

FINAL ENVIRONMENTAL IMPACT REPORT

This document comprises the second and final part of the Environmental Impact Report (EIR) for this project. The Los Angeles Sports and Entertainment District Draft EIR, previously circulated for public review and comment, comprises the first part, and is available for review at the Department of City Planning, Environmental Review Section, 221 North Figueroa Street, Room 1500, Los Angeles, CA 90012.

Central City District Plan  
9th Council District

EIR No. 2000-3577  
STATE CLEARINGHOUSE No. 2000091046

**LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT**

**PROJECT:** The proposed Los Angeles Sports and Entertainment District (the "Project"), is a multi-use development, the conceptual plan of which includes: a major convention hotel with a capacity of 1,200 rooms; a second 600-room hotel; up to 1,115,000 gross square feet (GSF) of retail/entertainment/restaurant uses, including a 7,000-seat live theater, up to 870,000 GSF of residential uses (800 dwelling units); up to 300,000 GSF of office space, including medical offices and a sports medicine center; a health/sports club of up to 125,000 GSF; an open air-plaza to feature year-round venues; and, combined support parking of up to 5,305 spaces located throughout the Project site.

**REQUIRED CITY ACTIONS:** Specific Plan; Conditional Use Permits and Variances to allow office, medical offices, retail, wireless telecommunication facilities, parking, and other uses permitted by the zoning; Actions to approve a commercial corner, master liquor licenses, general plan amendment, community plan amendment, site plan review, shared parking, off-site parking, urban design, and any required findings or actions for development within the existing [Q]R5 zoning; Other discretionary actions which may include, without limitation, vesting tract maps, lot line adjustments, and other subdivision actions; revocable permits, street vacations and realignments, or other approvals for off-peak or temporary closure of 11th Street between Figueroa and Georgia Streets; Development Agreement or amendment thereto; Owner Participation Agreement or a Disposition and Development Agreement or amendment thereto; Reciprocal Easement Agreement or amendment thereto; and Other agreements or actions of the City in furtherance of the Project.

**APPLICANT:** L.A. Arena Company, LLC  
1100 South Flower Street, Suite 3100  
Los Angeles, CA 90015

**DATE:** March 2001

EIR No. 2000-3577

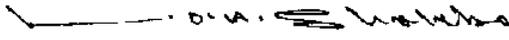
SCH No. 2000091046

Project Name Los Angeles Sports and Entertainment District

RECOMMENDATION FOR EIR CERTIFICATION

Pursuant to California Code of Regulations, Title 14, Section 15090, this EIR has been completed in compliance with the California Environmental Quality Act and current State and City Guidelines and based on the information available may be accepted and considered prior to making a final decision on the project. The decision-making body must certify that it has reviewed and considered the information contained in this Environmental Impact Report prior to making such decision.

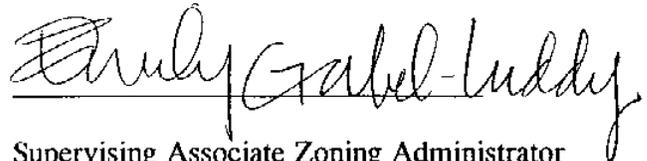
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## I. SUMMARY

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### A. INTRODUCTION

In accordance with Sections 15088, 15089, and 15132 of the State Guidelines for the Implementation of the California Environmental Quality Act (“CEQA Guidelines”), the City of Los Angeles Planning Department, as Lead Agency, has prepared the Final Environmental Impact Report (“Final EIR”) for the Los Angeles Sports and Entertainment District Project (“Project”).

This Final EIR comprises the second and final part of the Environmental Impact Report (EIR) for the Project. The Los Angeles Sports and Entertainment District Draft EIR, previously circulated for public review and comment, comprises the first part, and is available for review at the Department of City Planning, Environmental Review Section, 221 North Figueroa Street, Room 1500, Los Angeles, CA 90012.

This Final EIR consists of the following elements:

- Section I: A comprehensive summary of the Final EIR for the Project including a brief description of the Project; a summary of each of the environmental impacts analyzed; all recommended mitigation measures, and the alternatives evaluated.
- Section II: Corrections and Additions to the Draft EIR, including all Technical Appendices to the Draft EIR, in order to correct certain inaccuracies and to provide additional analysis where necessary.
- Section III: Mitigation Monitoring and Reporting Program
- Section IV: Responses to written comments received during the public review period. Also includes a summary matrix that lists the name and address of every person, organization, or public agency that commented on the Draft EIR and identifies in summary each of the topics addressed by such person, organization or public agency.

### B. PROPOSED PROJECT

This Final EIR examines the potential environmental impacts of constructing and operating the proposed Los Angeles Sports and Entertainment District (also referred to in this document as the

“Project”), a multi-use development, the conceptual plan of which includes: a major convention hotel with a capacity of 1,200 rooms; a second 600-room hotel; up to 1,115,000 gross square feet (GSF) of retail/entertainment/restaurant uses, including a 7,000-seat live theater; up to 870,000 GSF of residential uses (800 dwelling units); up to 300,000 GSF of office space, including medical offices and a sports medicine center; a health/sports club of up to 125,000 GSF; an open-air plaza to feature year-round venues; and, combined support parking of up to 5,305 spaces located throughout the Project site.<sup>1</sup>

The Project would be located in downtown Los Angeles, on a set of sites located adjacent to STAPLES Center and the Los Angeles Convention and Exhibition Center. Generally, the development areas that make up the site are located east and west of Figueroa Street, at Olympic Boulevard on the north and almost to Pico Boulevard on the south. The Project would create an entertainment district that complements STAPLES Center and the Los Angeles Convention and Exhibition Center by providing compatible and synergistic uses including convention hotel rooms, retail/entertainment/restaurant/office and residential uses. An urban design that emphasizes the street frontage and pedestrians would create strong pedestrian linkages to downtown and the surrounding community. Parking, vehicular and pedestrian circulation is comprehensively planned to distribute vehicles over multiple approaches to the parking facilities, including shared use parking facilities. Additional project design features would support safe, comfortable and convenient pedestrian flow throughout the Project site and encourage the use of public transit.

### C. AUTHORIZATION AND FOCUS

This EIR has been prepared at the direction and under the supervision of the City of Los Angeles Planning Department (Planning Department) in accordance with the California Environmental Quality Act (CEQA)<sup>2</sup> and the Guidelines for Implementation of CEQA (CEQA Guidelines)<sup>3</sup>, as amended. As discussed below, the Planning Department is the Lead Agency pursuant to CEQA.

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<sup>1</sup> *The Project includes a regulatory mechanism (i.e., equivalency program) that would provide flexibility in the proposed land uses that will be developed at the Project site in order to respond to the future needs of the southern California economy. The equivalency program defines a framework within which land uses can be exchanged for certain other land uses so long as no additional environmental impacts would occur. For example, there may be increases in the square footage of certain land uses (i.e., entertainment) in exchange for decreases in the square footage of other land uses (i.e., restaurant). However, at no time would the total of on-site development exceed the proposed four million square feet of development. Refer to Section II.C.d., Project Characteristics, of the Draft EIR for additional discussion regarding the proposed equivalency program. Also refer to Item II.a in Section II of this Final EIR for revisions to the equivalency program.*

<sup>2</sup> *Public Resources Code Section 21000 et seq.*

<sup>3</sup> *Administrative Code, Title 14, Chapter 3, Section 15000 et seq.*

The purpose of this EIR is to inform decision-makers, as well as the general public, of the potential environmental effects of the proposed Project. The EIR, by itself, does not determine whether the Project will be approved. In accordance with Section 15121 of the CEQA Guidelines, its purpose is to identify all potentially significant effects of the Project on the physical environment, to determine the extent to which those effects could be reduced or avoided, and to identify and evaluate feasible alternatives to the Project.

In accordance with Section 15130 of the CEQA Guidelines, the EIR includes an examination of the effects of cumulative development in the downtown Los Angeles area. Cumulative development is analyzed for the year 2008 which includes new development expected to be present when the Project build-out occurs. The EIR also evaluates the effects of five alternatives to the proposed Project (including the No Project Alternative, three on-site alternatives, and one off-site alternative) and identifies the Environmentally Superior Alternative, as required by Section 15126(d) of the CEQA Guidelines.

#### **D. LEAD AGENCY**

In accordance with Section 15367 of the CEQA Guidelines, the Lead Agency is defined as "the public agency which has the principal responsibility for carrying out or approving the project." The City of Los Angeles Planning Department is acting as Lead Agency and is responsible for certifying the EIR and adopting any mitigation measures needed to address any identified significant environmental impacts. The Community Redevelopment Agency (CRA) is a Responsible Agency under CEQA Guidelines Sections 15096 and 15381 and, as such, will certify that it has reviewed and considered the information in the EIR and made environmental findings as appropriate when decisions and/or approvals are made by the CRA with respect to the Project.

#### **E. NOTICE OF PREPARATION**

In compliance with CEQA Section 21080.4, a Notice of Preparation (NOP) was prepared by the Planning Department and was received by the State Clearinghouse, Office of Planning and Research, responsible agencies, and other interested parties on September 14, 2000. The 30-day response period for the NOP ended on October 14, 2000. The NOP identified specific areas where the proposed Project could have adverse environmental effects and indicated that an EIR would need to be prepared to document these effects

## **F. CIRCULATION OF DRAFT EIR**

The Draft EIR, dated January 2001, constitutes the first part of the EIR. The Draft EIR was comprised of the Draft EIR and the Technical Appendices (Volumes I to III). The Technical Appendices included the Notice of Preparation Comments and Responses, a Mitigation Monitoring and Reporting Program, and various technical studies, which support the analysis contained in the Draft EIR.

The Draft EIR and Technical Appendices were distributed to State, City, and other public agencies, as well community organizations, homeowners associations, and other interested parties. Copies of the Draft EIR were made available for review at the Central Library, Exposition Park Library, and Little Tokyo Library. The Draft EIR was also made available for review at the City of Los Angeles Department of City Planning (221 North Figueroa Street, Room 1500, Los Angeles). In addition, the Summary and some sections of the Draft EIR were provided in Spanish.

The Draft EIR was submitted to the State Clearinghouse, Office of Planning and Research, and circulated for public review on January 11, 2001. The 45-day public comment period required by CEQA Guidelines Sections 15087 and 15105 concluded on February 26, 2001. Although not required by the CEQA Guidelines, the Lead Agency accepted and considered all comments received after the closure of the comment period.

## **G. AREAS OF CONTROVERSY**

Potential areas of controversy and issues to be resolved by the Lead Agency include those areas where a significant unavoidable impact has been projected. For the Project, the areas of unavoidable significant impact include short-term noise and air quality impacts associated with construction activities, peak hour traffic impacts, regional air quality impacts primarily associated with an increase in average daily traffic volumes, visual quality, shade/shadow, light and glare, and parks. Issues raised during the NOP comment period generally regarded traffic and noise impacts as they may affect neighborhood quality.

## **H. ALTERNATIVES**

The EIR describes a range of reasonable alternatives to the project, and evaluates the environmental impacts associated with each alternative, as required by Section 15126.6 of the CEQA Guidelines. The analysis of alternatives focuses on the alternatives capable of reducing or eliminating the significant, unavoidable adverse impacts of the Project. Specifically, this EIR analyzes the following five alternatives: Alternative A, No Project; Alternative B, Reduced Density

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Alternative; Alternative C, Design Alternative; Alternative D, Land Use Alternative; Alternative E, Alternative Site. The five identified alternatives, as well as the identified environmentally superior alternative, are summarized below.

**Alternative A**, the No Project Alternative assumes that no project is approved and the existing 40,000 square foot warehouse/mechanical facility remains within the Project area. Thus, under this alternative, the physical conditions of the Project site would remain as they exist today. The No Project Alternative would have better or much better impacts compared to the Project with regard to land use (off-site uses), visual quality, light and glare, shade/shadow, drainage and surface water quality, air quality, traffic, pedestrian safety, noise, public services, utilities, geologic and seismic hazards, and historic resources. The Alternative would have greater impacts with regard to land use (land use policies), shade/shadow, visual quality, population, housing, and employment, and hazardous materials. The No Project Alternative would not achieve the Project's or the City's objectives.

**Alternative B**, the Reduced Density Alternative includes the types of uses as set forth with the proposed Project, but reduces the amount of development, which would occur at the Project site. On an overall basis, the amount of development is reduced by 30 percent, to a total of approximately 2.8 million square feet of development. The Reduced Density Alternative would have better impacts than the Project with regard to land use (off-site uses), visual quality, light and glare, shade/shadow, surface water quality, air quality, traffic, pedestrian safety, noise, public services, utilities, and geologic and seismic hazards. The Alternative would have worse impacts with regard to land use (land use policies) and employment. The Reduced Density Alternative would achieve the Project's and City's objectives, but to a reduced degree.

**Alternative C**, the Design Alternative, includes the same amount of development as the proposed Project; however changes to the design of the Project have been incorporated into this alternative to reflect a project which is oriented more towards Figueroa Street (i.e., convention hotel and central plaza), and includes reductions in building height and signage within current regulations in order to address the principal environmental effects of the Project from a physical design perspective. The Alternative Design would have a worse impact than the Project with regard to visual quality (visual access) and light and glare by orienting Project buildings more along a north-south axis, thus increasing the potential for reflective glare in morning and afternoon hours. The Alternative Design would have worse impacts with regard to pedestrian safety and noise. The Alternative Design would have equivalent impacts with regard to shade and shadow effects on surrounding sensitive land uses, except that it would increase the expected summer afternoon shading of the rear patio/pool of the Hotel Figueroa. This Alternative would have better impacts to visual quality (signage). The Alternative Design would achieve some, but not all of the Project's and the City's objectives.

**Alternative D**, the Land Use Alternative, calls for a substantial reorientation of the Project from one that seeks to create a sports and entertainment district to one that is predominately residential in character. Alternative D consists of 2,400 residential units, as well as support retail development (i.e., supermarket, dry cleaners, etc.) in addition to a 1,400-room convention hotel. The Land Use Alternative would have better impacts compared to the Project with regard to land use (off-site uses), light and glare, shade/shadow, noise, public services (fire and police), and utilities. The Alternative would have worse impacts with regard to land use (land use policies), pedestrian safety, and public services (parks and schools). The Alternative Land Use would achieve some, but not all, of the Project's and the City's objectives.

**Alternative E**, the Alternative Site Alternative, proposes to locate the Project at a different site as a means of understanding the environmental effects of the Project in a different geographical context. The alternative site selected for analysis is the Cornfields Site, also located in the City of Los Angeles, northeast of Chinatown. The Cornfields Alternative would result in better impacts compared to the Project with regard to shade/shadow, pedestrian safety, and noise (construction). The Alternative would have worse impacts with regard to land use, visual quality, light and glare, drainage, air quality (operational), traffic, noise (operational), utilities (infrastructure), and historic resources. This Alternative would require the extension of new drainage, sewer, and water infrastructure to serve a previously underserved area. The Cornfields Alternative would not achieve many of the Project's or the City's objectives.

**Environmentally Superior Alternative:** Of the Alternatives analyzed in the Final EIR, the No Project Alternative (Alternative A) is considered the overall environmentally superior alternative, as it would reduce nearly all of the significant impacts occurring under the Project (i.e., regional construction air emissions, regional operational air emissions, construction noise, and traffic) to less than significant levels. Thus, no significant impacts would occur under this Alternative. However, this Alternative would not meet any of the programmatic, physical, economic, or operational objectives established for the Project, would not include many of the beneficial effects associated with the proposed Project, nor would it fulfill the objectives of the City of Los Angeles' existing plans for the Project area. In accordance with the CEQA Guidelines requirement to identify an environmentally superior alternative other than the No Project Alternative, a comparative evaluation of the remaining alternatives indicates that the Reduced Density Alternative (Alternative B) would be environmentally superior. Although the Reduced Density Alternative would generally reduce the significant impacts occurring under the Project, it would not reduce such impacts to less than significant levels. Under the Reduced Density Alternative, other environmental impacts would be either generally reduced or substantially equivalent to those associated with the proposed Project and would remain less than significant. Additionally, the Reduced Density Alternative would achieve many, but not all, of the programmatic, physical, economic, and operational objectives established for the proposed Project.

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## I. SUMMARY OF ENVIRONMENTAL IMPACTS

### LAND USE

**Impacts:** This analysis discusses the Project's consistency with the provisions and requirements of the various policy plans and regulations which govern planning and development in the portion of downtown Los Angeles nearest to the Project. The relocation of portions of the existing surface parking for STAPLES Center may temporarily disrupt existing activities and scheduled events at STAPLES Center and the Convention Center during construction. These impacts would be reduced by the construction of a parking structure to serve existing STAPLES Center parking. The Project would also reserve a "holding area" for future Convention Center expansion. Therefore, the Project is compatible with the plans to accommodate the proposed Convention Center expansion. Overall, the Project would combine with existing adjacent land uses to create a well-designed, modern, efficient, and balanced urban environment; including a full range of day and nighttime activities and uses that are desired and encouraged in order to achieve the long term realization of development strategies for this area of downtown. Therefore, the Project would be compatible with the majority of surrounding land uses.

**Mitigation and Adverse Effects:** The Project would not result in any significant environmental impacts upon known land use plans or surrounding land uses, and therefore no mitigation measures are required.

### AESTHETICS (VISUAL QUALITIES)

**Impacts:** Construction activity typically involves disturbance of existing natural and man-made features and development of structures that are temporarily devoid of external treatments designed to promote a pleasant visual appearance. The proposed temporary covered walkway along 11<sup>th</sup> Street, along with other temporary construction barriers, could potentially serve as targets for graffiti and other unattractive visual features, if not properly monitored, and a significant visual impact at an important gateway to STAPLES Center and the Convention Center would result from project construction.

Unifying design elements would be employed for consistency among STAPLES Center, the Convention Center and the Project further defining the area as a special downtown sports and entertainment district. The height and bulk of the Project would be compatible with the height and bulk of buildings allowed under existing zoning and *CBD Redevelopment Plan* and *Downtown Strategic Plan* standards for proposed development. The Project would be consistent with planned development characteristics expected of the area and would provide pedestrian-oriented transitions between the Project and existing adjacent land uses. Design of the Project would not result in buildings that are visually incompatible with the Variety Arts Center. Therefore, the Project would

not introduce elements that would substantially detract from the existing visual character or primary visual resources of the area and would not remove or demolish elements that contribute positively to the visual character of an area. No significant impacts to visual resources would occur. The project would not remove a valued visual feature, or largely obstruct a valued existing view; no significant impact on views from these buildings is expected. Proposed development is consistent with applicable *General Plan Framework* policies regarding the Downtown Center associated visual amenities and pedestrian accommodations. The Project Design Guidelines would be consistent with recommendations for private and public signage standards expressed in the *South Park Development Strategies and Design Guidelines*.

**Mitigation Measures:** During construction the following mitigation measure would be implemented:

1. The Applicant shall ensure, through appropriate postings and daily visual inspections, that no unauthorized materials (such as graffiti or posters) would be posted on temporary construction barriers or temporary pedestrian walkways and that any such temporary barriers and walkways are maintained in a visually attractive manner throughout the construction period.
2. In the Project design, the Project Applicant shall substitute vegetated surfaces for hard surfaces, which shall include 15 percent of the at-grade plaza and courtyards and 5 percent of elevated surfaces. In addition, the Project streetscape plan shall provide for additional landscape areas. The Project Applicant shall explore elimination of blacktop and the use of new coatings and integral colorants for asphalt to achieve light colored surfaces, to the extent feasible for Project development.

Although no significant impacts have been identified for visual quality during operations, urban design standards, defined in the Project's Specific Plan Design Guidelines (See Section II.C., Project Characteristics), have been incorporated into the proposed Project to ensure an appropriate aesthetic appearance. Project development plans will include specific siting of structures and facilities, structural design, signage design and landscaping measures. In addition, implementation of the design guidelines in the Project's Specific Plan would ensure consistency with the *General Plan Framework*, *Downtown Strategic Plan*, *CBD Redevelopment Plan*, and the *South Park Development Strategies and Design Guidelines*.

**Adverse Effects:** The Project would obstruct views of STAPLES Center and the Convention Center from vantage points north of the Project site. Although the Project would be consistent with height and zoning requirements and with the overall large-scale development pattern of STAPLES Center and Convention Center area, the Project would result in a significant impact to visual access. Project signage would be consistent with the applicable plans and regulations, would complement STAPLES Center and Convention Center and would contribute to a sense of place

reflecting the unique identity of the area and the creation of a major public outdoor “gathering place.” However, as the Project would introduce substantial signage to the visual environment, impacts to visual quality due to signage are significant.

### **AESTHETICS (LIGHT AND GLARE)**

**Impacts:** Any Project construction activities involving nighttime activities would require lighting of work areas. This lighting would be necessarily focused downward or shielded, oriented toward Project property, and away from adjacent sensitive residential receptors. Furthermore, construction hours within the project areas would be restricted in accordance with municipal code requirements. Therefore, no significant lighting impacts are anticipated during project construction. Construction heavy equipment and building materials would not generate glare that would cause a hazard or clear visual nuisance. In addition, construction activity would be screened from view by temporary barriers. No significant glare impacts are anticipated during project construction.

The Project would substantially increase ambient light levels on the project site and in the vicinity. City permit review would insure that proposed lighting would not pose hazards to motorists. Nighttime illumination, particularly special-event related lighting, associated with the convention hotel, entertainment facilities and the Plaza could be visible from the neighboring motels, apartment buildings, and Holiday Inn and Figueroa Hotel, although this additional nighttime illumination would replace existing ambient nighttime illumination associated with existing parking lots. Project structures would also block some of the presently visible lighting associated with STAPLES Center and the Convention Center. In addition, Project lighting design dictates that Project lighting would be shielded to minimize lighting impacts upon adjacent sensitive uses and roadways. However, although Project illumination would be consistent with applicable regulations and guidelines, the increase in illumination from the proposed Project would result in a significant impact to adjacent sensitive receptors. The Project would not generate glare, caused by light reflected off expanses of undifferentiated expanses of glass or polished surfaces, that would cause a hazard or clear visual nuisance by serving as a distraction or interference to vision or concentration.

**Mitigation Measures:** Project development plans will include detailed specifications regarding light fixture types and locations, as well as glare-reducing or screening elements. In addition to the following mitigation measures, urban design standards will be incorporated into the proposed Project’s Specific Plan to ensure an appropriate Project illumination.

1. The Applicant shall prepare a Lighting Plan in coordination with the Department of City Planning to establish lighting standards and guidelines.
2. To the extent feasible and consistent with the functions and uses of the Project, the following mitigation measures shall be addressed in the design of the Project’s facilities:

- a. Pedestrian-level lighting shall be used adjacent to Olympic Boulevard and Figueroa, 11<sup>th</sup>, 12<sup>th</sup>, and Flower Streets.
- b. Floodlights shall be located so as to minimize impacts onto sensitive receptors.
- c. The Applicant shall coordinate with the Bureau of Street Lighting as to whether the streetlights shall be refurbished and/or reinstalled to preserve the character of the community, in addition to providing adequate lighting to motorists and pedestrians.
- d. All new lighting shall be designed to minimize glare and to prevent light impacts upon adjacent sensitive receptors.
- e. The use of highly reflective building materials for the exterior walls of the Project structures shall be minimized.
- f. Use high performance glass with high shading coefficient and low reflectivity, such as Heat Mirror or Low E type glass.
- g. Architectural and/or landscape screening elements shall be incorporated into project design so as to minimize glare impacts on adjacent sensitive receptors.
- h. Parking facilities exits shall be located and designed so as to minimize glare impacts from vehicle headlights on adjacent sensitive receptors.

**Adverse Effects:** Even with implementation of the mitigation measures listed above, light sources associated with the Project, including building and signage lighting, would contribute to increased ambient nighttime illumination levels that would spill over onto and illuminate adjacent sensitive receptors, producing significant impacts that could not be mitigated. Impacts related to glare would be less than significant.

### **AESTHETICS (SHADE/SHADOW)**

**Impacts:** The Project would result in significant shading impacts to five off-site shadow-sensitive uses during the winter, including two multi-family residential structures (adjacent to Francisco Street) shaded by the Olympic East Properties; two multi-family residential structures (adjacent to Georgia Street) shaded by Olympic North Properties; and the Gilbert Lindsay Plaza shaded by the Figueroa South Properties.

**Mitigation Measures:** The following mitigation measure is required to reduce significant shade-shadow impacts:

1. To reduce shading from the Project structures on the Olympic East, Olympic North and Figueroa South Properties, design elements, including roof form, setback, building height and massing, shall be implemented (to the extent feasible and consistent with the functions and uses of the Project) to avoid shading currently unshaded off-site shadow-sensitive uses for more than three hours between the hours of 9:00 A.M. and 3:00 P.M. between late October and early April, or for more than four hours between the hours of 9:00 A.M. and 5:00 P.M. between early April and late October.

**Adverse Effects:** The Project would result in significant shading impacts to five off-site shadow-sensitive uses during the winter. No off-site shadow-sensitive uses would be impacted during the summer. These impacts would be reduced with implementation of the Project design guidelines and the recommended mitigation measure. However, it may not be feasible to reduce all shading impacts to less than significant and still be consistent with the functions and uses of the Project. In this case, a significant shading impact would remain.

## POPULATION, HOUSING AND EMPLOYMENT

**Impacts:** It is estimated that approximately 4,296 construction workers would be employed during the construction of the Project, although these employees do not typically relocate closer to a construction site and, therefore, impacts to housing and population related to construction workers would be less than significant.

The Project's 800 new residential units and its estimated population increase of 2,272 new residents would be well within growth parameters established by SCAG for the Central City Community Plan Area. The Project is anticipated to add 5,343 jobs to the Central City Community Plan Area, a ratio of 2.35 jobs added for every resident added. This ratio is below historical levels for the area, and supports the trend of reducing the jobs-to-residents ratio.

**Mitigation Measures and Adverse Effects:** The Project would not result in any significant environmental impacts upon housing, population and employment and therefore no mitigation measures are required.

## DRAINAGE AND SURFACE WATER QUALITY

**Impacts:** Construction of the proposed Project will not result in a significant change to existing hydrologic conditions. The existing downstream storm drain system, as designed by BOE, is flowing at or above capacity. Adding additional storm drain capacity is not recommended because while it may improve the flooding situation locally, it would transfer the flooding to other downstream locations. No increase in runoff over existing conditions would occur.

During construction, compliance with the County's NPDES permit and all relevant storm water quality management programs of federal, State, County and City agencies would reduce any potential surface water quality impacts on receiving waters to less than significant levels. Implementation of BMPs in compliance with the SUSMP would reduce Project impacts during operation to below a level of significance.

**Mitigation Measures:** Although the proposed Project is not expected to result in significant impacts with respect to drainage, the following measures shall further ensure that neither the Project site nor surrounding properties are subject to increased flood hazard:

1. Prior to construction activities on any development area, the Applicant shall prepare a master erosion control plan for that developed area, which includes detailed flood control plans, for the City of Los Angeles Department of Public Works, Bureau of Engineering. The plans shall include hydrology/hydraulic calculations and drainage improvement plans, showing quantitatively how projected storm water runoff would not exceed existing design conditions. Such plans shall be reviewed and approved by the City prior to the issuance of building permits.

In addition, the following mitigation measure is recommended to ensure that the Project would not result in significant impacts to surface water quality:

2. The Applicant shall construct catch basins, roof drains, surface parking drains connecting directly to the existing storm drain system, and any other drainage improvements, as may be required by the Bureau of Engineering.

**Adverse Effects:** With adherence to all applicable regulations and implementation of the measures outlined above, Project impacts on drainage and surface water quality would be less than significant.

## AIR QUALITY

**Impacts:** Construction-related daily emissions would exceed SCAQMD significance thresholds for NO<sub>x</sub>, CO, ROC, and PM<sub>10</sub>. Construction-related quarterly emissions would exceed SCAQMD significance thresholds for NO<sub>x</sub>, CO, and ROC. Thus, emissions of these pollutants would result in a significant short-term regional air quality impact. Local air quality impacts relative to PM<sub>10</sub> concentrations would be less than significant. Regional emissions resulting from the proposed Project are expected to exceed the SCAQMD thresholds for CO, NO<sub>x</sub>, PM<sub>10</sub>, and ROC. Sensitive receptors in the area would not be significantly affected by CO emissions generated by Project-related traffic, and localized air quality impacts related to mobile source emissions would therefore be less than significant. The Project would be consistent with applicable SCAQMD and SCAG policies.

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**Mitigation Measures:** The following mitigation measures set forth a program of air pollution control strategies designed to reduce the Project's air quality impacts.

1. The Applicant shall secure any necessary permits from the SCAQMD.
2. Non-toxic soil stabilizers shall be applied according to manufacturers' specifications or vegetation shall be planted on all inactive construction areas (i.e., previously graded areas inactive for 10 days or more and not scheduled for additional construction activities within 12 months) to the extent feasible.
3. Exposed pits (i.e., gravel, soil, dirt) with 5 percent or greater silt content shall be watered twice daily, enclosed, covered or treated with non-toxic soil stabilizers according to manufacturers' specifications.
4. All other active sites shall be watered at least twice daily.
5. All grading activities shall cease during second stage smog alerts and periods of high winds (i.e., greater than 25 mph) if soil is being transported to off-site locations and cannot be controlled by watering.
6. All trucks hauling dirt, sand, soil, or other loose materials off-site shall be covered or wetted or shall maintain at least two feet of freeboard (i.e., minimum vertical distance between the top of the load and the top of the trailer).
7. A construction relations officer shall be appointed by the Applicant to act as a community liaison concerning onsite construction activity, including resolution of issues related to fugitive dust generation.
8. Diesel fueled onsite generators shall not be used during construction of the proposed Project.
9. All construction roads internal to the construction site that have a traffic volume of more than 50 daily trips by construction equipment, or 150 total daily trips for all vehicles, shall be surfaced with base material or decomposed granite, or shall be paved.
10. Streets shall be swept if visible soil material has been carried onto adjacent public paved roads.
11. Construction equipment shall be visually inspected prior to leaving the site and loose dirt shall be washed off with wheel washers as necessary.

12. Water or non-toxic soil stabilizers shall be applied, according to manufacturers' specifications, as needed to reduce offsite transport of fugitive dust from all unpaved staging areas and unpaved road surfaces.
13. Traffic speeds on all unpaved roads shall not exceed 15 mph.
14. The Applicant shall use low emission vehicles to the extent technologically and economically feasible. This may include vehicles using alternative fuels, low sulfur diesel, diesel with particulate traps, methanol, or electricity.
15. The Applicant shall implement the use of low emission technology to the extent technologically and economically feasible.
16. The Applicant shall comply with applicable Proposition 65 notice requirements in the event that construction activities utilize toxic materials, or cause toxic materials to be released into the air, including if toxics are identified in the fugitive dust.
17. In order to reduce the long-term mobile source emissions associated with the proposed Project, the Applicant shall continue to implement transportation systems management and demand management measures and comply with SCAQMD Rule 2202, which applies to all employers who employ 250 or more persons on a full or part-time basis at a single worksite. This rule, which aims to reduce volatile organic compounds (VOCs), NO<sub>x</sub>, and CO, provides employers a menu of options that they can choose from to reduce emissions related to employee commutes.
18. The Applicant shall provide alternative refueling stations within the Project at a ratio of one per 1,000 parking spaces distributed throughout the Project as the parking is developed.

**Adverse Effects:** With implementation of the mitigation measures described above, Project construction would continue to generate NO<sub>x</sub>, CO, ROC, and PM<sub>10</sub> emissions that exceed SCAQMD regional significance thresholds for construction activities. Therefore, construction of the proposed Project would have a significant and unavoidable impact on regional air quality. This impact, however, would be short-term in nature. Local air quality impacts associated with construction emissions would remain less than significant. During the operational phase, the proposed Project would result in regional emissions that exceed SCAQMD significance thresholds for CO, NO<sub>x</sub>, PM<sub>10</sub>, and ROC. The mitigation measures identified above would reduce these air quality impacts to the degree technically feasible, but emissions would remain above SCAQMD significance thresholds. Therefore, operation of the proposed Project would have a significant and unavoidable impact on regional air quality. No significant impacts to local air quality would result from Project operations.

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## TRANSPORTATION/CIRCULATION (TRAFFIC)

**Impacts:** The realignment of 12<sup>th</sup> Street between Figueroa and Flower Streets may require the partial or full closure of 12<sup>th</sup> Street, which could cause a temporary significant impact during construction. The Project would result in a significant traffic impact at 16 intersections during the weekday P.M. peak hour and 10 intersections during the Saturday evening peak hour. Potential residential street impacts could occur on 11<sup>th</sup> Street east of Burlington Avenue, and on 12<sup>th</sup> Street east of Burlington Avenue and between Valencia and Albany Streets, although the actual occurrence of such impacts is considered unlikely due to the fact that the arterial streets provide the most direct and convenient access to the Project site and experience with STAPLES Center has shown no significant traffic intrusion into the neighborhood. The Project would cause significant impacts at two *CMP* freeway-monitoring locations, even though these freeway segments would operate at LOS F without the Project.

### Mitigation Measures:

1. Prior to construction, the Applicant shall, in consultation and cooperation with the South Park Event Coordinating Committee, develop and implement a Construction Management Plan for construction of the Project. The goals of the Construction Management Plan shall be to minimize conflicts with STAPLES Center and Convention Center operations and conflicts and delays in construction of the Project.

The Construction Management Plan shall provide for the coordination of construction staging areas and traffic controls, in order to assist in the orderly flow of pedestrian and vehicular traffic in the Project area, and to/from STAPLES Center and the Convention Center events; and of labor, materials and construction vehicles to the construction site, including the staging of delivery trucks on public streets surrounding the Project site. The Construction Management Plan shall also address measures to ensure adequate access to STAPLES Center and to the Convention Center, if temporary lane closures on adjacent roadways are required.

Prior to full implementation of mitigation measures in this section, the Construction Management Plan should consider the use of temporary operational techniques (e.g., coning, temporary/changeable signs, etc.), as appropriate to the circulation needs of particular events.

2. The Applicant shall be responsible for any relocation and/or modification of the existing Highway Advisory Radio system for the STAPLES Center, if required as a result of the construction of the Project.

In order to address significant traffic impacts the feasibility of physical improvements was investigated. Specific street mitigation measures are proposed at the following intersections.

3. Blaine Street/11th Street/SR-110 Southbound On-Ramp
4. Cherry Street & Pico Boulevard
5. Georgia Street & Olympic Boulevard
6. Francisco Street & Olympic Boulevard
7. Figueroa Street & Olympic Boulevard
8. Grand Avenue & 11th Street
9. SR-110 Northbound Off-Ramp/9<sup>th</sup> Street

The following mitigation measures are recommended to ensure that the residential neighborhood to the west of the Harbor Freeway is protected from significant traffic and parking impacts:

10. The Applicant shall fund up to \$100,000 for studies, evaluations, and implementation of a Neighborhood Traffic Management Plan, if necessary. Such actions would be carried out under the direction of the LADOT, with the participation of the Applicant. The Applicant would post a bond for the \$100,000 and monies would be released as a plan or individual measures are agreed upon and implemented. After a period of three years from the opening of the Project, the bond would be terminated and/or any unused monies returned to the Applicant. This program would include both traffic management measures, as well as the implementation of any residential permit parking district programs requested by the neighborhoods and approved by LADOT.

In addition to the measures identified above that would directly mitigate and/or avoid significant impacts, the following general mitigation measures shall be implemented, which would help traffic flow in the area and lessen the magnitude of unmitigated impacts:

11. The Applicant shall enhance connections and linkages to transit, particularly including physical linkages to the Metro Blue Line Station at Flower Street/Pico Boulevard, as well as directional signage to bus and rail lines, and the provision of landscaped bus stops with passenger amenities, such as benches and shaded areas.
12. The Applicant shall install six new bus shelters throughout the project area, at locations to be agreed between the Applicant, LADOT, and LACMTA. These will be City standard bus shelters at a minimum, although the Applicant may modify the design to fit in with the overall urban design/streetscape of the Project with the approval of the City.

13. The Applicant shall provide up to two transit information kiosks on-site (one on the Olympic properties and one on the Figueroa properties) for the purpose of providing information about the available transit in the area, and of dispensing tickets/passes, if feasible.
14. The Applicant shall install 30-foot wide crosswalks at Figueroa Street/Olympic Boulevard, Figueroa Street/Pico Boulevard, 12<sup>th</sup> Street/Flower Street, and Pico Boulevard/Flower Street, where and as feasible.
15. The Applicant shall initiate and maintain a transportation demand management program that will actively promote the use of transit and rideshare, including providing project employees and visitors with transit and rideshare information.
16. The Applicant shall provide off-site parking for employees (to the north, east and south of the Project) along with shuttle bus service from parking locations to the Project site.
17. The Applicant shall provide fixed signage on access/egress corridors to the project to help direct inbound traffic to parking facilities, and outbound traffic to arterials and freeway ramps, up to a total of \$25,000.
18. The Applicant shall participate in providing up to three additional changeable message signs (CMS), if necessary, on the surface street system in the Project area, that will be linked into the existing Traffic Operations Center (TOC), that will help direct traffic and ensure smooth traffic flows during Convention Center and STAPLES Center events and during closures of 11th Street.
19. The Applicant shall participate with Caltrans to provide one additional changeable message sign (CMS) on the freeway mainline system, if Caltrans determines it to be necessary or desirable.
20. The Applicant shall coordinate with Caltrans and LADOT to develop fixed and changeable signage programs to direct traffic to utilize the various different freeway off-ramps in the Project area, where necessary.
21. The Applicant shall participate in the existing South Park Event Parking & Circulation Management Plan, and the ongoing traffic management activities coordinated by the South Park Event Coordinating Committee.
22. The Applicant shall implement a minimum 2-foot or 4-foot dedication and 3-foot or 5-foot widening along the Project frontage, as necessary, to bring Olympic Boulevard up to Class II Major Highway standards, except where greater dedication and widening are needed for traffic mitigation.

23. The Applicant shall implement a minimum 2-foot dedication and 2-foot widening along the Project's Georgia Street frontage, north of Olympic Boulevard, as necessary, to bring Georgia Street up to Collector Street standards.
24. The Applicant shall implement a minimum 2-foot dedication and 2-foot widening along the Project's Francisco Street frontage north of Olympic Boulevard, as necessary, to bring Francisco Street up to Collector Street standards.

In order to facilitate the closure of 11<sup>th</sup> Street between Georgia Street and Figueroa Street, on a regular basis outside the morning and evening peak periods, the Applicant shall implement the following improvements:

25. Develop a Traffic Control Plan, requiring LADOT approval, prior to completion and public use of the plaza to the north of 11<sup>th</sup> Street. Among the potential measures that could be included in the plan are the following (subject to the approval of LADOT):
  - Implement temporary traffic barriers and pop-up bollards on 11th Street west of Figueroa Street and east of Georgia Street to prevent traffic entering 11th Street between Georgia and Figueroa during closure periods.
  - Add electronic signs to signal poles and signal mast arms at the intersections of 11th Street/Figueroa Street and 11th Street/Georgia Street, to indicate “No Entry,” “Turn Left,” and “Turn Right” during street closures.
  - Add changeable message signs at locations to be determined by LADOT, advising motorists of alternate routes to 11th Street during street closures. Such signs would be located in the immediate vicinity of the block of 11th Street to be closed, at the following intersections: 11th Street and Figueroa Street; Olympic Boulevard and Figueroa Street; Olympic Boulevard and Georgia Street; and 11th Street and Georgia Street.
  - Add similar signs on the street approaches to the block of 11th Street to be closed to give motorists advance warning and information of alternate routes, such as at the following locations: 11th Street, east of Flower Street; 11th Street, east of Olive Street; and Cherry Street, south of 12th Street.
  - If necessary, provide additional temporary measures such as coning temporary traffic lanes, at the following locations: Olympic Boulevard and Figueroa Street; Olympic Boulevard and Georgia Street; 11th Street and Georgia Street; and 11th Street and Figueroa Street.

**Adverse Effects:** The temporary full closure of 12<sup>th</sup> Street during street and utility realignment would cause a significant, unavoidable traffic impact. Significant impacts would remain at 16 locations in the weekday P.M. peak hour, although only one location would operate at an unacceptable level of service (i.e., LOS E). The remaining 15 locations would continue to

operate at satisfactory conditions, with eight locations operating at LOS C and seven locations operating at LOS D. During the Saturday evening peak hour, the impact analysis identified significant traffic impacts at 10 locations. The physical mitigation measures identified would eliminate five of these significant impacts and would reduce the impact at two additional locations. Significant impacts would remain at five locations, which would all operate at satisfactory conditions (four locations at LOS C and one location at LOS D). No physical capacity improvements have been identified to directly mitigate identified impacts on the two CMP freeway analysis locations, which are considered to be feasible within the confines of a Project-specific analysis.

## **TRANSPORTATION/CIRCULATION (PARKING)**

**Impacts:** The overall Project parking supply of 6,260 spaces, including on-site and off-site spaces, would meet the overall *Zoning Code* requirement of 6,257 spaces. For a peak day, the total peak parking demand of 8,138 spaces on a Saturday would exceed the total Project parking supply of 6,260 spaces, a shortfall of 1,878 spaces. The on-site visitor need of 7,363 spaces would exceed the on-site supply of 5,310 spaces, a shortfall of 2,053 spaces. This excess demand would be met through off-site parking in the adjacent areas to the north and to the east, and through the existing abundance of off-site parking supply in both public and private lots. This parking demand would most likely be met in leased or public spaces to the north and east of the Project site. Since the peak parking demand occurs at night, the office spaces to the north of the Project site are prime candidates for shared parking opportunities. The Project would, therefore, conform to the requirements of the *Zoning Code* and parking impacts would be less than significant.

### **Mitigation Measures:**

- a. Construction**
  1. The Applicant shall develop a Construction Management Plan, which shall provide for the coordination of construction areas and the replacement of STAPLES Center parking prior to commencing construction. During Project utility relocation, existing street parking shall be retained wherever possible.
  2. As part of the Construction Management Plan, measures to minimize parking impacts to STAPLES Center and other land uses in the area shall be developed (for example, the provision of permanent or temporary replacement parking). Delays in construction of the Project shall be avoided to the fullest possible extent.

**b. Operation**

3. The Applicant shall provide employee parking off-site to the northeast or south of the Project site in leased and/or owned spaces. The employees would be transported to the Project site by a shuttle bus system similar to that currently used for STAPLES Center employees. The off-site employee parking program would accommodate approximately 550 daytime employee spaces and 775 nighttime employee spaces.
4. The Project shall participate in the South Park Event Coordinating Committee, to coordinate parking management issues.

**Adverse Effects:** After the incorporation of recommended mitigation measures, no adverse effects to parking would occur.

**TRANSPORTATION/CIRCULATION (PEDESTRIAN SAFETY)**

**Impacts:** Construction of the Project could have the potential to impact pedestrian movement in the immediate vicinity of the construction sites. Project-related construction could require temporary lane closures on surrounding streets, particularly during utility relocation activity, although no complete closure of any major streets is anticipated. These temporary lane closures could temporarily reroute pedestrian access to STAPLES Center and the Convention Center from the parking facilities, constituting a temporary, but significant, impact to pedestrian circulation. During peak day conditions with a sold-out event at STAPLES Center (or a major consumer show at the Los Angeles Convention and Exhibition Center) and substantial off-site parking occurring for Project visitors, all segments of the sidewalk system would operate at acceptable levels of service and impacts would be less than significant.

**Mitigation Measures:**

1. The Applicant shall develop a Construction Management Plan, which shall provide for the coordination of construction areas and safe pedestrian movement throughout the Project area such that adequate and safe pedestrian access is maintained to STAPLES Center, the Convention Center and surrounding land uses during construction.
2. The Applicant shall coordinate with the Los Angeles Unified School District to provide crossing guards along identified pedestrian routes to the Tenth Street Elementary School in the vicinity of the construction site during construction activities.

3. Haul routes shall be established which minimize construction vehicle traffic passing by Tenth Street Elementary School.
4. Construction vehicles shall be prohibited from staging in front of either Los Angelitos Children's Center or Tenth Street Elementary School.
5. The Los Angeles Unified School District's Transportation Branch shall be provided with a construction schedule and shall be notified of the commencement of project construction. During construction, the Los Angeles Unified School District shall also be notified of any planned lane closures in the vicinity of the project.

**Adverse Effects:** With the application of the above mitigation measures, impacts relative to pedestrian safety during construction would be less than significant.

## HAZARDOUS MATERIALS

**Impacts:** Additional excavation and ground clearing on any of the potential properties of concern may have the potential to disturb soil and/or groundwater contaminants, which could pose potential health risks and thus a significant impact to construction workers and employees, residents and visitors adjacent to the Project site. The demolition of the two remaining structures in the Figueroa Central area with asbestos containing materials or lead-based paint would have the potential to release these substances into the atmosphere if these substances are not properly stabilized or removed prior to demolition activity, which could result in a significant impact.

Operation of the Project and ancillary facilities would involve the use of small quantities of such potentially hazardous materials as solvents, detergents, and petroleum products. All potentially hazardous materials would be stored, handled, and disposed of in accordance with all applicable federal, state, and local regulations. Consequently, the Project operation would not be expected to pose any significant risks related to the accidental release of hazardous materials. Operational impacts would be less than significant.

**Mitigation Measures:** The following mitigation measures shall be employed during construction of the proposed Project:

1. Further investigation by a registered environmental professional of the potential soil and/or groundwater contamination on 1240 South Figueroa Street (APN 5138-025-004), 844 West Olympic Boulevard (APN 5138-009-002), and 931 West Olympic Boulevard (APN 5138-005-008) shall be conducted in accordance with the RWQCB, where applicable. Any required remedial action recommended by the registered environmental professional and approved by the RWQCB for any

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contamination discovered during these investigations shall be fully implemented and documented.

2. Coordination of ongoing remediation activities with proposed Project construction shall be performed to ensure that soil cleanup is not stopped or impeded.
3. Removal of any asbestos-containing materials found in the only two onsite structures (Figueroa Central Properties) shall be conducted in accordance with the requirements of South Coast Air Quality Management District Rule 1403. Specific requirements of Rule 1403 include:
  - a. Implementation of a thorough survey of the affected facility prior to issuance of permits for any demolition or renovation activity, including inspection, identification, and quantification of all friable and certain non-friable asbestos-containing materials.
  - b. Surveys which include collection and analyses of representative asbestos building material samples, and quantification of these materials for asbestos abatement purposes prior to or during demolition.
  - c. Notification of the SCAQMD of the intent to demolish or renovate any facility at least ten days prior to commencing with the activity.
  - d. Removal of all asbestos-containing materials prior to any demolition or renovation activity that would break up, dislodge, or similarly disturb the material.
  - e. Use of prescribed procedures when removing asbestos-containing materials.
  - f. Placement of all collected asbestos-containing materials in leak-tight containers or wrapping.
  - g. Transportation and disposal of asbestos-containing materials as required by applicable regulations.
4. Lead-based paint assessments of the only two remaining structures on the Project Site (Figueroa Central Properties) shall be conducted prior to issuance of permits for any demolition activity involving a particular structure. These assessments will include use of x-ray fluorescent technology to identify buildings with lead-based paint. Lead-based paint found in any buildings shall be removed and disposed of as a hazardous waste in accordance with all applicable regulations.
5. In the event that previously undiscovered contaminated soil or hazardous materials are encountered at the Project site during construction, identification and remediation procedures shall be developed in accordance with applicable federal, State and City regulations which would ensure that the potential for the risk of upset would be below a level of significance.

**Adverse Effects:** After the incorporation of mitigation measures, no significant impacts from hazardous materials would occur.

## NOISE

**Impacts:** During the heaviest periods of construction activity, the construction noise could potentially be as high as 89 dBA during short instances. At the Project construction site, noise would range from 74 to 85 dBA. The construction noise would range from 68 to 79 dBA at the apartment hotel located south of Pico Boulevard and West of Flower Street. During periods of less intensive activity, the construction noise would be lower. Construction on portions of the Olympic and Figueroa Properties would have the potential to exceed 75 dBA within 500 feet of the existing residential areas. Impacts to residential receptors (i.e., apartment building located north of Olympic Boulevard and east of Flower Street) associated with construction on the Olympic and Figueroa Properties would be significant. During operation, sensitive land uses located along portions of 9th Street (James Wood Boulevard), 11<sup>th</sup> Street, Figueroa Street, Flower Street, Olympic Boulevard, and Pico Boulevard would experience future traffic noise levels that exceed the City's CNEL guideline of 70 dBA.

### Mitigation Measures:

The following mitigation measures are recommended for proposed development on the Project site.

#### a. Construction

Because noise associated with on-site construction activity would have the potential to exceed the level normally allowed under the City Noise Ordinance, the following mitigation measures are recommended to minimize construction-related noise impacts:

1. On-site construction activity that generates noise in excess of 75 dBA at a distance of 50 feet shall be limited to between 7:00 A.M. and 9:00 P.M. Monday through Friday and 8:00 A.M. and 6:00 P.M. on Saturdays, unless the City extends such hours.
2. The Los Angeles Unified School District shall be provided with a construction schedule.
3. All construction equipment shall be in proper operating condition and fitted with standard factory silencing features.
4. Sound blankets shall be used on all construction equipment for which use of sound blankets is technically feasible.

5. If noise levels from construction activity are found to exceed 75 dBA at the property line of an adjacent property and construction equipment is left stationary and continuously operating for more than one day, a temporary noise barrier shall be erected between the noise source and receptor.
6. All construction truck traffic shall be restricted to truck routes approved by the City of Los Angeles Department of Building and Safety, which shall avoid residential areas and other sensitive receptors to the extent feasible.
7. The Applicant shall notify residents within 800 feet of the Project construction site and in addition will post a notice in a local newspaper as part of the Construction Management Plan notifying residents of construction activity.

#### **b. Operation**

The following mitigation measures are recommended to address significant traffic noise impacts occurring during the event and during the post-event hour and from the bus staging area.

8. Entrances and exits from parking lots in the Olympic and Figueroa Properties parking areas shall be located to minimize impact on residential, motel, or hotel units.
9. As part of the *South Park Area Parking and Circulation Management Plan (PCMP)*, an operational traffic plan shall be implemented which minimizes the amount of Project generated traffic passing by sensitive receptors by providing traffic control personnel to direct departing vehicles along corridors that will have the least impact on sensitive receptors in the area.
10. All events in the Central Plaza that would involve the use of public address systems shall be required to obtain a permit from the City for operating amplified sound and speech equipment.

**Adverse Effects:** With the recommended mitigation measures, noise associated with construction activity would be reduced to the degree technically feasible. Nevertheless, impacts are likely to occur on the sensitive receptors located nearest to the Project site. Apartments located north, east, and south of the Project Site would occasionally experience high construction noise levels. This construction-related noise would constitute a significant unavoidable adverse impact of the Project.

Noise increases on Francisco Street north of Olympic Boulevard would be significant because of the increased vehicle traffic associated with the Project. Because of the source of the impact (i.e., moving vehicles), the only available measure to mitigate the impact would be to route

traffic onto Olympic Boulevard away from Francisco Street. No other feasible mitigation measures are available to reduce this impact to less than significant. This impact is also expected to occur during weekend operations. This would be a significant and unavoidable adverse impact.

### **PUBLIC SERVICES (FIRE)**

**Impacts:** Construction of the proposed Project may result in temporary lane closures. However, due to the temporary and limited nature of the closures along roadways and the wide selection of alternate routes to and through the Project site, emergency access and response times would not be significantly affected. Implementation of the proposed Project would increase the need for LAFD fire protection and emergency medical services at the Project site. However, the Project site is within the required response distance of the nearest fire station and no significant impacts to LAFD staff and equipment capabilities are anticipated. Water service for fire fighting purposes would continue to be provided by the City of Los Angeles Department of Water and Power (DWP). In order to determine if the existing water system is adequate to meet fire flow demand, the Water Operations Division of DWP will conduct a flow study prior to issuance of any building permits.

**Mitigation Measures:** The following mitigation measures for fire protection and emergency medical service shall be employed during the construction and operation of the proposed Project:

1. The Applicant shall ensure that during construction, LAFD access will remain clear and unobstructed.
2. Proposed roadway modifications shall be reviewed by the LAFD to assure adequate access to the Project site and adjacent uses.
3. The DWP shall conduct a flow test prior to the issuance of certificates of occupancy to determine whether the existing water system meets fire flow requirements imposed by the Fire Department for the Project. The Applicant shall undertake and complete those required improvements identified by the DWP as a result of findings of the flow test.
4. The proposed Project shall comply with all applicable State and local codes and ordinances, and the guidelines found in the *Fire Protection and Fire Prevention Plan Element*, as well as the *Safety Element*, both of which are elements of the General Plan of the City of Los Angeles.
5. The Applicant shall submit definitive plans and specifications to the LAFD and requirements for necessary permits shall be satisfied prior to commencement of any portion of the proposed Project.

6. The Project shall provide access for LAFD apparatus and personnel to and into all structures shall be required. At least two different ingress/egress roads for each area, which will accommodate major fire apparatus and provide for major evacuation during emergency situations, shall be required. Additional vehicular access may be required by the LAFD where buildings exceed 28 feet in height.
7. The Applicant shall submit plans that show proposed access road(s) and turning area(s) for LAFD approval.
8. Project development shall conform to the standard street dimensions shown on Department of Public Works Standard Plan D-22549.
9. Project design shall use standard cut-corners on all street corners to permit easy turning access for LAFD vehicles.
10. Fire lane width shall not be less than 20 feet. When a fire lane must accommodate the operation of an LAFD aerial ladder apparatus or where fire hydrants are installed, those portions shall not be less than 28 feet in width.
11. Fire lanes, where required, and dead ending streets shall terminate in a cul-de-sac or other approved turning area. No fire lane or dead ending street shall be greater than 700 feet in length or secondary access shall be required.
12. All access roads, including fire lanes, shall be maintained in an unobstructed manner, and removal of obstructions shall be at the owner's expense. The entrance to all required fire lanes or required private driveways shall be posted with a sign no less than three square feet in area, in accordance with Section 57.09.05 of the *Los Angeles Municipal Code*.
13. Where above ground floors are used for residential purposes, the access requirement shall be interpreted as being the horizontal travel distance from the street, driveway, alley, or designated fire lane to the main entrance, or exit of individual units.
14. To accommodate an LAFD apparatus, if necessary, the minimum outside radius of paved surface shall be 35 feet. An additional six feet of clear space must be maintained beyond the outside radius to a vertical point 13 feet 6 inches above the paved surface of the roadway.
15. Where access for a given development requires accommodation of Fire Department apparatus, overhead clearance shall not be less than 14 feet.
16. No building shall be constructed more than 150 feet from the edge of a roadway of an improved street, access road, or designated fire lane.

17. Adequate off-site public and on-site private fire hydrants may be required. Their number and location are to be determined after the LAFD's review of the Project's plot plan. The maximum distance between fire hydrants on roads and fire lanes in a regional commercial area is 300 feet.
18. The Applicant shall coordinate with the South Park Event Coordinating Committee to address issues relating to vehicle and pedestrian flows during major events and to identify measures for ensuring LAFD access to the Project site, parking lots, and the immediate vicinity during the pre-event and post-event periods.

**Adverse Effects:** After the incorporation of mitigation measures, no adverse effects to fire and emergency medical services, response times or fire flow would occur.

### **PUBLIC SERVICES (POLICE)**

**Impacts:** Event-related population increases would generate demand for additional security officers during events at the Project site and at STAPLES Center, especially for crowd and traffic control. The extent of additional protection needed would vary in accordance with the type of event and expected number of spectators. Reporting Districts for portions of the Project site currently have a higher than average crime rate (in comparison with the average for all 52 Reporting Districts in the Central Area) for breaking and entering into automobiles and theft. The Project would generate off-site parking during peak-usage, which could increase these kinds of crimes and place an increased demand on police protection services. During events at the STAPLES Center and the Los Angeles Convention and Exhibition Center, and during the post-event period, traffic could result in considerable congestion at many area streets and intersections in the vicinity of the project site, which could potentially cause significant delays in LAPD emergency response times for responses within or through the project site, thereby creating delays for other occupants and residents in the area.

**Mitigation Measures:** The following mitigation measures would be employed to provide adequate on-site security and minimize on-site demand for police protection service during the construction and operation of the proposed Project:

1. The Applicant shall ensure that during construction, LAPD access will remain clear and unobstructed.
2. Proposed roadway modifications shall be reviewed by the LAPD to assure adequate access to the proposed Project and adjacent uses.
3. The Applicant shall provide security features on the construction site(s), such as guards, fencing, and locked entrances.

4. The Applicant shall submit plot plans for all proposed development to the Los Angeles Police Department's Crime Prevention Section for review and comment. Security features subsequently recommended by the LAPD shall be implemented to the extent feasible.
5. The Applicant shall file building plans with the LAPD Central Area Commanding Officer. Plans shall include access routes, floor plans, and any additional information that might facilitate prompt and efficient police response.
6. Alarms and/or locked gates shall be installed on doorways providing public access to commercial facilities.
7. Landscaping shall not be planted in a way that could provide cover for persons tampering with doors or windows of commercial facilities, or for persons lying in wait for pedestrians or parking garage users.
8. Additional lighting shall be installed where appropriate, including on the Project site and in parking garages, as determined in consultation with the LAPD.
9. Safety features shall be incorporated into project design to assure pedestrian safety, assist in controlling pedestrian traffic flows, and avoid pedestrian/vehicular conflicts on-site. Safety measures may include provision of security and traffic control personnel; approved street closures for special events or peak pedestrian activity; clearly designated, well-lighted pedestrian walkways on-site; special street and pedestrian-level lighting; physical barriers (e.g., low walls, landscaping), particularly around the perimeter of the parking garages, to direct pedestrians to specific exit locations that correspond to designated crosswalk locations on adjacent streets; guide signs for Project site-bound pedestrians approaching the site from the Pico Blue Line Metro station; and provision of an on-site bus passenger drop-off facility.
10. The Applicant shall develop and implement a new or modified Security Plan to minimize the potential for on-site crime and the need for LAPD services. The plan would outline the security services and features to be implemented, as determined in consultation with the LAPD. The following shall be included in the plan:
  - a. Provision of an on-site security force that would monitor and patrol the Project site. During operational hours, security officers shall perform pedestrian, vehicular, and/or bicycle patrols.
  - b. Implementation of a video camera surveillance system and/or a closed-circuit television system;
  - c. Additional security features shall be incorporated into the design of proposed parking facilities, including "spotters" for parking areas, and ensuring the

- availability of sufficient parking either on- or off-site for all building employees and anticipated patrons and visitors;
- d. Security lighting incorporating good illumination and minimum dead space in the design of entryways, seating areas, lobbies, elevators, service areas, and parking areas to eliminate areas of concealment. Security lighting shall incorporate full cutoff fixtures which minimize glare from the light source and provide light downward and inward to structures to maximize visibility;
  - e. Provision of lockable doors at appropriate Project entryways, offices, retail stores, and restaurants;
  - f. Installation of alarms at appropriate Project entryways and ancillary commercial structures;
  - g. The City shall approve of all businesses desiring to sell or allow consumption of alcoholic beverages through specific plan regulation or issuance of one or more Conditional Use Permits;
  - h. Accessibility for emergency service personnel and vehicles into each structure, and provision to the Central Area Commanding Officer of detailed diagram(s) of the Project site, including access routes, unit numbers, and any information that would facilitate police response.
  - i. In addition, security procedures regarding initial response, investigation, detainment of crime suspects, LAPD notification, crowd and traffic control, and general public assistance shall be outlined in the Security Plan. The plan would be subject to review by the LAPD, and any provisions pertaining to access would be subject to approval by the City of Los Angeles Department of Transportation.
11. The Applicant shall develop and implement an Emergency Procedures Plan to address emergency concerns and practices. The plan shall be subject to review by the LAPD, and any provisions pertaining to access would be subject to approval by the City of Los Angeles Department of Transportation.
12. The Applicant shall coordinate with the South Park Event Coordinating Committee to address issues relating to vehicle and pedestrian flows during major events and to identify measures for ensuring LAPD access to the Project site, parking lots, and the immediate vicinity during the pre-event and post-event periods.
13. The Applicant shall complete an annual assessment of off-site Project related crime, in coordination with the LAPD, subject to the approval of the City Planning Department, and in response develop and implement additional security measures.

**Adverse Effects:** After the incorporation of mitigation measures, no adverse effects to police protection services or response times would occur.

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## **PUBLIC SERVICES (SCHOOLS)**

**Impacts:** The development of 800 new residential uses would result in the increased demand for school facilities by generating an estimated total of 302 new students. This total would be made up of 134 elementary, 76 middle, and 92 high school students. The Project does not contain any school construction, so there is no impact on the supply of school facilities available to students generated by the Project development. This student generation would exceed the forecasted future available capacities of the local schools.

**Mitigation Measures:** Any significant impacts on the demand for schools within LAUSD attributable to residential construction are considered mitigated by the Applicant's payment of development fees to LAUSD prior to issuance of building permits. Development fees payable to LAUSD are calculated by applying the maximum construction fees specified by the State Allocation Board, \$2.05 per square foot of residential construction and \$0.33 per square foot of commercial construction. State law (SB 50) states that the maximum fee amounts allowed by the bill are "deemed to provide full and complete school facilities mitigation" for purposes of CEQA.

**Adverse Effects:** After the incorporation of the recommended mitigation measure, no adverse effects to schools or school facilities would occur.

## **PUBLIC SERVICES (PARKS AND RECREATION)**

**Impacts:** Implementation of the proposed Project is not anticipated to result in construction-related impacts to parks and recreational facilities because construction workers are highly transient in their work locations and would not likely utilize off-site facilities in proximity to a job site. The development of 800 new dwelling units within the proposed Project would add an estimated 2,272 residents to the South Park Area, resulting in the increased use of existing neighborhood, community and regional parks in the Central City Community Plan Area, where parkland deficiencies have been identified. Therefore, the proposed Project would result in a potentially significant impact to the delivery of parks and recreation services.

**Mitigation Measures:** In order to mitigate the proposed Project's impacts on the Central City area's existing and future deficiency of parkland and open space, the following mitigation measures are recommended:

1. The Project shall incorporate project design features such as plazas, terraces and paseos that encourage access to a variety of open space uses for residents and visitors to the Project site.

2. The Applicant shall pay required fees to the City of Los Angeles Recreation and Parks Department for the purpose of providing future parks and open space in the Central City area.

**Adverse Effects:** The Project would satisfy the open space requirements of the City's Municipal Code for multi-family housing. However, the Project would not meet the Department of Recreation Parks and planning standard of four acres per 1,000 residents. Therefore, the Project would have a significant impact on parks and recreational facilities.

## UTILITIES (WATER)

**Impacts:** The Project is estimated to have a buildout water demand of approximately 1,660,000 gallons per day. The Project's increases in water demand with respect to existing and anticipated supplies would not be significant. The local water infrastructure would be adequate to provide for the increase in domestic water demand.

**Mitigation Measures:** The proposed Project shall comply with all applicable sections of the City of Los Angeles Water Conservation Ordinances (Ordinance Nos. 163,532; 164,093; 165,004; 166,080; and subsequent amendments). Specifically, no hose washing of roadways, paved parking areas, plaza areas, or walkways shall be allowed. Low flow toilets and plumbing fixtures that prevent water loss shall be installed, decorative fountains shall use recycled water, water leaks shall be repaired in a timely manner, and drinking water shall be served only upon request. In adherence to the City's Landscape Ordinance No. 170,978, plants selected for landscaping shall comply with xeriscape (drought-resistant, low maintenance) requirements. Finally, the Project shall comply with any additional mandatory City-imposed water use restrictions required as a result of drought conditions.

Although development of the Project is not expected to produce significant impacts to water supply services, the following measures will ensure that water resources will be conserved to the extent feasible:

1. The Project and occupants shall adhere to all applicable DWP rules and regulations. The DWP shall be consulted regarding feasible water conservation features, including xeriscape practices (e.g., use of drought-tolerant landscaping and drip irrigation systems), which can be incorporated into the design of the project. All necessary infrastructure improvements shall be constructed to meet the requirements of the DWP.
2. Automatic sprinkler systems shall be set to irrigate landscaping during morning or evening hours to reduce water losses from evaporation. Sprinklers shall be reset to

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water less often in cooler months and during the rainfall season so that water is not wasted by excessive landscape irrigation.

3. The DWP shall conduct a flow test prior to the issuance of building permits to determine whether the existing water system meets fire flow requirements imposed by the Fire Department for the Project. The Applicant shall undertake and complete those required improvements identified by the DWP as a result of findings of the flow test.
4. The Applicant shall obtain a DWP Letter of Service prior to issuance of building permits.

**Adverse Effects:** With adherence to all applicable regulations and implementation of the measures outlined above, the Project impacts to domestic water service, fire flows, and the water infrastructure system would be less than significant.

### **UTILITIES (SEWER)**

**Impacts:** The existing sewer infrastructure surrounding the Project site would be adequate to provide for the Project. The proposed Project is estimated to have a buildout sewage generation estimated at 1,383,450 gallons per day, which represents a substantial increase over existing conditions but would not impact the existing sewer system.

**Mitigation Measures:** The Project is not expected to produce significant impacts to sewer service; however, compliance with City and State codes, ordinances, and permit requirements will ensure that wastewater generation will be reduced to the maximum extent feasible. Specifically, the Project shall comply with the following:

1. The Applicant shall comply with procedural requirements of City ordinances regulating connections to the City sewer system (e.g., Ordinance No. 166,060).
2. All necessary infrastructure improvements shall be constructed to meet the requirements of the Department of Public Works.
3. The Applicant shall comply with all provisions of Ordinance No. 162,532, which reduces water consumption levels, thereby restricting wastewater flows. Water saving devices to be installed shall include low flow toilets and plumbing fixtures that prevent water loss.
4. The Applicant shall develop and implement a construction management plan for any temporary lane closures that may be necessary (including temporary coning, signing, road striping, signalization, etc.), to assist in the orderly flow of vehicular and

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pedestrian traffic in the project area, and to ensure the maintenance of adequate access to STAPLES Center and the Convention Center.

**Adverse Effects:** With adherence to all applicable regulations and implementation of the measures outlined above, the Project impacts to sanitary sewer service and the sewage infrastructure system would be less than significant.

### UTILITIES (SOLID WASTE)

**Impacts:** Operation of the Project is estimated to generate approximately 31,170 pounds of solid waste per day. The Project would implement source reduction, recycling, and diversion measures, which would serve to reduce the amount of waste disposed of at area landfills. The most likely destinations for solid waste generated by the proposed Project would be the Sunshine Canyon Landfill and the Chiquita Canyon Landfill. The Project would not result in significant impacts to the remaining disposal capacity of these facilities or their anticipated closure dates.

**Mitigation Measures:** The Project shall comply with all applicable City, County, and State requirements regulating solid waste disposal, including the California Solid Waste Reuse and Recycling Access Act of 1991 (AB 939), which requires that adequate waste storage facilities be provided for the collection and storage of recyclable and green waste materials. The Project is not expected to produce significant impacts to landfill capacity. Waste management practices shall be implemented during both construction and operation in order to reduce the quantity of solid waste generated. The following measures have been established to achieve waste reduction goals:

1. Prior to the issuance of building permits, a Recycling and Resource Recovery Plan shall be prepared to coordinate resource conservation and recycling for the Project. Prior to implementing this plan, it shall be reviewed and approved by the City of Los Angeles Department of Public Works, Solid Resources Citywide Recycling Division. The plan shall include the following:
  - a. A recycling program shall be designed to reduce the amount of solid waste going to landfills, in line with the City's goals and continued efforts towards a Citywide 50 percent waste reduction rate over 1990 waste diversion levels.
  - b. Measures for maximizing the recycling of demolition and construction debris, including a proposed layout for source separation of materials and recycling bins at the Project site and utilization of prospective contractor(s) specializing in demolition and construction waste management shall be implemented, to the extent feasible.
  - c. Recycling bins and chutes shall be provided at appropriate locations to promote the recycling of paper, metal, glass, and other recyclable materials.

- d. An education/outreach program for all Project employees shall be instituted to reduce the output of solid waste through recycling and reduction of waste at the source.
- e. Promote recycling to patrons.
2. Trash compaction facilities shall be provided in all occupied structures, where deemed feasible.
3. Yard waste management techniques shall be incorporated into the maintenance of the Project, including use of drought tolerant plants and mulching or composting of regular landscape maintenance waste where appropriate.

**Adverse Effects:** No significant adverse effects with respect to solid waste would result from development of the proposed Project.

## **GEOLOGIC AND SEISMIC HAZARDS**

**Impacts:** No significant impacts to geology and soils are anticipated during construction of the proposed project. The Elysian Park-Wilshire Thrust Zone is potentially located below the entire Central City Subregion. As ground shaking has the potential to affect all structures within the City of Los Angeles, this hazard would pose a potentially significant, but mitigable, impact associated with the Project site. Although not well-defined, the portion of the Project site located north of Pico Boulevard and east of South Figueroa Street (Figueroa South/Figueroa Central development areas) is located within what was the major oil drilling area for this former oil field and this area would be considered a potential hazard for subsidence.

**Mitigation Measures:** The proposed Project must comply with all applicable City of Los Angeles Building Code regulations with regard to seismic safety requirements and shall be approved by the City Department of Building and Safety prior to the issuance of building permits. Geotechnical investigations shall be performed by a registered geotechnical engineer. In addition, the following mitigation measures have been established for potential seismic and subsidence hazards potentially impacting future development on the Project site:

1. A State-certified geologist shall review all excavations for evidence indicative of faulting, or seismically-induced ground deformation. If during grading, an active fault is determined to extend through the area, appropriate building setbacks from the fault line shall be established.
2. An assessment of the potential for subsidence at the Project site shall be conducted as part of the geotechnical evaluation.

3. To assist in response to a seismic event, an emergency response and building-specific evacuation plan for Project structures shall be developed in coordination with the Los Angeles Fire Department prior to the Certificate of Occupancy being granted by the City of Los Angeles. Such information shall be disseminated to employees to reduce the potential for human injury.
4. To assist in response to a seismic event, an emergency response and building-specific evacuation diagram for Project structures shall be posted in each on-site building. Such signage shall be posted in appropriate locations to reduce the potential for injury to visitors and employees.

**Adverse Effects:** The proposed Project would potentially expose both employees and visitors to on-site seismic hazards. However, the proposed Project would be designed so that there would be no increased threat of exposing people, property, or infrastructure to geotechnical or seismic hazards. In addition, the Project is not subject to any greater seismic risk than any other site within the Central City subregion of the City of Los Angeles. Therefore, with implementation of the recommended mitigation measures, any potential geologic or seismic impacts would be reduced to less than significant levels.

## **ARCHITECTURAL/HISTORIC RESOURCES**

**Impacts:** The proposed Project would not result in any adverse effects to historic resources. There are no historic resources located on the Project site. Those properties adjacent to the Project site, evaluated as 5S3 (i.e., 1037, 1100 and 1140 South Flower Street) are not eligible for federal, State, or local designation. In addition, they are not considered historic resources under CEQA. Therefore, the impact of the project on properties identified as 5S3 would be considered less than significant. In addition, the proposed Project would not result in significant impacts to the Petroleum Building or Hotel Figueroa. The proposed Project would not impact the Variety Arts Center, adjacent to the Project site, as Project structures will be set back from the Variety Arts Center, thus minimizing any impact upon this historic five-story building. In addition, the front façade of the Variety Arts Center will not be blocked by the Project development or operation.

**Mitigation Measures:** No significant impacts upon historical resources have been identified, however, the following mitigation measure would apply to protect against destruction of paleontological resources that may be encountered during construction:

1. If unknown paleontological, archaeological and/or cultural materials are discovered during any grading or construction activity, work will stop in the immediate area. Upon such discoveries the contractor shall immediately notify the client and the City of Los Angeles. A paleontologist and/or archaeologist shall be consulted to determine the discovery's significance and, if necessary, formulate a mitigation plan,

including avoidance alternatives, to mitigate impacts. Work can only resume in that area with the approval of the City of Los Angeles and paleontologist and/or archaeologist.

2. New construction adjacent to the Variety Arts Center shall respect its historic character through conformance with the Secretary of the Interior's Standards for Treatment of Historic Properties.

**Adverse Effects:** No significant impacts to historical resources would occur.

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## II. CORRECTIONS AND ADDITIONS TO THE DRAFT EIR

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This section includes changes to the Draft EIR and Technical Appendices (Volumes I to III), which have resulted from the Lead Agency’s review of the comments submitted on the Draft EIR by public agencies and interested individuals and groups. Revisions are presented in the order that the information was presented within the Los Angeles Sports and Entertainment District Draft EIR.

### I. SUMMARY

A new summary has been provided in Section I Summary of this Final EIR.

### II. PROJECT DESCRIPTION

- a. Table 3, page 59, amend fourth row as follows:

**Table 3**

**EQUIVALENCY MATRIX –  
LAND USE SQUARE FOOTAGE CONVERSION FACTORS**

To this land use <sup>D</sup>										
From this land use <sup>B</sup>	Hotel <sup>2</sup>	Live Theater	Entertainment	Museum/ Visitor Attraction	Restaurant	Retail	Health Club	General Office	Medical Office	Residential <sup>6</sup>
Museum/ Visitor Attraction	7.193	115.889	2.873	NA	0.632	1.034	0.749	1.407	0.821	8.764

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- b. Vehicular Circulation, page 67, after seventh paragraph, insert the following text:

“The proposed project would include the following street and alley vacations:

Olympic West and East

- Subsurface vacation of Georgia Street between Olympic Boulevard and 11th Street to connect two levels of subterranean parking located beneath Olympic Boulevard West and East.
- Vacation of Georgia Street between Olympic Boulevard and 11th Street beginning at 20 feet above the street grade to 80 feet above the street grade to accommodate a pedestrian bridge that will connect Olympic Boulevard West to Olympic Boulevard East.
- Vacation of the north side of 11th Street.

Figueroa Central and South

- Vacation of existing 12th Street to accommodate realignment requested by the Los Angeles Department of Transportation.
- Subsurface vacation of 12th street that will connect two levels of subterranean parking located under both Figueroa Central and South.
- Subsurface vacation of the alley between 12th Street and the property boundary to the south to connect subterranean parking between Figueroa Central and South.
- Surface vacation of the alley between 12th Street and the property boundary does not include 10 feet of the alley adjacent to the lots fronting Flower Street beyond the boundary of the lots along Figueroa Street.
- Vacation of the alley between 12th Street and the property boundary beginning 20 feet above grade to accommodate the proposed building design.

**III. GENERAL DESCRIPTION OF ENVIRONMENTAL SETTING**

[There are no corrections or additions to this section.]

**IV. ENVIRONMENTAL IMPACT ANALYSIS**

**A. LAND USE**

[There are no corrections or additions to this section.]

**B. AESTHETICS**

**1. VISUAL QUALITY**

- a. Mitigation Measures, page 151, include as Mitigation Measure No. 2:

"In the Project design, the Project Applicant shall substitute vegetated surfaces for hard surfaces, which shall include 15 percent of the at-grade plaza and courtyards and 5 percent of elevated surfaces. In addition, the Project streetscape plan shall provide for additional landscape areas. The Project Applicant shall explore elimination of blacktop and the use of new coatings and integral colorants for asphalt to achieve light colored surfaces, to the extent feasible for Project development."

**2. LIGHT AND GLARE**

[There are no corrections or additions to this section.]

**3. SHADE/SHADOW**

[There are no corrections or additions to this section.]

**C. POPULATION, HOUSING AND EMPLOYMENT**

[There are no corrections or additions to this section.]

**D. DRAINAGE AND SURFACE WATER QUALITY**

- a. Mitigation Measures, page 207, after first sentence, add:

"As a condition of the building/grading permit approval, the Project Applicant shall show the Waste Discharge Identification Number (WDID) as proof of submittal of an NOI and SWPPP to the LARWQCB. The SWPPP shall be implemented and posted at the Project site, and is subject to review during routine jobsite inspections. In addition, a Wet Weather Erosion Control Plan (WWECP) shall be prepared if construction is to be done during the rainy season between October 1 and April 14. The WWECP shall also be posted at the Project site and is subject to review by the Department of Public Works, Bureau of Contract Administration, inspectors during their routine jobsite inspections."

**E. AIR QUALITY**

- a. Mitigation Measures, page 230, Mitigation Measure No. 8, amend as follows:

“8. Diesel fueled onsite generators shall not be used during construction of the proposed Project.”

- b. Mitigation Measures, page 230, after Mitigation Measure No. 13, add new mitigation measure as follows:

**(d) Construction Equipment**

“14. The Applicant shall use low emission vehicles to the extent technologically and economically feasible. This may include vehicles using alternative fuels, low sulfur diesel, diesel with particulate traps, methanol, or electricity.”

- c. Mitigation Measures, page 230, after new Mitigation Measure No. 14, add new mitigation measure as follows:

“15. The Applicant shall implement the use of low emission technology to the extent technologically and economically feasible.”

- d. Mitigation Measures, page 230, after new Mitigation Measure No. 15, add new mitigation measure as follows:

“16. The Applicant shall comply with applicable Proposition 65 notice requirements in the event that construction activities utilize toxic materials, or cause toxic materials to be released into the air, including if toxics are identified in the fugitive dust.”

- e. Mitigation Measures, page 230, after Mitigation Measure No. 17, add new mitigation measure as follows:

“18. The Applicant shall provide alternative refueling stations within the Project at a ratio of one per 1,000 parking spaces distributed throughout the Project as the parking is developed.”

## F. TRANSPORTATION/CIRCULATION

### 1. TRAFFIC

- a. Environmental Setting, page 239, second paragraph, amend first sentence as follows:

“The traffic analysis study area is currently served by a number of local and inter-city transit operations, including the DASH downtown shuttle operated by LADOT, local and express buses operated by the Los Angeles County Metropolitan Transportation Authority (MTA) and others, and the Metro Blue Line rail transit system, also operated by MTA.”

- b. Environmental Setting, page 241, second paragraph, amend last sentence as follows:

“The Pico Station is also served by Metro Bus lines 30, 31, 56, 81, 434, 436, 439, 442, 444, 445, 446, 447, and DASH Route A.”

- c. Environmental Setting, page 241, third paragraph, amend third sentence as follows: “Between 4:00 and 6:30 P.M., the Blue Line operates every five to 12 minutes on weekdays.”

- d. Mitigation Measures, page 269, after Mitigation Measure No. 1, add new mitigation measure as follows:

“2. The Applicant shall be responsible for any relocation and/or modification of the existing Highway Advisory Radio system for the STAPLES Center, if required as a result of the construction of the Project.”

- e. Mitigation Measures, page 271, Mitigation Measure No. 5, after second sentence, add the following sentence:

“The Applicant shall provide a separate traffic signal warrant analysis for review and approval by LADOT prior to installation of the signal.”

- f. Mitigation Measures, page 273, after Mitigation Measure No. 7, add new mitigation measure as follows:

“8. NB SR-110 offramp/9th Street. The Applicant shall coordinate with Caltrans and LADOT to develop and install signage to the northbound SR-110 freeway to direct traffic to exit south of the 9th Street offramp.

- g. Mitigation Measures, page 274, amend Mitigation Measure No. 9 as follows:
- “9. The Applicant shall enhance connections and linkages to transit. This will particularly include physical linkages to the Metro Blue Line Station at Flower Street/Pico Boulevard, as well as directional signage to bus and rail lines, and the provision of landscaped bus stops with passenger amenities, such as benches and shaded areas.”
- h. Mitigation Measures, page 274, Mitigation Measure No.10, amend as follows:
- “10. The Applicant shall install six new bus shelters throughout the Project area, at locations to be agreed between the Applicant, LADOT, and LACMTA. These shall be City standard bus shelters, at a minimum, although the Applicant may modify the design to fit in with the overall urban design/streetscape of the Project with the approval of the City.”
- i. Mitigation Measures, page 274, Mitigation Measure No.11, amend as follows:
- “11. The Applicant shall provide up to two transit information kiosks on-site (one on the Olympic Boulevard properties and one on the Figueroa Street properties) for the purpose of providing information about the available transit in the area, and of dispensing tickets/passes, if feasible.”
- j. Mitigation Measures, page 274, Mitigation Measure No.12, amend as follows:
- “12. The Applicant shall install 30-foot wide crosswalks at Figueroa Street/Olympic Boulevard, Figueroa Street/Pico Boulevard, 12<sup>th</sup> Street/Flower Street, and Pico Boulevard/Flower Street, where and as feasible.”
- k. Mitigation Measures, page 274, Mitigation Measure No.17, amend as follows:
- “17. The Applicant shall participate with Caltrans to provide one additional changeable message sign (CMS) on the freeway mainline system, if Caltrans determines it to be necessary or desirable.”
- l. Mitigation Measures, page 274, Mitigation Measure No.18, amend as follows:
- “18. The Applicant shall coordinate with Caltrans and LADOT to develop fixed and changeable signage programs to direct traffic to utilize the various different freeway off-ramps in the Project area, where necessary.”

- m. Mitigation Measures, page 275, after Mitigation Measure No. 19, add new mitigation measure as follows:
  - “20. The Applicant shall implement a minimum 2-foot or 4-foot dedication and 3-foot or 5-foot widening along the Project frontage, as necessary, to bring Olympic Boulevard up to Class II Major Highway standards, except where greater dedication and widening are needed for traffic mitigation.”
- n. Mitigation Measures, page 275, after new Mitigation Measure No. 20, add new mitigation measure as follows:
  - “21. The Applicant shall implement a minimum 2-foot dedication and 2-foot widening along the Project’s Georgia Street frontage, north of Olympic Boulevard, as necessary, to bring Georgia Street up to Collector Street standards.”
- o. Mitigation Measures, page 275, after new Mitigation Measure No. 21, add new mitigation measure as follows:
  - “22. The Applicant shall implement a minimum 2-foot dedication and 2-foot widening along the Project’s Francisco Street frontage north of Olympic Boulevard, as necessary, to bring Francisco Street up to Collector Street standards.”

## **2.PARKING**

[There are no corrections or additions to this section.]

## **3.PEDESTRIAN SAFETY**

- a. Mitigation Measures, page 304, after Mitigation Measure No. 1, add new mitigation measures as follows:
  - “2. The Applicant shall coordinate with the Los Angeles Unified School District to provide crossing guards along identified pedestrian routes to the Tenth Street Elementary School in the vicinity of the construction site during construction activities.
  - 3. Haul routes shall be established which minimize construction vehicle traffic passing by Tenth Street Elementary School.

4. Construction vehicles shall be prohibited from staging in front of either Los Angelitos Children's Center or Tenth Street Elementary School.
5. The Los Angeles Unified School District's Transportation Branch shall be provided with a construction schedule and shall be notified of the commencement of project construction. During construction, the Los Angeles Unified School District shall also be notified of any planned lane closures in the vicinity of the project.”

## **G. HAZARDOUS MATERIALS**

[There are no corrections or additions to this section.]

## **H. NOISE**

- a. Mitigation Measures, page 356, after Mitigation Measure No. 6, add new mitigation measure as follows:

“7. The Applicant shall notify residents within 800 feet of the Project construction site and in addition will publish a notice in a local newspaper as part of the Construction Management Plan notifying residents of construction activity.”

## **I. PUBLIC SERVICES**

### **1.FIRE**

- a. Mitigation Measures, page 368, amend Mitigation Measure No. 18 as follows:

“18. The Applicant shall coordinate with the South Park Event Coordinating Committee to address issues relating to vehicle and pedestrian flows during major events and to identify measures for ensuring LAFD access to the Project site, parking lots, and the immediate vicinity during the pre-event and post-event periods.”

### **2.POLICE**

- a. Mitigation Measures, page 376, amend Mitigation Measure No. 12 as follows:

“12. The Applicant shall coordinate with the South Park Event Coordinating Committee to address issues relating to vehicle and pedestrian flows during major events and to identify measures for ensuring LAPD access to the Project site, parking lots, and the immediate vicinity during the pre-event and post-event periods.”

### **3.SCHOOLS**

[There are no corrections or additions to this section.]

### **4.PARKS AND RECREATION**

- a. Mitigation Measures, page 394, Mitigation Measure No. 2, delete: “..., subject to a credit for publicly available open space uses provided by the project.”

## **J. UTILITIES**

### **1.WATER**

- a. Mitigation Measures, page 402, after Mitigation Measure No. 3, first sentence, delete: “certificates of occupancy” and replace with: “building permits”

### **2.SEWER**

- a. Project Impacts, page 408, first paragraph, amend last sentence as follows:

“However, prior to the acceptance of plans and specifications, the City of Los Angeles Bureau of Sanitation will determine if there is available sewer capacity.”

### **3.SOLID WASTE**

[There are no corrections or additions to this section.]

## **K. GEOLOGIC AND SEISMIC HAZARDS**

[There are no corrections or additions to this section.]

**L. ARCHITECTURAL/HISTORIC RESOURCES**

[There are no corrections or additions to this section.]

**V. ALTERNATIVES TO THE PROPOSED PROJECT**

[There are no corrections or additions to this section.]

**VI. GROWTH INDUCING IMPACTS OF THE PROPOSED PROJECT**

[There are no corrections or additions to this section.]

**VII. SIGNIFICANT IRREVERSIBLE ENVIRONMENTAL CHANGES**

[There are no corrections or additions to this section.]

**VIII. ORGANIZATIONS AND PERSONS CONSULTED**

[There are no corrections or additions to this section.]

**IX. REFERENCES**

[There are no corrections or additions to this section.]

**TECHNICAL APPENDICES (VOLUMES I TO III)**

[There are no corrections or additions to the Technical Appendices (Volume I to III).]

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### III. MITIGATION MONITORING AND REPORTING PROGRAM

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This Mitigation Monitoring and Reporting Plan (MMRP) has been prepared in accordance with Public Resources Code Section 21081.6, which requires a Lead or Responsible Agency that approves or carries out a project where an EIR has identified significant environmental effects to adopt a “reporting or monitoring program for the changes to the project which it has adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment.” The City of Los Angeles Planning Department is the Lead Agency for the proposed project.

This MMRP is designed to monitor implementation of all feasible mitigation measures as identified in the Final EIR for the proposed Project. Mitigation measures are indicated below and are numbered consistent with the relevant section numbering provided in the Final EIR. Each mitigation measure is listed and categorized by topic, with an accompanying discussion of the following:

- The phase of the project during which the mitigation measure should be monitored (i.e., Prior to issuance of building permit, construction, or occupancy);
- The enforcement agency (i.e., the agency with the authority to enforce the mitigation measure); and
- The monitoring agency (i.e., the agency to which mitigation reports involving feasibility, compliance, implementation, and development operation are made).

The Project Applicant shall be obligated to provide certification prior to the issuance of site or building plans that compliance with the required mitigation measures has been effected. All departments listed below are within the City of Los Angeles unless otherwise noted. The entity responsible for the implementation of all mitigation measures shall be the project Applicant unless otherwise noted.

#### LAND USE

No mitigation measures have been recommended.

## **AESTHETICS: VISUAL QUALITY**

**IV.B.1-1** The Applicant shall ensure, through appropriate postings and daily visual inspections, that no unauthorized materials (such as graffiti or posters) would be posted on any temporary construction barriers or temporary pedestrian walkways and that such temporary barriers and walkways are maintained in a visually attractive manner throughout the construction period.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**IV.B.1-2** In the Project design, the Project Applicant shall substitute vegetated surfaces for hard surfaces, which shall include 15 percent of the at-grade plaza and courtyards and 5 percent of elevated surfaces. In addition, the Project streetscape plan shall provide for additional landscape areas. The Project Applicant shall explore elimination of blacktop and the use of new coatings and integral colorants for asphalt to achieve light colored surfaces, to the extent feasible for Project development.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

## **AESTHETICS: LIGHT AND GLARE**

**IV.B.2-1** The applicant shall prepare a Lighting Plan in coordination with the Department of City Planning to establish lighting standards and guidelines.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**IV.B.2-2** To the extent feasible and consistent with the functions and uses of the Project, the following mitigation measures shall be addressed in the design of the Project's facilities:

- a. Pedestrian-level lighting shall be used adjacent to Olympic Boulevard and Figueroa, 11<sup>th</sup>, 12<sup>th</sup>, and Flower Streets.

- b. Floodlights shall be located so as to minimize impacts onto sensitive receptors.
- c. The Applicant shall coordinate with the Bureau of Street Lighting as to whether the streetlights shall be refurbished and/or reinstalled to preserve the character of the community, in addition to providing adequate lighting to motorists and pedestrians.
- d. All new lighting shall be designed to minimize glare and to prevent light impacts upon adjacent sensitive receptors.
- e. The use of highly reflective building materials for the exterior walls of the Project structures shall be minimized.
- f. Use high performance glass with high shading coefficient and low reflectivity, such as Heat Mirror or Low E type glass.
- g. Architectural and/or landscape screening elements shall be incorporated into project design so as to minimize glare impacts on adjacent sensitive receptors.
- h. Parking facilities exits shall be located and designed so as to minimize glare impacts from vehicle headlights on adjacent sensitive receptors.

**Monitoring Phase:** Prior to issuance of building permit  
**Enforcement Agency:** Department of Building and Safety  
**Monitoring Agency:** Department of Building and Safety

#### **AESTHETICS: SHADE/SHADOW**

**IV.B.3-1** To reduce shading from the Project structures on the Olympic East, Olympic North and Figueroa South Properties, design elements, including roof form, setback, building height and massing, shall be implemented (to the extent feasible and consistent with the functions and uses of the Project) to avoid shading currently unshaded off-site shadow-sensitive uses for more than three hours between the hours of 9:00 A.M. and 3:00 P.M. between late October and early April, or for more than four hours between the hours of 9:00 A.M. and 5:00 P.M. between early April and late October.

**Monitoring Phase:** Prior to issuance of building permit  
**Enforcement Agency:** Department of Building and Safety  
**Monitoring Agency:** Department of Building and Safety

## POPULATION, HOUSING, AND EMPLOYMENT

No mitigation measures have been recommended.

## DRAINAGE AND SURFACE WATER QUALITY

**IV.D.-1** Prior to construction activities on any development area, the Applicant shall prepare a master erosion control plan for that developed area, which includes detailed flood control plans, for the City of Los Angeles Department of Public Works, Bureau of Engineering. The plans shall include hydrology/hydraulic calculations and drainage improvement plans, showing quantitatively how projected storm water runoff would not exceed existing design conditions. Such plans shall be reviewed and approved by the City prior to the issuance of building permits.

**Monitoring Phase:** Construction

**Enforcement Agency:** Bureau of Engineering

**Monitoring Agency:** Bureau of Engineering

**IV.D.-2** The Applicant shall construct catch basins, roof drains, and surface parking drains connecting directly to the existing storm drain system, and any other drainage improvements, as may be required by the Bureau of Engineering.

**Monitoring Phase:** Construction

**Enforcement Agency:** Bureau of Engineering

**Monitoring Agency:** Bureau of Engineering

## AIR QUALITY

### (1) Construction

#### (a) Land Clearing/Earth-Moving

**IV.E-1** The Applicant shall secure any necessary permits from the SCAQMD.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** Department of Building and Safety

**IV.E-2** Non-toxic soil stabilizers shall be applied according to manufacturers' specifications or vegetation shall be planted on all inactive construction areas (i.e., previously graded areas inactive for 10 days or more and not scheduled for additional construction activities within 12 months) to the extent feasible.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**IV.E-3** Exposed pits (i.e., gravel, soil, dirt) with five percent or greater silt content shall be watered twice daily, enclosed, covered or treated with non-toxic soil stabilizers according to manufacturers' specifications.

**Monitoring Phase:** Construction

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** Department of Building and Safety

**IV.E-4** All other active sites shall be watered at least twice daily.

**Monitoring Phase:** Construction

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** Department of Building and Safety

**IV.E-5** All grading activities shall cease during second stage smog alerts and periods of high winds (i.e., greater than 25 mph) if soil is being transported to off-site locations and cannot be controlled by watering.

**Monitoring Phase:** Construction

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** Department of Building and Safety

**IV.E-6** All trucks hauling dirt, sand, soil, or other loose materials offsite shall be covered or wetted or shall maintain at least two feet of freeboard (i.e., minimum vertical distance between the top of the load and the top of the trailer).

**Monitoring Phase:** Construction

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** Department of Building and Safety

**IV.E-7** A construction relations officer shall be appointed by the Applicant to act as a community liaison concerning onsite construction activity, including resolution of issues related to fugitive dust generation.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**IV.E-8** Diesel fueled onsite generators shall not be used during construction of the proposed Project.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**(b) Paved Roads**

**IV.E-9** All construction roads internal to the construction site that have a traffic volume of more than 50 daily trips by construction equipment, or 150 total daily trips for all vehicles, shall be surfaced with base material or decomposed granite, or shall be paved.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**IV.E-10** Streets shall be swept if visible soil material has been carried onto adjacent public paved roads.

**Monitoring Phase:** Construction

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** Department of Building and Safety

**IV.E-11** Construction equipment shall be visually inspected prior to leaving the site and loose dirt shall be washed off with wheel washers as necessary.

**Monitoring Phase:** Construction

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** Department of Building and Safety

**(c) Unpaved Roads**

**IV.E-12** Water or non-toxic soil stabilizers shall be applied, according to manufacturers' specifications, as needed to reduce offsite transport of fugitive dust from all unpaved staging areas and unpaved road surfaces.

**Monitoring Phase:** Construction

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** Department of Building and Safety

**IV.E-13** Traffic speeds on all unpaved roads shall not exceed 15 mph.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**(d) Construction Equipment**

**IV.E-14** The Applicant shall use low emission vehicles to the extent technologically and economically feasible. This may include vehicles using alternative fuels, low sulfur diesel, diesel with particulate traps, methanol, or electricity.

**Monitoring Phase:** Construction

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** Department of Building and Safety

**IV.E-15** The Applicant shall implement the use of low emission technology to the extent technologically and economically feasible.

**Monitoring Phase:** Construction

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** Department of Building and Safety

**IV.E-16** The Applicant shall comply with applicable Proposition 65 notice requirements in the event that construction activities utilize toxic materials, or cause toxic materials to be released into the air, including if toxics are identified in the fugitive dust.

**Monitoring Phase:** Construction

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** Department of Building and Safety

**(2) Operation**

**IV.E-17** In order to reduce the long-term mobile source emissions associated with the proposed Project, the Applicant shall continue to implement transportation systems management and demand management measures and comply with SCAQMD Rule 2202, which applies to all employers who employ 250 or more persons on a full or part-time basis at a single worksite. This rule, which aims to reduce volatile organic compounds (VOCs), NO<sub>x</sub>, and CO, provides employers a menu of options that they can choose from to reduce emissions related to employee commutes.

**Monitoring Phase:** Occupancy

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** SCAQMD

**IV.E.18** The Applicant shall provide alternative refueling stations within the Project at a ratio of one per 1,000 parking spaces distributed throughout the Project as the parking is developed.

**Monitoring Phase:** Operation

**Enforcement Agency:** SCAQMD

**Monitoring Agency:** SCAQMD

**TRANSPORTATION/CIRCULATION: TRAFFIC**

**(1) Construction**

**IV.F.1-1** Prior to construction, the Applicant shall, in consultation and cooperation with the South Park Event Coordinating Committee, develop and implement a Construction Management Plan for construction of the Project. The goals of the Construction Management Plan shall be to minimize conflicts with STAPLES Center and Convention Center operations and conflicts and delays in construction of the Project.

The Construction Management Plan shall provide for the coordination of construction staging areas and traffic controls, in order to assist in the orderly flow of pedestrian and vehicular traffic in the Project area, and to/from STAPLES Center and the Convention Center events; and of labor, materials and construction vehicles to the construction site, including the staging of delivery trucks on public streets surrounding the Project site. The Construction Management Plan shall also address measures to ensure adequate access to STAPLES Center and to the Convention Center, if temporary lane closures on adjacent roadways are required.

Prior to full implementation of mitigation measures in this section, the Construction Management Plan should consider the use of temporary operational techniques (e.g., coning, temporary/changeable signs, etc.), as appropriate to the circulation needs of particular events.

**Monitoring Phase:** Pre-Construction  
**Enforcement Agency:** Department of Transportation  
**Monitoring Agency:** Department of Transportation

**IV.F.1-2** The Applicant shall be responsible for any relocation and/or modification of the existing Highway Advisory Radio system for the STAPLES Center, if required as a result of the construction of the Project.

**Monitoring Phase:** Pre-Construction  
**Enforcement Agency:** Department of Transportation  
**Monitoring Agency:** Department of Transportation

**(2) Operation**

**IV.F.1-3** Blaine Street/11<sup>th</sup> Street/SR-110 Southbound On-Ramp. The Project would create a significant traffic impact in the P.M. peak hour at this location, changing the V/C ratio from 0.831, LOS D to 0.895, LOS D. Lane re-striping or street widening of either 11<sup>th</sup> Street (westbound) or Blaine Street (southbound) is not possible at this location without taking additional right-of-way, which is not considered feasible. However, it is possible to improve the freeway on-ramp from its current one lane configuration to a two-lane configuration. The ramp would be widened to two lanes, probably involving a retaining wall on the west side. This will increase storage capacity on the on-ramp and should benefit operation of the intersection. It is also proposed to re-stripe the eastbound approach on 11<sup>th</sup> Street from the current one through lane and one shared through/right turn lane to provide one shared through/right turn lane and one exclusive right turn lane. These proposed measures would partially mitigate the impact at this location. It would improve operations at the intersection and reduce the V/C ratio from 0.895, LOS D to 0.868, LOS D, although the impact would remain significant.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-4** Cherry Street & Pico Boulevard. The Project would cause a significant impact at this location in both the P.M. peak hour and the Saturday evening peak hour. The proposed mitigation measure is to widen the northbound approach on Cherry Street at this intersection, which currently provides an exclusive left lane, one shared through/left lane, one shared through/right lane, and an exclusive right turn lane, and re-stripe to provide two exclusive left turn lanes, two through lanes, and an exclusive right turn lane. This mitigation measure would eliminate the significant impact at this intersection in both the P.M. peak hour and the Saturday evening peak hour.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-5** Georgia Street & Olympic Boulevard. The Project would cause a significant impact at this location in both the P.M. peak hour and the Saturday evening peak hour, although in both cases the level of service would remain LOS C with a V/C ratio of 0.762 in the P.M. peak hour, and 0.727 in the Saturday evening peak hour. The project mitigation measure is to widen Olympic Boulevard on the

south side of the street and re-stripe the westbound approach on Olympic Boulevard to provide a dual left turn lane, rather than the current single left turn lane. This would eliminate the impact during the Saturday evening peak hour. It would not change the LOS in the P.M. peak hour and the significant impact would remain, although the intersection would operate at LOS C, which would be an acceptable operating condition.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-6** Francisco Street & Olympic Boulevard. The Project would cause significant impacts at this intersection in both the P.M. peak hour and the Saturday evening peak hour, although in both cases the level of service would be LOS C, which would remain an acceptable operating condition. The Project proposes to install a new traffic signal at this location. The Applicant shall provide a separate traffic signal warrant analysis for review and approval by LADOT prior to installation of the signal. With the Project, the V/C ratio would be 0.704 in the P.M. peak hour, and 0.770 in the Saturday evening peak hour. The proposed mitigation measure is to widen Olympic Boulevard on the south side of the street and re-stripe the westbound approach to provide a dual left turn lane (into the Project driveway). Also, to provide a four-lane Project driveway, configured for two inbound lanes and two outbound lanes to the underground parking garage. The outbound lanes should be striped for a shared left through/right turn lane and an exclusive right turn lane. Immediately to the west of the Project driveway, provide a one lane southbound entry to the on-site surface driveway into the site. Also, re-stripe the southbound approach on Francisco Street from the current single shared left/through/right lane to one exclusive left turn lane and a shared through/right lane. These measures would partially mitigate the Saturday evening peak hour impact, reducing the V/C ratio from 0.770, LOS C to 0.747, LOS C, and would not materially change the P.M. peak hour operating condition. No further mitigation is proposed for two reasons. Firstly, LOS C would remain an acceptable operating condition. Secondly, while providing a wider exit driveway from the Project (additional exit lane) would improve the LOS, it would degrade the pedestrian environment and so is not recommended.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-7** Figueroa Street & Olympic Boulevard. The Project would cause a significant impact at this intersection in both the P.M. peak hour and the Saturday evening peak hour. In the P.M. peak hour the V/C ratio would be increased from 0.820,

LOS C to 0.993, LOS E, while in the Saturday evening peak hour it would increase from 0.604, LOS B to 0.778, LOS C. The proposed mitigation measure is to re-stripe the eastbound approach on Olympic Boulevard, which currently provides an exclusive left turn lane, three through lanes, and an exclusive right turn lane, to provide two exclusive left turn lanes, two through lanes, and a shared through/ right turn lane. Also, to widen the westbound approach on Olympic Boulevard and re-stripe the approach, which currently provides an exclusive left turn lane, two through lanes, and a shared through/right turn lane, to provide an exclusive left turn lane, three through lanes, and an exclusive right turn lane. In addition, lengthen the existing northbound left turn on Figueroa Street. These measures would fully mitigate the Saturday evening peak hour impact, reducing the V/C ratio from 0.778, LOS C to 0.656, LOS B. In the P.M. peak period, they would partially mitigate the impact and would reduce the V/C ratio from 0.993, LOS E, to 0.871, LOS D, although a significant impact would remain.

**Monitoring Phase:** Operation  
**Enforcement Agency:** Department of Transportation  
**Monitoring Agency:** Department of Transportation

**IV.F.1-8** Grand Avenue & 11<sup>th</sup> Street. The Project would cause a significant impact at this intersection in the P.M. peak hour, increasing the V/C ratio from 0.591, LOS A to 0.704, LOS C. The proposed mitigation measure is to re-stripe the westbound approach on 11<sup>th</sup> Street from one shared left/through lane and one exclusive through lane, to provide one exclusive left turn lane, and two through lanes. This measure would fully mitigate the impact at this location.

**Monitoring Phase:** Operation  
**Enforcement Agency:** Department of Transportation  
**Monitoring Agency:** Department of Transportation

**IV.F.1-9** NB SR-110 offramp/9th Street. The Applicant shall coordinate with Caltrans and LADOT to develop and install signage to the northbound SR-110 freeway to direct traffic to exit south of the 9th Street offramp.

**Monitoring Phase:** Operation  
**Enforcement Agency:** Department of Transportation  
**Monitoring Agency:** Department of Transportation

The following mitigation measures are recommended to ensure that the residential neighborhood to the west of the Harbor Freeway is protected from significant traffic and parking impacts:

**IV.F.1-10** The Applicant shall fund up to \$100,000 for studies, evaluations, and implementation of a Neighborhood Traffic Management Plan, if necessary. Such actions would be carried out under direction of the LADOT, with the participation of the Applicant. The Applicant would post a bond for the \$100,000 and monies would be released as a plan or individual measures are agreed upon and implemented. After a period of three years from the opening of the Project, the bond would be terminated and/or any unused monies returned to the Applicant. This program would include both traffic management measures, as well as the implementation of any residential permit parking district programs requested by the neighborhoods and approved by LADOT.

**Monitoring Phase:** Operation  
**Enforcement Agency:** Department of Transportation  
**Monitoring Agency:** Department of Transportation

In addition to the measures identified above that would directly mitigate and/or avoid significant impacts, the following general mitigation measures shall be implemented, which would help traffic flow in the area and lessen the magnitude of unmitigated impacts:

**IV.F.1-11** The Applicant shall enhance connections and linkages to transit. This will particularly include physical linkages to the Metro Blue Line Station at Flower Street/Pico Boulevard, as well as directional signage to bus and rail lines, and the provision of landscaped bus stops with passenger amenities such as benches and shaded areas.

**Monitoring Phase:** Operation  
**Enforcement Agency:** Department of Transportation  
**Monitoring Agency:** Department of Transportation

**IV.F.1-12** The Applicant shall install six new bus shelters throughout the project area, at locations to be agreed between the Applicant, LADOT, and LACMTA. These will be City standard bus shelters at a minimum, although the Applicant may modify the design to fit in with the overall urban design/streetscape of the Project with the approval of the City.

**Monitoring Phase:** Operation  
**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-13** The Applicant shall provide up to two transit information kiosks on-site (one on the Olympic properties and one on the Figueroa properties) for the purpose of providing information about the available transit in the area, and of dispensing tickets/passes, if feasible.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-14** The Applicant shall install 30-foot wide crosswalks at Figueroa Street/Olympic Boulevard, Figueroa Street/Pico Boulevard, 12<sup>th</sup> Street/Flower Street, and Pico Boulevard/Flower Street, where and as feasible.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-15** The Applicant shall initiate and maintain a transportation demand management program that will actively promote the use of transit and rideshare, including providing project employees and visitors with transit and rideshare information.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-16** The Applicant shall provide off-site parking for employees (to the north, east and south of the Project) along with shuttle bus service from parking locations to the Project site.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-17** The Applicant shall provide fixed signage on access/egress corridors to the project to help direct inbound traffic to parking facilities, and outbound traffic to arterials and freeway ramps, up to a total of \$25,000.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-18** The Applicant shall participate in providing up to three additional changeable message signs (CMS), if necessary, on the surface street system in the Project area, that will be linked into the existing Traffic Operations Center (TOC), that will help direct traffic and ensure smooth traffic flows during Convention Center and STAPLES Center events and during closures of 11<sup>th</sup> Street.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-19** The Applicant shall participate with Caltrans to provide one additional changeable message sign (CMS) on the freeway mainline system, if Caltrans determines it to be necessary or desirable.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-20** The Applicant shall coordinate with Caltrans and LADOT to develop fixed and changeable signage programs to direct traffic to utilize the various different freeway off-ramps in the Project area, where necessary.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-21** The Applicant shall participate in the existing South Park Event Parking & Circulation Management Plan, and the ongoing traffic management activities coordinated by the South Park Event Coordination Committee.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-22** The Applicant shall implement a minimum 2-foot or 4-foot dedication and 3-foot or 5-foot widening along the Project frontage, as necessary, to bring Olympic Boulevard up to Class II Major Highway standards, except where greater dedication and widening are needed for traffic mitigation.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-23** The Applicant shall implement a minimum 2-foot dedication and 2-foot widening along the Project's Georgia Street frontage, north of Olympic Boulevard, as necessary, to bring Georgia Street up to Collector Street standards.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.1-24** The Applicant shall implement a minimum 2-foot dedication and 2-foot widening along the Project's Francisco Street frontage north of Olympic Boulevard, as necessary, to bring Francisco Street up to Collector Street standards.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

In order to facilitate the closure of 11<sup>th</sup> Street between Georgia Street and Figueroa Street, on a regular basis outside the morning and evening peak periods, the Applicant shall implement the following improvements:

**IV.F.1-25** Develop a Traffic Control Plan, requiring LADOT approval, prior to completion and public use of the plaza to the north of 11<sup>th</sup> Street. Among the potential measures that could be included in the plan are the following (subject to the approval of LADOT):

- Implement pop-up bollards on 11<sup>th</sup> Street west of Figueroa Street and east of Georgia Street to prevent traffic entering 11<sup>th</sup> Street between Georgia and Figueroa during closure periods.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

- Add electronic signs to signal poles and signal mast arms at the intersections of 11th Street/Figueroa Street and 11th Street/Georgia Street, to indicate “No Entry,” “Turn Left,” and “Turn Right” during street closures.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

- Add changeable message signs at locations to be determined by LADOT, advising motorists of alternate routes to 11th Street during street closures. Such signs would be located in the immediate vicinity of the block of 11th Street to be closed, at the following intersections: 11th Street and Figueroa Street; Olympic Boulevard and Figueroa Street; Olympic Boulevard and Georgia Street; and 11th Street and Georgia Street.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

- Add similar signs on the street approaches to the block of 11th Street to be closed to give motorists advance warning and information of alternate routes, such as at the following locations: 11th Street, east of Flower Street; 11th Street, east of Olive Street; and Cherry Street, south of 12th Street.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

- If necessary, provide additional temporary measures, such as coning temporary traffic lanes, at the following locations: Olympic Boulevard and Figueroa Street;

Olympic Boulevard and Georgia Street; 11th Street and Georgia Street; and 11th Street and Figueroa Street.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

## **TRANSPORTATION/CIRCULATION: PARKING**

### **(1) Construction**

**IV.F.2-1** The Applicant shall develop a Construction Management Plan, which shall provide for the coordination of construction areas and the replacement of STAPLES Center parking prior to commencing construction. During Project utility relocation, existing street parking shall be retained wherever possible.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.2-2** As part of the Construction Management Plan, measures to minimize parking impacts to STAPLES Center and other land uses in the area shall be developed (for example, the provision of permanent or temporary replacement parking). Delays in construction of the Project shall be avoided to the fullest possible extent.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

### **(2) Operation**

**IV.F.2-3** The Applicant shall provide employee parking off-site to the northeast or south of the Project site in leased and/or owned spaces. The employees would be transported to the Project site by a shuttle bus system similar to that currently used for STAPLES Center employees. The off-site employee parking program would accommodate approximately 550 daytime employee spaces and 775 nighttime employee spaces.

**Monitoring Phase:** Operation  
**Enforcement Agency:** Department of Transportation  
**Monitoring Agency:** Department of Transportation

**IV.F.2-4** The Project shall participate in the South Park Event Coordinating Committee, to coordinate parking management issues.

**Monitoring Phase:** Operation  
**Enforcement Agency:** Department of Transportation  
**Monitoring Agency:** Department of Transportation

#### **TRANSPORTATION/CIRCULATION: PEDESTRIAN SAFETY**

**IV.F.3-1** The Applicant shall develop a Construction Management Plan, which shall provide for the coordination of construction areas and safe pedestrian movement throughout the Project area such that adequate and safe pedestrian access is maintained to STAPLES Center, the Convention Center and surrounding land uses during construction.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Department of Transportation  
**Monitoring Agency:** Department of Transportation

**IV.F.3-2** The Applicant shall coordinate with the Los Angeles Unified School District to provide crossing guards along identified pedestrian routes to the Tenth Street Elementary School in the vicinity of the construction site during construction activities.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Department of Transportation  
**Monitoring Agency:** Department of Transportation

**IV.F.3-3** Haul routes shall be established which minimize construction vehicle traffic passing by Tenth Street Elementary School.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.3-4** Construction vehicles shall be prohibited from staging in front of either Los Angelitos Children's Center or Tenth Street Elementary School.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.F.3-5** The Los Angeles Unified School District's Transportation Branch shall be provided with a construction schedule and shall be notified of the commencement of project construction. During construction, the Los Angeles Unified School District shall also be notified of any planned lane closures in the vicinity of the project

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

## HAZARDOUS MATERIALS

**IV.G-1** Further investigation by a registered environmental professional of the potential soil and/or groundwater contamination on 1240 South Figueroa Street (APN 5138-025-004), 844 West Olympic Boulevard (APN 5138-009-002), and 931 West Olympic Boulevard (APN 5138-005-008) shall be conducted in accordance with the RWQCB, where applicable. Any required remedial action recommended by the registered environmental professional and approved by the RWQCB for any contamination discovered during these investigations shall be fully implemented and documented.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** RWQCB

**Monitoring Agency:** RWQCB

**IV.G-2** Coordination of ongoing remediation activities with proposed Project construction shall be performed to ensure that soil cleanup is not stopped or impeded.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**IV.G-3** Removal of any asbestos-containing materials found in the only two site structures (Figueroa Central Properties) shall be conducted in accordance with the requirements of South Coast Air Quality Management District Rule 1403. Specific requirements of Rule 1403 include:

- a. Implementation of a thorough survey of the affected facility prior to issuance of permits for any demolition or renovation activity, including inspection, identification, and quantification of all friable and certain non-friable asbestos-containing materials.
- b. Surveys which include collection and analyses of representative asbestos building material samples, and quantification of these materials for asbestos abatement purposes prior to or during demolition.
- c. Notification of the SCAQMD of the intent to demolish or renovate any facility at least ten days prior to commencing with the activity.
- d. Removal of all asbestos-containing materials prior to any demolition or renovation activity that would break up, dislodge, or similarly disturb the material.
- e. Use of prescribed procedures when removing asbestos-containing materials.
- f. Placement of all collected asbestos-containing materials in leak-tight containers or wrapping.
- g. Transportation and disposal of asbestos-containing materials as required by applicable regulations.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**IV.G-4** Lead-based paint assessments of the only two remaining structures on the Project Site (Figueroa Central Properties) shall be conducted prior to issuance of permits for any demolition activity involving a particular structure. These assessments will include use of x-ray fluorescent technology to identify buildings with lead-based paint. Lead-based paint found in any buildings shall be removed and disposed of as a hazardous waste in accordance with all applicable regulations.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Department of Building and Safety  
**Monitoring Agency:** Department of Building and Safety

**IV.G-5** In the event that previously undiscovered contaminated soil or hazardous materials are encountered at the Project site during construction, identification and remediation procedures shall be developed in accordance with applicable federal, State and City regulations, which would ensure that the potential for the risk of upset would be below a level of significance.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Fire Department  
**Monitoring Agency:** Fire Department

## NOISE

### (1) Construction

**IV.H-1** On-site construction activity that generates noise in excess of 75 dBA at a distance of 50 feet shall be limited to between 7:00 A.M. and 9:00 P.M. Monday through Friday and 8:00 A.M. and 6:00 P.M. on Saturdays, unless the City extends such hours.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Department of Building and Safety  
**Monitoring Agency:** Department of Building and Safety

**IV.H-2** The Los Angeles Unified School District shall be provided with a construction schedule.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Department of Building and Safety  
**Monitoring Agency:** Department of Building and Safety; Los Angeles Unified School District

**IV.H-3** All construction equipment shall be in proper operating condition and fitted with standard factory silencing features.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Department of Building and Safety  
**Monitoring Agency:** Department of Building and Safety

**IV.H-4** Sound blankets shall be used on all construction equipment for which use of sound blankets is technically feasible.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Department of Building and Safety  
**Monitoring Agency:** Department of Building and Safety

**IV.H-5** If noise levels from construction activity are found to exceed 75 dBA at the property line of an adjacent property and construction equipment is left stationary and continuously operating for more than one day, a temporary noise barrier shall be erected between the noise source and receptor.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Department of Building and Safety  
**Monitoring Agency:** Department of Building and Safety

**IV.H-6** All construction truck traffic shall be restricted to truck routes approved by the City of Los Angeles Department of Building and Safety, which shall avoid residential areas and other sensitive receptors to the extent feasible.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Department of Building and Safety  
**Monitoring Agency:** Department of Building and Safety

**IV.H-7** The Applicant shall notify residents within 800 feet of the Project construction site and in addition will post a notice in a local newspaper as part of the Construction Management Plan notifying residents of construction activity.

**Monitoring Phase:** Construction  
**Enforcement Agency:** Department of Building and Safety  
**Monitoring Agency:** Department of Building and Safety

**(2) Operation**

**IV.H-8** Entrances and exits from parking lots in the Olympic and Figueroa Properties parking areas shall be located to minimize impact on residential, motel, or hotel units.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.H-9** As part of the *South Park Area Parking and Circulation Management Plan (PCMP)*, an operational traffic plan shall be implemented which minimizes the amount of Project generated traffic passing by sensitive receptors by providing traffic control personnel to direct departing vehicles along corridors that will have the least impact on sensitive receptors in the area.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

**IV.H-10** All events in the Central Plaza that would involve the use of public address systems shall be required to obtain a permit from the City for operating amplified sound and speech equipment.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**PUBLIC SERVICES: FIRE**

**(1) Construction**

**IV.I.1-1** The Applicant shall ensure that during construction, LAFD access will remain clear and unobstructed.

**Monitoring Phase:** Construction

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-2** Proposed roadway modifications shall be reviewed by the LAFD to assure adequate access to the Project site and adjacent uses.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-3** The DWP shall conduct a flow test prior to the issuance of building permits to determine whether the existing water system meets fire flow requirements imposed by the Fire Department for the Project. The Applicant shall undertake and complete those required improvements identified by the DWP as a result of findings of the flow test.

**Monitoring Phase:** Prior to issuance of building permits

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**(2) Operations**

**IV.I.1-4** The proposed Project shall comply with all applicable State and local codes and ordinances, and the guidelines found in the *Fire Protection and Fire Prevention Plan Element*, as well as the *Safety Element*, both of which are elements of the General Plan of the City of Los Angeles.

**Monitoring Phase:** Construction and Operation

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-5** The Applicant shall submit definitive plans and specifications to the LAFD and requirements for necessary permits shall be satisfied prior to commencement of any portion of the proposed Project.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-6** The Project shall provide access for LAFD apparatus and personnel to and into all structures shall be required. At least two different ingress/egress roads for each area, which will accommodate major fire apparatus and provide for major

evacuation during emergency situations, shall be required. Additional vehicular access may be required by the LAFD where buildings exceed 28 feet in height.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-7** The Applicant shall submit plans that show proposed access road(s) and turning area(s) for LAFD approval.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-8** Project development shall conform to the standard street dimensions shown on Department of Public Works Standard Plan D-22549.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-9** Project design shall use standard cut-corners on all street corners to permit easy turning access for LAFD vehicles.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-10** Fire lane width shall not be less than 20 feet. When a fire lane must accommodate the operation of an LAFD aerial ladder apparatus or where fire hydrants are installed, those portions shall not be less than 28 feet in width.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-11** Fire lanes, where required, and dead-ending streets shall terminate in a cul-de-sac or other approved turning area. No fire lane or dead ending street shall be greater than 700 feet in length or secondary access shall be required.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-12** All access roads, including fire lanes, shall be maintained in an unobstructed manner, and removal of obstructions shall be at the owner's expense. The entrance to all required fire lanes or required private driveways shall be posted with a sign no less than three square feet in area in accordance with Section 57.09.05. of the *Los Angeles Municipal Code*.

**Monitoring Phase:** Operation

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-13** Where above ground floors are used for residential purposes, the access requirement shall be interpreted as being the horizontal travel distance from the street, driveway, alley, or designated fire lane to the main entrance, or exit of individual units.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-14** To accommodate an LAFD apparatus, if necessary, the minimum outside radius of paved surface shall be 35 feet. An additional six feet of clear space must be maintained beyond the outside radius to a vertical point 13 feet 6 inches above the paved surface of the roadway.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-15** Where access for a given development requires accommodation of Fire Department apparatus, overhead clearance shall not be less than 14 feet.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-16** No building shall be constructed more than 150 feet from the edge of a roadway of an improved street, access road, or designated fire lane.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-17** Adequate off-site public and on-site private fire hydrants may be required. Their number and location are to be determined after the LAFD's review of the Project's plot plan. The maximum distance between fire hydrants on roads and fire lanes in a regional commercial area is 300 feet.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

**IV.I.1-18** The Applicant shall coordinate with the South Park Event Coordinating Committee to address issues relating to vehicle and pedestrian flows during major events and to identify measures for ensuring LAFD access to the Project site, parking lots, and the immediate vicinity during the pre-event and post-event periods.

**Monitoring Phase:** Prior to issuance of any certificate of occupancy

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

## **PUBLIC SERVICES: POLICE**

**IV.I.2-1** The Applicant shall ensure that during construction, LAPD access will remain clear and unobstructed.

**Monitoring Phase:** Construction

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

- IV.I.2-2** Proposed roadway modifications shall be reviewed by the LAPD to assure adequate access to the proposed Project and adjacent uses.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

- IV.I.2-3** The Applicant shall provide security features on the construction site(s), such as guards, fencing, and locked entrances.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

- IV.I.2-4** The Applicant shall submit plot plans for all proposed development to the Los Angeles Police Department's Crime Prevention Section for review and comment. Security features subsequently recommended by the LAPD shall be implemented to the extent feasible.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

- V.I.2-5** The Applicant shall file building plans with the LAPD Central Area Commanding Officer. Plans shall include access routes, floor plans, and any additional information that might facilitate prompt and efficient police response.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

- IV.I.2-6** Alarms and/or locked gates shall be installed on doorways providing public access to commercial facilities.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

**IV.I.2-7** Landscaping shall not be planted in a way that could provide cover for persons tampering with doors or windows of commercial facilities, or for persons lying in wait for pedestrians or parking garage users.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

**IV.I.2-8** Additional lighting shall be installed where appropriate, including on the Project site and in parking garages, as determined in consultation with the LAPD.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

**IV.I.2-9** Safety features shall be incorporated into project design to assure pedestrian safety, assist in controlling pedestrian traffic flows, and avoid pedestrian/vehicular conflicts on-site. Safety measures may include provision of security and traffic control personnel; approved street closures for special events or peak pedestrian activity; clearly designated, well-lighted pedestrian walkways on-site; special street and pedestrian-level lighting; physical barriers (e.g., low walls, landscaping), particularly around the perimeter of the parking garages, to direct pedestrians to specific exit locations that correspond to designated crosswalk locations on adjacent streets; guide signs for Project site-bound pedestrians approaching the site from the Pico Blue Line Metro station; and provision of an on-site bus passenger drop-off facility.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

**IV.I.2-10** The Applicant shall develop and implement a new or modified Security Plan to minimize the potential for on-site crime and the need for LAPD services. The plan would outline the security services and features to be implemented, as determined in consultation with the LAPD. The following shall be included in the plan:

- a. Provision of an on-site security force that would monitor and patrol the Project site. During operational hours, security officers shall perform pedestrian, vehicular, and/or bicycle patrols.
- b. Implementation of a video camera surveillance system and/or a closed-circuit television system;
- c. Additional security features shall be incorporated into the design of proposed parking facilities, including “spotters” for parking areas and ensuring the availability of sufficient parking either on- or off-site for all building employees and anticipated patrons and visitors;
- d. Security lighting incorporating good illumination and a minimum of dead space in the design of entryways, seating areas, lobbies, elevators, service areas, and parking areas to eliminate areas of concealment. Security lighting shall be full cutoff fixtures which minimize glare from the light source and provide light downward and inward to structures to maximize visibility;
- e. Provision of lockable doors at appropriate Project entryways, offices, retail stores, and restaurants;
- f. Installation of alarms at appropriate Project entryways and ancillary commercial structures;
- g. The City shall approve all businesses desiring to sell or allow consumption of alcoholic beverages through specific plan regulation or issuance of one or more Conditional Use Permits;
- h. Accessibility for emergency service personnel and vehicles into each structure, and provision to the Central Area Commanding Officer of detailed diagram(s) of the Project site, including access routes, unit numbers, and any information that would facilitate police response.
- i. In addition, security procedures regarding initial response, investigation, detainment of crime suspects, LAPD notification, crowd and traffic control, and general public assistance shall be outlined in the Security Plan. The plan would be subject to review by the LAPD, and any provisions pertaining to access would be subject to approval by the Los Angeles Department of Transportation.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

**IV.I.2-11** The Applicant shall develop and implement an Emergency Procedures Plan to address emergency concerns and practices. The plan shall be subject to review by the LAPD, and any provisions pertaining to access would be subject to approval by the City of Los Angeles Department of Transportation.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

**IV.I.1-12** The Applicant shall coordinate with the South Park Event Coordinating Committee to address issues relating to vehicle and pedestrian flows during major events and to identify measures for ensuring LAPD access to the Project site, parking lots, and the immediate vicinity during the pre-event and post-event periods.

**Monitoring Phase:** Prior to issuance of any certificate of occupancy

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

**IV.I.2-13** The Applicant shall complete an annual assessment of off-site Project related crime, in coordination with the LAPD, subject to the approval of the City Planning Department, and in response develop and implement additional security measures.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Police Department

**Monitoring Agency:** Police Department

## **PUBLIC SERVICES: SCHOOLS**

No mitigation measures have been recommended.

## **PUBLIC SERVICES: PARKS & RECREATION**

**IV.I.4-1** The Project shall incorporate project design features such as plazas, terraces and paseos that encourage access to a variety of open space uses for residents and visitors to the Project site.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Department of Recreation and Parks

**Monitoring Agency:** Department of Recreation and Parks

**IV.I.4-2** The Applicant shall pay or guarantee to pay required fees to the City of Los Angeles Recreation and Parks Department for the purpose of providing future parks and open space in the Central City area.,

**Monitoring Phase:** Within one year of City Council approval of the final subdivision map.

**Enforcement Agency:** Department of Recreation and Parks

**Monitoring Agency:** Department of Recreation and Parks

## **UTILITIES: WATER**

**IV.J.1-1** The Project and occupants shall adhere to all applicable DWP rules and regulations. The DWP shall be consulted regarding feasible water conservation features, including xeriscape practices (e.g. use of drought-tolerant landscaping and drip irrigation systems), which can be incorporated into the design of the project. All necessary infrastructure improvements shall be constructed to meet the requirements of the DWP.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Department of Water and Power

**Monitoring Agency:** Department of Water and Power

**IV.J.1-2** Automatic sprinkler systems shall be set to irrigate landscaping during morning or evening hours to reduce water losses from evaporation. Sprinklers shall be reset to water less often in cooler months and during the rainfall season so that water is not wasted by excessive landscape irrigation.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Water and Power

**Monitoring Agency:** Department of Water and Power

**IV.J.1-3** The DWP shall conduct a flow test prior to the issuance of certificates of occupancy to determine whether the existing water system meets fire flow requirements imposed by the Fire Department for the Project. The Applicant shall undertake and complete those required improvements identified by the DWP as a result of findings of the flow test.

**Monitoring Phase:** Prior to issuance of certificates of occupancy

**Enforcement Agency:** Department of Water and Power

**Monitoring Agency:** Department of Water and Power

**IV.J.1-4** The Applicant shall obtain a DWP Letter of Service prior to issuance of building permits.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Department of Water and Power

**Monitoring Agency:** Department of Water and Power, Department of City Planning

#### **UTILITIES: SEWER**

**IV.J.2-1** The Applicant shall comply with procedural requirements of City ordinances regulating connections to the City sewer system (e.g., Ordinance No. 166,060).

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Bureau of Sanitation

**Monitoring Agency:** Bureau of Sanitation

**IV.J.2-2** All necessary infrastructure improvements shall be constructed to meet the requirements of the Department of Public Works.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Bureau of Sanitation

**Monitoring Agency:** Bureau of Sanitation

**IV.J.2-3** The Applicant shall comply with all provisions of Ordinance No. 162,532, which reduces water consumption levels, thereby restricting wastewater flows. Water saving devices to be installed shall include low flow toilets and plumbing fixtures that prevent water loss.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Bureau of Sanitation

**Monitoring Agency:** Bureau of Sanitation

**IV.J.2-4** The Applicant shall develop and implement a construction management plan for any temporary lane closures that may be necessary (including temporary coning, signing, road striping, signalization, etc.), to assist in the orderly flow of

vehicular and pedestrian traffic in the project area, and to ensure the maintenance of adequate access to STAPLES Center and the Convention Center.

**Monitoring Phase:** Construction

**Enforcement Agency:** Department of Transportation

**Monitoring Agency:** Department of Transportation

## UTILITIES: SOLID WASTE

**IV.J.3-1** Prior to the issuance of building permits, a Recycling and Resource Recovery Plan shall be prepared to coordinate resource conservation and recycling for the Project. Prior to implementing this plan, it shall be reviewed and approved by the City of Los Angeles Department of Public Works, Solid Resources Citywide Recycling Division. The plan shall include the following:

- a. A recycling program shall be designed to reduce the amount of solid waste going to landfills, in line with the City's goals and continued efforts towards a Citywide 50 percent waste reduction rate over 1990 waste diversion levels.
- b. Measures for maximizing the recycling of demolition and construction debris, including a proposed layout for source separation of materials and recycling bins at the Project site and utilization of prospective contractor(s) specializing in demolition and construction waste management shall be implemented, to the extent feasible.
- c. Recycling bins and chutes shall be provided at appropriate locations to promote the recycling of paper, metal, glass, and other recyclable materials.
- d. An education/outreach program for all Project employees shall be instituted to reduce the output of solid waste through recycling and reduction of waste at the source.
- e. Promote recycling to patrons.

**Monitoring Phase:** Prior to issuance of building permits

**Enforcement Agency:** Bureau of Sanitation

**Monitoring Agency:** Bureau of Sanitation

**IV.J.3-2** Trash compaction facilities shall be provided in all occupied structures, where deemed feasible.

**Monitoring Phase:** Operation

**Enforcement Agency:** Bureau of Sanitation

**Monitoring Agency:** Bureau of Sanitation

**IV.J.3-3** Yard waste management techniques shall be incorporated into the maintenance of the Project, including use of drought tolerant plants and mulching or composting of regular landscape maintenance waste where appropriate.

**Monitoring Phase:** Operation

**Enforcement Agency:** Bureau of Sanitation

**Monitoring Agency:** Bureau of Sanitation

## **GEOLOGIC AND SEISMIC HAZARDS**

### **(1) Construction**

**IV.K-1** A State-certified geologist shall review all excavations for evidence indicative of faulting, or seismically-induced ground deformation. If during grading, an active fault is determined to extend through the area, appropriate building setbacks from the fault line shall be established.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

### **(2) Operation**

**IV.K-2** An assessment of the potential for subsidence at the Project site shall be conducted as part of the geotechnical evaluation.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

**IV.K-3** To assist in response to a seismic event, an emergency response and building-specific evacuation plan for Project structures shall be developed in coordination with the Los Angeles Fire Department prior to the Certificate of Occupancy being granted by the City of Los Angeles. Such information shall be disseminated to employees to reduce the potential for human injury.

**Monitoring Phase:** Prior to issuance of certificate of occupancy

**Enforcement Agency:** Fire Department

**Monitoring Agency:** Fire Department

- IV.K-4** To assist in response to a seismic event, an emergency response and building-specific evacuation diagram for Project structures shall be posted in each on-site building. Such signage shall be posted in appropriate locations to reduce the potential for injury to visitors and employees.

**Monitoring Phase:** Operation

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

## ARCHITECTURAL/HISTORIC RESOURCES

- IV.L-1** If unknown paleontological, archaeological and/or cultural materials are discovered during any grading or construction activity, work will stop in the immediate area. Upon such discoveries the contractor shall immediately notify the client and the City of Los Angeles. A paleontologist and/or archaeologist shall be consulted to determine the discovery's significance and, if necessary, formulate a mitigation plan, including avoidance alternatives, to mitigate impacts. Work can only resume in that area with the approval of the City of Los Angeles and paleontologist and/or archaeologist.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

- IV.L-2** New construction adjacent to the Variety Arts Center shall respect its historic character through conformance with the Secretary of the Interior's Standards for Treatment of Historic Properties.

**Monitoring Phase:** Prior to issuance of building permit

**Enforcement Agency:** Department of Building and Safety

**Monitoring Agency:** Department of Building and Safety

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## IV. COMMENTS AND RESPONSES TO THE DRAFT EIR

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This Section of the Final EIR consists of three required elements defined by CEQA. Section 15132 states, in part, that the Final EIR shall consist of: (b) comments and recommendations received on the Draft EIR either verbatim or in summary; (c) a list of persons, organizations, and public agencies commenting on the Draft EIR; and (d) responses of the Lead Agency to significant environmental points raised in the review and consultation process.

The Draft EIR was submitted to the State Clearinghouse, Office of Planning and Research, and circulated for public review on January 11, 2001. The 45-day public comment period required by CEQA Guidelines Section 15087 concluded on February 26, 2001. Although not required by the CEQA Guidelines, the Lead Agency accepted and considered all comments received after the closure of the comment period. The City of Los Angeles Department of City Planning received a total of 135 letters with comments pertaining to the Draft EIR. These letters included submissions from state, regional, and city agencies, as well as from organizations, private businesses, and individuals. Each comment raised in these letters is responded to in this Section of the Final EIR.

A list of all of the letters received, along with a summary of the issues addressed in each letter, is provided in the following Summary Matrix. Copies of the letters received are provided in Volume II of this Final EIR.

Of the 135 letters received by the City of Los Angeles Department of City Planning regarding the Draft EIR, 88 letters were submitted in Spanish. These letters have been translated and responded to in both English and Spanish. In addition, any other Responses to Comments referred to in the responses to these letters have also been provided in Spanish. These translations are provided in Volume III of this Final EIR.

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other	
		<b>CITY OF LOS ANGELES AGENCIES</b>																						
1	Bureau of Engineering, Land Development Group Ronald R. Olive, Manager [Inter-Departmental Correspondence]							●										●						
2	Bureau of Engineering, Environmental Group Ara Kasparian, Ph.D., Group Manager [Inter-Departmental Correspondence]				●																			
3	Department of Transportation Robert Takasaki, Senior Transportation Engineer [Inter-Departmental Correspondence]						●	●																
4	Department of Water and Power Charles C. Holloway, Supervisor Box 51111 Los Angeles, CA 90051-0100																●		●					●

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A.	B.	C.	D.	E.	F.1.	F.2.	F.3.	G.	H.	I.1.	I.2.	I.3.	I.4.	J.1.	J.2.	J.3.	K.	L.	Alternatives	Other	
			Land Use	Aesthetics	Population, Housing, Employment	Drainage/Surface Water Quality	Air Quality	Traffic	Parking	Pedestrian Safety	Hazardous Materials	Noise	Fire	Police	Schools	Parks & Recreation	Water	Sewer	Solid Waste	Geologic & Seismic Hazards	Architectural/Historic Resources			
5	Los Angeles Fire Department William R. Bamattre, Fire Chief [Inter-Departmental Correspondence]												●				●							
<b>STATE AGENCIES</b>																								
6	Governor's Office of Planning and Research, State Clearinghouse Terry Roberts 1400 Tenth Street Sacramento, CA 95812-3044																							●
7	Governor's Office of Planning and Research, State Clearinghouse Terry Roberts 1400 Tenth Street Sacramento, CA 95812-3044																							●
8	Department of Conservation Office of Governmental and Environmental Relations Kenneth E. Trott [Memorandum]										●									●				

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9	Department of Transportation, District 7 Stephen J. Buswell 120 So. Spring St. Los Angeles, CA 90012							●																
10	Department of Toxic Substances Control Harlan R. Jeché 1011 N. Grandview Avenue Glendale, CA 91201										●													
<b>OTHER CITIES AND AGENCIES</b>																								
11	Los Angeles Unified School District Joan Friedman 1449 S. San Pedro St. Los Angeles, CA 90015							●		●														
12	Los Angeles Unified School District Joan Friedman Box 512298 Los Angeles, CA 90051											●												

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A.	B.	C.	D.	E.	F.1.	F.2.	F.3.	G.	H.	I.1.	I.2.	I.3.	I.4.	J.1.	J.2.	J.3.	K.	L.	Alternatives	Other	
			Land Use	Aesthetics	Population, Housing, Employment	Drainage/Surface Water Quality	Air Quality	Traffic	Parking	Pedestrian Safety	Hazardous Materials	Noise	Fire	Police	Schools	Parks & Recreation	Water	Sewer	Solid Waste	Geologic & Seismic Hazards	Architectural/Historic Resources			
13	Metropolitan Transportation Authority Stephen G. Fox One Gateway Plaza Los Angeles, CA 90012-2952							•																
14	Southern California Association of Governments Jeffrey M. Smith, AICP 818 West Seventh St., 12th Floor Los Angeles, CA 90017-3435		•																					
<b>ORGANIZATIONS</b>																								
15	Figuroa Corridor Coalition for Economic Justice Jerilyn Lopez Mendoza 2636 Kenwood Avenue Los Angeles, CA 90007	•	•	•	•	•	•	•	•	•		•	•			•			•			•	•	
16	California ACORN Amy [Illegible] 3655 S. Grand Ave., #250 Los Angeles, CA 90007			•	•		•		•		•			•	•									•

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description																					
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17	CARECEN Angela Sanbrano 2845 W. Seventh St. Los Angeles, CA 90005-3907				●	●	●	●		●			●										●
18	City Centre Development John Vallance 725 South Figueroa St., Suite 3065 Los Angeles, CA 90017							●															
19	Clínica Monseñor Oscar A. Romero Roland Palencia 123 S Alvarado Street Los Angeles, CA 90057							●				●											●
20	Coalition for Community Health Tina Christopulos 3655 S. Grand Ave., Suite 260 Los Angeles, CA 90007				●	●	●	●				●		●									●

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other	
21	Coalition for Humane Immigrant Rights of Los Angeles Victor Narro 1521 Wilshire Blvd. Los Angeles, CA 90017				•	•	•	•		•				•										•
22	Coalition LA James Elmendorf 2500 Wilshire Boulevard, Suite 908 Los Angeles, CA 90012-2601				•	•	•	•		•				•		•								•
23	Concerned Citizens of South Central Los Angeles Juanita Tate 4707 S. Central Avenue Los Angeles, CA 90011				•	•	•	•	•	•		•		•	•	•		•						•
24	El Rescate Richard Mendez, Esq. 1340 South Bonnie Brae Los Angeles, CA 90006				•	•	•	•		•		•		•										•

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A.	B.	C.	D.	E.	F.1.	F.2.	F.3.	G.	H.	I.1.	I.2.	I.3.	I.4.	J.1.	J.2.	J.3.	K.	L.	Alternatives	Other	
			Land Use	Aesthetics	Population, Housing, Employment	Drainage/Surface Water Quality	Air Quality	Traffic	Parking	Pedestrian Safety	Hazardous Materials	Noise	Fire	Police	Schools	Parks & Recreation	Water	Sewer	Solid Waste	Geologic & Seismic Hazards	Architectural/Historic Resources			
25	Environmental Defense Jerilyn Lopez Mendoza 10951 West Pico Blvd. Los Angeles, CA 90064																							•
26	Environmental Defense Jacqueline Hamilton Jerilyn Lopez Mendoza 10951 West Pico Blvd. Los Angeles, CA 90064															•							•	•
27	Esperanza Community Housing Corporation Sister Diane Donoghue 2337 South Figueroa St. Los Angeles, CA 90007			•			•					•												
28	First United Methodist Church Francisco Canas 1010 South Flower St., #201 Los Angeles, CA 90015-1428																							•

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other
29	First United Methodist Church Francisco Canas 1010 South Flower St., #201 Los Angeles, CA 90015-1428				•	•	•	•		•		•		•									•
30	FLM Enterprises, Inc. Moise Hendeles 4601 Wilshire Blvd., Suite 205 Los Angeles, CA 90010								•														
31	LAANE Jessica Goodheart 548 South Spring St., Suite 630 Los Angeles, CA 90013-2320				•	•	•	•		•		•		•									•
32	Neighbors For An Improved Community Elizabeth Blaney 458 East 32nd Street Los Angeles, CA 90011				•	•	•	•		•		•		•									•

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A.	B.	C.	D.	E.	F.1.	F.2.	F.3.	G.	H.	I.1.	I.2.	I.3.	I.4.	J.1.	J.2.	J.3.	K.	L.	Alternatives	Other
			Land Use	Aesthetics	Population, Housing, Employment	Drainage/Surface Water Quality	Air Quality	Traffic	Parking	Pedestrian Safety	Hazardous Materials	Noise	Fire	Police	Schools	Parks & Recreation	Water	Sewer	Solid Waste	Geologic & Seismic Hazards	Architectural/Historic Resources		
33	Pico Union Heights Neighborhood Association Rudy J. Tenorio de Cordova P.O. Box 15983 Los Angeles, CA 90015				●	●	●	●				●											●
34	Pico Union/Westlake Cluster Network, Inc. Bert Saavedra Family Support Services Program Leavey Hall 1401 So. Grand Avenue Los Angeles, CA 90015				●	●	●	●		●		●		●									
35	Saint Sophia Cathedral Fr. John S. Bakas 1324 South Normandie Avenue Los Angeles, CA 90006-4310																						●
36	Saint Vincent De Paul Church Rev Juan Antonio Ruiz, CM 621 West Adams Blvd. Los Angeles, CA 90007																						●

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other
37	SAJE Gilda Haas [Illegible]				●	●	●	●		●		●		●									●
38	St. Agnes Church William J. Delaney Missionaries of the Precious Blood 2625 South Vermont Avenue Los Angeles, CA 90007-2223				●	●	●	●		●		●		●									●
39	St. John's Episcopal Church Rev. Warner R. Traynham 514 West Adams Blvd. Los Angeles, CA 90007				●	●	●	●		●		●		●									●
40	St. John's Well Child Center Jim Mangia 514 West Adams Boulevard Los Angeles, CA 90007				●	●	●	●					●	●									●

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A.	B.	C.	D.	E.	F.1.	F.2.	F.3.	G.	H.	I.1.	I.2.	I.3.	I.4.	J.1.	J.2.	J.3.	K.	L.	Alternatives	Other
			Land Use	Aesthetics	Population, Housing, Employment	Drainage/Surface Water Quality	Air Quality	Traffic	Parking	Pedestrian Safety	Hazardous Materials	Noise	Fire	Police	Schools	Parks & Recreation	Water	Sewer	Solid Waste	Geologic & Seismic Hazards	Architectural/Historic Resources		
41	The Episcopal Church of St. Philip the Evangelist Altagracia Perez 2800 Stanford Avenue Los Angeles, CA 90011				•	•	•	•				•		•									•
42	United University Church Susan Halcomb Craig Rev. Bear Ride, Peace Center Director 817 W. 34th St. Los Angeles, CA 90007-3502				•	•	•	•				•											
43	Windmill Links Environmental Fund Coalition for Community Rights Terry DuSoleil [No Address]		•		•		•	•	•	•				•	•	•	•	•			•		
<b>INDIVIDUALS</b>																							
44	Leonardo Alcantar [No Address]							•						•									•
45	Elba Alcaraz [No Address]						•	•						•									•

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46	Mario Alcaraz [No Address]							•	•					•										•
47	Claudia Del Rocio Aldana 1419 West 11th Street Los Angeles, CA 90015				•			•	•					•										•
48	Petra Alvaro [No Address]							•	•															•
49	Luis Angel 1516 S. Hope Street, #10 Los Angeles, CA 90015							•						•										•
50	Marco Antonio Arenas [No Address]				•			•	•					•										•
51	Gerado Ayala [No Address]				•				•			•		•										•
52	Elisa Balderas [No Address]							•	•															•

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other	
53	Maria Baltodano [No Address]							●	●	●				●										●
54	Mauricia Banos 1526 Hope Street, #36 Los Angeles, CA 90015							●	●					●										●
55	Carmela Bautista 1516 Hope Street, Apt. 20 Los Angeles, CA 90015				●				●					●										●
56	Gigi Bretado [No Address]				●			●	●					●										●
57	Dwight Brittinham [No Address]							●	●			●												●
58	Ignacio Calvillo [No Address]							●	●			●												●
59	[Illegible] Camacho				●			●	●			●												

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other
60	Fernando Carreto 1516 S. Hope Street, Apt. 6 Los Angeles, CA 90015								•														•
61	Jovier Cinto [No Address]				•			•	•														•
62	Gustavo Alonso Conchas [No Address]							•	•			•		•									
63	Lorena Velazquez Corral [No Address]							•	•														•
64	Alonso Tejada Cruz [No Address]				•																		•
65	Jessica and Israel Diaz [No Address]							•	•			•		•									•
66	Maria Elena [No Address]							•				•		•									•
67	Manuel Escobar [No Address]							•	•			•		•									•

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68	Cosme Espinoza [No Address]							●	●					●										●
69	Ramon Estrada 1330 W. 11th Street, #8 Los Angeles, CA 90015				●			●	●															●
70	Marcelino Estrada 845 W. Olympic Boulevard Los Angeles, CA 90015				●			●	●			●		●										●
71	Gillermina Flores [No Address]							●				●		●										●
72	Cosme Miguel Flores [No Address]								●					●										●
73	Raymundo Garcia [No Address]							●	●			●		●										●
74	Consuelo Garcia [No Address]								●															●

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other	
75	Santiago Huerta Gomez [No Address]								•					•										•
76	Jorge Gonzalez [No Address]								•			•												•
77	Carlos Diaz Gonzalez [No Address]							•	•					•										•
78	Salvador Guerrero [No Address]							•	•			•		•										•
79	Laura Gutierrez [No Address]							•	•															•
80	Benjamin Hernandez [No Address]				•			•				•												•
81	Domclica Hernandez [No Address]							•	•			•		•										•
82	Delfina Hernandez [No Address]							•	•			•		•										•

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other	
83	Eva Hernandez [No Address]							•	•					•										•
84	[Illegible] Hernandez [No Address]							•	•															•
85	Juan Huerta [No Address]							•						•										•
86	Maxi Ibane [No Address]							•	•			•		•										•
87	James B Jordan 916 Georgia Street Los Angeles, CA 90015							•				•		•										•
88	Stephanie Lee [No Address]				•			•	•			•												•
89	Laura Leon Antonio Ochoa [No Address]							•	•															•

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other	
90	Lucrecia Leon [No Address]				•			•				•		•										•
91	Rene Augusto Lopez [No Address]								•			•												•
92	[Illegible] Lopez [No Address]							•	•					•										•
93	Anselmo Lopez [No Address]								•															•
94	Carmen Luna [No Address]							•	•					•										•
95	Luisa Luna 916 James M. Wood Blvd Los Angeles, CA 90015				•			•	•			•		•										•
96	Jorge A. M. 916 W. James M. Wood, #301 Los Angeles, CA 90015							•		•		•												•

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97	Teresa Magdaleno 1516 S. Hope Street, Apt. # 1 Los Angeles, CA 90015							•	•			•		•										•
98	Alfonso Maldonado [No Address]							•	•			•												•
99	Janet Maldonado [No Address]							•				•		•										•
100	Roao Martinez [No Address]							•	•															•
101	Missy No 1100 So. Hope Street Los Angeles, Ca 90015																							•
102	Paola Ocegüera 1516 S. Hope Street, #2 Los Angeles, CA 90015							•	•			•		•										•
103	Marcos Ocegüera [No Address]			•				•				•												•

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104	Seberiana Ortiz 845 West Olympic Boulevard Los Angeles, CA 90015							●	●			●												●
105	Yungsohn Park 10405 Witton Place Los Angeles, CA 90019				●																			●
106	Freddy Perez [No Address]							●	●			●		●										●
107	Gilberto Ramon [No Address]							●	●			●		●										●
108	George Reyna 1441 S. Hope Street Los Angeles, CA 90015							●	●															●
109	Jorge Reyna [No Address]							●	●			●												●
110	Jose Reyna [No Address]							●	●			●												●

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other
111	Maria Reyna [No Address]							•	•														•
112	Ricardo Y. Narcisa Rivera [No Address]				•			•	•					•									•
113	Francisco Rodriguez [No Address]				•			•	•						•								•
114	Aljandra Rodriguez [No Address]							•	•	•		•		•									•
115	Francisco Rojas [No Address]							•	•			•		•									•
116	Lee Romero 916 Georgia Street Los Angeles, CA 90015				•			•	•			•											•
117	Leogardo Romo [No Address]							•				•		•									•
118	Doris Ruiz [No Address]							•	•					•									•

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A.	B.	C.	D.	E.	F.1.	F.2.	F.3.	G.	H.	I.1.	I.2.	I.3.	I.4.	J.1.	J.2.	J.3.	K.	L.	Alternatives	Other
			Land Use	Aesthetics	Population, Housing, Employment	Drainage/Surface Water Quality	Air Quality	Traffic	Parking	Pedestrian Safety	Hazardous Materials	Noise	Fire	Police	Schools	Parks & Recreation	Water	Sewer	Solid Waste	Geologic & Seismic Hazards	Architectural/Historic Resources		
119	Mateo Alvarez Sanchez [No Address]								•			•		•									•
120	Sandra Sandoval 950 South Flower Street, #916 Los Angeles, CA 90015	•						•	•														
121	Martha Sapien [No Address]							•	•														•
122	Carlos Jose Sato [No Address]							•	•														•
123	Lawrence Teeter 3580 Wilshire Blvd.,#1700 Los Angeles, CA 90010		•				•	•	•			•			•						•		•
124	Claudia Velasquez [No Address]			•				•						•									•
125	Jeorge Velasquez [No Address]					•	•	•						•									•

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description	A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other	
126	Mauro Victoria [No Address]							•	•															•
127	Martin Victoria [No Address]							•	•															•
128	Daniel Victoria [No Address]							•	•															•
129	Hector Zambada [No Address]							•	•															•
130	Margarita Zambada [No Address]							•	•															•
131	Jesus Zavalo 916 W. James M. Wood, #310 Los Angeles, CA 90015							•	•															•
132	Angeles [Illegible] [No Address]							•				•												•

Letter No.	LOS ANGELES SPORTS AND ENTERTAINMENT DISTRICT  SUMMARY OF WRITTEN EIR COMMENTS	Project Description																					
			A. Land Use	B. Aesthetics	C. Population, Housing, Employment	D. Drainage/Surface Water Quality	E. Air Quality	F.1. Traffic	F.2. Parking	F.3. Pedestrian Safety	G. Hazardous Materials	H. Noise	I.1. Fire	I.2. Police	I.3. Schools	I.4. Parks & Recreation	J.1. Water	J.2. Sewer	J.3. Solid Waste	K. Geologic & Seismic Hazards	L. Architectural/Historic Resources	Alternatives	Other
133	Isabelle [Illegible] 916 South Georgia Street Los Angeles, CA 90015						●	●															●
134	Ramoncho [Illegible] [No Address]		●				●				●		●										●
135	[Illegible] [No Address]						●						●										●

**FINAL ENVIRONMENTAL IMPACT REPORT**

**LOS ANGELES SPORTS AND  
ENTERTAINMENT DISTRICT**

**APPENDIX A**  
**ANALYSIS OF PRE-AND-POST CONSTRUCTION**  
**STORM WATER QUALITY**

## BACKGROUND

The Draft Environmental Impact Report (Los Angeles Arena, 2000) (DEIR) for the Los Angeles Arena project included much of the information needed to complete the analysis of pre- and post-development storm water pollutant loads. However, some critical information concerning the development was estimated from information in the DEIR as well as from other sources.

The areas and land uses required for the pre- and post-development pollutant load calculations were determined from maps and narrative descriptions provided in the DEIR and the Internet. The DEIR described the development as comprised of 27 acres divided into six areas, with three Olympic development areas and three Figueroa development areas.

The DEIR described the current land use for the project area as parking lots. This was confirmed by examining layouts of the existing Staples Center obtained on the Internet, which illustrate the parking facilities at the location of the proposed development. For post-development conditions, the distribution of land uses was not clearly illustrated in the DEIR. The DEIR described the runoff characteristics of the proposed development area as remaining similar to pre-development, and it described the new development as being comprised of hotels, office buildings, a medical center, and parking. Other Internet research into the development plans assisted in estimating the land use distribution of the proposed development.

## METHODOLOGY

The pollutant load analysis was performed using a Spreadsheet Method for estimating annual pollutant loads. Event Mean Concentrations (EMCs) are required for the calculation, and these values were derived from several published sources including the Center for Watershed Protection and a recent Los Angeles area storm water monitoring study performed by Los Angeles County. Table I presents the land use categories assigned to the pre- and post-development conditions.

Table 1. Land Use Categories

<u>Land Use</u>	<u>Land Use Category</u>
<i>Pre-development</i>	
Parking Lots	Parking Lots <sup>1,2</sup>
<i>Post-development</i>	
Parking Lots	Parking Lots <sup>1,2</sup>
Hotels	Retail/Commercial
Office Building	Retail/Commercial <sup>2</sup>
Medical Center	Retail/Commercial <sup>2</sup>
Other Retail	Retail/Commercial <sup>1</sup>

<sup>1</sup> Center for Watershed Protection, 1996

<sup>2</sup> Los Angeles County, 1999

The formula for determining the annual load (L) in pounds per acre using the Spreadsheet Method is:

$$L = [P \times P_f \times R_v / 12] \times C \times A \times 2.72$$

P is the average annual rainfall depth in inches.  $P_f$  is a correction factor for storms that produce no runoff (i.e., less than 0.2 inches).  $R_v$  is the site response to rainfall events. A is the site area in acres, and C is an average annual flow weighted pollutant concentration or an annual EMC.

The Nationwide Urban Runoff Program (NURP) (EPA, 1983) report is a traditional source of EMCs for various land-uses. However, the NURP report was completed in the 1980's and does not offer specific geographic pollutant tendencies. Therefore, many of the land uses and pollutant behaviors described within the NURP report may require updated information. Fortunately, recent storm water studies in the Los Angeles area (Los Angeles County, 1999) and the Center for Watershed Protection (1996) offer more recent and relevant EMCs. Therefore, the annual EMCs from the Los Angeles area study and the Center for Watershed Protection were used to determine the annual pollutant loads (L), and these EMCs are provided in the attached tables. Other parameters for the calculation were determined from best professional judgement. All parameter values are shown in the attached spreadsheet tables.

### SUMMARY OF RESULTS

The results of the spreadsheet analysis are shown on the attached Tables 2 and 3. Annual pollutant load analyses were performed for zinc, lead, and copper. The calculated annual loads for the post-development condition for lead and copper were reduced by 38 percent and 22 percent, respectively. The annual load of zinc increased by 10 percent.

The increased level of zinc is due to the change in land use. Some building materials, including galvanized metal, are a source of zinc in storm water runoff. This constituent increase may be addressed through the implementation of appropriate Best Management Practices, including compliance with SUSMP requirements. Implementation of appropriate Best Management Practices is expected to result in reduced pollutant levels.

**Table 2**  
**Event Mean Concentrations (EMC) Used in the**  
**Los Angeles Arena Pollutant Load Analysis**

Retail/Commercial <sup>(1)</sup>			
Constituent	Pb	Cu	Zn
1994-95	0.01	0.04	0.03
1995-96	0.02	0.05	0.03
1996-97	0.010	0.031	0.21
1997-98	0.024	0.048	0.25
1998-99	0.00597	0.028	0.25
EMC	0.02	0.038	0.15
Parking Lots <sup>(2)</sup>			
Constituent	Pb	Cu	Zn
EMC	0.028	0.051	0.139

<sup>1</sup> - LA County - Department of Public Works (1999)

<sup>2</sup> - Center For Watershed Protection (1996)

Pb = Lead

Cu = Copper

Zn = Zinc

EMC = Event Mean Concentration for Storm Years

Table 3  
Pollutant Loads Analysis for the Los Angeles Arena Project

Property ID	Landuse	Landuse		I (%)	RV (in)	P = 12.11 R = 0.9	
		Fraction of Total Area	Area of Landuse (ac)				
Olympic 1	Parking Lot	1	7.03	100	0.95		
Olympic 2	Parking Lot	1	9.52	100	0.95		
Olympic 3	Parking Lot	1	1.54	100	0.95		
Figueroa 1	Parking Lot	1	2.87	100	0.95		
Figueroa 2	Parking Lot	1	4.98	100	0.95		
Figueroa 3	Parking Lot	1	1.32	100	0.95		
		Total Area = 27.3					
Property ID	Landuse	Pb (mg/l)	Estimated Pb Pollutant Load (L-lbs)	Cu (mg/l)	Estimated Cu Pollutant Load (L-lbs)	Zn (g/l)	Estimated Zn Pollutant Load (L-lbs)
Olympic 1	Parking Lot	0.028	0.46	0.051	0.84	0.14	2.29
Olympic 2	Parking Lot	0.028	0.63	0.051	1.14	0.14	3.11
Olympic 3	Parking Lot	0.028	0.10	0.051	0.18	0.14	0.50
Figueroa 1	Parking Lot	0.028	0.19	0.051	0.34	0.14	0.94
Figueroa 2	Parking Lot	0.028	0.33	0.051	0.60	0.14	1.62
Figueroa 3	Parking Lot	0.028	0.09	0.051	0.16	0.14	0.43
Pollutant Load (lbs/yr)		Total Pb = 1.8	Total Cu = 3.3			Total Zn = 8.9	

Table 3 (cont'd)  
Pollutant Loads Analysis for the Los Angeles Arena Project

Los Angeles Arena Pollutant Loads Post-Development Conditions									
Property ID	Landuse	Landuse Fraction of Area of		Area of Landuse(ac)	I (%)	Rv (in)	Estimated Cu Pollutant Load (L-lbs)	Estimated Zn Pollutant Load (L-lbs)	Reduction
		Landuse Area	Landuse Total Area						
Olympic 1	Parking Lot	0.5	3.515	100	0.95				
Olympic 1	Retail/Commercial	0.5	3.515	100	0.95				
Olympic 2	Retail/Commercial	1	9.52	100	0.95				
Olympic 3	Retail/Commercial	1	1.54	100	0.95				
Figueroa 1	Retail/Commercial	1	2.87	100	0.95				
Figueroa 2	Retail/Commercial	1	4.98	100	0.95				
Figueroa 3	Retail/Commercial	1	1.32	100	0.95				
Total Area = 27.3									
<p>P = 2.11 Pj = 0.9</p>									
Property ID	Landuse	Ph (mg/l)	Estimated Pb Pollutant Load (L-lbs)	Cu (mg/l)	Estimated Cu Pollutant Load (L-lbs)	Zn (mg/l)	Estimated Zn Pollutant Load (L-lbs)		
Olympic 1	Parking Lot	0.028	0.23	0.051	0.4	0.14	1.1		
Olympic 1	Retail/Commercial	0.016	0.1	0.038	0.3	0.15	1.3		
Olympic 2	Retail/Commercial	0.016	0.4	0.038	0.9	0.15	3.5		
Olympic 3	Retail/Commercial	0.016	0.1	0.038	0.1	0.15	0.6		
Figueroa 1	Retail/Commercial	0.016	0.1	0.038	0.3	0.15	1.0		
Figueroa 2	Retail/Commercial	0.016	0.2	0.038	0.4	0.15	1.8		
Figueroa 3	Retail/Commercial	0.016	0.05	0.038	0.1	0.15	0.5		
Pollutant Load (lbs/yr)		Total Pb = 1.1		Total Cu = 2.6		Total Zn = 9.8			
Reduction			-38.2%						9.8%

P = Average Annual Precipitation (in) based on LAX Rainfall Record (1948-1998)

Pj = Precipitation Correction Factor (eliminates storms <0.2" which assumed negligible runoff)

I = Percent of site imperviousness

Rv = Site Response to Precipitation Events (=0.05 + 0.009\*1)

A = Total Site Area

C = Weighted Average of Pollutant Concentration

L = Estimated Total Pollutant Load = ((P\*Pj\*Rv)/12)\*C\*A\*2.72

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Pb = Lead  
Cu = Copper  
Zn = Zinc

**FINAL ENVIRONMENTAL IMPACT REPORT**

**LOS ANGELES SPORTS AND  
ENTERTAINMENT DISTRICT**

**APPENDIX B**  
**SUPPORTING FREEWAY TRAFFIC ANALYSIS**

**Table 1. Freeway Mainline Analysis - Existing Conditions (2000) - AM Peak Hour**

Freeway Segment			Northbound/Eastbound			
			AM Peak Hour			
Station	Route	Location	2000 Demand	Capacity	D/C	LOS
1003	I- 5	East of I-710	10,181	8,000	1.273	F(1)
1004	I- 5	Stadium	9,079	10,000	0.908	D
1012	I- 10	East of La Brea	13,049	9,500	1.374	F(2)
1013	I- 10	West of Vermont	17,170	12,500	1.374	F(2)
1014	I- 10	West of I-710	6,995	12,000	0.583	C
1027	SR- 60	East of Indiana	5,016	12,000	0.418	B
1036	US-101	North of Vignes	13,736	10,000	1.374	F(2)
1037	US-101	South of Santa Monica	6,937	8,000	0.867	D
1047	SR-110	Slauson	10,989	8,000	1.374	F(2)
1048	SR-110	South of US-101	6,334	8,000	0.792	D
1049	SR-110	Alpine	4,467	6,000	0.745	C
1050	SR-110	Pasadena	2,981	6,000	0.497	B

Freeway Segment			Southbound/Westbound			
			AM Peak Hour			
Station	Route	Location	2000 Demand	Capacity	D/C	LOS
1003	I- 5	East of I-710	6,804	8,000	0.851	D
1004	I- 5	Stadium	13,736	10,000	1.374	F(2)
1012	I- 10	East of La Brea	10,181	8,000	1.273	F(1)
1013	I- 10	West of Vermont	17,170	12,500	1.374	F(2)
1014	I- 10	West of I-710	11,240	12,000	0.937	F
1027	SR- 60	East of Indiana	16,483	12,000	1.374	F(2)
1036	US-101	North of Vignes	5,119	8,000	0.640	C
1037	US-101	South of Santa Monica	10,989	8,000	1.374	F(2)
1047	SR-110	Slauson	8,080	8,000	1.010	F(0)
1048	SR-110	South of US-101	10,989	8,000	1.374	F(2)
1049	SR-110	Alpine	8,242	6,000	1.374	F(2)
1050	SR-110	Pasadena	8,242	6,000	1.374	F(2)

**Table 2. Freeway Mainline Analysis - Future Without Project Conditions (2008) - AM Peak Hour**

Freeway Segment			Northbound/Eastbound			
			AM Peak Hour			
Station	Route	Location	2008 Demand	Capacity	D/C	LOS
1003	I- 5	East of I-710	11,024	8,000	1.378	F(2)
1004	I- 5	Stadium	9,831	10,000	0.983	E
1012	I- 10	East of La Brea	14,130	9,500	1.487	F(3)
1013	I- 10	West of Vermont	18,593	12,500	1.487	F(3)
1014	I- 10	West of I-710	7,575	12,000	0.631	C
1027	SR- 60	East of Indiana	5,431	12,000	0.453	B
1036	US-101	North of Vignes	14,874	10,000	1.487	F(3)
1037	US-101	South of Santa Monica	7,511	8,000	0.939	E
1047	SR-110	Slauson	11,899	8,000	1.487	F(3)
1048	SR-110	South of US-101	6,859	8,000	0.857	D
1049	SR-110	Alpine	4,837	6,000	0.806	D
1050	SR-110	Pasadena	3,227	6,000	0.538	B
Freeway Segment			Southbound/Westbound			
			AM Peak Hour			
Station	Route	Location	2008 Demand	Capacity	D/C	LOS
1003	I- 5	East of I-710	7,368	8,000	0.921	D
1004	I- 5	Stadium	14,874	10,000	1.487	F(3)
1012	I- 10	East of La Brea	11,024	8,000	1.378	F(2)
1013	I- 10	West of Vermont	18,593	12,500	1.487	F(3)
1014	I- 10	West of I-710	12,172	12,000	1.014	F(0)
1027	SR- 60	East of Indiana	17,849	12,000	1.487	F(3)
1036	US-101	North of Vignes	5,543	8,000	0.693	C
1037	US-101	South of Santa Monica	11,899	8,000	1.487	F(3)
1047	SR-110	Slauson	8,749	8,000	1.094	F(0)
1048	SR-110	South of US-101	11,899	8,000	1.487	F(3)
1049	SR-110	Alpine	8,924	6,000	1.487	F(3)
1050	SR-110	Pasadena	8,924	6,000	1.487	F(3)

**Table 3. Freeway Mainline Analysis - Future With Project Conditions (2008) - AM Peak Hour**

Freeway Segment			Northbound/Eastbound							
			AM Peak Hour							
			2008 Demand			Capacity	D/C	LOS	Change in D/C	Significant Impact
Without Project	Project Volume	With Project								
Station	Route	Location	Without Project	Project Volume	With Project	Capacity	D/C	LOS	Change in D/C	Significant Impact
1003	I- 5	East of I-710	11,024	19	11,043	8,000	1.380	F(2)	0.002	No
1004	I- 5	Stadium	9,831	28	9,859	10,000	0.986	E	0.003	No
1012	I- 10	East of La Brea	14,130	65	14,195	9,500	1.494	F(3)	0.007	No
1013	I- 10	West of Vermont	18,593	74	18,667	12,500	1.493	F(3)	0.005	No
1014	I- 10	West of I-710	7,575	17	7,592	12,000	0.633	C	0.001	No
1027	SR- 60	East of Indiana	5,431	17	5,448	12,000	0.454	B	0.001	No
1036	US-101	North of Vignes	14,874	9	14,883	10,000	1.488	F(3)	0.001	No
1037	US-101	South of Santa Monica	7,511	22	7,533	8,000	0.942	E	0.003	No
1047	SR-110	Slauson	11,899	65	11,964	8,000	1.496	F(3)	0.008	No
1048	SR-110	South of US-101	6,859	83	6,942	8,000	0.868	D	0.010	No
1049	SR-110	Alpine	4,837	55	4,892	6,000	0.815	D	0.009	No
1050	SR-110	Pasadena	3,227	28	3,255	6,000	0.543	C	0.005	No
Freeway Segment			Southbound/Westbound							
			AM Peak Hour							
			2008 Demand			Capacity	D/C	LOS	Change in D/C	Significant Impact
Without Project	Project Volume	With Project								
Station	Route	Location	Without Project	Project Volume	With Project	Capacity	D/C	LOS	Change in D/C	Significant Impact
1003	I- 5	East of I 710	7,368	11	7,379	8,000	0.922	D	0.001	No
1004	I- 5	Stadium	14,874	46	14,920	10,000	1.492	F(3)	0.005	No
1012	I- 10	East of La Brea	11,024	39	11,063	8,000	1.383	F(2)	0.005	No
1013	I- 10	West of Vermont	18,593	44	18,637	12,500	1.491	F(3)	0.004	No
1014	I- 10	West of I-710	12,172	28	12,200	12,000	1.017	F(0)	0.002	No
1027	SR- 60	East of Indiana	17,840	28	17,877	12,000	1.490	F(3)	0.002	No
1036	US-101	North of Vignes	5,543	6	5,549	8,000	0.694	C	0.001	No
1037	US-101	South of Santa Monica	11,899	37	11,936	8,000	1.492	F(3)	0.005	No
1047	SR-110	Slauson	8,749	39	8,788	8,000	1.099	F(0)	0.005	No
1048	SR-110	South of US-101	11,899	139	12,038	8,000	1.505	F(3)	0.017	No
1049	SR-110	Alpine	8,924	93	9,017	6,000	1.503	F(3)	0.016	No
1050	SR-110	Pasadena	8,924	46	8,970	6,000	1.495	F(3)	0.008	No

**Table 4. Freeway Mainline Analysis - Existing Conditions (2000) - PM Peak Hour**

Freeway Segment			Northbound/Eastbound			
			PM Peak Hour			
Station	Route	Location	2000 Demand	Capacity	D/C	LOS
1003	I- 5	East of I-710	5,774	8,000	0.722	C
1004	I- 5	Stadium	12,726	10,000	1.273	F(1)
1012	I- 10	East of La Brea	14,009	9,500	1.475	F(3)
1013	I- 10	West of Vermont	18,433	12,500	1.475	F(3)
1014	I- 10	West of I-710	12,241	12,000	1.020	F(0)
1027	SR- 60	East of Indiana	15,271	12,000	1.273	F(1)
1036	US-101	North of Vignes	6,424	10,000	0.642	C
1037	US-101	South of Santa Monica	10,989	8,000	1.374	F(2)
1047	SR-110	Slauson	8,161	8,000	1.020	F(0)
1048	SR-110	South of US-101	11,797	8,000	1.475	F(3)
1049	SR-110	Alpine	8,848	6,000	1.475	F(3)
1050	SR-110	Pasadena	6,060	6,000	1.010	F(0)
Freeway Segment			Southbound/Westbound			
			PM Peak Hour			
Station	Route	Location	2000 Demand	Capacity	D/C	LOS
1003	I- 5	East of I-710	10,989	8,000	1.374	F(2)
1004	I- 5	Stadium	8,901	10,000	0.890	D
1012	I- 10	East of La Brea	10,989	8,000	1.374	F(2)
1013	I- 10	West of Vermont	17,170	12,500	1.374	F(2)
1014	I- 10	West of I-710	7,785	12,000	0.649	C
1027	SR- 60	East of Indiana	6,388	12,000	0.532	B
1036	US-101	North of Vignes	10,989	8,000	1.374	F(2)
1037	US-101	South of Santa Monica	10,181	8,000	1.273	F(1)
1047	SR-110	Slauson	8,410	8,000	1.051	F(0)
1048	SR-110	South of US-101	10,989	8,000	1.374	F(2)
1049	SR-110	Alpine	8,242	6,000	1.374	F(2)
1050	SR-110	Pasadena	3,557	8,000	0.593	C

**Table 5. Freeway Mainline Analysis - Future Without Project Conditions (2008) - PM Peak Hour**

Freeway Segment			Northbound/Eastbound			
			PM Peak Hour			
Station	Route	Location	2008 Demand	Capacity	D/C	LOS
1003	I- 5	East of I-710	6,253	8,000	0.782	D
1004	I- 5	Stadium	13,780	10,000	1.378	F(2)
1012	I- 10	East of La Brea	15,169	9,500	1.597	F(3)
1013	I- 10	West of Vermont	19,960	12,500	1.597	F(3)
1014	I- 10	West of I-710	13,255	12,000	1.105	F(0)
1027	SR- 60	East of Indiana	16,537	12,000	1.378	F(2)
1036	US-101	North of Vignes	6,956	10,000	0.696	C
1037	US-101	South of Santa Monica	11,899	8,000	1.487	F(3)
1047	SR-110	Slauson	8,837	8,000	1.105	F(0)
1048	SR-110	South of US-101	12,774	8,000	1.597	F(3)
1049	SR-110	Alpine	9,581	6,000	1.597	F(3)
1050	SR-110	Pasadena	6,562	6,000	1.094	F(0)
Freeway Segment			Southbound/Westbound			
			PM Peak Hour			
Station	Route	Location	2008 Demand	Capacity	D/C	LOS
1003	I- 5	East of I-710	11,899	8,000	1.487	F(3)
1004	I- 5	Stadium	9,639	10,000	0.964	E
1012	I- 10	East of La Brea	11,899	8,000	1.487	F(3)
1013	I- 10	West of Vermont	18,593	12,500	1.487	F(3)
1014	I- 10	West of I-710	8,430	12,000	0.703	C
1027	SR- 60	East of Indiana	6,918	12,000	0.576	C
1036	US-101	North of Vignes	11,899	8,000	1.487	F(3)
1037	US-101	South of Santa Monica	11,024	8,000	1.378	F(2)
1047	SR-110	Slauson	9,107	8,000	1.138	F(0)
1048	SR-110	South of US-101	11,899	8,000	1.487	F(3)
1049	SR-110	Alpine	8,924	6,000	1.487	F(3)
1050	SR-110	Pasadena	3,852	6,000	0.642	C

**Table 6. Freeway Mainline Analysis - Future With Project Conditions (2008) - PM Peak Hour**

Freeway Segment			Northbound/Eastbound							
			2008 Demand			Capacity	D/C	LOS	Change in D/C	Significant Impact
			Without Project	Project Volume	With Project					
Station	Route	Location	Without Project	Project Volume	With Project	Capacity	D/C	LOS	Change in D/C	Significant Impact
1003	I-5	East of I-710	6,253	38	6,291	8,000	0.786	D	0.005	No
1004	I-5	Stadium	13,780	87	13,867	10,000	1.387	F(2)	0.009	No
1012	I-10	East of La Brea	15,169	132	15,301	9,500	1.611	F(3)	0.014	No
1013	I-10	West of Vermont	19,960	151	20,111	12,500	1.609	F(3)	0.012	No
1014	I-10	West of I-710	13,255	52	13,307	12,000	1.109	F(0)	0.004	No
1027	SR-60	East of Indiana	16,537	52	16,589	12,000	1.382	F(2)	0.004	No
1036	US-101	North of Vignes	6,956	19	6,975	10,000	0.697	C	0.002	No
1037	US-101	South of Santa Monica	11,899	69	11,968	8,000	1.496	F(3)	0.009	No
1047	SR-110	Slauson	8,837	132	8,969	8,000	1.121	F(0)	0.017	No
1048	SR-110	South of US-101	12,774	260	13,034	8,000	1.629	F(3)	0.033	Yes
1049	SR-110	Alpine	9,581	173	9,754	6,000	1.626	F(3)	0.029	Yes
1050	SR-110	Pasadena	6,562	87	6,649	6,000	1.108	F(0)	0.015	No
Freeway Segment			Southbound/Westbound							
			2008 Demand			Capacity	D/C	LOS	Change in D/C	Significant Impact
			Without Project	Project Volume	With Project					
Station	Route	Location	Without Project	Project Volume	With Project	Capacity	D/C	LOS	Change in D/C	Significant Impact
1003	I-5	East of I-710	11,899	35	11,934	8,000	1.492	F(3)	0.004	No
1004	I-5	Stadium	9,639	94	9,733	10,000	0.973	E	0.009	No
1012	I-10	East of La Brea	11,899	121	12,020	8,000	1.503	F(3)	0.015	No
1013	I-10	West of Vermont	18,593	138	18,731	12,500	1.498	F(3)	0.011	No
1014	I-10	West of I-710	8,430	56	8,486	12,000	0.707	C	0.005	No
1027	SR-60	East of Indiana	6,918	56	6,974	12,000	0.581	C	0.005	No
1036	US-101	North of Vignes	11,899	17	11,916	8,000	1.490	F(3)	0.002	No
1037	US-101	South of Santa Monica	11,024	75	11,099	8,000	1.387	F(2)	0.009	No
1047	SR-110	Slauson	9,107	121	9,228	8,000	1.154	F(0)	0.015	No
1048	SR-110	South of US-101	11,899	282	12,181	8,000	1.523	F(3)	0.035	Yes
1049	SR-110	Alpine	8,924	188	9,112	6,000	1.519	F(3)	0.031	Yes
1050	SR-110	Pasadena	3,852	94	3,946	6,000	0.658	C	0.016	No

**Table 7. Freeway Mainline Analysis - Future With Project Conditions (2008) - Daily**

Freeway Segment			Northbound/Eastbound		
			Existing Volume	Future Without Project Volume	Future With Project Volume
Station	Route	Location	Existing Volume	Future Without Project Volume	Future With Project Volume
1003	I- 5	East of I-710	113,231	122,613	123,091
1004	I- 5	Stadium	140,009	151,609	152,803
1012	I- 10	East of La Brea	145,874	157,961	159,633
1013	I- 10	West of Vermont	162,706	176,187	178,098
1014	I- 10	West of I-710	2,907	3,148	3,865
1027	SR- 60	East of Indiana	102,520	111,015	111,732
1036	US-101	North of Vignes	108,131	117,090	117,329
1037	US-101	South of Santa Monica	114,251	123,718	124,674
1047	SR-110	Slauson	148,935	161,275	162,947
1048	SR-110	South of US-101	153,015	165,693	169,276
1049	SR-110	Alpine	84,668	91,684	94,073
1050	SR-110	Pasadena	66,307	71,800	72,994

Freeway Segment			Southbound/Westbound		
			Existing Volume	Future Without Project Volume	Future With Project Volume
Station	Route	Location	Existing Volume	Future Without Project Volume	Future With Project Volume
1003	I- 5	East of I-710	113,231	122,613	123,091
1004	I- 5	Stadium	140,009	151,609	152,803
1012	I- 10	East of La Brea	145,874	157,961	159,633
1013	I- 10	West of Vermont	162,706	176,187	178,098
1014	I- 10	West of I-710	2,907	3,148	3,865
1027	SR- 60	East of Indiana	102,520	111,015	111,732
1036	US-101	North of Vignes	108,131	117,090	117,329
1037	US-101	South of Santa Monica	114,251	123,718	124,674
1047	SR-110	Slauson	148,935	161,275	162,947
1048	SR-110	South of US-101	153,015	165,693	169,276
1049	SR-110	Alpine	84,668	91,684	94,073
1050	SR-110	Pasadena	66,307	71,800	72,994

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**Table 8. Freeway Ramp Analysis - Existing Conditions (2000)**

Location	AM Peak Hour			PM Peak Hour				
	2000 Demand	Capacity	D/C	LOS	2000 Demand	Capacity	D/C	LOS
EB I-10 Off at Hoover <sup>2</sup>	992	1,600	0.620	C	555	1,600	0.347	A
WB I-10 Off at Los Angeles <sup>1,4</sup>	1,157	1,600	0.723	C	647	1,600	0.405	B
NB I-110 Off at Adams <sup>3</sup>	341	1,600	0.213	A	191	1,600	0.119	A
NB I-110 Off at Pico <sup>5</sup>	737	1,600	0.460	B	732	1,600	0.457	B
NB I-110 Off at 9th <sup>5</sup>	1,824	1,600	1.140	F(0)	1,047	1,600	0.654	C

1. PM Peak Hour, TMG, 1999
2. Daily, Caltrans 1998 Book, 1993. AM Peak Hour & PM Peak Hour estimated based on percentages from Caltrans data.
3. Daily, Caltrans 1998 Book, 1997. AM Peak Hour & PM Peak Hour estimated based on percentages from Caltrans data.
4. AM Peak Hour and PM Peak Hour, Estimated from TMG 1999 Data. Percentage based on Caltrans Data
5. All time periods, Caltrans Hourly Data, 1997

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**Table 9. Freeway Ramp Analysis - Future Without Project Conditions (2008)**

Location	AM Peak Hour				PM Peak Hour			
	2008 Total Demand	Capacity	D/C	LOS	2008 Total Demand	Capacity	D/C	LOS
EB I-10 Off at Hoover	1,084	1,600	0.678	C	613	1,600	0.383	B
WB I-10 Off at Los Angeles	1,400	1,600	0.875	D	868	1,600	0.543	C
NB I-110 Off at Adams	369	1,600	0.231	A	206	1,600	0.129	A
NB I-110 Off at Pico	847	1,600	0.529	B	348	1,600	0.530	B
NB I-110 Off at 9th	2,211	1,600	1.382	F(2)	1,403	1,600	0.877	D

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**Table 10. Freeway Ramp Analysis - Future With Project Conditions (2008) - AM Peak**

Location	Demand			Capacity	D/C	LOS	Change in D/C	Significant Impact
	Future Without Project	LAED Project Trips	Future With Project					
EB I-10 Off at Hoover	1,084	27	1,111	1,600	0.695	C	0.017	No
WB I-10 Off at Los Angeles	1,400	54	1,454	1,600	0.909	D	0.034	No
NB I-110 Off at Adams	369	0	369	1,600	0.231	A	0.000	No
NB I-110 Off at Pico	847	38	885	1,600	0.553	C	0.024	No
NB I-110 Off at 9th	2,211	51	2,262	1,600	1.414	F(2)	0.032	Yes

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**Table 11. Freeway Ramp Analysis - Future With Project Conditions (2008) - PM Peak**

Location	Demand			Capacity	D/C	LOS	Change in D/C	Significant Impact
	Future Without Project	LAED Project Trips	Future With Project					
EB I-10 Off at Hoover	613	54	667	1,600	0.417	B	0.034	No
WB I-10 Off at Los Angeles	866	109	977	1,600	0.611	C	0.068	No
NB I-110 Off at Adams	206	0	206	1,600	0.129	A	0.000	No
NB I-110 Off at Pico	848	78	926	1,600	0.579	C	0.049	No
NB I-110 Off at 9th	1,403	103	1,506	1,600	0.941	E	0.064	No

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**Table 12. Freeway Ramp Analysis - Daily Traffic Volumes**

Location	Existing Volumes	Future Without Project Volumes	Future With Project Volumes
EB I-10 Off at Hoover	10,185	11,318	12,004
WB I-10 Off at Los Angeles	11,918	16,920	18,303
NB I-110 Off at Adams	3,503	3,793	3,793
NB I-110 Off at Pico	8,964	11,052	12,043
NB I-110 Off at 9th	19,344	27,413	28,722

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