

SECTION 4.0

ALTERNATIVES TO THE PROPOSED PROJECT

This section of the draft *Master Environmental Impact Report (Master EIR)* describes alternatives to the proposed *Arroyo Seco Master Plan* (proposed project). Alternatives have been analyzed consistent with the recommendations of Section 15126.6 of the State of California Environmental Quality Act (State CEQA) Guidelines, which require evaluation of a range of reasonable alternatives to the project, or to the location of the project, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and evaluate the comparative merits of the alternatives. The discussion of alternatives is intended to focus on (1) alternatives to the project or its location that are capable of avoiding or substantially lessening any significant effects that a project may have on the environment; (2) alternatives capable of accomplishing most of the basic purposes of the project and could avoid or substantially lessen one or more of the significant effects; (3) the provision of sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the proposed project (a matrix displaying the major characteristics and significant effects of each alternative may be used to summarize the comparison); (4) the aNo Project@ analysis of what would be reasonably expected to occur in the foreseeable future if the project were not approved, from which an environmentally superior alternative must be selected in addition to the No Project Alternative.

The analysis of alternatives should be limited to those that the lead agency determines could feasibly attain most of the basic objectives of the project. The State CEQA Guidelines describe feasibility as being dependent on site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or regulatory limitations, and jurisdictional boundaries.

Alternatives addressed in this draft *Master EIR* were derived from work undertaken by the City of Pasadena and from comments that were received in response to the Notice of Availability and the comments provided by interested parties that attended the scoping meeting. The resulting range of alternatives considered includes the following:

- ?? **No Project Alternative**
- ?? **Oak Grove Multi-Use Play Field Alternative**
- ?? **East/West Parking Solution Alternative**
- ?? **East Side Parking Solution Alternative**
- ?? **No Impact on Designated Critical Habitat Alternative**

The ability of each of the alternatives to achieve most of the basic objectives of the project has been evaluated in relation to the statement of objectives described in Section 2.2 of this *Master EIR*. A summary of the ability of the proposed project and alternatives under consideration to meet the objectives of the project is presented in Table 4.0-1, *Summary of Proposed Project and Alternatives= Ability to Attain Project Objectives*. Although it is not capable of meeting most of the basic objectives of the proposed project, the No Project Alternative has been carried forward for detailed analysis, as required by the CEQA.

**TABLE 4.0-1
SUMMARY OF PROPOSED PROJECT AND ALTERNATIVES' ABILITY TO ATTAIN PROJECT
OBJECTIVES**

Alternatives Objectives	Proposed Project	No Project	Oak Grove Multi-Use Play Field	East/West Parking Solutions	Eastside Parking Solutions	No Impact on Designated Critical Habitat
1. Implement Proposition A funding for Hahamongna Watershed Park						
	Yes	No	Yes	Yes	Yes	Yes
2. Implement Proposition A funding for projects in the Lower Arroyo Seco						
	Yes	No	Yes	Yes	Yes	Yes
3. Achieve restoration/conservation of the natural environment						
	Yes	No	Yes	Yes	Yes	Conservation - Yes Restoration - No
4. Conserve a living cultural history of the region compatible with designated recreation uses						
	Yes	Yes	Yes	Yes	Yes	Yes
5. Development and rehabilitation of Hahamongna Watershed Park consistent with the County of Los Angeles Department of Public Works flood control easement						
	Yes	No	Yes	Yes	Yes	No
6. Operate and maintain flood control facilities to provide protection to downstream structures, neighborhoods, and communities from a capital storm event						
	Yes	Yes	Yes	Yes	Yes	No
7. Optimize water conservation in the Arroyo Seco to serve City of Pasadena enterprises and residents						
	Yes	No	Yes	Yes	Yes	No

**TABLE 4.0-1
SUMMARY OF PROPOSED PROJECT AND ALTERNATIVES' ABILITY TO ATTAIN PROJECT OBJECTIVES**

Alternatives Objectives	Proposed Project	No Project	Oak Grove Multi-Use Play Field	East/West Parking Solutions	Eastside Parking Solutions	No Impact on Designated Critical Habitat
8. Continue to operate the Rose Bowl as a premiere sporting event venue						
	Yes	Yes	Yes	Yes	Yes	Yes
9. Develop a traffic management plan for the Central Arroyo Seco that incorporates a Rose Bowl shuttle route, including safety measures for recreational users						
	Yes	No	Yes	Yes	Yes	Yes
10. Provide recreation facilities and programs to meet existing and 2020 planning horizon projected levels of demand						
	Yes	No	No	Yes	Yes	No
11. Update the Arroyo Seco Public Lands Ordinance						
	Yes	No	Yes	Yes	Yes	No
12. Provide a multi-modal trail connection to the Rim of the Valley Trail and maintain connection to the Pacific Crest Trail and the County of Los Angeles Riding and Hiking Trails						
	Yes	No	Yes	Yes	Yes	No
13. Enhance the existing internal system of trails to serve passive and active recreation uses within the Arroyo Seco						
	Yes	No	Yes	Yes	Yes	Partial
14. Implement recreation improvements consistent with the County of Los Angeles Sheriff's Department Crime Prevention through Environmental Design Guidelines						

**TABLE 4.0-1
SUMMARY OF PROPOSED PROJECT AND ALTERNATIVES' ABILITY TO ATTAIN PROJECT OBJECTIVES**

Alternatives Objectives	Proposed Project	No Project	Oak Grove Multi-Use Play Field	East/West Parking Solutions	Eastside Parking Solutions	No Impact on Designated Critical Habitat
	Yes	No	Yes	Yes	Yes	Yes
15. Provide for new revenue-generating park facilities						
	Yes	No	Yes	Yes	Yes	Yes
16. Develop a maintenance plan for existing park facilities						
	Yes	No	Yes	Yes	Yes	Yes
17. Provide Americans with Disabilities Act (ADA) access for most of the facilities						
	Yes	No	Yes	Yes	Yes	Yes

4.1 ALTERNATIVE 1: NO PROJECT

Under the No Project Alternative, the existing conditions described in this document would remain unchanged. Although it is not capable of meeting many of the basic objectives of the proposed project, the No Project Alternative has been carried forward for detailed analysis, as required by CEQA. The No Project Alternative is depicted in Figure 4.1-1a, *Alternative 1: Hahamongna Watershed Park Master Plan - No Project*, Figure 4.1-1b, *Alternative 1: Central Arroyo Seco Master Plan - No Project*, and Figure 4.1-1c, *Alternative 1: Lower Arroyo Seco Master Plan - No Project*.

4.1.1 Objectives

The No Project Alternative is not capable of meeting many of the basic objectives of the project. There would be no pedestrian and trail improvements within the three elements of the proposed project. There would be no new parking structures or parking opportunities. Landscaping improvements would be eliminated. There would be no new passive or active recreational opportunities, which include the new lakes, trail improvements, or new multi-use fields, as well as overnight camping and picnic facilities. Opportunities for water conservation, flood control rehabilitation, and habitat restoration would be eliminated given the No Project Alternative. Furthermore, the No Project Alternative would eliminate the opportunities to provide American with Disabilities Act (ADA) access for most of the existing facilities.

4.1.2 Construction Scenario

Under the No Project Alternative, no clearing, grubbing and/or grading would take place.

4.1.3 Comparative Impacts

Aesthetics

The No Project Alternative avoids potential impacts to aesthetics that could result from the implementation of the master plan. While there are no designated scenic vistas in the Arroyo Seco, the open space corridor provided by the Arroyo Seco, which runs from the upper reaches in the Angeles National Forest south to the city's southern boundary, is considered to be one of the most scenic areas in the region. In addition, the *City of Pasadena Comprehensive General Plan*¹ contains a Scenic Highway diagram that depicts Linda Vista Avenue and the Foothill Freeway as Los Angeles County Recommended Scenic Highways (unofficial). Unlike the proposed project, this alternative would not include the construction of a parking structure in the Upper Arroyo. Section 3.1, *Aesthetics*, of this *Master EIR* provides mitigation for short-term construction impacts and long-term impacts that would occur as a result of the proposed project. Unlike the proposed project, this alternative would entail no construction or paving, and implementation of mitigation measures would not be required. The No Project alternative would not result in short-term or long-term impacts to aesthetics.

¹ City of Pasadena, Planning Division, 1994. *City of Pasadena Comprehensive General Plan*. Contact: Community Planning Section, 175 North Garfield Avenue, Pasadena, CA 91109-7215.

Air Quality

The No Project Alternative avoids potential impacts to air quality that could result from the implementation of the master plan. This alternative would entail no construction or paving, and implementation of mitigation measures from the proposed project would not be required.

Biological Resources

The No Project Alternative avoids potential impacts to biological resources that could result from the implementation of the proposed project. This alternative would entail no construction or paving, and implementation of mitigation measures from the proposed project would not be required. Additionally, the area would not have the benefit of the habitat conservation measures in the proposed project.

Cultural Resources

The No Project Alternative avoids potential impacts to cultural resources that could result from the implementation of the proposed project. No cultural resources within the Arroyo Seco would be impacted. This alternative would entail no construction or paving, and implementation of mitigation measures from the proposed project would not be required.

Geology and Soils

The No Project Alternative avoids potential impacts to geology and soils that could result from the implementation of the proposed project. This alternative would entail no construction or paving, and implementation of mitigation measures from the proposed project would not be required.

Hazards and Hazardous Materials

The No Project Alternative avoids potential impacts to hazards and hazardous materials that could result from the implementation of the master plan. This alternative would entail no construction or paving, and implementation of mitigation measures from the proposed project would not be required.

Hydrology and Water Quality

Unlike the proposed project, the No Project Alternative would not be able to provide water conservation or landscaping opportunities. The No Project Alternative would not increase the amount of impervious surfaces on the project site. This alternative would avoid impacts related to hydrology and water quality expected to result from implementation of the proposed project; therefore, implementation of the specified Standard Urban Stormwater Management Program requirements would not be required to reduce the impacts to receiving waters within the Arroyo Seco to below the level of significance.

Mineral Resources

The No Project Alternative avoids potential impacts to mineral resources that could result from the implementation of the proposed project. However, compared with the proposed project, the No Project alternative does not provide for opportunities to turn up arroyo stone, which could be used for the construction of signs and restoration of stone walls surrounding the proposed project area. This alternative would entail no construction and implementation of mitigation measures from the proposed project would not be required.

Noise

Under the No Project Alternative, noise levels would remain the same as those described under existing conditions in this EIR. The No Project Alternative would not generate any new source of noise, and would not require mitigation.

Public Services

The No Project Alternative avoids potential impacts to public services that could result from the implementation of the proposed project. This alternative would entail no construction or paving, and implementation of mitigation measures from the proposed project would not be required.

Recreation

The No Project Alternative avoids potential impacts to recreation that could result from the implementation of the proposed project. Unlike the proposed project, implementation of the No Project alternative would not require implementation of the specified mitigation measures. This alternative would entail no construction or closures, and therefore would not require signage to indicate construction or alternative recreation sources.

Transportation/Traffic

This alternative assumes that no additional development would be undertaken within the Upper, Central, and Lower Arroyo Seco plan areas, as well as no increase in Rose Bowl Events and no implementation of the design guidelines. This alternative would result in no significant impacts. However, unlike the proposed project, the No Project Alternative would not develop a traffic management plan for the Central Arroyo Seco that incorporates a Rose Bowl shuttle route. The system-wide operations have been as analyzed in the Year 2010 Pre-Project Conditions.

Utilities and Service Systems

The No Project Alternative avoids potential impacts to utilities and service systems that could result from the implementation of the proposed project. This alternative would entail no construction or paving, and implementation of mitigation measures from the proposed project would not be required.

4.2 ALTERNATIVE 2: OAK GROVE MULTI-USE PLAY FIELD

In February 2000, the Hahamongna Watershed Park Master Plan was conceptually approved by the Pasadena City Council. The council also requested the evaluation of an alternative that would take the relocated disc golf course proposal and consider an alternative for a multi-purpose athletic field on that site instead (Figure 4.2-1, *Alternative 2: Oak Grove Multi-Use Play Field Alternative*).

4.2.1 Objectives

The Oak Grove Multi-Use Play Field Alternative is capable of meeting all of the basic objectives except that it would not provide recreation facilities and programs to meet existing and 2020 planning horizon-projected levels of demand. The disc golf course would be relocated and the back nine holes would be removed as a result of the Oak Grove Multi-Use Play Field Alternative. Currently, there is a large demand for use of the disc golf course, especially during peak hours and weekends. The removal of the back nine holes would put pressure on demand for the only disc golf course in the proposed project area.

4.2.2 Comparative Impacts

Aesthetics

As with the proposed project, the Oak Grove Multi-Use Play Field alternative would result in the potential for short-term construction impacts to aesthetics. As with the proposed project, this alternative would include the construction of a parking structure in the Upper Arroyo. Implementation of the specified mitigation measures would reduce potential light and glare impacts, short-term parking structure impacts, and short-term construction impacts to a less than significant level. As with the proposed project, there would be long-term impacts to aesthetics as a result of this alternative.

Air Quality

As with the proposed project, the Oak Grove Multi Use Play Field Alternative would result in significant impacts related to air quality during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Biological Resources

As with the proposed project, this development would take place in a ruderal/southern willow scrub habitat. Southern willow scrub is valuable habitat, and therefore, improvements in this area could cause significant impacts, necessitating mitigation measures to be considered.

Cultural Resources

As with the proposed project, the Oak Grove Multi-Use Play Field alternative would result in potential impacts to cultural resources. This alternative would not remove a project element; it would replace nine holes of the disc golf course with a multi-purpose field. The Oak Grove Multi-Use Play Field would result in the same impacts of the proposed project, requiring the consideration of mitigation measures. Implementation of the specified mitigation measures would reduce potential cultural resources and paleontological impacts to a less than significant level. As with the proposed project, there will be no long-term impacts to cultural resources as a result of this alternative.

Geology and Soils

As with the proposed project, the Oak Grove Multi-Use Play Field Alternative would result in significant impacts related to geology and soils during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Hazards and Hazardous Materials

As with the proposed project, the Oak Grove Multi-Use Play Field Alternative would result in significant impacts related to hazards and hazardous materials during construction requiring the consideration of the same mitigating measures recommended for the proposed project. Implementation of the specified mitigation measures recommended for the proposed project would reduce impacts to below the threshold of significance.

Hydrology and Water Quality

As with the proposed project, the Oak Grove Multi-Use Play Field Alternative would result in significant impacts related to hydrology and water quality. There would be no decrease in impervious surface with this alternative as compared to the proposed project. As with the proposed project, implementation of the specified Standard Urban Stormwater Management Program would be required to reduce impacts to receiving waters within the Arroyo Seco to below the level of significance.

Mineral Resources

As with the proposed project, the Oak Grove Multi Use Play Field Alternative would result in significant impacts related to mineral resources during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Noise

As with the proposed project, the Oak Grove Multi Use Play Field Alternative would result in significant impacts related to noise during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Public Services

As with the proposed project, the Oak Grove Multi-Use Play Field Alternative would result in significant impacts related to public services during and after construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Recreation

As with the proposed project, the Oak Grove Multi-Use Play Field alternative would result in the potential for short-term construction impacts to recreation. Implementation of the specified mitigation measures would reduce impacts to a less than significant level. In this alternative, the Disc Golf course would be reduced from 18 holes to nine holes. The nine eliminated holes would be replaced by a multi-purpose athletic field. The reduction in size of

the disc golf course would have a significant impact to recreational use in Oak Grove Park. Unlike the proposed project, this alternative would not provide recreation facilities and programs to meet existing and 2020 planning horizon-projected levels of demand, which would not meet project objectives.

Transportation/Traffic

This alternative assumes an increase in soccer fields in the Hahamongna Watershed Park by eliminating the back nine holes of the disc golf course to accommodate one additional adult soccer field (or up to two youth soccer fields).

The traffic generation forecast for the Alternative 2 project for the weekday a.m. and p.m. peak hours is summarized in Appendix H. The trip generation forecast for the Alternative 2 project was submitted for review and acceptance by City staff. This alternative would be expected to generate 23 net new vehicle trips (16 inbound and 7 outbound) during the weekday a.m. peak hour. During the weekday p.m. peak hour, the Alternative 2 project would be expected to generate 405 net new vehicle trips (180 inbound and 225 outbound). Over a 24-hour weekday period, the Alternative 2 project would be forecast to generate 3,516 net new daily trip ends during a typical weekday (approximately 1,758 inbound and 1,758 outbound).

The traffic generation forecast for the Alternative 2 project for the weekend peak hour is summarized in Appendix H. The trip generation forecast for the Alternative 2 project was submitted for review and acceptance by City staff. As shown in Appendix H, the Alternative 2 project would be expected to generate 462 net new vehicle trips (214 inbound and 248 outbound) during the weekend peak hour. Over a 24-hour weekend period, the Alternative 2 project is forecast to generate 3,844 net new daily trip ends during a typical weekend day (approximately 1,922 inbound and 1,922 outbound).

It is expected that the Alternative 2 project would result in slightly larger impacts than the proposed project, primarily due to the increase in the number of youth soccer fields.

Utilities and Service Systems

As with the proposed project, the Oak Grove Multi-Use Play Field Alternative would result in significant impacts related to utilities and service systems during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

ALTERNATIVES 3 AND 4: The proposed project would locate a 1,200-space parking structure on the existing westside parking lot. There are two alternatives to be considered for this component of the proposed project.

4.3 ALTERNATIVE 3: EAST/WEST PARKING SOLUTION

The East/West Parking Solution alternative to the proposed project would provide for a smaller, 600-space parking structure on the westside lot, in addition to a comparably smaller 600-space parking lot on the eastside. This lot would be located near the new proposed restroom and newly configured surface parking lot that would be tucked into the slope and accessed by the Jet Propulsion Laboratory (JPL) access drive (Figure 4.3-1, *Alternative 3: East/West Parking Solution*).

4.3.1 Objectives

The East/West Parking Solution Alternative is capable of meeting all of the basic objectives of the project.

4.3.3 Comparative Impacts

Aesthetics

As with the proposed project, the East/West Parking Solution alternative would result in the potential for short-term construction impacts to aesthetics. Implementation of the specified mitigation measures would not reduce impacts to a less than significant level. This alternative would require building two parking structures in the Upper Arroyo, whereas the proposed project would require one. The existing view of the Upper Arroyo may be obstructed to a greater extent than would the proposed project. Impacts would be significant and unavoidable. Implementation of the specified mitigation measures would help to reduce impacts to aesthetics resulting from construction of two parking structures.

Air Quality

As with the proposed project, the Oak East/West Parking Solution alternative would result in significant impacts related to air quality during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Biological Resources

As with the proposed project, this alternative would result in no significant impact to biological resources. The proposed parking sites are both in developed areas, and therefore have no significant biological value.

Cultural Resources

As with the proposed project, the East/West Parking Solutions Alternative would result in significant impacts to cultural resources during construction requiring the consideration of similar mitigation measures recommended for the proposed project. The building of two separate parking structures would result in more grading than the proposed project. In this alternative, the mitigation measures for grading must extend to the additional parking structure. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Geology and Soils

As with the proposed project, the East/West Parking Solutions Alternative would result in significant impacts related to geology and soils during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Hazards and Hazardous Materials

As with the proposed project, the East/West Parking Solutions Alternative would result in significant impacts related to hazards and hazardous materials during construction requiring the consideration of the same mitigating measures recommended for the proposed project. Implementation of the specified mitigation measures recommended for the proposed project would reduce impacts to below the threshold of significance.

Hydrology and Water Quality

As with the proposed project, the East/West Parking Solutions Alternative would result in significant impacts related to hydrology and water quality. There would be an increase in the amount of impervious surface with this alternative as compared to the proposed project. However, as with the proposed project, implementation of the specified Standard Urban Stormwater Management Program would be required to reduce the impacts to receiving waters within the Arroyo Seco to below the level of significance.

Mineral Resources

As with the proposed project, the East/West Parking Solution Alternative would result in significant impacts related to mineral resources during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Noise

As with the proposed project, the Oak East/West Parking Solution alternative would result in significant impacts related to noise during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Public Services

As with the proposed project, the East/West Parking Solutions Alternative would result in significant impacts related to hazards and hazardous materials during construction requiring the consideration of the same mitigating measures recommended for the proposed project. Implementation of the specified mitigation measures recommended for the proposed project would reduce impacts to below the threshold of significance.

Recreation

As with the proposed project, the East/West Parking Solution Alternative would result in the potential for short-term construction impacts to recreation. As with the proposed project, construction of this alternative would temporarily discontinue many recreational park activities. This would result in short-term construction impacts. Implementation of the specified mitigation measures would reduce impacts to a less than significant level. As with the

proposed project, there would be no long-term adverse impacts to recreation as a result of the East/West Parking Solution Alternative.

Transportation/Traffic

This alternative assumes that there would be an East parking structure and a West parking structure in the Hahamongna Watershed Park to accommodate park users and JPL employees. Public access to the west parking structure during weekends would be provided via a new internal park roadway that would be closed during weekdays. It is envisioned that 600 parking spaces would be provided in each parking structure.

Since the forecast Alternative 3 project trip generation would be equivalent to the weekday and weekend trip generation forecast associated with the proposed project, Alternative 3 is anticipated to result in the same number and level of significant transportation impacts as the proposed project.

Utilities and Service Systems

As with the proposed project, the East/West Parking Solutions Alternative would result in significant impacts related to utilities and service systems during construction requiring the consideration of the same mitigating measures recommended for the proposed project. Implementation of the specified mitigation measures recommended for the proposed project would reduce impacts to below the threshold of significance.

4.4 ALTERNATIVE 4: TWO EAST SIDE PARKING STRUCTURES

The second alternative to the proposed eastside parking structure would provide for two smaller parking structures on the northeastern side of the basin, which include one 4 -floor, 400-car lot and one 3 -floor, 800-car lot. One would be north of the Behner treatment plant and above the Gabrieliño trail. The second building would be below the Gabrieliño trail. The Gabrieliño trail would serve as a one-way northerly entry drive and the JPL access way would serve as the exit road. The top floor of the building below the Gabrieliño trail would not be any higher than the level of the trail (Figure 4.4 - 1, *Alternative 4: East Side Parking Structures*).

4.4.1 Objectives

The East Side Parking Structures Alternative would be capable of meeting all of the basic objectives of the project.

4.4.2 Comparative Impacts

Aesthetics

As with the proposed project, the East Side Parking Structures Alternative would result in the potential for short-term construction impacts to aesthetics. Implementation of the specified mitigation measures would not reduce impacts to a less than significant level. This alternative would require building two parking structures in the Upper Arroyo, whereas the proposed project would require one. Both structures would be visible from the Gabrieliño trail. The existing view of the Upper Arroyo may be obstructed to a greater extent than the proposed project. Impacts would be significant and unavoidable. Implementation of the specified mitigation measures would help to reduce impacts to aesthetics resulting from construction of two parking structures.

Air Quality

As with the proposed project, the East Side Parking Structures Alternative would result in significant impacts related to air quality during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Biological Resources

The East Side Parking Structures Alternative could significantly impact sage scrub, a valuable natural community, along with previously developed areas. This would require the consideration of mitigation measures to reduce the impact to below the level of significance. The proposed project parking solution would only affect developed areas, thereby avoiding the need for mitigation measures.

Cultural Resources

As with the proposed project, the East Side Parking Structures Alternative would result in significant impacts to cultural resources during construction requiring the consideration of similar mitigation measures as recommended for the proposed project. The building of two separate parking structures would result in more grading than the proposed project. In this alternative, the mitigation measures for grading must extend to the additional parking structure. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Geology and Soils

As with the proposed project, the East Side Parking Structures Alternative would result in significant impacts related to geology and soils during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Hazards and Hazardous Materials

As with the proposed project, the East Side Parking Structures Alternative would result in significant impacts related to hazards and hazardous materials during construction requiring the consideration of the same mitigating measures recommended for the proposed project. Implementation of the specified mitigation measures recommended for the proposed project would reduce impacts to below the threshold of significance.

Hydrology and Water Quality

As with the proposed project, the East Side Parking Solutions Alternative would result in significant impacts related to hydrology and water quality. There would be no decrease in impervious surface with this alternative as compared to the proposed project. As with the proposed project, implementation of the specified Standard Urban Stormwater Management Program would be required to reduce the impacts to receiving waters within the Arroyo Seco to below the level of significance.

Mineral Resources

As with the proposed project, the East Side Parking Structures Alternative would result in significant impacts related to mineral resources during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Noise

As with the proposed project, the East Side Parking Structures Alternative would result in significant impacts related to noise during construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Public Services

As with the proposed project, the East Side Parking Structures Alternative would result in significant impacts related to public services during and after construction requiring the consideration of the same mitigating measures recommended for the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Recreation

As with the proposed project, the East Side Parking Structures Alternative would result in the potential for short-term construction impacts to recreation. As with the proposed project, construction of this alternative would temporarily discontinue many recreational park activities. This would result in short-term construction impacts. Implementation of the specified mitigation measures would reduce impacts to a less than significant level. As with the proposed project, there would be no long term adverse impacts to recreation as a result of the East Side Parking Structures Alternative.

Transportation/Traffic

This alternative assumes that there would be two east side parking structures in Hahamongna Watershed Park to accommodate park users and JPL employees. The total number of parking spaces would be 1,200. This alternative assumes that there would be no net gain in existing parking currently available on the West side of Hahamongna Watershed Park.

As with the proposed project, the East Side Parking Structures Alternative would result in significant impacts related to utilities and service systems during construction requiring the consideration of the same mitigating measures recommended for the proposed project. Since the forecast Alternative 4 project trip generation would be equivalent to the weekday and weekend trip generation forecast associated with the proposed Arroyo Seco Master Plan project, this alternative is anticipated to result in the same number and level of significant transportation impacts as the proposed Arroyo Seco Master Plan project.

Utilities and Service Systems

As with the proposed project, the East Side Parking Structures Alternative would result in significant impacts related to utilities and service systems during construction requiring the consideration of the same mitigating measures recommended for the proposed project. Implementation of the specified mitigation measures recommended for the proposed project would reduce impacts to below the threshold of significance.

4.5 ALTERNATIVE 5: NO IMPACT ON DESIGNATED CRITICAL HABITAT

The U.S. Fish and Wildlife Service has designated critical habitat for the southwestern arroyo toad within the Arroyo Seco Master Plan Area. The Hahamongna Watershed Park Master Plan component of the Arroyo Seco Master Plan requires extensive grading within designated critical habitat. The grading required for the proposed project would require an individual permit from the U.S. Army Corps of Engineers pursuant to Section 404 of the Clean Water Act.

To minimize potential effects on designated critical habitat for a federally listed endangered species, CEQA requires the consideration of alternatives that avoid or reduce potential effects. Alternative 5, No Impact on Designated Critical Habitat, removes all those elements that have the potential to impact the Designated Critical Habitat of the southwestern arroyo toad. The elements that are removed from the proposed project are depicted in Figure 4.5-1, *Alternative 5: No Impact on Designated Critical Habitat*.

4.5.1 Objectives

The No Impact on Designated Critical Habitat Alternative is not capable of meeting all of the basic objectives of the project. This Alternative would require the removal of the majority of the project components within the Hahamongna Watershed Park Element of the proposed project, which would not meet the objectives of achieve restoration/conservation of the natural environment due to the removal of many of the habitat restoration components within the Hahamongna Watershed Park. Due to the removal of many of the water conservation and flood management opportunities, the No Impact on Designated Critical Habitat Alternative would not meet the objectives of development and rehabilitation of Hahamongna Watershed Park consistent with the County of Los Angeles Department of Public Works flood control easement, operate and maintain flood control facilities to provide protection to downstream structures, neighborhoods, and communities from a capital storm event and optimize water conservation in the Arroyo Seco to serve City of Pasadena enterprises and residents. The No Impact on Designated Critical Habitat Alternative would remove components that have the opportunity to provide recreation facilities and programs to meet existing and 2020 planning horizon projected levels of demand. Many of the trail enhancements and improvements would be removed from the project, which would result in decreases in the enhancement of the existing internal system of trails to serve passive and active recreation uses within the Arroyo Seco. This alternative would also not provide for a multi-modal trail connection to the Rim of the Valley Trail and maintain connection to the Pacific Crest Trail and the County of Los Angeles Riding and Hiking Trails.

4.5.2 Comparative Impacts

Aesthetics

The No Impact on Designated Critical Habitat Alternative would result in fewer impacts to aesthetics than the proposed project. This alternative precludes construction in the watershed area of the Upper Arroyo Seco, thereby reducing impacts to aesthetics. Impacts to aesthetics outside of the watershed area would be the same as the proposed project, requiring the consideration of mitigation measures. Unlike the proposed project, implementation of the

specified mitigation measures would reduce impacts to aesthetics to below the level of significance due to the elimination of the parking structure in the Upper Arroyo Seco.

Air Quality

The No Impact on Designated Critical Habitat Alternative would result in fewer impacts to air quality than the proposed project. This alternative precludes construction in the watershed area of the Upper Arroyo Seco, thereby reducing impacts to air quality. Impacts to air quality outside of the Upper watershed area would be the same as the proposed project, requiring the consideration of mitigation measures. Implementation of the specified mitigation measures would reduce impacts to aesthetics to below the level of significance.

Biological Resources

The No Impact on Designated Critical Habitat Alternative would result in no significant impacts to critical habitat; therefore, no mitigation measures would be necessary. This alternative would preclude the watershed area of the park from some of the benefits of the proposed projects' habitat conservation plans. Sage scrub, riversidean alluvial fan sage scrub, streambed riparian, aquatic, and wetland comprise the communities that would not benefit from conservation efforts under this alternative.

Cultural Resources

The No Impact on Designated Critical Habitat Alternative would result in fewer impacts to cultural resources than the proposed project. This alternative precludes construction in the watershed area of the Upper Arroyo Seco, thereby reducing potential impacts to cultural resources. Impacts to cultural resources outside of the watershed area would be the same as the proposed project, requiring the consideration of mitigation measures. Implementation of the specified mitigation measures would reduce impacts to cultural resources to below the level of significance.

Geology and Soils

As with the proposed project, the No Impacts on Designated Critical Habitat Alternative would result in significant impacts related to geology and soils during construction requiring the consideration of the same mitigating measures recommended for the proposed project. The No Impact on Designated Critical Habitat Alternative would avoid impacts related to the construction of the West Arroyo Parking structure, the Westside spreading basins, the Westside children's play area, and the Gabrieliño trail area; water conservation measures, the east lake, the sunset overlook, the eastside park access, the pump back system, and trail development components that require construction. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Hazards and Hazardous Materials

As with the proposed project, the No Impacts on Designated Critical Habitat Alternative would result in significant impacts related to hazards and hazardous materials during construction requiring the consideration of the same mitigating measures recommended for the proposed project. The No Impact on Designated Critical Habitat Alternative would avoid impacts related

to the construction of the West Arroyo Parking structure, the Westside spreading basins, the Westside children's play area, and the Gabrieliño trail area; water conservation measures, the East Lake, the Sunset Overlook, the eastside park access, the pump back system, and trail development components that require construction, but would not avoid construction impacts identified in the remainder of the proposed project. As with the

proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Hydrology and Water Quality

Unlike the proposed project, the No Impact on Designated Critical Habitat Alternative would not be able to provide water conservation or landscaping opportunities that would protect water quality within the proposed project watershed. As with the proposed project, the No Impact on Designated Critical Habitat Alternative would result in significant impacts related to hydrology and water quality during construction requiring the consideration of the same mitigating measures recommended for the proposed project. However, the No Impact on Designated Critical Habitat Alternative would avoid impacts related to the construction of the West Arroyo Parking structure, the Westside spreading basins, the Westside children's play area, and the Gabrieliño trail area; water conservation measures, the east lake, the sunset overlook, the eastside park access, the pump back system, and trail development components that require construction. The No Impact to Designated Critical Habitat would result in a decrease in the amount of impervious surface that would result in the implementation of the proposed project. As with the proposed project, implementation of the specified Standard Urban Stormwater Management Program would be required to reduce the impacts to receiving waters within the Arroyo Seco to below the level of significance.

Mineral Resources

As with the proposed project, the No Impact on Designated Critical Habitat Alternative would result in significant impacts related to mineral resources during construction requiring the consideration of the same mitigating measures recommended for the proposed project. The No Impact to Designated Critical Habitat Alternative still includes construction of the project elements that have the potential to turn up large amounts of mineral resources. However, as with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Noise

The No Impact on Designated Critical Habitat Alternative would result in fewer impacts related to noise than the proposed project. This alternative precludes construction in the watershed area of the Lower Arroyo Seco, thereby reducing potential impacts to noise. Impacts to noise outside of the watershed area will be the same as the proposed project, requiring the consideration of mitigation measures.

Public Services

As with the proposed project, the No Impacts on Designated Critical Habitat Alternative would result in significant impacts related to public services during and after construction requiring the consideration of the same mitigating measures recommended for the proposed project. The No Impact on Designated Critical Habitat Alternative would avoid impacts related to the construction of the West Arroyo Parking structure, the Westside spreading basins, the Westside children's play area, and the Gabrieliño trail area, water conservation measures, the east lake, the sunset overlook, the eastside park access, the pump back system, and trail development components that require construction, but would not avoid impacts identified in the remainder of the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

Recreation

The No Impact on Designated Critical Habitat Alternative would result in fewer impacts to recreation than the proposed project. This alternative precludes construction in the watershed area of the Lower Arroyo Seco, reducing the number of project elements, and thereby reducing impacts to recreation. Impacts to recreation outside of the watershed area would be the same as the proposed project, requiring the consideration of mitigation measures. Implementation of the specified mitigation measures would reduce impacts to aesthetics to below the threshold of significance.

Transportation/Traffic

The No Impact on Designated Critical Habitat Alternative assumes that there would be no impacts to designated critical habitat of the Arroyo Toad. From a transportation perspective when compared to the proposed project, this would involve the elimination of the East and West Lakes, the Sunset Overlook and the Interpretive Area/Parking.

The traffic generation forecast for the No Impact on Designated Critical Habitat Alternative for the weekday a.m. and p.m. peak hours is summarized in Appendix H. The trip generation forecast for the Alternative 5 project was submitted for review and acceptance by City staff. The No Impact on Designated Critical Habitat Alternative is expected to generate 12 net new vehicles trips (8 inbound and 4 outbound) during the weekday a.m. peak hour. During the weekday p.m. peak hour, the Alternative 5 project is expected to generate 312 net new vehicle trips (141 inbound and 171 outbound). Over a 24-hour weekday period, this alternative is forecasted to generate 2,634 net new daily trip ends during a typical weekday (approximately 1,317 inbound and 1,317 outbound).

The traffic generation forecast for this alternative for the weekend peak hour is summarized in Appendix H. The trip generation forecast for this alternative was submitted for review and acceptance by City staff. The No Impact on Designated Critical Habitat Alternative is expected to generate 336 net new vehicles trips (156 inbound and 180 outbound) during the weekend peak hour. Over a 24-hour weekend period, this alternative is forecasted to generate 2,810 net new daily trip ends during a typical weekend day (approximately 1,405 inbound and 1,405 outbound). This alternative would likely result in fewer significant impacts than the proposed project.

Utilities and Service Systems

As with the proposed project, the No Impacts on Designated Critical Habitat Alternative would result in significant impacts related to utilities and service systems during construction requiring the consideration of the same mitigating measures recommended for the proposed project. The No Impact on Designated Critical Habitat Alternative would avoid impacts related to the construction of the West Arroyo Parking structure, the Westside spreading basins, the Westside children's play area, and the Gabrieliño trail area, water conservation measures, the East Lake, the Sunset Overlook, the eastside park access, the pump back system, and trail development components that require construction, but would not avoid construction impacts identified in the remainder of the proposed project. As with the proposed project, implementation of the specified mitigation measures would reduce impacts to below the threshold of significance.

4.6 ENVIRONMENTALLY SUPERIOR ALTERNATIVE

4.6.1 No Project

The range of alternatives to the proposed project includes those alternatives that could feasibly accomplish most of the basic objectives of the proposed project and that could avoid or substantially lessen one or more of the significant effects. While the No Project Alternative does not accomplish most of the basic objectives of the proposed project, it would avoid significant impacts related to aesthetics, air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, hydrology and water quality, mineral resources, noise, public services, recreation, transportation/traffic, and utilities and service systems resulting from the proposed project. Although not capable of meeting most of the basic objectives of the proposed project, the No Project alternative would be identified as the Environmentally Superior Alternative due to its ability to avoid significant impacts associated with the proposed project.

4.6.2 No Impact on Designated Critical Habitat

In the event that the No Project Alternative is identified as the Environmentally Superior Alternative, CEQA stipulates that the *Master EIR* must also identify an Environmentally Superior Alternative among the action alternatives that are capable of meeting most of the basic objectives of the proposed project. The No Impact on Designated Critical Habitat Alternative has been identified as the Environmentally Superior Alternative that is capable of meeting most of the basic objectives of the proposed project.