
2.0 PURPOSE OF EIR

2.1 INTRODUCTION

An Environmental Impact Report (EIR) as defined in Section 21061 of the California Environmental Quality Act (CEQA) Statute & Guidelines, is an informational document to be considered by every public agency prior to its approval or disapproval of a project. The purpose of an EIR is to generally inform public agency decision-makers and the public of the potentially significant environmental effects associated with a proposed project, identify ways to minimize or eliminate the significant effects, and evaluate a reasonable range of alternatives that would meet the major objectives of the proposed project but further reduce or avoid significant environmental effects.

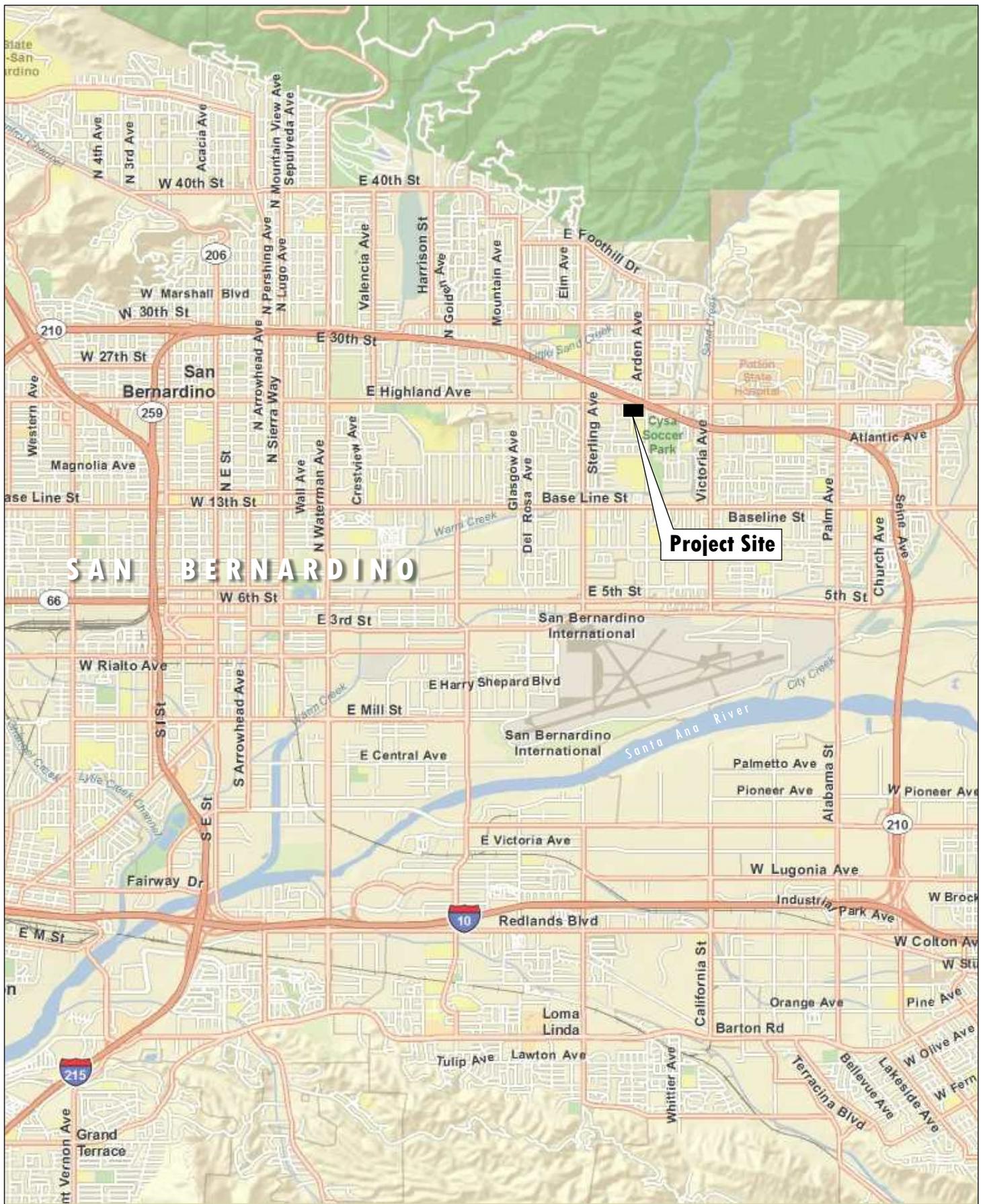
This EIR has been prepared in compliance with CEQA, the State Guidelines for Implementation of CEQA, and the City of San Bernardino Guidelines for CEQA Implementation to document existing environmental conditions and evaluate the potentially significant environmental effects that could result from the implementation of the Home Depot shopping center at Highland and Arden Avenues. The Project Site totals 17.37-acres and is located in the City of San Bernardino, in San Bernardino County (see Figure 2-1). The Project Site is located near the southwest corner of Highland and Arden Avenues in the City of San Bernardino. Figure 2-2 shows the vicinity of the project site.

The proposed Project is the re-development of a previously developed multi-family residential site into a commercial shopping center with a maximum of 204,720 square feet (SF) of general commercial land uses. The proposed shopping center would include one (1) 107,979 square-foot home improvement center with attached 28,111 square-foot garden center; one (1) 43,830 square-foot major retail structure that may include a pharmacy; one (1) 8,340 square-foot multi-tenant building for various shops, and four (4) general commercial land uses ranging in size from 5,500 square feet to 2,900 square-feet that may include drive-thru restaurants, a gas station or bank. The Project will include a City of San Bernardino General Plan Amendment (GPA) to change the existing land use designation from Public Commercial Recreation (PCR) to Commercial General (CG-1), an approval of a Conditional Use Permit (CUP) to allow for multi-tenant use of the Project Site, and a parcel map to create seven (7) lots. Figure 2-3 shows the conceptual site plan.

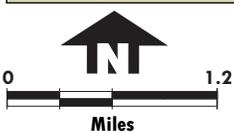
2.2 AUTHORITY

An EIR provides objective planning and environmental information to guide and assist decision-makers, lead agency staff and the public in their evaluation of the potential environmental effects that may result from implementation of the project as proposed. The California Environmental Quality Act (CEQA) Guidelines Section 15151 contains the following standards of adequacy:

“An EIR should be prepared with a sufficient degree of analysis to provide decision-makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in the light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR



Project Site



Source: B.L.M. 2011.

LILBURN
CORPORATION

REGIONAL LOCATION

Highland Marketplace EIR
City of San Bernardino, California



0  850
 Feet
 Aerial: N.A.I.P. 2009.
LILBURN
 CORPORATION

LEGEND

-  Home Depot Commercial Center
EIR Project Site
-  City Limits

PROJECT VICINITY

Highland Marketplace EIR
 City of San Bernardino, California

FIGURE 2-2

GreenbergFarrow

19000 MacArthur Blvd, Suite 250
Irvine, CA 92612
t: 949 296 0450 f: 949 296 0437

PROJECT INFORMATION

| SITE AREA | |
|-----------------------------|---------------|
| 110 AC SITE AREA | - 8.93 ACRES |
| SHOPPING CENTER & PADS AREA | ± 8.14 ACRES |
| TOTAL NET AREA | ± 17.07 ACRES |
| HIGHLAND AVE DEDICATION | + 0.21 ACRES |
| ARDEN AVE DEDICATION | + 0.03 ACRES |
| TOTAL GROSS AREA | ± 7.61 ACRES |

| | |
|-------------------------------|------------------------|
| HD SITE COVERAGE | 134.98% (15,240 SF/AC) |
| SHOPPING CENTER SITE COVERAGE | 178.67% (8,131 SF/AC) |

BUILDING AREA

| | |
|-------------------------|------------|
| THE HOME DEPOT BUILDING | 106,853 SF |
| VESTIBULES | 1,128 SF |
| TOTAL HD BUILDING | 107,979 SF |
| OUTDOOR GARDEN CENTER | 28,111 SF |
| TOTAL HDV DEPOT TOTAL | 136,090 SF |
| SHOPPING CENTER PARCELS | |
| MAJOR 1 | 43,530 SF |
| PAD 1 | 2,900 SF |
| PAD 2 | 4,560 SF |
| PAD 3 | 3,500 SF |
| PAD 4 | 5,500 SF |
| SHOPS | 8,340 SF |
| SHOPPING CENTER TOTAL | 68,630 SF |
| TOTAL SITE | 204,720 SF |

PARKING SUMMARY

| USER | RATIO REQUIRED | SPACES REQ'D | SPACES PROVIDED |
|------------------------------|-----------------|--------------|-----------------|
| THE HOME DEPOT | 4 SP/1000 SF | 432 | |
| GARDEN CENTER | 1 SP/2500 SF | 12 | |
| CUSTOMER PARKING PROVIDED: | | | 347 |
| OVER/LOW PARKING PROVIDED: | | | 48 |
| TOTAL: | | 444 | 395 |
| ADDITIONAL PROVIDED: | | | 532 |
| OVER PARKING RATIO PROVIDED: | 2.90 SP/1000 SF | | |

| | | | |
|---------------------|--------------|-----|-----|
| MAJOR 1 | 4 SP/1000 SF | 176 | 200 |
| PAD 1 (GAS STATION) | 1 SP/ISLAND | 3 | |
| PAD 1 (C STORE) | | | |
| PAD 2 (TANK) | | | |
| PAD 3 | 1 SP/150 SF | 138 | 189 |
| PAD 4 | | | |
| SHOPS | | | |
| TOTAL: | | | |

| | | |
|---------------------------------|-----------------|-----|
| TOTAL SITE: | 761 | 784 |
| SHOPPING CENTER RATIO PROVIDED: | 5.67 SP/1000 SF | |
| TOTAL SITE RATIO PROVIDED: | 3.83 SP/1000 SF | |

PARKING REQUIRED IS RECIPROCAL FOR SHOPPING CENTER.

CALGREEN PARKING SUMMARY

| USER | 3-KL TRUCK REQ'D | F.E. & C/V, P. REQ'D | P. PROVIDED |
|----------------|------------------|----------------------|-------------|
| THE HOME DEPOT | 20 | 32 | 32 |
| MAJOR 1 | 10 | 16 | 16 |
| PAD 1 | 2 | 1 | 1 |
| PAD 2 | 2 | 1 | 1 |
| PAD 3 | 3 | 3 | 3 |
| PAD 4 | 3 | 6 | 6 |
| SHOPS | 3 | 3 | 3 |

F.E. & C/V, P. = FUEL EFFICIENT & CARPOOL/VAN POOL PARKING

ZONING CLASSIFICATION

| | |
|-----------------|------------------------------------|
| JURISDICTION | CITY OF SAN BERNARDINO |
| EXISTING ZONING | PCR - PUBLIC COMMERCIAL RECREATION |
| REQUIRED ZONING | GENERAL COMMERCIAL |

LANDSCAPE REGULATIONS

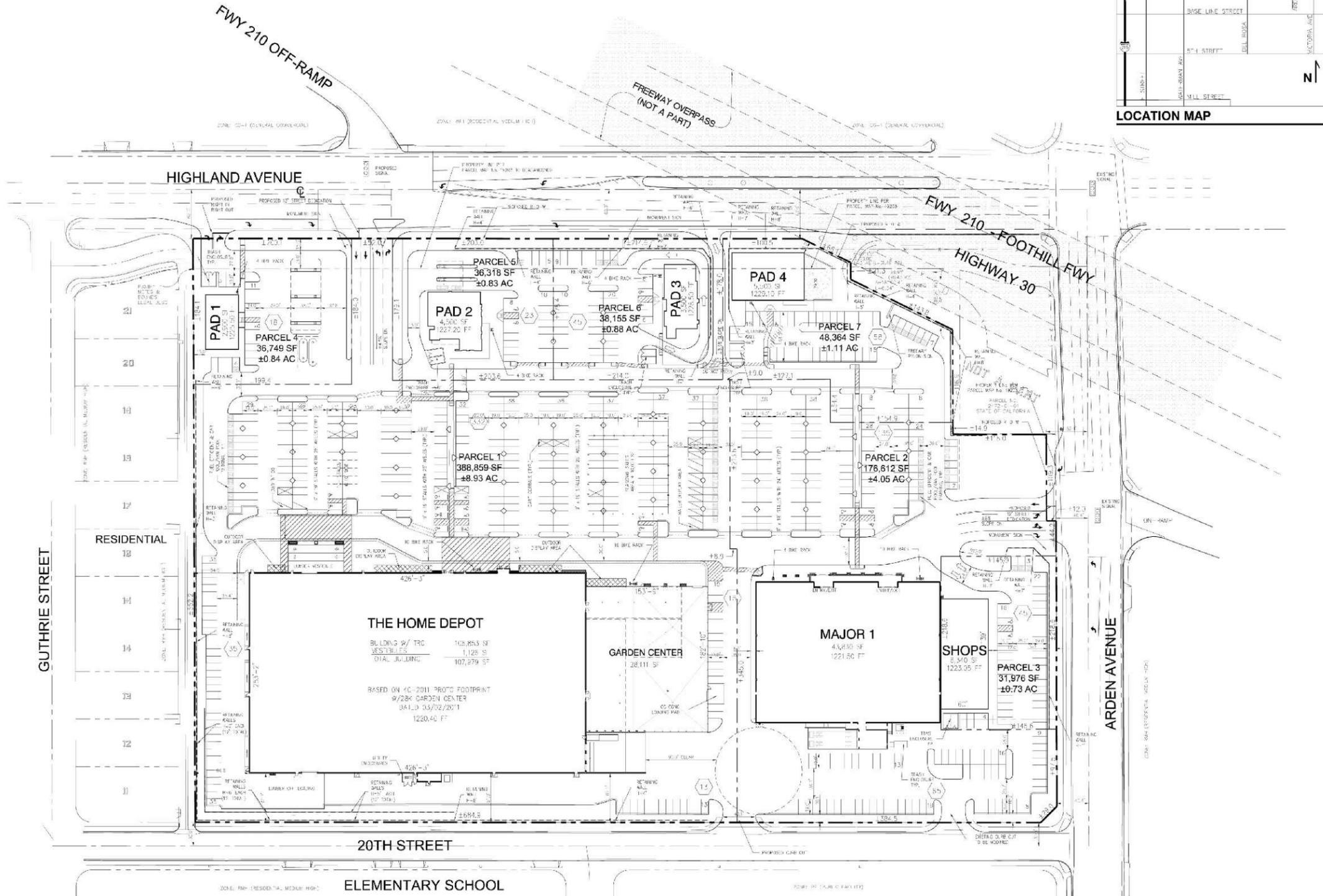
15% PARKING TO BE LANDSCAPED
TREE DIAMETERS PROVIDED AT 1/4 SPACES

BUILDING SETBACKS

| | |
|-------|------------------------------------|
| FRONT | 10'/15' FOR DRIVE THRU RESTAURANTS |
| SIDE | 10' |
| REAR | 10' |

THE HOME DEPOT
SAN BERNARDINO, CA
500 ARDEN AVENUE
& HIGHLAND AVENUE

CLIENT SITE ID NUMBER: SS-00936.2007
GF PROJECT NUMBER: 20060523.2
GF SITE PLAN NUMBER: CA-1082x



| PROJECT NOTES | | DRAWING ISSUE/REVISION RECORD | |
|--|--|-------------------------------|---------------------------------------|
| 1. THIS SITE PLAN IS FOR PLANNING SUBMITTAL PURPOSES ONLY. | | DATE | NARRATIVE |
| | | 04/26/11 | PREP. ENTITLEMENT SUBMITTAL PACKAGE |
| | | 08/25/11 | PREP. ENTITLEMENT RESUBMITTAL PACKAGE |

Source: Tait, 8/2011



SITE PLAN

Highland Marketplace EIR
City of San Bernardino, California

FIGURE 2-3

should summarize the main points of disagreement among the experts. The courts have looked not for perfection; but for adequacy, completeness, and good faith effort at full disclosure.”

This EIR considers a series of actions that are needed to achieve the implementation of the proposed commercial development and the GPA, and was prepared in accordance with the *California Environmental Quality Act of 1970* (Public Resources Code, Section 21000 et seq.), the *Guidelines for Implementation of the California Environmental Quality Act* published by the Resources Agency of the State of California, and the City of San Bernardino’s local CEQA Guidelines. This EIR was prepared by Lilburn Corporation, a private environmental consulting firm.

During the development review process, the City must consider implementation of all feasible mitigation measures and alternatives addressed in the EIR to substantially lessen anticipated environmental impacts of the project. As mandated by the CEQA Guidelines, this EIR reflects the independent judgment of the Redevelopment Agency of the City of San Bernardino (RDA) regarding the proposed project in accordance with CEQA Guidelines Section 15084(e)).

2.3 LEAD AGENCY

The RDA is the lead agency as defined in section 15051(b) of the Guidelines for implementing the California Environmental Quality Act (CEQA) which states “If the project is to be carried out by a non-governmental person, the Lead Agency shall be the public agency with the greatest responsibility for supervising or approving the project as a whole.” Additionally, other agencies may have authority over resources that may be affected by the project, or may be required to issue permits or give other input on implementation of the project. These “responsible agencies” include the California Department of Transportation (CalTrans), Regional Water Quality Control Board (RWQCB), and the South Coast Air Quality Management District (SCAQMD).

2.4 ORGANIZATION OF THE EIR

The Draft EIR is organized into the following chapters:

Chapter 1.0 – Executive Summary: Summarizes the Proposed Project, areas of controversy, issues to be resolved, regulatory compliance requirements, the potential environmental effects that may result from the implementation of the proposed Project (including cumulative), the mitigation measures proposed to reduced or eliminate significant effects, and a summary of the proposed alternatives.

Chapter 2.0 – Purpose of EIR: Provides an introduction and overview of the EIR and describes the intended use of the document and the Lead Agency authority under CEQA. This chapter also includes a brief description of the proposed project, describes the purpose of an EIR, summaries the review process, and lists the documents incorporated by referenced. This chapter also includes a list of acronyms and glossary of terms.

Chapter 3.0 - Project Description: Provides a detailed description of conditions on the project site and vicinity and the various components of the proposed project. This chapter includes a

statement of project objectives and provides background data on the project and project site. This chapter also includes a list of permits required to implement the project.

Chapter 4.0 – Environmental Setting and Impact Evaluation: Describes the existing environmental conditions on the site and in the vicinity of the project site, and the regulatory environment. Describes the project's characteristics related to each of the topical environmental issues and states the significance criteria used to evaluate potentially significant effects of the proposed project. Evaluates the potential environmental effects, identifies mitigation measures to reduce or eliminate effects found to be significant, and determines the level of significance of the effect after measures have been implemented.

Chapter 5.0 - Other CEQA-Required Analysis: Evaluates environmental effects of the project when considered with the effects of other approved and/or reasonably foreseeable projects that when combined, would be cumulatively significant. Also includes descriptions of: 1) ways in which the project may foster economic or population growth and thereby be growth inducing; and 2) any significant irreversible environmental changes which may result with the implementation of the proposed project (CEQA Guidelines section 15126.2(c)(d)).

Chapter 6.0 - Alternatives: Describes a reasonable range of alternatives to the project that would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects identified in the environmental analysis of the project.

Chapter 7.0 - References: Includes a list of lead agency staff members who participated in the preparation of the EIR as well as the consultants who prepared the technical reports to support the environmental analysis. Chapter 7.0 also includes a bibliography of information used to prepare the EIR and lists persons and organizations consulted during report preparation.

2.5 INCORPORATION BY REFERENCE

As permitted by section 15150 of the CEQA Guidelines, this Draft EIR has referenced several technical studies, analyses, and reports, which are included in the technical appendices included in the EIR. Information from documents incorporated by reference has been summarized in the appropriate section(s) that follow. The following documents are hereby incorporated by reference and are available for review at the City of San Bernardino offices located at 300 North "D" Street San Bernardino, CA 92418:

- City of San Bernardino General Plan
- City of San Bernardino Zoning Ordinance

2.6 REQUIRED PERMITS AND APPROVALS

The discretionary actions listed below are required prior to implementation of the Highland Marketplace. The lead agency and responsible agencies will use the EIR in their consideration of Home Depot U.S.A, Inc. and Mark Development, Inc.'s application for the various permits and approvals.

City of San Bernardino

- General Plan Amendment
- Zone Change
- Tentative Parcel Map
- Conditional Use Permit
- Grading and Building Permits

Regional Water Quality Control Board

- Storm Water Pollution prevention Plan (SWPPP)
- Waste Quality Management Plan (WQMP)

Caltrans

- Encroachment Permits

South Coast Air Quality Management District

- Air Quality Permits for the storage and dispensing of gasoline

The Environmental Impact Report (EIR) (State Clearinghouse No. 2011061021) has been prepared by the RDA to evaluate the environmental effects of the proposed Highland Marketplace, a commercial development on an approximate 17.37-acre site.

The RDA is the lead agency as defined in Section 15051(b) of the Guidelines for implementing California Environmental Quality Act (CEQA) which states “If the project is to be carried out by a non-governmental person, the Lead Agency shall be the public agency with the greatest responsibility for supervising or approving the project as a whole.”

2.7 PROJECT UNDER REVIEW

The Project Applicant (Home Depot U.S.A, Inc. and Mark Development, Inc.) is proposing to construct a 107,979 square-foot home improvement center with an attached 28,111 square-foot garden center; a 43,830 square-foot major retail structure that may include a grocery store; a 8,340 square-foot multi-tenant building for various shops, which may include restaurants, and four (4) general commercial land uses ranging in size from 5,500 square feet to 2,900 square-feet that may include drive-thru restaurants, a gas station or bank. The proposed Project includes a subdivision of the 17.37-acre site into seven (7) parcels ranging in size from 0.73 acres to 8.93 acres.

The Project Site is located south of Highland Avenue, west of Arden Avenue, and north of 20th Street, and includes a prominent portion of what has historically been known as the Arden-Guthrie neighborhood of the City. The Project Site is currently designated Commercial Recreation in the City’s General Plan and zoned Public Commercial Recreation (PCR). The proposed Project would require a General Plan Amendment (GPA) to change the existing land use designation from PCR to Commercial General (CG-1), and approval of a Conditional Use Permit (CUP) to allow for multi-tenant use of the Project Site and increase building height for architectural elements.

The Arden-Guthrie neighborhood was historically afflicted with a number of physical and economic conditions of blight, as those terms are defined in Health and Safety Code Sections 33030 *et seq.*, including substandard structures and dwellings, residential overcrowding, substandard property maintenance conditions, inadequate improvements, abandoned property, depreciating and stagnant property values, and criminal activity which occurred at rates documented to be higher than crime rates in other neighborhoods of the city. All of these factors combined, substantially and detrimentally affected the neighboring residents, schools and businesses.

The Project Site is currently owned by the San Bernardino Economic Development Corporation, a 501C3 non-profit organization operating in tandem with the RDA, and is the subject of a Disposition and Development Agreement (DDA) between RDA and the Project Applicant. The DDA is being processed concurrently with the Project entitlements. The Project Site was acquired by the Redevelopment Agency of the City of San Bernardino over a period of time starting in 1993, to address conditions of blight that existed in the Arden-Guthrie neighborhood and particularly on the Project Site. The primary purpose of the RDA's acquisition of the properties comprising the Project Site, and subsequent demolition of the existing residential structures and relocation of residents, was to promote and foster a commercially viable and economically sustainable plan of redevelopment and reuse of the Project Site and to prevent the spread of blight and related crime into other surrounding neighborhoods and communities. The RDA and the Project Applicant have been in negotiations since 2007 for the acquisition and commercial development of the Project Site. The RDA acquired the last properties of the Project Site in late 2008, and demolition of the residential structures was completed in or around 2010. Ownership of the project site was transferred to San Bernardino Economic Development Corporation in 2011 following the introduction of state legislation calling for the elimination of Redevelopment Agencies. The certain utilities and other infrastructure that served the residential neighborhood are still present on the Project Site and will be replaced to serve the Proposed Project.

2.8 ENVIRONMENTAL REVIEW PROCESS

2.8.1 CEQA Process

The purpose of this EIR is to evaluate the potential environmental effects of the proposed project and all actions related for the approval of the GPA and CUP. A Notice of Preparation (NOP) was issued by the City on June 6, 2011 pursuant to State CEQA Guidelines, Section 15082 (a), 15103, and 15375 (State Clearinghouse #2011061021). The City circulated the NOP to responsible and trustee state agencies, local organizations, and interested individuals to identify issues to be addressed in the EIR. The 30-day circulation period required by CEQA began on June 8, 2011 and ended on July 7, 2011. Comments that were received on the NOP have been addressed during the preparation of the EIR, and copies of the comments letters are included in Appendix A.

2.8.2 Scope of the EIR

An Initial Study for the Proposed Project was prepared prior to circulation of the NOP. The preliminary analysis, NOP, and comment letters received during circulation of the NOP, determined that the following potential environmental issues should be analyzed in this EIR:

- Aesthetics
- Air Quality
- Greenhouse Gas
- Cultural Resources
- Geology and Soils
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Noise
- Traffic and Circulation
- Utilities

A copy of the Initial Study, NOP and comment letters are included in Appendix A of this EIR.

Although not identified in the Initial Study, the EIR analyzes economic impacts (urban decay) potential from implementation of the Proposed Project. The analysis is provided in Section 4.10 of this EIR, and a copy of Retail Impact Study is provided in Appendix J.

2.8.3 Issues Raised in Comments on the NOP

The following issues were raised in comments received on the NOP:

- East Valley Water District
 - The District requested that, prior to site development, existing sewer and water mains on-site need to be properly abandoned, per approved plans, with the exception of one, 12-inch water main along the frontage road of Highland Avenue within the property boundary, and two water mains (a 12-inch and 20-inch) along Arden Avenue that need to be protected in place.
- City of Highland
 - The City of Highland requested that an economic analysis be included in the EIR to identify potential impact to the existing businesses in the area (inclusive of the City of Highland within a minimum one-mile radius of the site) and discuss the possible loss and closing of businesses. The City's Engineering Division also requested a copy of the Project's Traffic Study.
- Department of Toxic Substances Control
 - The Department of Toxic Substances Control (DTSC) requests that the EIR evaluate whether conditions within the Project area may pose a threat to human health or the environment.
 - The EIR should identify the mechanism to initiate any requested investigation and/or remediation for any site within the project area that may be contaminated.

- Any environmental investigations, sampling and/or remediation for a site should be conducted under a work plan approved and overseen by a regulatory agency. Any closure, certification or remediation approval reports should be included in the EIR.
 - If buildings, other structures, asphalt or concrete-paved surfaces areas are to be demolished, an investigation should be conducted for the presence of hazardous materials.
 - During earthmoving activities, if contaminated soils are encountered, it must be properly disposed of in accordance with state and federal regulations.
 - Human health and the environment of sensitive receptors should be protected during any construction or demolition activities.
 - If the site was used for agricultural, livestock or related activities, on-site soils and groundwater might contain pesticides, agricultural chemicals, organic waste or other related residue. Appropriate investigation and remedial actions would be necessary.
 - If it is determined that hazardous wastes are, or will be generated by the proposed operations, the wastes must be managed in accordance with the California Hazardous Waste Control Law and the Hazardous Waste Control Regulations.
- Native American Heritage Commission
 - The NAHC indicated that based on the USGS coordinates of the project location provided, no Native American cultural resources were identified in the area of potential effect according to the NAHC Scared Lands File search
 - The NAHC request early consultation with Native American tribes in the area and identified on an attached list of Native American contacts.
 - NAHC recommends contacting the California Historic Resources Information System (CHRIS) for pertinent archaeological data.
 - Request the following of State and Federal regulations for the accidental discovery of archeological resources, and mandated processes required in the event human remains are unearthed during construction.

2.8.4 Public Scoping Meeting

The RDA held a public scoping meeting for the Proposed Project on Thursday, June 30, 2011. No members of the public attended, and no comments were received.

2.8.5 Draft EIR

Circulation of the Draft EIR begins when a Notice of Completion (NOC) is filed with the State Office of Planning and Research (State Clearinghouse). Filing the NOC starts the 45-day review period for the Draft EIR. Concurrent with the filing of the NOC, the lead agency will also provide a Notice of Availability of the Draft EIR to all organizations and individuals that have previously requested such notice or are located in proximity to the project site. This notice briefly describes the proposed project; identifies the date when comments must be received and where they are to be sent; and provides locations where copies of the Draft EIR can be reviewed (CEQA Guidelines section 15085 through section 15087).

Anyone reviewing the document may submit written comments to the RDA during this period. Responses to the comments received will be prepared and included in the Final EIR to be prepared prior to the City taking action on the proposed project during a public hearing before the City's Planning Commission.

Comments on the Draft EIR may be sent to:

Redevelopment Agency of the City of San Bernardino
Attn: John Oquendo, Planner II
201 North E Street, Suite 301
San Bernardino, CA 92401
Email: joquendo@sbrda.org

In conjunction with the preparation of the Draft EIR, a Mitigation Monitoring and Reporting Program (MMRP) has been prepared (CEQA section 21081.6). The MMRP contains the mitigation measures along with the action that must be taken to implement them and the method that would be used to document or verify fulfillment of the measure. A procedure for determining and recording compliance is outlined for each action that must be implemented by the project applicant to mitigate impacts as identified in the EIR and adopted when the project is approved. This procedure identifies what action would be taken and when, designates who would be responsible for implementing the action, and to whom and when compliance would be reported.

2.8.6 Final EIR

At the end of the public review period, written comments on the project will be compiled and responses generated in conjunction with the preparation of the Final EIR. The Final EIR will consist of a list of all persons, organizations, and public agencies commenting on the Draft EIR; copies of the comments received on the Draft EIR; responses to comments; and any other pertinent information added by the lead agency (CEQA Guidelines section 15132).

The Final EIR will serve as the CEQA compliance document for the RDA and any other agencies that may be responsible for review of the proposed project and issuance of required permits (see Section 1.2.2).

2.9 ACRONYMS

| | |
|---------------|---|
| AAQS | Ambient air quality standards |
| AASHTO | American Association of Safe Highway and Transportation Officials |
| ADT | Average daily traffic |
| AQMD | Air Quality Management District |
| AQMP | Air Quality Management Plan |
| BACT | Best available control technology |
| BLM | Bureau of Land Management |
| BMP | Best Management Practices |
| CAA | Clean Air Act |

| | |
|-----------------------|---|
| CAAA | Clean Air Act Amendments |
| CAAQS | California Ambient Air Quality Standards |
| CalEEMod | California Emissions Estimator Model |
| CALTRANS | California Department of Transportation |
| CARB | California Air Resources Board (also ARB) |
| CAT | Climate Action Team |
| CCR | California Code of Regulations |
| CDFG | California Department of Fish and Game |
| CEC | California Energy Commission |
| CESA | California Endangered Species Act |
| CEQA | California Environmental Quality Act |
| CFR | Code of Federal Regulations |
| CGS | California Geological Survey |
| CHL | California Historical Landmarks |
| CHP | California Highway Patrol |
| CNDDB | California Natural Diversity Database |
| CNEL | Community Noise Equivalent Level |
| CNPS | California Native Plant Society |
| CO | Carbon monoxide |
| CO₂ | Carbon dioxide |
| CPHI | California Points of Historical Interest |
| CRHR | California Register of Historical Resources |
| CUP | Conditional Use Permit |
| CUPA | Certified Unified Program Agency |
| CWA | Clean Water Act |
| dB | Decibel |
| dBA | A-weighted decibel scale |
| DDA | Disposition and Development Agreement |
| DOT | Department of Transportation |
| DPM | Diesel particulate matter |
| DTSC | Department of Toxic Substances Control |
| EBL | Eastbound Left |
| EBR | Eastbound Right |
| EBT | Eastbound Through |
| EIR | Environmental Impact Report |
| ESA | Endangered Species Act |
| EPA | Environmental Protection Agency (federal and state) |
| F | Fahrenheit |
| FEMA | Federal Emergency Management Agency |
| FESA | Federal Endangered Species Act |
| FHWA | Federal Highway Administration |
| GHG | Greenhouse gases |
| GPM | Gallons per minute |
| GPA | General Plan Amendment |
| HAPS | Hazardous air pollutants |
| HCM | Highway Capacity Manual |

| | |
|-------------------------|---|
| HFC | Hydrofluorocarbons |
| HMMD | Hazardous Materials Management Division |
| HRI | Historic Resources Inventory |
| IPCC | International Panel on Climate Change |
| ITE | Institute of Transportation Engineers |
| IVDA | Inland Valley Development Agency |
| L_{eq} | Equivalent noise levels |
| L_{max} | Maximum sound level |
| L_{min} | Minimum sound level |
| LOS | Level of service |
| LST | Localized significance threshold |
| MCE | Maximum Credible Earthquake |
| MG | million gallons |
| MGD | Million gallons per day |
| MMRP | Mitigation Monitoring and Reporting Program |
| MPE | Maximum probable [earthquake] event |
| mph | Miles per hour |
| MSL | Mean sea level |
| M_w | Moment Magnitude |
| NAAQS | National ambient air quality standards |
| NAHC | North American Heritage Commission |
| NBL | Northbound Left |
| NBR | Northbound Right |
| NBT | Northbound Through |
| NO₂ | Nitrogen dioxide |
| NOC | Notice of Completion |
| NOI | Notice of Intent |
| NOP | Notice of Preparation |
| NO_x | Nitrogen oxides |
| NPDES | National Pollutant Discharge Elimination System |
| NRHP | National Register of Historic Place |
| OEHHA | Office of Environmental Health Hazards Assessment |
| OPR | Office of Planning and Research (California) |
| OSHA | Occupational Safety and Health Administration |
| O₃ | Ozone |
| Pb | Lead |
| PCE | Passenger car equivalent, generally 1 truck being equal to approximately 1.5-2 cars |
| PM_{2.5} | Fine particulate matter with diameter of 2.5 microns or less |
| PM₁₀ | Particulate matter with diameter of 10 microns or less |
| ppm | Parts per million |
| ppm_v | Parts per million by volume |
| REL | Reference exposure level (for health risk assessments) |
| RDA | Redevelopment Agency of the City of San Bernardino |
| RMP | Risk Management Plan |
| ROWD | Report of Waste Discharge |
| ROG | Reactive organic gases |

| | |
|-----------------------|--|
| RPLI | Regional Paleontologic Location Inventory |
| RTIP | Regional Transportation Improvement Program |
| RWQCB | Regional Water Quality Control Board |
| SO₂ | Sulfur dioxide |
| SBL | Southbound Left |
| SBR | Southbound Right |
| SBT | Southbound Through |
| SCAB | South Coast Air Basin |
| SCAG | Southern California Association of Governments |
| SCAQMD | South Coast Air Quality Management District |
| SF | square feet |
| SR | State Route |
| SRA | Source receptor area |
| SWPPP | Stormwater Pollution Prevention Program |
| TAC | Toxic air contaminants |
| TDS | total dissolved solids |
| TIA | Traffic Impact Analysis |
| URF | Unit risk factor (for health risk assessments) |
| USFWS | United States Fish and Wildlife Service |
| USGS | United States Geological Survey |
| VOC | Volatile organic compound |
| VPHG | Vehicles per hour of green |
| WDR | Waste discharge requirements |
| WBL | Westbound Left |
| WBR | Westbound Right |
| WBT | Westbound Through |
| WQMP | Water Quality Management Plan |

2.10 GLOSSARY OF TERMS

Acre-foot: Volume of liquid or solid required to cover an area of one acre to a depth of one foot. Equals approximately 325,850 gallons of water.

Active fault: Geologic fault with recent seismic activity that has displaced materials not more than 12,000 years old.

Alquist-Priolo Fault Zone: State-identified areas of potentially active and recently active faults.

Alquist-Priolo Special Studies Zones Act: Places specific responsibilities on local governments for identification and evaluation of seismic and geologic hazards, and formulation of programs and regulations to reduce risk in identified locations.

Aquifer: A geological formation that is sufficiently permeable to conduct groundwater and to yield significant quantities of water to wells and springs.

California Endangered Species Act: California state legislation, enacted in 1984, with the intent to protect floral and faunal species by listing them as “rare,” “threatened” “endangered,” or

“candidate” and by providing a consultation process for the determination and resolution of potential adverse impact to the species.

California Environmental Quality Act (CEQA): Policies enacted in 1970, and subsequently amended (through September 2004), the intent of which is the maintenance of a quality environment for the people of California now and in the future.

CALINE4: Computer Model, air quality model developed by the California Department of Transportation.

CNEL: Community Noise Equivalent Level-a noise index that accounts for the greater annoyance of noise during evening and nighttime hours.

Discretionary actions: Conditions which can be imposed on a project action prior to approval for implementation. The approval would thus be “at the discretion” of an agency.

EMFAC2002: A computer program published by the California Air Resources Board (CARB) that calculates on road vehicle emissions.

Endangered species: A species whose prospects of survival and reproduction in the wild are in immediate jeopardy from one or more causes.

Environmental Impact Report (EIR): Document in which the impacts of any state or local, public or private project action which may have a significant environmental effect are evaluated prior to its approval and subsequent construction or implementation, as required by the California Environmental Quality Act.

Fault: A geologic fracture or fracture zone along which there has been displacement of the sides relative to one another.

Groundwater: Water found beneath the land surface in the zone of saturation below the water table.

Hazardous material: Substance which, because of its potential for either corrosivity, toxicity, ignitability, chemical reactivity, or explosiveness, may cause injury to persons or damage to property.

Hydrogeology: The study of surface and subsurface water.

Lead Agency: The public agency which has the principal responsibility for carrying out or approving a project.

Level of Service (LOS): An indicator of traffic conditions at an intersection or on a stretch of roadway, and of the delay that can be expected in the general area; A is the best (no delay) and F is the worst.

Notice of Preparation (NOP): A brief notice sent by the public agency with principal responsibility for carrying out or approving a project to notify other agencies that an EIR is being prepared.

NO_x: A generic term for various oxides of nitrogen.

Ozone (O₃): An end product of complex reactions between reactive organic gases (or non-methane hydrocarbons) and nitrogen oxides (NO_x) in the presence of intense ultraviolet radiation.

Rare species: A species which, although not presently threatened with extinction, is in such small numbers throughout its range that it may become endangered if its present environmental worsens.

Regional Water Quality Control Board (RWQCB): Agency which administers the requirements of the California Administrative Code, Title 23, Division 3, Chapter 15 (Section 2595,g,7) to ensure the highest possible water quality consistent with all demands.

Responsible agency: A public agency which proposes to carry out or approve a project for which a lead agency has prepared an EIR. A responsible agency is any agency with discretionary approval over a project.

Right-of-way (ROW): The right to pass over property owned by another. The strip of land over which facilities such as roadways, railroads, or power lines are built.

Seismicity: The likelihood of an area being subject to earthquakes.

Sensitive species: Generic term for any plant or animal species which is recognized by the government or by any conservation group as being depleted, rare, threatened, or endangered.

Significant environmental impact: As defined by CEQA, Chapter 3, Article 1, Section 15002(g), “a substantial adverse change in the physical conditions which exist in the area affected by the proposed project.”

Threatened Species: Species which, although not presently threatened with extinction, is likely to become endangered in the foreseeable future in the absence of special protection and management efforts.

Trustee Agency: A state agency having jurisdiction over natural resources that may be affected by the project, which are held in trust by the state. These include the California Department of Fish and Game, State Lands Commission, and State Department of Parks and Recreation.

Waste discharge requirements: Regulation described in Title 23, Division 3, Chapter 15, of the California Code of Regulations which governs discharge of wastes to land in order to preserve the quality of the state’s surface and ground waters.