9 Vol.		617		144	761	4 - 6 Vol.				859		283	1142
Peak Hr.		07:45		07:45	07:45	Peak Hr.				17:00		17:00	17:00
		352		91	443	Volume				627		156	783
Volume P.H.F.		0.898				Volumo				0.679		.00	0.722

						Frepare	ed by NDS/A	עוו	Ш						
Volumes					per 16, 2010	City:	NB		Dai SB	ly Totals EB	;	WB	Total		
Location:			Dr	NE/o sta	adium northwest	Project:	10-5351	-007	2,073		1,424	0		0	3,497
AM Period	gau	е	SB	E	B WB		PM Period	NB	_/010	SB		B	WB		0,111
00:00	0		3		D VVD		12:00	23		21		D	VVD		
00:00	2		0				12:15	19		17					
00:30	1		2				12:30	18		16					
00:45	2	5	0	5		10	12:45	34	94	11	65				159
01:00	0		1				13:00	21		17					
01:15	0		3				13:15	28		23					
01:30	0		0				13:30	16		23					
01:45	0		0	4		4	13:45	19	84	21	84				168
02:00	0		0				14:00	23		24					
02:15	0		0				14:15	21		32					
02:30	1	2	0	1		2	14:30	17 25	0/	49	1.41				227
02:45	1	2	1	1		3	14:45	25	86	36	141				227
03:00	1		0				15:00	15		34					
03:15	0 1		0				15:15 15:30	16 14		14 23					
03:30 03:45	2	4	0			4	15:30	24	69	23 29	100				169
	1	4	0			4		26	07	38	100				107
04:00 04:15	4		0				16:00 16:15	34		23					
04:15	3		1				16:30	24		25					
04:45	4	12	0	1		13	16:45	30	114	22	108				222
05:00	9		2				17:00	31		29					
05:15	11		1				17:15	21		32					
05:30	7		3				17:30	37		31					
05:45	17	44	6	12		56	17:45	35	124	28	120				244
06:00	12		4				18:00	33		29					
06:15	14		6				18:15	17		17					
06:30	27		7				18:30	22		20					
06:45	44	97	5	22		119	18:45	11	83	23	89				172
07:00	44		16				19:00	14		20					
07:15	63		9				19:15	11		24					
07:30	80		14				19:30	12		19					
07:45	108	295	27	66		361	19:45	14	51	15	78				129
08:00	89		20				20:00	9		11					
08:15	93		20				20:15	6		19					
08:30	114	200	39	100		400	20:30	5	27	14	40				OF
08:45	94	390	21	100		490	20:45	7	27	24	68				95
09:00 09:15	100		26 18				21:00 21:15	6		32					
09:15	71 38		13				21:15	10 5		26 14					
09:45	39	248	17	74		322	21:45	6	27	10	82				109
10:00	26		18				22:00	4		7					
10:00	18		24				22:15	2		9					
10:30	28		18				22:30	2		5					
10:45	42	114	19	79		193	22:45	0	8	8	29				37
11:00	13		19				23:00	5		9		-			
11:15	23		20				23:15	2		3					
11:30	21		19				23:30	3		4					
11:45	27	84	20	78		162	23:45	1	11	2	18				29
Total Vol.		1295		442		1737			778		982				1760
									NB		SB	EB		WB	Total
							Daily To	tals :	2,073		1,424	0		0	3,497
					AM							PM			
Split %		74.6%		25.4%		49.7%			44.2%		55.8%				50.3%
AM							PM								
Peak Hr.		07:45		07:45		07:45 510	Peak Hr.		17:15 126		14:15 151				17:15
Volume P.H.F.		404 0.886		106 0.679		510 0.833	Volume P.H.F.		126 0.851		151 0.770				246 0.904
7 - 9 Vol.		685		166		851	4 - 6 Vol.		238		228				466
Peak Hr.		07:45		07:45		07:45	Peak Hr.		17:00		17:00				17:00
Volume		404		106		510	Volume		124		120				244
P.H.F.		0.886		0.679		0.833	P.H.F.		0.838		0.938				0.897

							Prepare	ed by NDS/A	ATD							
Volumes	for:	Friday,	Se	ptembe	r 17, 2	010	City: Los Angeles			NB		Da SB	ily Tot E	als B	WB	Total
Location:	Aca gate		r	NE/o st	adium	northwest	Project:	10-5351	1-007	2,135		1,641		0	0	3,776
AM Period			SB	[EB	WB		PM Period	NB		SB		EB	WB		
00:00	0		0					12:00	18		22					
00:15	0		0					12:15	20		24					
00:30	0		1					12:30	15		21					
00:45	1	11	0	1			2	12:45	23	76	36	103				179
01:00	0		2					13:00	21		16					
01:15	2		1					13:15	36		13 27					
01:30 01:45	0 2	4	2	7			11	13:30 13:45	27 24	108	29	85				193
02:00	0	<u> </u>	0					14:00	22	100	13	- 00				170
02:00	0		0					14:00	18		28					
02:30	1		0					14:30	21		31					
02:45	0	1	0				1	14:45	26	87	21	93				180
03:00	0		1					15:00	22		33					
03:15	0		0					15:15	23		24					
03:30	1		0					15:30	24		17					
03:45	0	1	0	1			2	15:45	30	99	22	96				195
04:00	1		1					16:00	29		42					
04:15	1		1					16:15	24		27					
04:30	0	_	0					16:30	23		23					
04:45	3	5	1	3			8	16:45	56	132	33	125				257
05:00	0		0					17:00	47		29					
05:15	6		0					17:15	35		19					
05:30 05:45	5 9	20	2	2			22	17:30 17:45	38 57	177	23 24	95				272
06:00	10	20	1					18:00	44	177	34	73				212
06:00	9		3					18:00	44		34 20					
06:30	28		4					18:30	40		20					
06:45	39	86	7	15			101	18:45	54	180	26	100				280
07:00	30		4					19:00	34		23					
07:15	50		8					19:15	25		35					
07:30	65		10					19:30	30		26					
07:45	73	218	21	43			261	19:45	21	110	21	105				215
08:00	79		18					20:00	13		14					
08:15	58		26					20:15	8		16					
08:30	77		7					20:30	4		24					
08:45	73		12	63			350	20:45	1	26	7	61				87
09:00	53		10					21:00	13		11					
09:15	55		10					21:15	13		29					
09:30 09:45	45 37	190	8 21	49			239	21:30 21:45	18 17	61	44 40	124				185
				77			۷.37			UI	53	124				100
10:00 10:15	20 20		12 13					22:00 22:15	19 19		53 81					
10:13	16		12					22:30	16		46					
10:45	15		24	61			132	22:45	27	81	88	268				349
11:00	23		21					23:00	11		40					
11:15	27		14					23:15	9		6					
11:30	23		36					23:30	4		2					
11:45	15	88	14	85			173	23:45	2	26	8	56				82
Total Vol.		972		330			1302			1163		1311				2474
								D ''		NB		SB		В	WB	Total
					Al	M		Daily To	itals :	2,135		1,641	PN	0 /	0	3,776
Split %		74.7%		25.3%	Al	VI	34.5%			47.0%		53.0%	FIV			65.5%
AM								PM								
Peak Hr. Volume		07:45 287		11:30 96			07:45 359	Peak Hr. Volume		17:45 183		22:00 268				22:00 349
P.H.F.		0.908		96 0.667			0.925	P.H.F.		0.803		268 0.761				0.759
7 - 9 Vol.		505		106			611	4 - 6 Vol.		309		220				529
Peak Hr.		07:45		07:30			07:45	Peak Hr.		17:00		16:00				16:45
Volume		287		75			359 0.925	Volume P H F		177 0.776		125				280 0.787
P.H.F.		0.908		0.721			() 925	PHF		() /76		0 744				() 797

0.925

P.H.F.

0.776

0.744

0.787

P.H.F.

0.908