

COMMUNITY & ECONOMIC DEVELOPMENT DEPARTMENT

PLANNING DIVISION

REVISED DRAFT MITIGATED NEGATIVE DECLARATION

WARD: 4

1. Case Number: PR-2022-001293 (Project Number), Grading Exception (GE), Tentative Parcel

Map (TPM)

2. **Project Title:** Alpine Meadows Estates, TPM 38174 (Tentative Parcel Map)

3. **Hearing Date:** TBD

4. **Lead Agency:** City of Riverside

Community & Economic Development Department

Planning Division

3900 Main Street, 3rd Floor Riverside, CA 92522

5. **Contact Person:** Candice Assadzadeh, City of Riverside, Senior Planner

6. **Phone Number:** 951-826-5667

7. **Project Location:** The 5.74-acre project site is situated east of Harbart Drive, west of Kingdom Drive,

north of Horizon View Drive, and south of Alpine Meadows Lane. The project site is located in the neighborhood of Alessandro Heights in the City of Riverside, California. The project site consists of Assessor Parcel Number (APN) 243-230-027. The project site is located in Section 13, Township 3 South, Range 5 West, San Bernardino Baseline and Meridian on the US Geological Survey Riverside East, California 7.5-minute topographic quadrangle. Refer to Figure 1 - Regional

Vicinity, Figure - 2, Project Site Map, and Figure 3 – Topographic Map.

8. Project Applicant/Project Sponsor's Name and Address:

Jerardo Reyes and Ryan Williams 785 Woodcrest Court, Bloomington, CA 92316

9. **General Plan Designation:** VLDR – Very Low Density Residential

10. **Zoning:** R-1-1/2 Acre – Single Family Residential Zone

11. Existing Setting: The project site consists of a single parcel situated within the Alessandro Heights area of the City of Riverside, California. The hills slope to the southwest and water runoff enters unnamed mapped ephemeral bluelines that join behind Prado Dam. The site currently contains an inhabited residence and associated outbuilding/garage. Alpine Meadows Lane is a residential collector street that serves the project site. The project site is largely within the mapped extent of the Prenda Arroyo, as identified in the Riverside Municipal Code (RMC), Title 17 Grading, Exhibits A-F, and is therefore subject to the requirements of the Hillside/Arroyo Grading Ordinance. The Prenda Arroyo contains Prenda Creek, an ephemeral drainage that is a blueline stream on U.S. Geological Survey (USGS) maps. Prenda Creek is located about 150 feet south of the parcel, at its closest point. An ephemeral drainage that is tributary to Prenda Creek crosses the southeast portion of the project site from east to west.

12. **Description of Project:** The proposed project includes the following entitlement applications: Tentative Parcel Map and Grading Exception The project includes subdividing the existing single 5.74-acre parcel into 4 lots (Tentative Parcel Map No. 38174) and develop 3 new single family residential units on lots 2-4. The existing residence will remain and placed in its own lot ("Lot 1"). A Grading Exception is needed to allow grading within the extent of the mapped Prenda Arroyo (as identified in the Riverside Municipal Code (RMC), Title 17 Grading, Exhibits A-F). An area east of Lot 4 will not be developed and will remain as natural open space. The lot sizes will be approximately 1 acre each (~1.07 net acres or ~1.14 gross acres or ~46, 480 square feet each). The proposed project involves grading of pads, construction of 3 new single-family residential units, and associated utility connections. An Open Space Easement will be recorded for the portions of Lots 2-4 located outside of the grading limits.

Single Family Residences

The proposed single-family residences will be one story in height and consist of two primary floor plans. As shown on the table below, the residences floor area would average in size; 3,340 square feet (SF) living area, 882 SF garage area (3-car garage), 282 SF covered patio #1 area, 75 SF covered patio #2 area, for a total footprint area of 4,579 SF. Additionally, each of the residences would include a driveway, backyard, and 610 SF uncovered courtyard area.

Table 1: Floor Plan Characteristics

	Total Footprint Area	Living Area	Garage	Covered Patio #1 Area	Covered Patio #2 Area	Bedrooms	Baths
Residences 1, 2, & 3	4,579 SF	3,340 SF	882 SF	282 SF	75 SF	4	3

Drainage

Stormwater and non-stormwater drainage from the residential pads are designed to flow to self-retaining landscaped areas in the northwest corners of each lot, with any overflow, discharging to Alpine Meadows Lane. Stormwater runoff from the undeveloped portions of the site will continue to drain via sheet flow in a southwest direction to the existing ephemeral drainage that crosses the southeast portion of the project site from east to west and is tributary to Prenda Creek, located offsite and to the south of the project.

Grading

The grading (earthwork cut and fill quantities) is expected to balance, with no need to import or export earthen material.

Construction and Operation

Construction is anticipated to occur over an approximate 12 to 18-month period. The first approximate 3 months of construction would include site preparation and grading. The following approximate 9-15 months of construction would include building construction, roadway paving, architectural coatings/painting, and landscaping. Construction is anticipated to start as early as 2023 and be completed in 2024.

13. Surrounding land uses and setting: Briefly describe the project's surroundings:

	Existing Land Use	General Plan Designation	Zoning Designation
Project Site	Single Family Residential	VLDR – Very Low Density Residential	R-1-1/2 acre – Single Family Residential Zone
North	Single Family Residential	HR – Hillside Residential	RC – Residential Conservation Zone
East	Vacant and Single Family Residential	HR – Hillside Residential	RC – Residential Conservation Zone
South	Vacant and Single Family Residential	VLDR – Very Low Density Residential and OS – Open Space/Natural Resources	R-1-1/2 acre – Single Family Residential Zone
West	Single Family Residential	VLDR – Very Low Density Residential and OS – Open Space/Natural Resources	R-1-1/2 acre – Single Family Residential Zone

14. Other public agencies whose approval is required (e.g., permits, financial approval, or participation agreement.):

- a. California State Water Resources Control Board to obtain coverage under the General Construction Storm Water Permit (Water Quality Order 2009-0009-DWQ) regulating storm water runoff from construction sites one (1) acre in size and greater.
- 15. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significant impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

Per AB 52, Native American consultation is required upon request by a California Native American tribe that has previously requested that the City provide it with notice of such project. On May 19, 2022 the City of Riverside sent the required notices to the relative tribes though certified mail. The following Native American Tribes were notified: Morongo Band of Mission Indians, San Gabriel Band of Mission Indians, Gabrieleno Band of Mission Indians – Kizh Nation, Pechanga Band of Luiseño Mission Indians, Soboba Band of Luiseño Indian, Rincon Band of Luiseño Indians, Morongo Band of Mission Indians, Cahuilla Band of Indians, San Manuel Band of Mission Indians, Agua Caliente Band of Cahuilla Indians. As a result of AB 52 consultation with interested tribes, mitigation measures (MM Cul-1 through MM Cul-4) will be applied to the project.

16. Other Environmental Reviews Incorporated by Reference in this Review:

- a. City of Riverside, General Plan 2025
- b. City of Riverside, General Plan 2025 Final Program Environmental Impact Report (GP 2025 FPEIR)
- c. Riverside Municipal Code (RMC), Title 17 Grading Code, Title 18 Subdivision Code, Title 19 Zoning Code, Title 20, Cultural Resources

17. List of Appendices:

- a) Appendix A: Revised Biological Resources Assessment and Breeding Season Burrowing Owl Survey, Prepared by L&L Environmental, Inc., September 2021, revised May 2022, July 2022, August 2022, October 2022
- b) Appendix B: Western Riverside County Multiple Species Habitat Conservation Plan Consistency Analysis, Prepared by L&L Environmental, Inc., September 2021, revised August 2022, October 2022, March 2023, May 2023
- c) Appendix C: Jurisdictional Delineation, Prepared by L&L Environmental, Inc., July 2022
- d) Appendix D: Phase I Cultural Resources Assessment, Prepared by L&L Environmental, Inc., December 2021, revised April 2023, June 2023.
- e) Appendix E: Fire Protection Plan, Prepared by Firewise 2000 LLC, February 2023; Revised April 2023; January 2024.
- f) Appendix F: Preliminary Project Specific Water Quality Management Plan, Prepared by Ackerman Associates 2000 Inc., March 2022

18. Acronyms

AICUZ -	Air Installation	Compatible	Use Zone Study
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AQMP - Air Quality Management Plan AUSD - Alvord Unified School District

CEQA - California Environmental Quality Act

CMU - Concrete Masonry Unit

CMP - Congestion Management Plan
EIR - Environmental Impact Report
EMWD - Eastern Municipal Water District
EOP - Emergency Operations Plan

FEMA - Federal Emergency Management Agency

FPEIR - GP 2025 Final Programmatic Environmental Impact Report

GIS - Geographic Information System

GhG - Green House Gas GP 2025 - General Plan 2025

IS - Initial Study

kBTU Kilo British Thermal Units LHMP - Local Hazard Mitigation Plan

MARB/MIP - March Air Reserve Base/March Inland Port

MJPA-JLUS - March Joint Powers Authority - Joint Land Use Study

MSHCP - Multiple-Species Habitat Conservation Plan MVUSD - Moreno Valley Unified School District NCCP - Natural Communities Conservation Plan

OEM - Office of Emergency Services
OPR - Office of Planning & Research, State
PEIR - Program Environmental Impact Report
PRD - Planned Residential Development

PW - Public Works, Riverside

RCALUC - Riverside County Airport Land Use Commission
RCALUCP - Riverside County Airport Land Use Compatibility Plan

RCP - Regional Comprehensive Plan

RCTC - Riverside County Transportation Commission

RMC - Riverside Municipal Code RPD - Riverside Police Department RPU - Riverside Public Utilities

RTIP - Regional Transportation Improvement Plan

RTP - Regional Transportation Plan RUSD - Riverside Unified School District SCAG - Southern California Association of Governments SCAQMD - South Coast Air Quality Management District

SCH - State Clearinghouse

SKR HCP - Stephens' Kangaroo Rat Habitat Conservation Plan

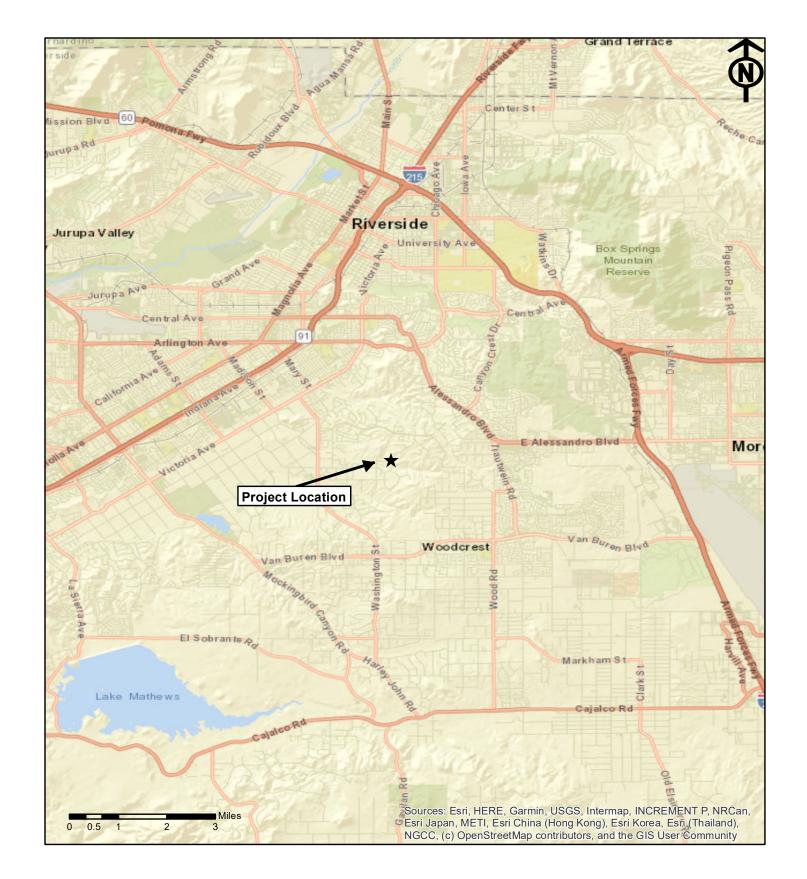
SWPPP - Storm Water Pollution Prevention Plan

USGS - United States Geologic Survey
WMWD - Western Municipal Water District
WQMP - Water Quality Management Plan

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

that is a "Potentially Significant Impact" or "Less Than Significant With Mitigation Incorporated" as indicated by the checklist on the following pages. Aesthetics Agriculture & Forest Resources Air Quality Biological Resources Cultural Resources Energy Geology/Soils Greenhouse Gas Emissions Hazards & Hazardous Materials Hydrology/Water Quality Land Use/Planning Mineral Resources Population/Housing **Public Services** Noise Recreation Transportation Tribal Cultural Resources Wildfire Mandatory Findings of Utilities/Service Systems Significance **DETERMINATION:** (To be completed by the Lead Agency) On the basis of this initial evaluation which reflects the independent judgment of the City of Riverside, it is recommended that: The City of Riverside finds that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared. The City of Riverside finds that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by M the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared. The City of Riverside finds that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required. The City of Riverside finds that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed. The City of Riverside finds that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required. Signature _____ For <u>City of Riverside</u> Printed Name & Title Candice Assadzadeh, Senior Planner

The environmental factors checked below would be potentially affected by this project, involving at least one impact



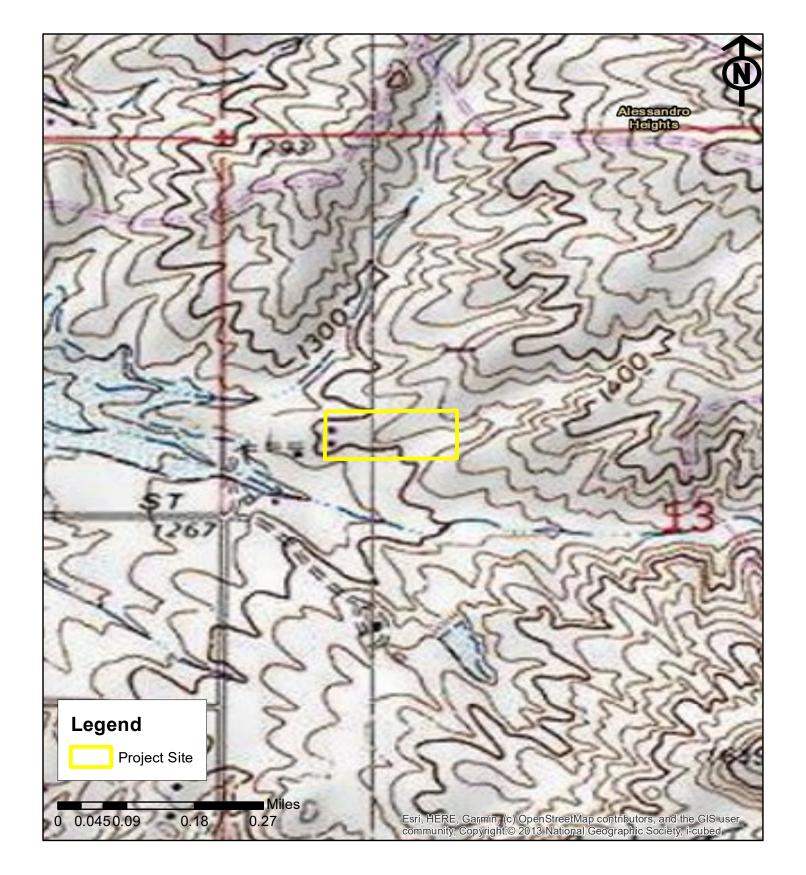
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COMMUNITY & ECONOMIC DEVELOPMENTDEPARTMENT

PLANNING DIVISION

ENVIRONMENTAL INITIAL STUDY

EVALUATION OF ENVIRONMENTAL IMPACTS:

- A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).
- Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a. Earlier Analysis Used. Identify and state where they are available for review.
 - b. Impacts Adequately Addressed. Identify which effects from the above checklist were with in the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
 - c. **Mitigation Measures.** For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measure which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

8)	The e	xplanation of each issue should identify:
	a.	the significance criteria or threshold, if any, used to evaluate each question; and
	b.	the mitigation measure identified, if any, to reduce the impact to less than significance.

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact	Impact
1. AESTHETICS. Except as provided in Public Resources Code Section 21099, would the project:				
a. Have a substantial adverse effect on a scenic vista?				
1a.Response: (Source: General Plan 2025 Figure CCM-4 – M 5.1-1 – Scenic and Special Boulevards and Parkways, Table Scenic Parkways)				
Less than Significant Impact. According to the City's General Plan 20 enhance the visual character of Riverside and provide distinguishing of Riverside offer scenic benefits. The City's General Plan 2025 por community preservation objectives. The General Plan provides exam Mountain, Mt. Rubidoux, Arlington Mountain, Alessandro Heights as as a scenic vista in the City General Plan 2025 and there is no scer scenic boulevard/parkway is Overlook Parkway approximately 0.6-m project will not result in development on a scenic hillside or ridgelic view of a scenic vista nor alter a scenic vista. The Citywide Design first defining, then reducing interruptions of scenic vistas, maintaining reducing light and glare. The Citywide Design and Sign Guideline. Guidelines will reduce any potential impacts to less than significant. It setback, and landscaping requirements - direct, indirect, and cumulated	characteristics. chicies aim at apples of scenic and the La Sier aic vista in the sile north but is ne. According and Sign Guing, and enhances encourage harough comp	Furthermore, balancing dev c viewpoints s ra/Norco Hills e project site's s not visible fregly, the proposidelines limit i cing scenic resigh-quality de bliance with the	the hillsides and elopment interpreted as the pear. The project so immediate vious the project will mpacts to aest sources and visign, and imple Zoning Code.	and ridgelines above brests with broader alks of Box Springs lite is not identified acinity. The closest site. The proposed all neither block the thetic resources by sual character, and allementation of the 2's building height,
b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				
1b. Response: (Source: General Plan 2025 Figure CCM-4 – M 5.1-1 – Scenic and Special Boulevards, Parkways, Table 5. Parkways, the City's Urban Forest Tree Policy Manual, Titi 19.100 – Residential Zones - RC Zone)	.1-A – Scenic	and Special E	Boulevards, To	able 5.1-B – Scenic
Less than Significant Impact. There are no scenic highways with eligible scenic highway is Interstate Highway 15 (13 miles from proj The City's General Plan 2025 designates Scenic Boulevards and P character of Riverside. The closest designated scenic boulevard is Ov site does contain a small area of rock outcropping in the northeast of the closest designated scenic boulevard, Overland Parkway, and fur impacted and will have an Open Space Easement recorded on it. The development and some scattered undeveloped/vacant lots. The City resources by first defining, then reducing interruptions of scenic vis character, and reducing light and glare. The Citywide Design implementation of the Guidelines will reduce any potential impacts to which contains an ephemeral drainage that is tributary to Prenda Cre trees or historic buildings within the project development footprint, Through compliance with the Zoning Code's building height, set cumulative impacts to scenic resources are less than significant imp	ect site), which arkways to prerland Parkways orner of the signature of th	h is outside the cotect scenic roay, but it is not te. As stated a ion of the site surrounded by and Sign Guidang, and enhantidelines enconificant. The solided and remaine potentially i	e City of River esources and ovisible from the bove, the site will not be grexisting single lelines limit in cing scenic re- urage high-quouthern portion in in place. For impacted because	rside's jurisdiction. enhance the visual he project site. The is not visible from raded or otherwise e-family residential mpacts to aesthetic esources and visual hality design, and n of the project site hality, there are no hality there are no hality of this project.
c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site the site and its surroundings? (Public views are those that are experienced from a publicly-accessible vantage point). If the				

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact	Ппрасс
with applicable zoning and other regulations governing scenic quality?				
1c. Response: (Source: General Plan 2025)				
Less than Significant Impact. The project site is located within an unthe north, east, south and west. The proposed project will not conflict Residential Zone. The proposed project will comply with all pertinent Design Guidelines to assure quality site design and building architandscaping. Direct, indirect, and cumulative impacts on the visual classical confliction.	ict with the ex nt design requ tecture that is	cisting zoning, irements of the of high quali	R-1-1/2 Acre E Zoning Code ty. This inclu	e – Single Family e and the Citywide des installation of
d. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				
1d. Response: (Source: General Plan 2025, Title 19 – Article VII Guidelines)	I – Chapter	19.556 – Ligh	ting, Citywid	e Design and Sign
Less than Significant Impact. The proposed project would not consider adversely affect day or nighttime views in the area. Although the coutdoor lighting, all lighting will be required and designed to compact Zoning Code (Title 19). Chapter 19.590 (Performance Standards) required adjoining property or any public streets. Light shall not be directed so As shown in the City's General Plan EIR Figure 5.1-2, Mt. Paloma Mount Palomar Lighting Area. The area surrounding the project site Code and California Building and Green Code standards will reduce less than significant levels, directly, indirectly, and cumulatively.	levelopment of ply with the course that on-skyward or in a result. Nighttime L is developed with the course the course of the co	of three new relevelopment so ite lighting be a manner that in the cighting Policy with residentia	esidential built andards conta arranged as to nterferes with Area, the site I units. Compl	dings will include ained in the City's reflect away from aircraft operation. e is not within the liance with Zoning
2. AGRICULTURE AND FOREST RESOURCES:				
In determining whether impacts to agricultural resources are significal California Agricultural Land Evaluation and Site Assessment Model an optional model to use in assessing impacts on agriculture and far including timberland, are significant environmental effects, lead ag Department of Forestry and Fire Protection regarding the state's Assessment Project and the Forest Legacy Assessment project; and Forest Protocols adopted by the California Air Resources Board. Wo	(1997) preparallel (1997) mland. In defencies may reinventory of the forest carbould the project	red by the Cal termining whe fer to informa forest land, i on measurement	ifornia Dept. of ther impacts to tion complied including the	of Conservation as o forest resources, I by the California Forest and Range
agricultural use?				
2a. Response: (Source: General Plan 2025 – Figure OS-2 – Agricultural Resources)	Agricultural S	Suitability & C	General Plan	2025 FPEIR – 5.2
No Impact. The project site is located within a rural residential area. General Plan 2025 reveals that the project site is identified and design any land classified as Prime Farmland, Unique Farmland, or Farmland the California Department of Conservation. Therefore, the project with	ated as Other d of Statewide	Land. The pro Elmportance a	ject site is also s shown on th	o not designated as e map prepared by
b. Conflict with existing zoning for agricultural use, or a Williamson Act contract?				

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact	
2b. Response: (Source: General Plan 2025 – Figure OS-3 - Will 5.2-4 – Proposed Zones Permitting Agricultural Uses, and I			neral Plan 202	25 FPEIR – Figure
No Impacts. A review of Figure 5.2-2 – Williamson Act Preserves o not located within an area that is affected by a Williamson Act Preser site is zoned Single Family Residential Zone (R-1 ½ acre). The p Williamson Act contract and therefore, the project will have no impa	ve or under a roposed proje	Williamson Acct does not co	ct Contract. M onflict with ex	oreover, the project
c. Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)) timberland (as defined in Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?				
2c. Response: (Source: GIS Map - Forest Data)				
No Impacts. The City of Riverside has no forest land or timberland. 1 ½ acre). The project site is not zoned for forest land or timberla directly, indirectly, or cumulatively.				
d. Result in the loss of forest land or conversion of forest land to non-forest use?				\boxtimes
2d. Response: (Source: GIS Map - Forest Data)			-	
No Impacts. The City of Riverside has no forest land or timberland indirectly, or cumulatively.	; therefore, n o	o impacts will	occur from the	is project directly,
e. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				\boxtimes
2e. Response: (Source: General Plan - Figure OS-2 - Agricul	tural Suitabil	ity, Figure OS	5-3 – Williams	on Act Preserves)
No Impacts. The project is in a generally developed area of the California Department of Conservation and does not support agricult conversion of designated farmland to non-agricultural uses. In additional farmlands within proximity of the subject site. Therefore, no impacts to conversion of Farmland, to non-agricultural use or to the loss of for	ural resources on, there are n will occur fron	or operations. o agricultural	. The project v resources or op	vill not result in the perations, including
3. AIR QUALITY.				
Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:				
a. Conflict with or obstruct implementation of the applicable air quality plan?				\boxtimes
3a. Response: (Source: South Coast Air Quality Management A	District's 201	6 Air Quality 1	Management	Plan (AQMP))
No Impact. The proposed project is consistent with the Gene aspects. The 2016 Air Quality Management Plan (AQMP) for the program that will lead the SCAB into compliance with all Federal and	South Coast	Air Basin (SC	AB) sets forth	n a comprehensive

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With Mitigation	Impact	-
within the Riverside County sub region of the SCAB projections. The of the General Plan 2025 would generally meet attainment forecasts proposed project is consistent with the General Plan 2025 and thus a obstruct implementation of the applicable air quality plan – AQM indirectly, or cumulatively to the implementation of an air quality plan.	and attainments and the 2016 A	nt of the standa QMP, the pro	ards of the AC posed project	MP. Because the will not conflict or
b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard?				
3b. Response: (Source: General Plan 2025 FPEIR Table 5.3-B Coast Air Quality Management District's 2016 Air Quality			l Significance	Thresholds, South
Less than Significant Impact. Per the GP 2025 FPEIR, AQMP thres Plan are projected to result in significant levels of NOx and ROG, but term emissions are expected to decrease by 2025, all criteria pollutar. The portion of the Basin within which the City is located is designated under State standards, and as a non-attainment area for ozone, carbon	th ozone precu nts remain abo nated as a non-	rsors, PM-10, ve the SCAQN attainment are	PM-2.5 and C MD thresholds a for ozone, I	O. Although long- PM-10 and PM-2.5
Because the proposed project is consistent with the General Plan 2 project were previously evaluated as part of the cumulative analy Program. As a result, the proposed project does not result in any ne for which a statement of overriding considerations was adopted as parquality emissions impacts are less than significant .	ysis of build w significant rt of the Gener	out anticipate impacts that w ral Plan 2025 F	d under the Gere not previous PEIR. Theref	General Plan 2025 busly evaluated and
c. Expose sensitive receptors to substantial pollutant concentrations?				
c. Response: (Source: General Plan 2025 FPEIR Table 5.3-B Coast Air Quality Management District's 2016 Air Quality Mand Burrowing Owl Survey prepared by L& L Environmen	Management I tal, Inc. Septe	Plan, Revised I Imber 2021, R	Biological Res evised May an	sources Assessment ad July 2022)
Less than Significant Impact. Construction is anticipated to ocapproximate 3 months of construction would include site preparation construction would include building construction, roadway paving, a anticipated to be constructed and operational sometime between late 2 as 2023 and be completed in 2024.	on and gradin rchitectural co	g. The follow patings/paintin	ing approximg and landsca	ate 9-15 months of ping. The project is
Short-term impacts associated with construction from General Plan from grading, earthmoving, and construction activities. Mitigation M development to employ construction approaches that minimize plan MM AIR 5, e.g., watering for dust control, tuning equipment, limit	easures of the pollutant emi	General Plan ssions (Gener	2025 FPEIR	requires individual
The closest sensitive receptors are the adjacent residences surrounding in Lot 1 is approximately 25-30 feet from the property line with approximately 75-80 feet from the property line with Lot 2. The Bio wildlife species were observed in or around the site, including Coope to the existing residence in Lot 1, and a Nuttall's woodpecker heard the General Plan 2025 FPEIR MM AIR 1 and MM AIR 7, and the factor proposed project would exceed SCAOMD thresholds for short-term of	n Lot 2 and logical Resour's hawk in the vocalizing just that the project that the project.	the closest ex rces Assessme e southwest co t offsite in Pre ect is small in	isting residen ent indicated a orner of the sit enda Creek. In scale, it is not	ce to the north is few special status e in a tree adjacent conformance with anticipated that the

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact	
Therefore, the project will not expose sensitive receptors to significant impact will occur directly, indirectly or cumulatively for		pollutant co	oncentrations	and a less	tnan
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?					
3d. Response: (Source: General Plan 2025 FPEIR, Section 5.3) Less than Significant Impact. While exact quantification of objet nature of what is considered "objectionable," the nature of the infrastructure improvements present a potential for the generation of activities. Single family residences are not typically associated construction activities associated with the expected build out of the emissions and architectural coating applications. However, said emi in duration, and would be isolated to the immediate vicinity of the connumber of people to objectionable odors on a permanent basis. Ther a substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than significant impact displays the substantial number of people and a less than signifi	ectionable odo proposed re- f objectionable with the gen- project site v ssions would astruction site.	ors cannot be of sidential deve e odors associal eration of objictil generate as occur only dur Therefore, the ect will not ca	determined du lopment projected with short ectionable od irborne odors ing daylight hey would not e	ect and asso t-term constru- ors. Howeve like diesel ex- ours, be short expose a substa- ble odors affo	ciated action r, the haust term antial
4. BIOLOGICAL RESOURCES. Would the project:					
a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?					
4a. Response: (Source: General Plan 2025 – Figure OS-6 – Step Conservation Plans (HCP), Figure OS-7 – MSHCP Cores Plan 2025 FPEIR Figure 5.4-2 – MSHCP Area Plans, Figure 5.4-6 – MSHCP Narrow Endemic Plant Species Survey Area Figure 5.4-8 – MSHCP Burrowing Owl Survey Area, Rev Burrowing Owl Survey prepared by L& L Environmental, 2022, October 2022 – Appendix A, Western Riverside Cour Analysis prepared by L&L Environmental, Inc. September 2023 – Appendix A)	and Linkage, ure 5.4-4 - MS a, Figure 5.4- ised Biologico Inc. Septeml ity Multiple S	s, Figure OS-6 SHCP Criteria 7 – MSHCP C al Resources A ber 2021, Revi pecies Habita	8 – MSHCP (Cells and Sub riteria Area Sp Assessment an ised May and t Conservation	Cell Areas, G punit Areas, I pecies Survey d Breeding S July 2022, A n Plan Consi	eneral Figure Area, Season August stency
Less than Significant with Mitigation Incorporated. The project surrounded by existing development. The site has been subject to hist an existing residence, and much of the site consists of the reside plantings. There is one native vegetation community on the site, bri Riversidean alluvial fan sage scrub, or other sensitive vegetation vegetation communities and habitat at the project site can be found in	orical and ong nce, associate ttlebush scrub community p	oing anthropoged structures, (a type of coapresent on the	genic disturbar disturbed area astal scrub). T	nce associated as, and ornan here is no rip	l with nental arian,
Special Status Plants No federal or state-listed or special status plant species were observed to moderate potential to occur and most of the potential habitat for focused survey or conservation requirements for this species und Conservation Plan (MSHCP). As most of the potential habitat for MSHCP and payment of the MSHCP mitigation fee, the project jewelflower.	this species ver the Wester this species v	would be avoi n Riverside C vill be avoided	ded by the pro County Multip I, and with co	oject. There a le Species H ompliance wi	abitat th the

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation	Less Than Significant Impact	No Impact
		Incorporated		

Special Status Wildlife

There is suitable habitat for nesting birds, including raptors, on and adjacent to the site. The Migratory Bird Treaty Act (MBTA) prohibits the taking of migratory birds and their nests and eggs and the California Fish and Game Code Section 3503 and 3513 prohibit take, possession and destruction of bird nests or eggs, or take or possession of birds of prey (raptors) or their eggs, respectively. If construction is initiated during the bird nesting season (February 1 to September 15), a pre-construction survey is required per Mitigation Measure BIO-1 to ensure that no nests protected by the MBTA are impacted. If an active nest is present, construction would be temporarily restricted in the immediate vicinity of the nest until nesting is complete.

Three special status wildlife species were observed during the 2021 surveys:

- Cooper's hawk (Accipiter cooperii)- CDFW Watch List species
- Nuttall's woodpecker (Picoides nutallii) USFWS Bird of Conservation Concern
- San Diego desert woodrat (Neotoma lepida intermedia) CDFW Species of Special Concern.

A Cooper's hawk was observed on two occasions perching in a tree adjacent to the existing residence near the southwest corner of the site. This species is covered under the MSHCP and considered adequately conserved. With implementation of Mitigation Measures MM BIO-1 and MM BIO-2, the project would result in less than significant impacts to Cooper's hawk.

Four San Diego desert woodrat middens (stick nests) were observed in the northeast corner of the site in piles of rocks and concrete debris during the 2021 surveys (middens were not noted during the 2006 survey). In coastal scrub habitat, the home range of this species is 0.1 to 0.5 acre. Based on the locations of the middens, the home ranges of the occupants (if present) would likely be confined to the open space easement of Lot 4and will not be graded or developed a part of the project, thus, potential impacts to this species is expected to be avoided. However, this species is covered under the MSHCP and considered adequately conserved. With implementation of Mitigation Measure MM BIO-1, any potential direct or indirect impacts from the project would be less than significant.

Special status wildlife species with a potential to occur include:

- Crotch bumble bee (Bombus crotchii) candidate for State listing as endangered1
- Southern California legless lizard (Anniella stebbinsi) CDFW Species of Special Concern
- Orange-throated whiptail (Aspidoscelis hyperythra) CDFW Watch List species
- Coastal whiptail (Aspidoscelis tigris stejnegeri) CDFW Species of Special Concern
- Coast horned lizard (*Phrynosoma blainvillii*) CDFW Species of Special Concern
- Southern California rufus-crowned sparrow (Aimophila ruficeps canescens) CDFW Watch List species
- Bell's sage sparrow (Artemisiospiza belli belli) CDFW Watch List species
- California horned lark (*Eremophila alpestris actia*) CDFW Watch List species
- Loggerhead shrike (*Lanius ludovicianus*) CDFW Species of Special Concern
- Coastal California gnatcatcher (*Polioptila californica californica*) federally listed as threatened, CDFW Species of Special Concern
- Allen's hummingbird (Selasphorus sasin) USFWS Bird of Conservation Concern
- Pallid bat (Antrozous pallidus) CDFW Species of Special Concern
- Northwestern San Diego pocket mouse (Chaetodipus fallax fallax) CDFW Species of Special Concern
- Western mastiff bat (Eumops perotis californicus) CDFW Species of Special Concern

² Based on California Department of Fish and Wildlife (CDFW) information, crotch bumble bee is a candidate for state listing, but the Sacramento Superior Court ruled that insects are not eligible for listing under the California Endangered Species Act, *Almond Alliance of California v. California Department of Fish and Wildlife*, Court No. 34-2019-80003216 (Nov. 13, 2020). The California Fish and Game Commission filed an intent to appeal this decision in February 2021. The status of this species may be affected by subsequent litigation or changes to regulations.

ISSUES (AND SUPPORTING INFORMATION SOURCES):

Potentially Significant Impact Less Than Significant With Mitigation Incorporated Less Than Significant Impact No Impact

None of these species were observed during surveys in 2006 or 2021. These species are covered under the MSHCP and considered adequately conserved, without additional focused survey or conservation requirements, with the exception of Crotch bumble bee, southern California legless lizard, Allen's hummingbird, pallid bat and the western mastiff bat, which are not covered under the MSHCP. Potential impacts to MSHCP covered species with the potential to occur on site are reduced to less than significant with compliance with the Plan and payment of the required mitigation fee, as outlined in Mitigation Measure MM BIO-1.

One state candidate species, the Crotch bumble bee (*Bombus crotchii*), candidate for State listing as endangered², has a low to moderate potential for occurrence on the site, mainly within the avoided area. Potentially suitable habitat and food plant species are present. However, the suitable habitat is outside the project development footprint and will be largely avoided. During the 2021 survey no evidence of bumble bee colonies was observed, but a focused survey for invertebrate species was not conducted. The status of listing the Crotch bumble bee under the California Endangered Species Act is currently in litigation. If the litigation is resolved in favor of listing this species prior to the start of construction, a focused survey is recommended. If the species is listed and is found to be present on the site and would be impacted, an Incidental Take Permit from CDFW would be required. The ITP would outline CDFW required onsite and/or offsite mitigation to offset potential impacts from the project to less than significant levels. With implementation of Mitigation Measure MM BIO-3, the project would result in less than significant impacts to Crotch bumble bee.

Southern California legless lizard has a moderate potential for occurrence on the site, mainly within the avoided area and particularly along the streambed. Impacts to this species, if present in the Project's disturbance area, would be minimal and not be expected to substantially affect regional populations. Potential impacts to southern California legless lizard from the project are considered less than significant as the onsite habitat that could support them is largely being avoided and left in place.

Allen's hummingbird has a high potential to forage on the site, but the site is outside the species' breeding range. Adult birds will typically flee from disturbance and injury/mortality from a project would be limited to nests, eggs, and chicks in areas where they breed. Since this species does not nest/breed in the area, there would be no potential for injury/mortality and potential impacts from this project are less than significant.

Both pallid bat and western mastiff bat have a moderate potential to forage on the site, but a low potential to roost there. No evidence of bat roosting was observed but the interior of onsite structures was not included in the survey. The existing residential buildings were well maintained, and no obvious gaps or holes were noted where bats could access the structures. Potential impacts to pallid bat and western mastiff bat from the project are considered less than significant as the onsite habitat that could provide foraging habitat for them is largely being avoided and left in place and it is unlikely that they are roosting in the existing residential structures.

As there is no suitable habitat for the federally and state listed least Bell's vireo, southwestern willow flycatcher, or western yellow billed cuckoo within the project site or immediately adjacent to the project site, and the grading limits are over 300-feet away from potentially suitable habitat in Prenda Creek to the south of the site, the project is not anticipated to result in direct or indirect impacts to these species and are considered less than significant. However, if the grading plans are revised and will encroach within a 300-foot buffer of the riparian habitat in Prenda Creek to the south of the project site, implementation of Mitigation Measure MM BIO-4 is required to reduce potential indirect impacts to these species to less than significant levels.

Burrowing Owl

Burrowing owl (*Athene cunicularia*) is protected under the federal Migratory Bird Treaty Act and California Fish and Game Code and is a CDFW Species of Special Concern. No burrowing owls, owl sign (pellets, scat, feathers, tracks, etc.), or occupied burrows were observed onsite during the 2006 survey or 2021 protocol breeding season survey. Potentially suitable burrowing owl habitat is present on the site including small mammal burrows. Potentially suitable habitat is also present within the 150-meter buffer area, but no owls, owl sign, or occupied burrows were observed in the buffer. Because suitable habitat is present, the MSHCP requires a

² Based on California Department of Fish and Wildlife (CDFW) information, crotch bumble bee is a candidate for state listing, but the Sacramento Superior Court ruled that insects are not eligible for listing under the California Endangered Species Act, *Almond Alliance of California v. California Department of Fish and Wildlife*, Court No. 34-2019-80003216 (Nov. 13, 2020). The California Fish and Game Commission filed an intent to appeal this decision in February 2021. The status of this species may be affected by subsequent litigation or changes to regulations.

ISSUES (AND SUPPORTING INFORMATION SOURCES):

Potentially Significant Impact Less Than Significant With Mitigation Incorporated Less Than Significant Impact No Impact

preconstruction clearance survey for burrowing owl within 30 days prior to the start of site disturbance, as outlined in more detail in Mitigation Measure MM BIO-2. With implementation of Mitigation Measures MM BIO-1 and MM BIO-2, potential impacts to burrowing owl are reduced to less than significant.

Substantial adverse effects, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service would be less than significant with mitigation.

Mitigation Measures

MM BIO-1: In order to avoid impacts on nesting birds and raptors (common or special status) clearing, grubbing and grading activities should be scheduled during the non-breeding season (generally between July 1 and February 28/29 for nesting birds and between July 1 and January 31 for nesting raptors), to the extent practicable. If project timing requires that these construction activities be conducted during breeding season (generally between March 1 and June 30 for birds; between February 1 and June 30 for raptors), a pre-construction survey or multiple surveys shall be conducted by a qualified biologist no more than 72 hours prior to disturbance to confirm the absence of active nests. If no active nests are found, no further measures would be necessary. However, if the biologist finds an active nest of a bird protected under the MBTA or the California Fish and Game Code and determines that the nest may be impacted by clearing, grubbing or grading activities, the biologist shall identify an appropriate buffer zone around the nest depending on the sensitivity of the species and the nature of the construction activities. The active nest site shall be protected until the nesting activity has ended to ensure compliance with the MBTA and California Fish and Game Code. Construction and/or encroachment into the buffer area around a known nest shall only be allowed if the biologist determines that the proposed activity would not disturb the nest occupants.

MM BIO-2: In accordance with the Burrowing Owl Survey Instructions for the Western Riverside County Multiple Species Habitat Conservation Plan, a 30-day pre-construction survey for burrowing owls shall be required prior to initial ground-disturbing activities (e.g., vegetation clearing, clearing and grubbing, grading, tree removal, site watering, equipment staging) to ensure that no burrowing owls have colonized the project site prior to the initiation of ground-disturbing activities. If ground-disturbing activities occur, but the site is left undisturbed for more than 30 days, a pre-construction survey shall be completed again to ensure that burrowing owl have not colonized the site since it was last disturbed. If burrowing owl are found, the same coordination described above will be necessary.

If burrowing owls have colonized the project site prior to the initiation of ground-disturbing activities, the project proponent shall immediately inform the Regional Conservation Authority (RCA). A burrowing owl relocation plan shall be prepared and submitted to the RCA and CDFW for review and approval prior to commencement of ground disturbance activities. The burrowing owl relocation plan shall outline methods to relocate any burrowing owls occurring on the project site and ensure compliance with the MSHCP, MBTA, and California Fish and Game Code. If an active burrow is found during the breeding season (February 1 through August 31), occupied burrows shall not be disturbed and be provided with a protective buffer unless a qualified biologist verifies through noninvasive means that either: (1) the birds have not begun egg laying, or (2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. The size of the buffer will depend on the time of year and level of disturbance.

MM BIO-3: The status of listing the Crotch bumble bee under the California Endangered Species Act is currently in litigation. If the litigation is resolved in favor of listing this species prior to the start of construction, a focused survey would be completed. If the species is listed and is found to be present on the site and would be impacted, an Incidental Take Permit from CDFW would be required. The ITP would outline CDFW required onsite and/or offsite mitigation to offset potential impacts from the project to less than significant levels.

MM BIO-4: If the project grading plans are revised such that grading is extended to the south and within a 300-feet buffer from riparian habitat in Prenda Creek to the south, then either construction shall avoid the period of April 10 to July 31, or if it will occur during this period, a habitat assessment for riparian birds in that area shall be completed. If this area is deemed to be suitable for least Bell's vireo, southwestern willow flycatcher or the western yellow-billed cuckoo, then a focused survey shall be conducted to determine presence or absence. If present, additional avoidance and minimization measures shall be implemented as identified by the qualified biologist permitted to conduct the focused surveys for these species.

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?				
4b. Response: (Source: General Plan 2025 – Figure OS-6 – Steph Conservation Plans (HCP), Figure OS-7 – MSHCP Cores and Li 2025 FPEIR Figure 5.4-2 – MSHCP Area Plans, Figure 5.4-4 – MSHCP Narrow Endemic Plant Species Survey Area, Figure 5.4-78 – MSHCP Burrowing Owl Survey Area, MSHCP Section 6.1.2 Areas and Vernal Pool, Google Maps, Revised Biological Resource prepared by L& L Environmental, Inc. September 2021, Revised MA, Western Riverside County Multiple Species Habitat Conse Environmental, Inc. September 2021, revised August 2022, October Less than Significant Impact. The project site is composed of disturbance no riparian, Riversidean alluvial fan sage scrub, or other sensive yeetation on the project site, apart from the partial canopy of one we overhangs the eastern site boundary, which is in Lot 4 that will not be impacted by project grading.	inkages, Figu MSHCP Crit MSHCP Construction Protection es Assessmen May and July Mervation Plant Protection	tre OS-8 – MS reria Cells and riteria Area Sp of Species Ass t and Breeding 2022, August n Consistency h 2023, May 20 dornamental a ion communities te trunk of this	HCP Cell Ar Subunit Are pecies Survey sociated with g Season Burn 2022, October y Analysis p 2023 – Appendareas and brittles present. The	teas, General Plan as, Figure 5.4-6 – Area, Figure 5.4- Riparian/Riverine rowing Owl Survey r 2022 – Appendix repared by L&L lix A) lebush scrub. There there is no riparian site, but its canopy
Therefore, less than significant impacts to any riparian habitat or oth plans, policies, or regulations, or by the California Department of proposed project will occur directly, indirectly and cumulatively.				
c. Have a substantial adverse effect on state or federally- protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				
4c. Response: (Source: City of Riverside GIS/CADME US Resources Assessment and Breeding Season Burrowing Ov 2021, Revised May and July 2022, August 2022, October 2021 Habitat Conservation Plan Consistency Analysis prepared by 2022, October 2022, March 2023, May 2023 - Appendix A)	vl Survey prej 22 – Appendix vy L&L Envir	pared by L& L x A, Western R	. Environmen iverside Coun	tal, Inc. September ty Multiple Species

Less than Significant Impact.

Wetlands, MSHCP Riparian/Riverine Areas and Vernal Pools

A jurisdictional delineation was conducted in September 2021 and found no federal wetlands or vernal pools on site. Prenda Creek is an ephemeral blueline stream located about 150 feet south of the project site, at its closest point. An ephemeral drainage that is tributary to Prenda Creek crosses the southeast portion of the project site from east to west. The jurisdictional delineation found that the streambed within the project site includes 0.46 acre of CDFW streambed/MSHCP riverine habitat on site, and no riparian habitat. Of this area, 0.088-acre is also federal Waters of the US. Based on the current site plan, the project will avoid the jurisdictional streambed/waters of the US/MSHCP riverine habitat.

City of Riverside Arroyos

The site is largely within the mapped extent of the Prenda Arroyo, as identified in the Riverside Municipal Code (RMC), Title 17 Grading, Exhibits A-F, and is therefore subject to the requirements of the Hillside/Arroyo Grading Ordinance. As described in the Open Space and Conservation Element of the City of Riverside General Plan 2025, arroyos are naturally occurring ephemeral drainages created over thousands of years as seasonal rains eroded the hills. The arroyos support wildlife species and plant communities. The arroyos also provide corridors which wildlife use to migrate between habitat areas.

o. Section Mocking own on rading with as the properties of the pro	n 17.28.020 st gbird Canyon, Exhibits A-F. ithin designate esence of ripar atures on the p	ates in part, "I Woodcrest, P The Commu d arroyo tribut ian vegetation roperty propos	all excavation an No development of Prenda, Alessandro unity & Economitaries depending of a, habitat for rare of sed to be graded of
o. Section Mocking own on rading with as the properties of the pro	n 17.28.020 st gbird Canyon, Exhibits A-F. ithin designate esence of ripar atures on the p	ates in part, "I Woodcrest, P The Commu d arroyo tribut ian vegetation roperty propos	No development of the developmen
ding are ek. The 1 t. The or	as on the Proje		mpacted by project
	nly native habit ensitive vegeta All of the brit	he site do not a tat on the site i tion communi	20-foot buffer) are appear to be unique its brittlebush scrulity. Project grading within the grading
MC, Title urces Stu of the Pr tist deter ig Code of the source Municip	e 17 Grading, ady was prepar renda Arroyo a mined that the of the RMC. Batheast portion es Assessment tback from the ct to the Prenda oal Code (RMC	Exhibits A-F ved for the project of the subject pand Breeding actual bound Arroyo. How C), Title 17 Gr	were mapped usin ect, which include a setback, by mean the Prenda Arroy course, topography parcel, from east to Season Burrowin aries of the Prenda vever, as the project.
propos	ed project wo	uld have a les	s than significan
	mapped MC, Titl urces Structures Structures Structures Structures Structures Code on the source O-foot seeno impact Municipal prepared -protectee propose of the Company of	mapped Prenda Arroy MC, Title 17 Grading, urces Study was prepar of the Prenda Arroyo a gist determined that the ng Code of the RMC. Be n the southeast portion Resources Assessment O-foot setback from the no impact to the Prenda Municipal Code (RMG prepared for the projec -protected wetlands or the proposed project wo of the Clean Water Ac MSHCP Cores and L Owl Survey prepared	e mapped Prenda Arroyo, as identified MC, Title 17 Grading, Exhibits A-F vurces Study was prepared for the project of the Prenda Arroyo and the 50-foot gist determined that the boundaries of the ground the southeast portion of the subject of the Securces Assessment and Breeding to 10-foot setback from the actual bound no impact to the Prenda Arroyo. How Municipal Code (RMC), Title 17 Ground prepared for the project. -protected wetlands or the Prenda Arrespondent of the Clean Water Act or the Prenda for the Prenda Arrespondent of the Clean Water Act or the Prenda Prenda Marrespondent of the Clean Water Act or the Prenda Prenda Marrespondent of the Clean Water Act or the Prenda Prenda Marrespondent of the Clean Water Act or the Prenda Prenda Marrespondent of the Clean Water Act or the Prenda Prenda Marrespondent of the Clean Water Act or the Prenda Prenda Marrespondent of the Clean Water Act or the Prenda Prenda Marrespondent of the Clean Water Act or the Prenda Prend

wildlife nursery sites.

Draft Revised Mitigated Negative Declaration

Less than Significant Impact. The project site is surrounded by existing residential development. Prenda Creek is immediately south of the site and drainages often serve as wildlife corridors and travel routes. Prenda Creek is in a largely natural state in the project vicinity and may function as a wildlife corridor for limited local travel between currently undeveloped (but not conserved) areas to the east and west. An ephemeral drainage that is tributary to Prenda Creek and crosses the southeast portion of the project site from east to west may contribute to this limited movement through the area. The proposed project will avoid this drainage. The project will result in less than significant impact directly, indirectly and cumulatively to the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
e. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				
4e. Response: (Source: MSHCP, Title 16 Section 16.72.04 Mitigation Fee, Title 16 Section 16.40.040 – Establishing a Urban Forest Tree Policy Manual)				
Less than Significant Impact. Implementation of the proposed Projund regulations related to the protection of biological resources and the with Riverside Municipal Code Section 16.72.040 establishing the Machine Threatened and Endangered Species Fees.	ee preservatio	n. In addition,	the project is	required to comply
Any project within the City of Riverside's boundaries that proposes the Urban Forest Tree Policy Manual. The Manual documents guide all trees in City rights-of-way. The specifications in the Manual are International Society of Arboriculture, the National Arborists Asso proposed project and any future project will be in compliance with the of-way. Therefore, the proposed project would have a less than signif biological resources and specifically City tree preservation policies,	elines for the perbased on naticiation, and the Tree Policy Incompact	planting, pruni ional standard he American N Manual when prelated to local	ng, preservations for tree care Vational Standal Standal atree policies or	on, and removal of established by the lards Institute. The within a City right-
f. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				
4f. Response: (Source: MSHCP, General Plan 2025 – Figure OS-Habitat Conservation Plans (HCP), Stephens' Kangaroo Rat H Assessment and Breeding Season Burrowing Owl Survey prepared and July 2022, August 2022, October 2022 – Appendix A, Wester Plan Consistency Analysis prepared by L&L Environmental, Inc. St. 2023, May 2023 – Appendix A) Less than Significant Impact. MSHCP The project site is within the MSHCP but not within any Criteria Cell Public/Quasi-Public (PQP) Conserved Lands identified as Alessandiare no other PQP or MSHCP Conserved Lands within a mile of the st. Linkages.	Tabitat Conserved by L& L Environ Riverside Conserved Co	rvation Plan, ronmental, In County Multiple 21, revised Aug p and reserve a Bend are one	Revised Bio c. September I le Species Ha gust 2022, Oct assembly analymile to the ear	logical Resources 2021, Revised May bitat Conservation tober 2022, March ysis is not required. st of the site. There
Section 6.1.4 of the MSHCP outlines the <i>Protection of Species Asse</i> ephemeral drainage runs from east to west through the southeastern acre of MSHCP riverine habitat and no MSHCP riparian habitat in and riverine habitat. No vernal pools or ponding areas were observed above in response to 4a., there is no habitat for riparian birds on the sof Prenda Creek offsite. As the project is not anticipated to result in less than significant. However, if the grading plans are revised and w Prenda Creek to the south of the project site, implementation of M indirect impacts to these species to less than significant levels.	portion of the this drainage. and there is no ite, but potent direct or indir vill encroach w	e site. The juri. The project we habitat for fai ially suitable heet impacts to yithin a 300-foo	sdictional delicitla avoid impary shrimp on tabitat is prese these species of buffer of the	neation found 0.46 acts to the drainage he site. As outlined nt in adjacent areas and are considered e riparian habitat in
Section 6.1.3 of the MSHCP outlines the <i>Protection of Species Nat</i> Narrow Endemic Plant Species Survey Area and no surveys or conse				

INEODMATION COLIDOEC	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact	Шрасі
Section 6.3.2 of the MSHCP outlines the <i>Additional Survey Needs a</i> area for Criteria Area Plant Species, Amphibian, or Mammal Specthese species. The project site is within the mapped survey area for but owl survey was conducted in June – July 2021 in accordance with M scat, feathers, tracks, etc.), or occupied burrows were observed duri survey of the site. As the project site does not support burrowing ow habitat is present, the MSHCP requires a preconstruction clearance ground and/or vegetation disturbance, outlined and required as Miti	ies and no addurrowing owl. A ISHCP survey ng the 2021 produced survey for but	The project sitional surveys A focused burn protocol. No botocol breedingservation is rearrowing owl	s or conservation ow survey and currowing owls g season surve equired. Since j	on are required for focused burrowings, owl sign (pellets ey, or in prior 200 potentially suitable
Section 6.1.4 of the MSHCP outlines the <i>Guidelines Pertaining to</i> indirect effects associated with development near MSHCP Conse Arroyo Big Bend are one mile to the east of the project site. The Linkages. Development of the proposed project would not affect an Analysis is not required.	rved Areas. Poproject site is	QP Conserved not within or	Lands identit near any MSH	fied as Alessandro ICP Core Areas o
As outlined above, the project is consistent with applicable section HCP.	ns and policies	of the MSHC	CP and will no	t conflict with thi
SKR HCP The project site is within the boundaries of the Stephens' Kangaroo l is required to pay the SKR HCP mitigation fee. As the project sit additional surveys or conservation are required. With payment of the the project is consistent with the SKR HCP. Therefore, the project will have a less than significant impact provisions of an adopted Habitat Conservation Plan, Natural Comm	e is not locate mitigation fee with mitigati	d within a Co , which will be ion incorpora	re Reserve of a standard cor	the SKR HCP, nondition of approval
	diffity Conscive	ution Fam, or		
State habitat conservation plan. 5. CULTURAL RESOURCES.	dunity Consciv			
State habitat conservation plan.	1			
 State habitat conservation plan. 5. CULTURAL RESOURCES. Would the project: a. Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5 of the CEQA 	orical Districts B 52 Consulta	s and Neighb	Cultural Res	rvation Areas an

ISSUES (AND SUPPORTING
INFORMATION SOURCES):

Potentially Significant Impact Less Than Significant With Mitigation Incorporated Less Than Significant Impact No Impact

One (1) newly encountered historic resource (ISO-001H), consisting of historic isolated artifacts, was noted near the southwest portion of the Project area along the west boundary. ISO-001H consists of a church-key opened, Age Dated Beer can measuring 4¾ inches tall by 2 5/8 inches in diameter and a crushed, sanitary opened, approximately 6 inch tall, Knott's Berry Farm Boysenberry syrup can of indeterminate age. Isolated artifact ISO-001H is not considered "historical resources" or "unique archaeological resources" under CEQA because it lacks association with important persons and events (Criteria 1 and 2), does not possess any distinctive characteristics of a type, period, region, or method of construction, represent the work of an important creative individual, or possess high artistic value (Criterion 3), and does not, on its own, possess the quantity or quality of data to address important research questions (Criterion 4). ISO-001H is not eligible for the California Register of Historic Resources (CRHR) and requires no further consideration under CEQA.

The bedrock milling site (33-015434) was originally recorded in 2006 as a single slick on a low-lying granitic boulder in the middle of a drainage. The slick is oval-shaped measuring 36 cm by 27 cm and exhibits a high degree of polish but is eroding along its margins. No artifacts or other Native American features were observed on the surface. The site is associated with Native American land use activities. It is unlikely that significant subsurface deposits (e.g., buried midden, features, artifacts) would be found in association with the site; however, a formal Phase II evaluation of site significance against all four CRHR criteria would be required if this site would be impacted by the project.

The single-family residence at 841 Alpine Meadows Lane consists of a single-family residence with at least one (1) ancillary building constructed in 1947. The built-environment resource was not formally recorded during the current study, as currently proposed the project would avoid it. Additional technical studies are required to evaluate the significance of the built-environment resource against CRHR criteria, if it were to be impacted. Significance evaluations are necessary to determine whether a cultural resource qualifies as a historical resource under CEQA. The studies must include preparation of DPR 523 forms, an architectural assessment, and archival research to determine historical association, if any, to persons or events of local, state, or national significance.

The concrete well (QUIN-001H) consists of a hexagonal-shaped formed concrete well embossed with the year 1934 on its east facing wall and was once associated with the windmill remains. According to Google Earth aerial images, the windmill was removed sometime between November 2013 and April 2014. The built-environment resource was not formally recorded during the current study, as currently proposed the project would avoid it. Additional technical studies are required to evaluate the significance of the built-environment resource against the CRHR criteria, if it were to be impacted. Significance evaluations are necessary to determine whether a cultural resource qualifies as a historical resource under CEQA. The studies must include preparation of DPR 523 forms, an architectural assessment, and archival research to determine historical association, if any, to persons or events of local, state, or national significance.

With the proposed project's avoidance of onsite historic resources that are potentially significant, and with implementation of Mitigation Measures CUL-1 through CUL-5, it would result in **less than significant impacts with mitigation incorporated** directly, indirectly and cumulatively to historical resources pursuant to § 15064.5 of the CEQA Guidelines.

Mitigation Measures

MM CUL-1: Prior to grading permit issuance, if there are any changes to the project site design and/or proposed grades, the Applicant and the City shall contact interested tribes to provide an electronic copy of the revised plans for review. Additional consultation shall occur between the City, developer/applicant, and consulting tribes to discuss any proposed changes and review any new impacts and/or potential avoidance/preservation of the cultural resources on the project site. The City and the developer/applicant shall make all attempts to avoid and/or preserve in place as many cultural and paleontological resources as possible that are located on the project site if the site design and/or proposed grades should be revised. In the event of inadvertent discoveries of archaeological resources, work shall temporarily halt until agreements are executed with consulting tribe, to provide tribal monitoring for ground disturbing activities.

MM CUL-2: At least 30 days prior to application for a grading permit and before any grading, excavation and/or ground disturbing activities take place, the developer/applicant shall retain a Secretary of Interior Standards qualified archaeological monitor to monitor all ground-disturbing activities in an effort to identify any unknown archaeological resources.

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation	Less Than Significant Impact	No Impact
		Incorporated		

- 1. The project archaeologist, in consultation with consulting tribes, the Developer, and the City, shall develop an Archaeological Monitoring Plan to address the details, timing, and responsibility of all archaeological and cultural activities that will occur on the project site. Details in the plan shall include:
 - a. Project grading and development scheduling;
 - b. The development of a rotating or simultaneous schedule in coordination with the developer/applicant and the project archaeologist for designated Native American Tribal Monitors from the consulting tribes during grading, excavation, and ground-disturbing activities on the site, including the scheduling, safety requirements, duties, scope of work, and Native American Tribal Monitors' authority to stop and redirect grading activities in coordination with all project archaeologists;
 - c. The protocols and stipulations that the Applicant, tribes, and project archaeologist/paleontologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resource deposits, or nonrenewable paleontological resources that shall be subject to a cultural resources evaluation;
 - d. Treatment and final disposition of any cultural and paleontological resources, sacred sites, and human remains if discovered on the project site; and
 - e. The scheduling and timing of the Cultural Sensitivity Training noted in mitigation measure MM-CUL-4.

MM CUL-3: Treatment and Disposition of Cultural Resources: In the event that Native American cultural resources are inadvertently discovered during the course of grading for the proposed Project, the following procedures will be carried out for treatment and disposition of the discoveries:

- 1. **Consulting Tribes Notified**: within 24 hours of discovery, the consulting tribe(s) shall be notified via email and phone. Consulting tribe(s) will be allowed access to the discovery, in order to assist with the significance evaluation.
- 2. **Temporary Curation and Storage**: During the course of construction, all discovered resources shall be temporarily curated in a secure location on site or at the offices of the project archaeologist. The removal of any artifacts from the project site will need to be thoroughly inventoried with tribal monitor oversight of the process; and
- 3. **Treatment and Final Disposition**: The landowner(s) shall relinquish ownership of all cultural resources, including sacred items, burial goods, and all archaeological artifacts and non-human remains as part of the required mitigation for impacts to cultural resources. The applicant shall relinquish the artifacts through one or more of the following methods and provide the City of Riverside Community and Economic Development Department with evidence of same:
 - a. Accommodate the process for on-site reburial of the discovered items with the consulting Native American tribes or bands. This shall include measures and provisions to protect the future reburial area from any future impacts. Reburial shall not occur until all cataloguing and basic recordation have been completed.
 - b. A curation agreement with an appropriate qualified repository within Riverside County that meets federal standards per 36 CFR Part 79 and therefore will be professionally curated and made available to other archaeologists/researchers for further study. The collections and associated records shall be transferred, including title, to an appropriate curation facility within Riverside County, to be accompanied by payment of the necessary fees for permanent curation;
 - c. If more than one Native American tribe or band is involved with the project and cannot come to a consensus as to the disposition of cultural materials, they shall be curated at the Western Science Center or Museum of Riverside by default; and
 - d. At the completion of grading, excavation, and ground-disturbing activities on the site, a Phase IV Monitoring Report shall be submitted to the City documenting monitoring activities conducted by the project archaeologist and Native American Tribal Monitors within 60 days of completion of grading. This report shall document the type of cultural resources recovered and the disposition of such resources. This report shall be submitted to the City of Riverside, Eastern Information Center, and interested tribes.

MM CUL-4: Cultural Sensitivity Training: The Secretary of Interior Standards County certified archaeologist and Native American monitors shall attend the pre-grading meeting with the developer/permit holder's contractors to provide Cultural Sensitivity Training for all construction personnel. This shall include the procedures to be followed during ground disturbance in sensitive areas and protocols that apply in the event that unanticipated resources are discovered. Only construction personnel who have received this training can conduct construction and disturbance activities in sensitive areas. A sign-in sheet for attendees of this training shall be included in the Phase IV Monitoring Report.

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With	Impact	Impact
in onwillion sockeds).		Mitigation Incorporated		
MM CUL-5: Prior to issuance of a grading permit, the City shall confir bedrock milling site (33-015434), single-family residence (841 Alpine Project development footprint is modified to include direct and/or i 015434), single-family residence (841 Alpine Meadows Lane), and/ (i.e., archaeological evaluation report and historical resources evaluate these resources against CRHR criteria. The archaeological evaluate evaluation plan, limited subsurface testing, development of a Native association under Criterion 1, consultation with local Native A archaeological evaluation report. The historical resources evaluation architectural assessments, archival research to determine historical assignificance, and preparation of a Historical Resources Evaluation I Proponent, consulting tribes, and Eastern Information Center located	e Meadows La indirect impact or concrete wation report) slion will include e American tribe will include, ociation, if any Report. Final	al grading plar ane), and/or co ets to the preh rell (QUIN-00 hall be require de, at a mini- ultural landsca s and organi at a minimum y, to persons of reports shall b	ncrete well (Q istoric bedroc 1H), additionated to evaluate mum, preparate pe context to zations, and preparation of r events of locate be submitted to	UIN-001H). If the k milling site (33-al technical studies the significance of tion of a Phase II evaluate historical preparation of an of DPR 523 forms, al, state, or national to the City, Project
b. Cause a substantial adverse change in the significance of an archeological resource pursuant to § 15064.5 of the CEQA Guidelines?				
5b. Response: (Source: GP 2025 FPEIR Figure 5.5-1 - Archa Resources Sensitivity, Phase I Cultural Resources Assessm revised April 2023 and June 2023 – Appendix D)				
Less than Significant with Mitigation Incorporated. As mention Assessment documents efforts to identify historical and archeological with provisions of CEQA to assess a project's potential to impact histomaintenance. These efforts include a cultural resources records search, Heritage Commission and local Native American tribes and organ pedestrian survey of the entire project site. Based on the current site Alpine Meadows Lane (Lot 1), and concrete well will be avoided with	resources, as corrical resource background reizations, a geplan the bedro	defined in Publes during proje esearch, coord coarchaeologic ock milling sit	lic Resources C ct construction ination with the al assessment e, single famil	Code, and complies n, operation, and/or ne Native American , and an intensive
The bedrock milling site (33-015434) was originally recorded in 2006 of a drainage. The slick is oval-shaped measuring 36 cm by 27 cm a margins. No artifacts or other Native American features were observe land use activities. It is unlikely that significant subsurface deposits association with the site; however, a formal Phase II evaluation of site if this site would be impacted by the project.	and exhibits a d on the surface (e.g., buried	high degree of the site is midden, feature	of polish but is associated with res, artifacts)	s eroding along its h Native American would be found in
With the proposed project's avoidance of onsite historic resources Mitigation Measures MM CUL-1 through CUL-5, it would result in I directly, indirectly and cumulatively to archeological resources pursuances.	ess than signi	ificant impact	ts with mitiga	*
c. Disturb any human remains, including those interred outside of formal cemeteries?				
5c. Response: (Source: GP 2025 FPEIR Figure 5.5-1 - Archaeological Sensitivity and Figure 5.5-2 - Prehistoric Cultural Resources Sensitivity, AB 52 Consultation, Phase I Cultural Resources Assessment prepared by L&L Environmental, Inc., December 2021 revised April 2023 and June 2023 – Appendix D)				
Less than Significant with Mitigation Incorporated. The propose Zone and High Prehistoric Cultural Resources Sensitivity Zone, a construction is proposed in undeveloped areas, disturbance on vacant buried Native American human remains as well as other human rem However, as outlined in the Phase I Cultural Resources Assessment	as outlined in lands could h nains, includir	GP FPEIR lave the potent of those interr	Figures 5.5-1 ial to disturb ored outside of	and 5.5-2. Where or destroy unknown formal cemeteries.

-2022-001293	ЬК			Draft Revised Mitigated Megative Declaration
				i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning
				a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
				Would the project:
				7. GEOLOGY AND SOILS.
ontinue to contract with the Integrated	the City to c . Compliance	to yilids əht oilottoq bənn	d not obstruc heir recent pla	Less than Significant Impact. The City of Riverside has a Five-Yea energy and energy efficiency plans and programs. The project woul with renewable energy purchase agreements pursuant to this plan or the Resource Plan regulations will ensure that impacts related to renewal directly, indirectly, and cumulatively.
	(8107	nala səruosə	. Integrated R	6b. Response: (Source: City of Riverside, California, Five Year
	\boxtimes			b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?
				eldements and neight lead to esters a torrated and thin toriffine?
on. Construction is e-family residences, at fleet turnover and regulations limiting ration fuel demand a transportation fuel Dart 6 of Title 24 Part 6 of California venergy efficiency odes, which include 6), which went into 1e 24 requirements.	energy through el consumption of 3 new single from equipments, and federal are ductions in the geonstruction ratured in the consider new a Building Co (Title 24 Part (Title 24 Part pert current Title 24 Part pert Part Part Part pert Part Part Part Part Part Part pert Part Part Part Part Part Part Part Pa	ould consume equipment further equipment further construction of the sum of t	sed project whe form of the form of orkers. In add by combined would further resmall constructs of energy resonance of energy resonance of energy resonance of the California odically to in red to as the factor as the factor of proposed projections.	Less than Significant Impact. Construction activities for the proposed to take approximately 12-18 months. As the proposed project and require an extensive fleet of construction equipment or would not require an extensive fleet of construction equipment or wincreasingly stringent state and federal regulations on engine efficiency engine idling times and requiring recycling of construction debris we during the project's construction. Due to the small construction atte, and use, the proposed project would not result in wasteful and inefficient upon less than significant. The proposed Project would result in a long-term minor increase in specifically establishes energy efficiency standards for residential and to reduce energy demand and consumption. Part 6 is updated perior to reduce energy demand and consumption. Part 6 is updated perior to reduce energy demand and consumption. Part 11) and effect for all applications submitted on or after January 1, 2019. The effect for all applications submitted on or after January 1, 2019. The These measures would reduce inefficient, wasteful, and unnecessary used impacts would be less than significant.
	(8107	uv _l a əəxnosə	A Lotegrated R	resources, during project construction or operation? 6a. Response: (Source: City of Riverside, California, Five Year
				wasteful, inefficient, or unnecessary consumption of energy
	\boxtimes			a. Result in potentially significant environmental impact due to
				Would the project:
				9 ENEBCK
red during project- 50.5, State CEQA to human remains,	tently discove 9 Section 70 3 Juce impacts	ns are inadver d Safety Cod and would re	hismən remail in Health an bəmənted	milling site. The proposed project is not likely to disturb or destroremains. In the event that Native American human remains or other related construction activities, the steps and procedures specified Guidelines 15064.5€, and Public Resources Code 5097.98 shall be including those interred outside of formal cemeteries to a less than significant content of the con

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ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact	ппрасі
Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.		псогрогаесс		
7i. Response: (Source: General Plan 2025 Figure PS-1 - R	Regional Faul	Zones & Gen	eral Plan 202	5 FPEIR Appendix
E – Geotechnical Report)				
No Impact. Seismic activity is to be expected in Southern California The project site does not contain any known fault lines and the pote with the California Building Code regulations will ensure that no in indirectly, and cumulatively.	ntial for fault	rupture or seis	smic shaking i	s low. Compliance
ii. Strong seismic ground shaking?			\square	
7ii. Response: (Source: General Plan 2025 FPEIR Appen Figure PS-1 Regional Fault Zones)	dix E – Geote	echnical Repo		General Plan 2025,
Elsinore Fault Zone, located in the southern portion outside of the Cit to large earthquakes that would cause intense ground shaking. The Stell Centro in Imperial County to northwest of San Bernardino, passin of Loma Linda and the Box Springs Mountains. This fault has the carelisinore Fault Zone runs parallel of the eastside of the Cleveland Nat from the project site is approximately 12 miles west near Corona. More Riverside General Plan, all regional fault zones are outside of the Cleveland Plan, all regional fault zones are outside of the Cleveland National Company of the Cleveland National Company in the Cle	an Jacinto Faung through the apability of protional Forest foreover, as secuty of Riversic California Buil	alt runs more the intersection of coducing up to rom Chino Hiller in (Figure Pede boundary and ding Code reg	nan 125 miles, of Interstates 1 a 7.0 magnitudes to San Dieges-1 Regional and proposed sulations, and t	from northwest of 0 and 215, the city de earthquake. The co, the closest point Fault Zones) in the phere of influence. he project site does
iii. Seismic-related ground failure, including liquefaction?			\boxtimes	
 7iii. Response: (Source: General Plan 2025 Figure PS-1 – General Plan 2025 FPEIR Figure PS-3 – Soils with H Report) Less than Significant Impact. The project site is partially located (General Plan 2025 Liquefaction Zones Map – Figure PS-2). Complia that impacts related to seismic-related ground failure, including liquand cumulatively. 	igh Shrink-Su I in an area wance with the C	well Potential, with high lique California Build	and Appendice faction zone, ding Code regu	x E – Geotechnical as depicted in the ulations will ensure
iv. Landslides?				\boxtimes
7iv. Response: (Source: General Plan 2025 FPEIR Figu Geotechnical Report, Title 18 – Subdivision Code, Tit Water Pollution Prevention Plan SWPPP)				
No Impact. The project site and its surroundings have generally low the General Plan 2025 Program Final PEIR, and thus, is not located impact related to landslides directly, indirectly, and cumulatively.				
b. Result in substantial soil erosion or the loss of topsoil?			\boxtimes	

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ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With	Impact	Impact
art ordinition bookelby.		Mitigation		
The Decreases (Course Coursel Disc 2025 EDEID Element 5	(1	Incorporated	4	:
7b. Response: (Source: General Plan 2025 FPEIR Figure 5.6 Table 5.6-B – Soil Types, RMC Title 18 – Subdivision Code, SWPPP)				
Less than Significant Impact. Erosion and loss of topsoil could occ However, State and Federal requirements call for the preparation and (SWPPP) establishing erosion and sediment controls for construction Pollutant Discharge Elimination System (NPDES) regulations. In ad and 18 of the RMC, which also requires the implementation of measurand Federal requirements as well as with Titles 17 and 18 of the RM than significant impact directly, indirectly, and cumulatively.	d implementation activities. To dition, all devices designed to	ion of a Storm he project mu velopment acti o minimize so	Water Pollutions also comply ivity must confidential in the confidence of the confid	on Prevention Plan y with the National nply with Titles 17 npliance with State
c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?				
7c. Response: (Source: General Plan 2025 Figure PS-1 – Region Plan 2025 FPEIR Figure PS-3 – Soils with High Shrink-Sw Figure 5.6-4 – Soils, Table 5.6-B – Soil Types, and Appendix Less than Significant Impact. The general topography of the subject	vell Potential, ix E – Geoteci	Figure 5.6-1 - hnical Report)	Areas Underi	lain by Steep Slope,
0-10%. The project is not located on a geologic unit or soil that is uns and thus on- or off-site landslide, lateral spreading, subsidence, liquicity's existing codes and the policies contained in the General Plan 2 are reduced to a less than significant level, directly, indirectly, and of the policies contained in the General Plan 2 are reduced to a less than significant level, directly, indirectly, and of the project is not project in the project is not project in the project is not located on a geologic unit or soil that is unsuch th	table, or that we faction, or co 025 help to en	yould become ollapse is not a	unstable as a ronticipated. Co	esult of the project, ompliance with the
d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?				
7d. Response: (Source: General Plan 2025 FPEIR Figure 5.6-5 – Soils with High Shrink-Swell Potential, Appears as adopted by the City of Riverside and set out in Title 16 of	ndix E – Geot	echnical Repo	ort, and Califo	
Less than Significant Impact. Expansive soils are soils with a significant (shrink) or take on water (swell). Fine-grained soils, such as silminerals. When these soils swell, the change in volume exerts significantly movement can adversely affect building foundations, of the buildings they support. The project site is not located in an area 2025 FPEIR Figure 5.6-5 Soils with High Shrink-Swell Potential. Thirectly, indirectly, or cumulatively related to creating substantial risk	ts and clays, ngnificant press ften causing the of soils with lands, the projections	nay contain va sures on loads nem to crack on high shrink-sw ect would have	riable amounts s that are place or shift, with re- vell potential, se less than sign	s of expansive clay ced on them. This esulting damage to as identified in GP
e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?				
7e. Response: (Source: General Plan 2025 FPEIR Figure 5.6-	4 – Soils, Tab	le 5.6-B – Soi	l Types)	
No Impact. The proposed project will be served by municipal sew impact, directly, indirectly, or cumulatively related to use of septic t		astructure. Th	erefore, the pi	roject will have no

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With Mitigation	Impact	impuct
		Incorporated		
f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?			\boxtimes	
7f. Response: (Source: General Plan 2025 Policy HP-1.3)				
Less than Significant Impact. The project site is located within a development. The site has been subject to historical and ongoing antl and much of the site consists of the residence, associated structures, and earth-disturbing actions, could damage or destroy fossils in rock a small area of rock outcropping in the northeast corner of the site. He impacted and will have an Open Space Easement recorded on it. A houses will be constructed is disturbed and cleared, and does not have is not anticipated to destroy a unique paleontological or geologic feelindirectly and cumulatively.	and disturbed units if they vowever, this pos s the project so we rock outcro	sturbance associareas. Activiti were to occur of ortion of the site where grad ps or other unit	ciated with an es including con the site. The will not be gling activities ique geologic	existing residence, onstruction-related he site does contain graded or otherwise and the three new feature, the project
8. GREENHOUSE GAS EMISSIONS. Would the project:				
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				
8a. Response: (Source: General Plan 2025 Air Quality Elemen	t and FPEIR	Section 5.3 A	ir Quality)	
Less than Significant Impact. The proposed project includes constalready developed with one (1) single-family residence and desig Residential. Projects that are consistent with the projections of emp California Association of Governments (SCAG) are considered consinumbers were used by SCAG's modeling section to forecast travel Regional Transportation Plan (RTP), the SCAQMD's AQMP, Regional Housing Plan. This project is consistent with the projection SCAG that are consistent with the General Plan 2025 "Typical Growth it is anticipated that the project related construction and operations wo impact on GHG emissions in the environment.	nated in the loyment and pastent with the demand and ional Transpoors of employed Scenario." D	General Plan population for AQMP growth air quality for tation Improvement and populate to the size a	as VLDR - Vecasts identified projections, so a planning active planning active programment for easured scope of the control of	Very Low Density ed by the Southern since these forecast tivities such as the m (RTIP), and the ts identified by the e proposed project,
b. Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?				
8b. Response: (Source: General Plan 2025 Air Quality Elemen	t and FPEIR	Section 5.3 A	ir Quality)	
Less than Significant Impact. The SCAQMD supports State, Federal gases through its Global Warming Policy and rules and has establishe in Question A, above, the project would comply with the City's Generator reduce GHG emissions. In addition, the project would comply construction of the three (3) residential units and will not interfere with the year 2020 as stated in AB 32 and an 80 percent reduction in GHe Order S-3-05. Thus, a less than significant impact will occur directly	d an interim C ral Plan policion with all SCA th the State's § G emissions b	breenhouse Ga es and State Bu QMD applicat goals of reduci elow 1990 leve	s (GHG) thres ailding Code pole rules and ng GHG emis els by 2050 as	hold. As indicated provisions designed regulations during sion to 1990 levels stated in Executive
9. HAZARDS & HAZARDOUS MATERIALS. Would the project:				

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact				
INFORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact					
a. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?								
9a. Response: (Source: General Plan 2025 Public Safety Element, GP 2025 FPEIR, California Health and Safety Code, Title 49 of the Code of Federal Regulations, California Building Code, Riverside Fire Department EOP, 2002 and Riverside Operational Area – Multi-Jurisdictional LHMP, 2004 Part 1, and OEM's Strategic Plan)								
Less than Significant Impact. The construction facilitated by this environment through the routine transportation, use and disposal of include the delivery and disposal of hazardous materials such as f typical of materials delivered to construction sites. The California Sta for proper hazardous waste disposal and transport and takes enfor hazardous wastes improperly. The Riverside County Department of haulers to collect and transport hazardous wastes. Compliance with Substances Control and the Riverside County Department of Environ levels. Compliance with the requirements of the California DTSC and unique mitigation pursuant to CEQA. The future use of the site as the of hazardous materials such as fuels, oils, solvents, pesticides, electrofuture residents are expected to generally comply with Federal, St handling, storage, and disposal of hazardous materials the proposed directly, indirectly, and cumulatively.	construction reuels, oils, solve the Department reement action Environmenta the requiremental Health of Riverside Corree single-famonic waste, poate, and local	elated hazardo vents, and othe of Toxic Subs as against tho Il Health also r ants of the Cali would reduce bunty of Enviro ily residences of supplies, magencies app	tus materials a er materials. I tances Control se who misha equires license fornia State Do the impact to lonmental Heal- could include ediations, and licable regular	s the project would These materials are I operates programs andle or dispose of ed hazardous waste epartment of Toxic ess than significant th is not considered the storage and use other materials. As tions related to the				
b. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	_							
9b. Response: (Source: General Plan 2025 Public Safety Element Safety Code, Title 49 of the Code of Federal Regulations, C Riverside Operational Area – Multi-Jurisdictional LHM, Database Listed Sites).	California Bui	ilding Code, C	ity of Riversia	le's EOP, 2002 and				
Less than Significant Impact. The project site does not contain an Department of Toxic Substances Control's (DTSC) <i>EnviroStor</i> onle expected to result in the release of any onsite hazardous materials. A laws related to the transportation, use and storage of hazardous maduring transit, use and storage to a less than significant impact directions.	ine database. Also, compliar terials would	Therefore, con nce with all ap reduce the like	nstruction active plicable Feder pelihood and se	vities would not be ral, State, and local				
c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?								
9c. Response: (Source: General Plan 2025 Public Safety and Education Elements, GP 2025 FPEIR Table 5.7-D - CalARP RMP Facilities in the Project Area, Figure 5.13-2 – RUSD Boundaries, Table 5.13-D RUSD Schools, Figure 5.13-3 AUSD Boundaries, Table 5.13-E AUSD Schools, Figure 5.13-4 – Other School District Boundaries, California Health and Safety Code, Title 49 of the Code of Federal Regulations, California Building Code, Google Maps.)								
Less than Significant Impact. The project site is not located within Washington Elementary which is approximately 2 miles northwest frepaint products, lubricants, solvents, cleaning products, and fertilizer operation of the project. However, due to the limited quantities of the hazardous to the public at large. In accordance with the City's Hazardous materials during the construction and operation of the site.	om the project rs may be use ese materials to azardous Mate	site. Potential d and/or store o be used by the crials Policy, t	hazardous mad on site during project, they he transport,	terials, such as fuel, ng construction and y are not considered use, and storage of				

ISSU	JES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INF	ORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact	
material resident federal l with all	laws, including but not limited to Title 49 of the Code of Is, and in cooperation with the County's Department of Ential, would not entail the manufacturing or disposal of hazardlaws would ensure a less than significant impact from routine applicable Federal, State, and local regulations would reduce to a less than significant impact.	vironmental I ous materials. transport, use,	lations for the Health. Further Compliance w or disposal of	rmore, the provith all applicate hazardous materials.	oposed land use, as able local, State and terials. Compliance
d.	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				
9d.	Response: (Source: General Plan 2025 Figure PS-5 – Haza. Facility Information, Figure 5.7-B – Regulated Facilities i Listed Sites)				
cleanup	pact. A review of the DTSC's EnviroStor database, the project it. Therefore, the project would have no impact to creatily, or cumulatively.				
e.	For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				
9e.	Response: (Source: General Plan 2025 Figure PS-6A – A March Air Reserve Base/March Inland Port Comprehense Zone Study for March Air Reserve Base (August 2005))				
Plan fo and app noise c occasion residen	pact. The project site is within the Zone D (Flight Corridor Bu or March Air Reserve Base/Inland Port Airport. The project sit proximately 7 miles from the March Air Reserve Base. The proncerns, however, since the project is located within the Flight overflight. The noise impacts are anticipated to be low tital density limits within the Flight Corridor Buffer. Therefore the project area directly, indirectly, and the project area directly, indirectly, indirec	te is approximoroject site is light Corridor Idea to the ore, the project version is approximately the project version in the ore of the project version is approximately	ately 5 miles for a stelly 5 miles for a stellocated far from Suffer, it is more accasional over will have no in	rom Riverside m airports that ore susceptible rflight. Furthe	Municipal Airport t create cumulative e to noise from the ermore, there is no
f.	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				
9f.	Response: (Source: GP 2025 FPEIR Chapter 7.5.7 – Hazar and Riverside Operational Area – Multi-Jurisdictional LHI				
networ! tempor	nan Significant Impact. The project will be served by existin k of on-site local streets. All streets have been designed to me arry street closure is not required as part of the project's construct directly, indirectly, and cumulatively to an emergency response.	eet the Public action. Therefo	Works and Fir ore, the project	e Departments	s' specifications. A
g.	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?			\boxtimes	

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation	Less Than Significant Impact	No Impact		
		Incorporated				
9g. Response: (Source: General Plan 2025 Figure PS-7 – Fire Hazard Areas, GIS Map Layer VHFSZ 2010, City of Riverside's EOP, 2002, Riverside Operational Area – Multi-Jurisdictional LHMP, 2004 Part 1/Part 2 and OEM's Strategic Plan, Fire Protection Plan prepared by Firewise, LLC in February 2023; Revised April 2023; January 2024 – Appendix E)						

Less than Significant Impact. The proposed project is located within a Very High Fire Severity Zone (VHFSZ). Lots 2 and 3 of the proposed project would comply with the City of Riverside's Fire Department guidelines regarding residential design and providing 100-foot buffer for defensible space. Lot 4 of the proposed project would have less than the required 100-foot buffer to adjacent uncontrolled open space. The proposed project does not meet 100 feet of defensible space as required by the California Fire Code. The proposed project would has however obtained approval from the Fire Department for an Alternate Materials & Methods of Design and Construction which includes the following project design features and City Conditions of Approval: 1) a 6-foot tall econcrete masonry wall/barrier on the southern to eastern property line side of the parcel and 2) a 2-hour rated exterior wall assembly for those surfaces facing the reduced Fuel Modification Area., with dual tempered glazing assemblies, for those wall surfaces facing the Assembly to include 2 sheets of tempered glass for windows exposed to open space area with reduced separation. As an alternate design the wall provided may be concrete masonry unit (CMU) and tempered glass to allow for a view. In addition, the project has the following Landscaping and Maintenance City Conditions of Approval (as identified in the project's approved Fire Protection

- Plants in Irrigated Zone 1 shall be fire resistant and shall include any pyrophytes that are high in oils and resins such as pines, eucalyptus, cedar, cypress or juniper species. Thick, succulent or leathery leaf species with high moisture content are the most 'fire resistant.' Refer to Fire Protection Plan Appendix B for examples of acceptable plants.
- Zone 1 shall be cleared of all fire prone and prohibited plant species. Refer to Fire Protection Plan Appendix A.
- Landscape designs using hardscape features such as driveways, swimming pools, concrete, rock, pavers, and similar non-combustible features to break up fuel continuity within Zone 1 are encouraged.
- <u>Fuel Modification area shall be maintained year, as required by the Fire Protection Plan. Inspections and compliance shall</u> be by City of Riverside.
- Shrubs shall be kept trimmed to ensure spacing is maintained.
- Grasses shall be maintained weed whipped to 4 inches.

Plan):

- The area shall be maintained free of invasive plants and any volunteer native shrubs.
- All plantings should be installed with at maturity growth in mind.

_The proposed alternate protection measures have been utilized in other projects within the City and state. The project shall comply with the 2022 California Building Code, Chapter 7A, California Fire Code, Chapter 49 and Public Resources Codes 4290 & 4291. Buildings and structures within the Very-High Fire Hazard Severity Zones of a Local Responsibility Area (LRA) shall maintain defensible space as outlined in the Government Code Chapter 6.8. Very High Fire Hazard Severity Zones [51175 – 51189] and any local ordinance of the City of Riverside, as well as with all requirements and/or permits by the state or federal regulations. With compliance with all City, State and Federal regulations and requirements, a **less than significant impact** regarding wildland fires, either directly, indirectly, or cumulatively from this project will occur.

10. HYDROLOGY AND WATER QUALITY.		
Would the project:		
a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?		

10a.Response: (Source: GP 2025 FPEIR Table 5.8-A – Beneficial Uses Receiving Water, Preliminary Project Specific Water Quality Management Plan prepared by Ackerman Associates 2000, Inc. in March 2022 – Appendix F)

Less than Significant Impact. The project site is currently largely undeveloped with a small percent of impervious surface. Upon construction of the residential lots, the permeable area of the project site will increase. A preliminary WQMP has been submitted and approved by the Public Works Department for this project.

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact	
INFORMATION SOURCES):	Impact	With Mitigation	Impact		
		Incorporated			
The project incorporates site design and source control BMPs including: all natural vegetation was preserved where practicable, planting areas and surface infiltration were added to take advantage of the site's natural infiltration and storage capacity, the overall coverage of paving is limited, runoff will be directed from impervious areas to adjacent landscaping minimizing directly connecting impervious areas, and runoff will be detained and retained throughout the site where practicable. Drainage is designed to flow to self-retaining landscaped areas, 3,200 SF by 2-inches deep, in the northwest corners of each lot, with any overflow discharging to Alpine Meadows Lane. These BMPs combined with compliance of existing statutes will have a less than significant impact directly, indirectly, and cumulatively on to any water quality standards or waste discharge.					
b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?					
10b. Response: (Source: General Plan 2025 Table PF-1 RPU					
2 - RPU Projected Water Demand, RPU Map of Water		*		O	
Preliminary Project Specific Water Quality Management 1	Plan prepared	by Ackerman	Associates 2	000, Inc. in March	
2022 – Appendix F)					
No Impact. The proposed project is located within the Upper Santa proposed project includes the construction of 3 new residential unit sewer system and comply with all NPDES and WQMP requirement deplete groundwater supplies or interfere substantially with groundw volume or a lowering of the local groundwater table level. Therefore, either directly, indirectly, or cumulatively.	s. The project ts that will ensurater recharge	is required to sure the propo such that there	connect to the sed project with would be a no	e City's water and ll not substantially et deficit in aquifer	
c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:					
i. Result in substantial erosion or siltation on-or-off-site?			\boxtimes		
10ci Response: (Source: Project Specific Water Quality Management Plan prepared by Ackerman Associates 2000, Inc. in March 2022 – Appendix F)					
Less than Significant Impact. The project is subject to NPDES requirements; areas of one acre or more of disturbance are subject to preparing and implementing a Storm Water Pollution Prevention Plan (SWPPP) for the prevention of runoff during construction. Erosion, siltation, and other possible pollutants associated with long-term implementation of projects are addressed as part of the Water Quality Management Plan (WQMP). Therefore, the project will have a less than significant impact directly, indirectly, or cumulatively to existing drainage patterns.					
ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or-off-site?					
10cii Response: (Source: Preliminary Project Specific Water Quality Management Plan prepared by Ackerman Associates 2000, Inc. in March 2022 – Appendix F)					
Less than Significant Impact. The project site is not located within designed to accommodate the 10-year storm flow from curb to curb, of-way. As outlined in the WQMP, the design capture volume will be less than significant impact directly, indirectly, or cumulatively flooding on- or off-site.	while 100-yea e addressed us	ar storms are acting infiltration	ccommodated only BMPs. T	within street rights- Therefore, there will	

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact	
iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or			\boxtimes		
10ciii Response: (Source: Preliminary Project Specific Water Quality Management prepared by Ackerman Associates 2000, Inc. in March 2022 – Appendix F)					
Less than Significant Impact. The project would maintain the site's predevelopment hydrologic and drainage function. The project is over one acre in size and is required to have coverage under the State's General Permit for Construction Activities (SWPP). As stated in the Permit, during and after construction, best management practices (BMPs) will be implemented to reduce/eliminate adverse water quality impacts resulting from construction activities. The project would incorporate stormwater BMPs including self-retaining landscaped areas that would keep runoff drainage within the developed portions within the northern areas of each lot. The southern areas of each lot would not be developed and would maintain the existing natural drainage patterns that are self-treating. Mild land gradients have been utilized for each site to extend the time of concentration which reduces peak runoff flows and increases the potential for infiltration within each lot. The project would not obstruct flood flows. Furthermore, the City has ensured that the proposed development does not cause adverse water quality impacts, pursuant to its Municipal Separate Storm System (MS4) permit through the project's WQMP. As outlined in the WQMP, the design capture volume will be addressed using infiltration only BMPs. With implementation of the SWPPP and the WQMP, the project will not create runoff water that would exceed drainage system capacity, would not redirect flood flows, or provide substantial additional sources of polluted runoff, and potential impacts are less than significant.					
iv. Impede or redirect flood flows?			\boxtimes		
Less than Significant Impact. As mentioned in Response 10ciii above, the project would maintain the site's predevelopment hydrologic and drainage function. The project is over one acre in size and is required to have coverage under the State's General Permit for Construction Activities (SWPPP). As stated in the Permit, during and after construction, best management practices (BMPs) will be implemented to reduce/eliminate adverse water quality impacts resulting from construction activities. The project would incorporate stormwater BMPs including self-retaining landscaped areas that would keep runoff drainage within the developed portions within the northern areas of each lot. The southern areas of each lot would not be developed and would maintain the existing natural drainage patterns that are self-treating. Mild land gradients have been utilized for each site to extend the time of concentration which reduces peak runoff flows and increases the potential for infiltration within each lot. The project would not obstruct flood flows. Furthermore, the City has ensured that the proposed development does not cause adverse water quality impacts, pursuant to its Municipal Separate Storm System (MS4) permit through the project's WQMP. As outlined in the WQMP, the design capture volume will be addressed using infiltration only BMPs. With implementation of the SWPPP and the WQMP, the project will not create runoff water that would exceed drainage system capacity, would not redirect flood flows, or provide substantial additional sources of polluted runoff, and potential impacts are less than significant.					
d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?					
10d. Response: (Source: General Plan 2025 Figure PS-4 – Flood Hazard Areas, GP 2025 FPEIR Chapter 5.8 – Hydrology and Water Quality) Less than Significant Impact. Per GP 2025 Figure PS-4, the project site is not located within the 500-year or 0.2% annual chance of flood area, but it is located partially within/adjacent to the 10-year or 1% annual chance of flood area, which is associated with Prenda Creek to the south of the project site. The three single family residences will be constructed up on the northern and elevated portion of the site and is not expected to be susceptible to flooding.					

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impost
INFORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact	Impact
Tsunamis are large waves that occur in coastal areas; therefore, since susceptible to tsunamis. Seiches are waves that oscillate in lakes, bay The project site is not within proximity to Lake Mathews or Lake Events and the second sec	s, or gulfs as	not located in a result of seis	mic or atmosp	
Additionally, the proposed project site is located upland, north and o General Plan 2025 Figure PS-4 – Flood Hazard Areas.	utside of the F	Prenda Dam in	undation area,	as identified in the
Therefore, the proposed project will have a less than significant imp hazards, tsunamis, and seiche zones and release of pollutants due to proposed project will have a less than significant imp hazards, tsunamis, and seiche zones and release of pollutants due to proposed project will have a less than significant imp hazards, tsunamis, and seiche zones and release of pollutants due to proposed project will have a less than significant imp hazards, tsunamis, and seiche zones and release of pollutants due to proposed project will have a less than significant imp hazards, tsunamis, and seiche zones and release of pollutants due to proposed project will have a less than significant imp hazards, tsunamis, and seiche zones and release of pollutants due to proposed project will have a less than significant imp hazards, tsunamis, and seiche zones and release of pollutants due to proposed project will be a less than significant imp hazards.			, or cumulativ	ely related to flood
e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				
10e.Response: (Source: General Plan 2025 Table PF-1 RPU - RPU Projected Water Demand, RPU Map of Water S Preliminary Project Specific Water Quality Management F 2022 - Appendix F)	Supply Basins	, RPU Urban	water Man	agement Plan and
No Impact. As mentioned in Response 10b above, the proposed project Arlington groundwater basin. This proposed project includes the conconnect to the City's water and sewer system and comply with all NI project will not substantially deplete groundwater supplies or interfere be a net deficit in aquifer volume or a lowering of the local groundwate supplies and recharge either directly, indirectly, or cumulatively.	struction of 3 PDES and WO substantially	new residentia QMP requirem with groundwa	al units. The pents that will enter recharge su	roject is required to ensure the proposed uch that there would
11. LAND USE AND PLANNING:				
Would the project:				
a. Physically divide an established community?				
11a.Response: (Source: General Plan 2025 Land Use and Urba Less than Significant Impact. The proposed project has been design of the surrounding area providing adequate access, circulation, and compliance with the requirements of the Zoning and Subdivision C residence on the western portion of the parcel. The proposed project wone lot into four lots with three new residential homes. Therefore, t indirectly, or cumulatively from physically dividing an established control of the parcel.	ed to be consist connectivity odes. The parwill not divide the project wil	stent with the f consistent wit cel is mostly v an established	it into the patto th the General vacant with on community, b	ern of development Plan 2025, and in ily one (1) existing out rather subdivide
b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				
11b. Response: (Source: General Plan 2025, General Plan 2 Zoning/General Plan Consistency Matrix, Figure LU-7 – Subdivision Code, Title 7 – Noise Code, Title 17 – Grading C and Construction and Citywide Design and Sign Guidelines	Redevelopme Code, Title 20 -	ent Areas, Tit	le 19 – Zonin	g Code, Title 18 –
No Less than Significant Impact. The project site has the land use zoned R-1-1/2 Acre – Single – Family Residential Zone. The R-1-1/2 where the keeping of livestock and other farm animals and agricultu with the land use designation of VLDR and will meet the zoning stand consistent with the General Plan 2025 and the existing surrounding r	Acre zone is eral uses are no lards for the R	established for ot permitted. T -1-1/2 Acre zo	large lot single he proposed p	e-family residences project is consistent

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact	
The provisions for hillside/arroyo grading as defined in Section 17.28.020 of the Municipal Code apply to all excavation and grading of any land within or adjacent to the boundaries of Prenda Arroyo. Section 17.28.020 states in part, "No development or grading of any kind shall be permitted within 50 feet of the limits of the Mockingbird Canyon, Woodcrest, Prenda, Alessandro, Tequesquite, or Springbrook Arroyos and associated tributaries as shown on Exhibits A-F. The Community & Economic Development Director shall have the authority to administratively allow grading within designated arroyo tributaries depending on the sensitivity of the area. Sensitivity shall be determined by such factors as the presence of riparian vegetation, habitat for rare or endangered species, significant rock outcroppings or other unique topographic features on the property proposed to be graded or in nearby segments of the same tributary.					
A Grading Exception is needed to allow grading within the extent of the mapped Prenda Arroyo, as identified in the Riverside Municipal Code (RMC), Title 17 Grading, Exhibits A-F. The arroyos in RMC, Title 17 Grading, Exhibits A-F were mapped using aerial photography, rather than site specific assessments. A Biological Resources Study was prepared for the project, which included a detailed site assessment and associated mapping of the actual boundaries of the Prenda Arroyo and the 50-foot setback, by means of a site walk and review of available literature and data. The project biologist determined that the boundaries of the Prenda Arroyo and the 50-foot setback are smaller than what is mapped in Tile 17 – Grading Code of the RMC. Based on watercourse, topography, and vegetation the actual boundaries of the Prenda Arroyo is located within the southeast portion of the subject parcel, from east to west, as shown in Figures 12a and 12b of the project's Revised Biological Resources Assessment and Breeding Season Burrowing Owl Survey prepared by L& L Environmental, Inc. – Appendix A. The 50-foot setback from the actual boundaries of the Prenda Arroyo does not extend into the proposed graded pad area. There would be no impact to the Prenda Arroyo. The development footprint, the grading limits, and the fuel modification areas of the proposed project, are located outside the actual arroyo and a 50-foot setback from the arroyo. As such the project will not impact the actual Prenda Arroyo limits. A Grading Exception is needed to allow grading within the extent of the mapped Prenda Arroyo (as identified in the Riverside Municipal Code (RMC), Title 17 Grading, Exhibits A-F) and Grading Exception Findings were prepared for the project. An Open Space Easement will be recorded for the portions of Lots 2-4 located outside of the grading limits. Therefore, the project will not conflict with the provisions of RMC Title 17 Grading. For these reasons, this project will have no less than significant impact on related to an applicab					
12. MINERAL RESOURCES.					
Would the project: a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?					
12a. Response: (Source: General Plan 2025 Figure OS-1 – Mineral Resources)					
Less than Significant Impact. State-classified MRZ-2 and MRZ-3 Mineral Resource Zones are shown in GP 2025 Figure 5.10-1, Mineral Resources of the GP 2025 FPEIR. The proposed project is in MRZ-3. The MRZ-3 generally covers the eastern half of the City of Riverside and indicates that the area contains known or inferred mineral occurrences of undetermined mineral resource significance. Due to the small development size of the project, approximately 3 acres for 3 new residences, the project would not result in a significant loss of availability of land, even if it did have a mineral resource. Therefore, the impacts to known mineral resources are less than significant directly, indirectly, and cumulatively.					
b. Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan? 12b Response: (Source: Gangral Plan 2025 Figure OS-1					

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact	
No Impact. The GP 2025 FPEIR determined that there are no specimportant mineral resource recovery sites and that the implementation the ability to extract state-designated resources. The proposed project no impact directly, indirectly, and cumulatively.	on of the Gene	eral Plan 2025	would not sig	nificantly preclude
13. NOISE.				
Would the project result in:				
a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				
13a. Response: (Source: General Plan Figure N-1 – 2003 Roa – March ARB Noise Contours, FPEIR Table 5.11-I – Exist Interior and Exterior Noise Standards, GP EIR Appendix C	ting and Futu	re Noise Cont	tour Comparis	son, Table 5.11-E –
Less than Significant Impact. The project is not expected to construction, as standard construction activities and equipment will be within an already developed residential area. The project is expected Municipal Code and is compliant with the Noise/Land Use Noise Element. In compliance with the Municipal Code, construction asso of 7:00 p.m. and 7:00 a.m. on weekdays, between the hours of 5:00 pa federal holiday. Therefore, impacts are less than significant on the excess of established City standards either directly, indirectly or current.	e used, or after to meet the Cite Compatibility ciated with the p.m. and 8:00 the exposure of	er construction ity's noise stan by Criteria Ma e project will a.m. on Saturo	as the project dards as set for trix (Figure M not take place days, or at any	is three new homes orth in Title 7 of the N-10) of the Noise between the hours time on Sunday or
b. Generation of excessive groundborne vibration or groundborne noise levels?				
13b. Response: (Source: General Plan Figure N-1 – 2003 Road – March ARB Noise Contours, FPEIR Table 5.11-G – Vib Appendix G – Noise Existing Conditions) Less than Significant Impact. Construction related activities althounoise and vibration that could affect occupants of neighboring uses. to cause the generation of excessive groundborne vibration or groundle with the City's noise standards and impacts related to groundborne vito be less than significant directly, indirectly and cumulatively.	ration Source Ligh short term Construction porne noise leve	n, are the most related activitivels. The proje	common sources of the project is expected	rce of groundborne ect are not expected to be in compliance
c. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				
13c. Response: (Source: General Plan 2025 Figure N-8 – Ri Google Maps)	verside and F	labob Airport	t Noise Conto	ur, Noise Element,
No Impact. The proposed project is not located within an airport lan The closest airport to the project site is the Riverside Municipal Approject site. The March Air Reserve Base is located approximately in the content of the project site.	irport, which	is approximate	ely 4.5 miles i	northwest from the

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact	Impact
project will not expose people residing or working in the project an impacts directly, indirectly, or cumulatively.	rea to excessi	ve airport rela	ted noise leve	ls and there are no
14. POPULATION AND HOUSING. Would the project:				
a. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				
14a. Response: (Source: General Plan 2025 Table LU-3 – Land and Households Forecast, Table 5.12-B – General Plan Po 2025 General Plan and SCAG Comparisons, Table 5.1 Improvement Program and SCAG's RCP and RTP)	pulation and	Employment I	Projections=20	025, Table 5.12 - C –
Less than Significant Impact. The project includes construction of induce population growth. The project site has the land use designati 1-1/2 Acre – Single – Family Residential. The R-1-1/2 Acre zone i keeping of livestock and other farm animals and agricultural uses are use designation of VLDR and will meet the zoning standards for throadways that contain existing wet and dry utilities. As the project is by the General Plan, and the project would not directly induce subs would be less than significant directly, indirectly, or cumulatively.	on of Very Los s established not permitted he R-1-1/2 A consistent wi	ow Density Re- for large lot si . The proposed cre zone. The th the General	sidential (VLI ngle-family re project is con project site is Plan, this gro	OR) and is zoned Residences where the sistent with the land a served by existing wth was anticipated
b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				
No Impact . The proposed project site contains one existing house wit project would not displace any existing housing, and would not new would occur.	hin the projec			
	Τ	1	Τ	Τ
Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
a. Fire protection?			\boxtimes	
15a. Response: (Source: FPEIR Table 5.13-B – Fire Station Le and Ordinance 5948 § 1, Google Maps)	ocations, Tab	le 5.13 - C – Riv	erside Fire D	epartment Statistics
Less than Significant Impact. The project consists of 3 new resident in residences may require additional fire services but will not require fire service with regards to acceptable service ratios, response times,	e the need for	new fire facil	ities. The proj	ect will not impact

Less Than Less Than **Potentially** No ISSUES (AND SUPPORTING Significant Significant Significant Impact With INFORMATION SOURCES): **Impact Impact** Mitigation **Incorporated** services are provided by Fire Station #10 (Arlington Heights Station) located at 2590 Jefferson Street, Riverside CA 92504, approximately 2.75 miles from the project site. The proposed project will be constructed pursuant to the 2016 California Fire Code as adopted and amended by the City of Riverside. In addition, with implementation of General Plan 2025 policies, compliance with existing codes and standards, and through Fire Department practices, adequate fire protection will be provided. The proposed project would not result in substantial adverse physical impacts associated with the provision of new or physically altered fire stations or other government facilities related to fire protection, and impacts would be less than significant directly, indirectly or cumulatively. b. Police protection? 15b. Response: (Source: General Plan 2025 Figure PS-8 – Neighborhood Policing Centers, Google Maps) Less than Significant Impact. Adequate police facilities and services to serve this project are provided by the Riverside Police Department Station 10 located at 8181 Lincoln Avenue, Riverside, CA 92504, which is a distance of approximately 3.5 miles from the project site. The development of 3 new single-family homes will not warrant the construction of new police facilities and will not impact police services with regards to acceptable service ratios, response times, or other performance objectives. With implementation of General Plan 2025 policies, compliance with existing codes and standards, and through Police Department practices, there will be less than significant impacts on the demand for additional police facilities of services either directly, indirectly or cumulatively. Schools? 15c. Response: (Source: FPEIR Figure 5.13-2 - RUSD Boundaries, Table 5.13-D - RUSD, Figure 5.13-3 - AUSD Boundaries, Table 5.13-E - AUSD, Table 5.13-G - Student Generation for RUSD and AUSD By Education Level, and Figure 5.13-4 – Other School District Boundaries) Less than Significant Impact. The project site is located in the Riverside Unified School District (RUSD), and would be served by: Victoria Elementary School (2910 Arlington Ave.) Gage Middle School (6400 Lincoln Ave.) Poly High School (5450 Victoria Ave.)

Table 2 depicts the generation factors for RUSD using the three land use densities proposed in the General Plan 2025 (see LU-3). As shown in the table below, it is anticipated that approximately 2 students would be generated from the proposed project. This increase in student population will not create a need for construction of new school facilities and will not impact existing schools with regards to acceptable service ratios or other performance objectives. Adequate school facilities and services are provided by RUSD to serve the project. In addition, implementation of General Plan 2025 policies, compliance with existing codes and standards, and payment of RUSD impact fees will offset the impact of the new homes. Therefore, the proposed project will have a less than significant impact, directly, indirectly, or cumulatively related to schools.

Table 2: Student Population Increase Calculation

School	Number of Homes	x Student Generation Rates for Single- Family Units (3)	= Number of Students Generated by Project
Elementary	3	.38	0.76
Middle	3	.11	0.33
High School	3	.21	0.63
Total	3		1.72 rounded to whole number = 2

d. Parks?

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact	•
15d. Response: (Source: General Plan 2025 Figure PR-1 - Recreation Facilities, Parks Master Plan 2003, GP 2025 and Table 5.14-C - Park and Recreation Facilities Funded	FPEIR Table	n Spaces and 5.14-A – Par	k and Recreat	tion Facility Types
Less than Significant Impact. According to the General Plan EI undeveloped parks that total 2,814 acres of parkland throughout standards for parkland distribution is 3 developed acres per 1,000 pc	the City. As d			
The closest City-wide/Special Use park is Arlington Heights Sports to the west). This 34.5-acre park has lighted baseball fields, soccer f children's playground, and group picnic area. Additionally, the nor proposed project at 9400 Dufferin Avenue (approximately 4.5 mile Golden Star Park at Bradley and Washington (approximately 1 mil listed in the City Parks inventory as a future park site. As the populat facilities increases due to the additional need for new park improve required from the City. The City requires all development project t issuing building permits to ensure that adequate park facilities are a additional maintenance and upkeep of parks and other recreational f development is subject to all applicable Park Development Impact significant impacts would occur, directly, indirectly, and cumulative	ields, restroom a-city owned C s to the west). e west). This ion of the city ements and up o pay its fair savailable for all accilities is fulf a Fees per RM	ns, snack bar, the California Citro The closest of 19.32-acre site grows, the neekeep and main share of Park Ill residents. The filled through	pasketball counts State History ty-owned parle is presently and for parks and tenance of expevelopment late funds needed the payment of the state of	ets, on-site parking, ric Park is near the c will be the future undeveloped but is d other recreational isting facilities are impact Fees before ed to accommodate of these fees. As the
e. Other public facilities?				
15e. Response: (Source: General Plan 2025 Figure LU-8 – Con Figure 5.13-6 - Community Centers, Table 5.3-F – River Library Service Standards)				
Less than Significant Impact. Adequate public facilities and serve in the Alessandro Heights neighborhood to serve this project. In a compliance with existing codes and standards, and through Park and there will be a less than significant impact on the demand for additional cumulatively.	ddition, with i d Recreation a	mplementation and Communit	n of General I y Services and	Plan 2025 policies, I Library practices,
16. RECREATION.				
a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				
16a. Response: (Source: General Plan 2025 Figure PR-1 Recreation Facilities, Figure CCM-6 – Master plan of Trail A – Park and Recreation Facility Types, and Table 5.14-6 Renaissance Initiative, Table 5.14-D – Inventory of Existing 16.60 - Local Park Development Fees, Bicycle Master Plan	s and Bikeway C – Park and ing Communi May 2007)	ys, Parks Mast Recreation F ty Centers, Ri	er Plan 2003, acilities Fund verside Munic	FPEIR Table 5.14 ed in the Riverside cipal Code Chapte
Less than Significant Impact. The City's adopted standard for devibe adversely affected by the increase of approximately 10 residents (area of the City identified to have a parkland shortage. As the populat facilities increases due to the additional need for upkeep and maintenance of the representational facilities. The City requires all development are	i.e., 3.3 person ion of the city nce that is requ	ns per unit). The grows, the need aired from the	ne project site od for parks and City. The proje	is not located in an d other recreational ect does not include

on-site recreational facilities. The City requires all development project to pay its fair share of Park Development Impact Fees before issuing building permits to ensure that adequate park facilities are available for all residents. The funds needed to

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
accommodate additional maintenance and upkeep of parks and other fees. Therefore, the project will have less than significant impacindirectly, or cumulatively.				
b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				
16b. Response: (Source: Preliminary Landscape Plan)				
Less than Significant Impact. The project will develop 3 new recreational facilities. The potential impacts to the environment from in response 16a above, the increase of approximately 10 residents fro of recreational facilities. Less than significant impacts directly, ind	this project is m the project v	s included with would not requ	nin this Initial nire the constru	Study. As outlined
17. TRANSPORTATION Would the project result in:				
a. Conflict with a program plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?				\boxtimes
17a. Response: (Source: General Plan 2025 Figure CCM-4 - M Capacity (V/C) Ratio and Level of Service (LOS) (Typical Estimates, Table 5.15-H - Existing and Typical Density S No Impact. The project is consistent with the General Plan 2025. project peak hour traffic contribution at local area intersections woulguidelines. This project is within the range for the Typical buildout will be no impact directly, indirectly, or cumulatively to the capacity	2025), Table Scenario Inter A traffic analyd be less than densities analy	5.15-D – Exists exection Levels ysis for this pr 50 peak hour yzed in the Ger	ting and Futures of Service) roject is not not trips, and beloneral Plan 202	eeded as maximum ow the traffic study
b. Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?			\boxtimes	
17b. (Source: General Plan 2025 Figure CCM-4 – Master Plan Facilities, City of Riverside Draft Traffic Impact Analysis Assessment July 2020) Less than Significant Impact. The City of Riverside Draft Traffic will not require a Transportation Impact Analysis (TIA) that include on the substantial evidence provided in the Office of Planning an implementation or is related to projects that are local serving which	Impact Analyses Vehicle Milad Research (or Vehicle Min vsis Guidelines es Traveled (V OPR) Technic	s identify activ (MT). This preal Advisory s	rities that generally esumption is based supporting SB 743
distance those trips travel to access the development (and are VM schools, parks, day care centers, gas stations, banks, hotels, student he daily vehicle trips, which generally corresponds to "typical" developless). As the proposed project includes only 3 new single family himpacts are less than significant, directly, indirectly, and cumulative	T-reducing project ousing project oment potentianousing units,	rojects). These s, etc. but also als including 1 it does not re	e activities ind projects gener 1 single famil	clude local serving rating less than 110 y housing units (or
c. Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?				

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impost
INFORMATION SOURCES):	Impact	With Mitigation	Impact	Impact
17a Dagramas (Carres Carrer Dlag 2025 Etarre DC (D. At	Co-Co-t	Incorporated		Dimensi de Countre
17c. Response: (Source: General Plan 2025 Figure PS-6B – Ai Airport Land Use Compatibility Plan, 2004. http://www.rcaluc.or				
Less than Significant Impact. The project site is within the Fligh	t Corridor Bu	ffer of the Riv	verside County	Airport Land Use
Compatibility Plan for March Air Reserve Base/Inland Port Airport	rt. The projec	t site is appro	ximately 5 mi	les from Riverside
Municipal Airport and approximately 7 miles from the March Air Res				
story, single family residential structures, will not cause a change in				safety risks related
to a change in air traffic patterns will be less than significant from it	mpiementatio	n of the propos	sea project.	
d. Substantially increase hazards due to a geometric design				
feature (e.g., sharp curves or dangerous intersections) or				
incompatible uses (e.g., farm equipment)?				
17d. Response: (Source: Project Site Plans, Google Maps)			l	
Less than Significant Impact. The proposed project is compatible				
been designed so as not to cause any incompatible use or addition				
Meadows Lane is an existing, improved residential collector street				
modifications to this street. This project will have a less than si	gnificant im	pact on increa	asing hazards	through design or
incompatible uses either directly, indirectly, or cumulatively.				
e. Result in inadequate emergency access?				
17e. Response: (Source: California Department of Transport Code and Project Site Plans)	ation Highwa	iy Design Ma	nual, Municiį	oal Code, and Fire
No Impact. The project will be developed in compliance with Title	18 Section 18	3 210 030 and	the City's Fire	e Code Section 503
(California Fire Code 2007). Such requirements include building a				
means of egress for emergency vehicles. Alpine Meadows Lane is an				
project site. The project does not include any modifications to this st				
Prior to Project approval, Riverside Fire Department would formally				
fire safety requirements, ensuring that emergency access is adequate	te. Therefore,	there will be	no impact dir	ectly, indirectly or
cumulatively to emergency access.				
18. TRIBAL CULTURAL RESOURCES.				
Would the project cause a substantial adverse change in the				
significance of a tribal cultural resource, defined in Public				
Resources Code Section 21074 as either a site, feature, place,				
cultural landscape that is geographically defined in terms of the				
size and scope of the landscape, sacred place, or object with				
cultural value to a California Native American tribe, and that is:				
a. Listed or eligible for listing in the California Register of				
Historical Resources, or in a local register of historical				_
resources as defined in Public Resources Code Section				
5020.1(k), or 18a. Response: (Source: AB52 Consultation, Phase I Cultural I	Pesources Ass	essment nrena	red by I&I.E	nvironmental Inc
December 2021 revised April 2023 and June 2023 – Appen		essilvent propa	. woj loli E	0.0
, and the second	,			
Less than Significant Impact with Mitigation Incorporated. As or				
and expands CEQA by defining a new resource category, "Tribal Cu				
project's potential to impact tribal cultural resources. Such resources	inciuae "[s]i	ies, reatures, c	uiturai iandsca	ipes, sacred places,

Potentially Less Than Less Than No ISSUES (AND SUPPORTING Significant Significant Significant Impact With **Impact** INFORMATION SOURCES): **Impact** Mitigation Incorporated and objects with cultural value to a California Native American Tribe and is 1) listed or eligible for listing in the California Register of Historical Resources or included in a local register of historical resources. AB 52 also gives Lead Agencies the discretion to determine, supported by substantial evidence, whether a resource qualifies as a "tribal cultural resource". As discussed in Threshold 5a above, as part of the Cultural Resources Assessment prepared, archaeologists did not record any historic or archaeological resources within the grading and development footprint of the 3 new houses. A milling slick is located within the property boundary; however it is located outside the grading and development footprint and will be avoided and left in place. Per AB 52, Native American consultation is required upon request by a California Native American tribe that has previously requested that the City provide it with notice of such project. On May 19, 2022 the City of Riverside sent the required notices though certified mail to the following Native American Tribes: Morongo Band of Mission Indians, San Gabriel Band of Mission Indians. Gabrieleno Band of Mission Indians - Kizh Nation, Pechanga Band of Luiseño Mission Indians, Soboba Band of Luiseño Indians, Rincon Band of Luiseño Indians. Morongo Band of Mission Indians, Cahuilla Band of Indians, San Manuel Band of Mission Indians, and the Agua Caliente Band of Cahuilla Indians. As a result of AB 52 notices to interested tribes, the following tribes requested consultation with the City: Pechanga Band of Luiseño Mission Indians, Cahuilla Band of Indians, Morongo Band of Mission Indians, The Mitigation Measures MM CUL-1 through MM CUL-5 in Section 5, Cultural Resources above were agreed to during City and Tribal consultation and will be applied to the project. Through implementation of appropriate mitigation measures (MM CUL-1 through MM CUL-5), impacts to tribal cultural resources directly, indirectly and cumulatively as a result of the project are reduced to a less than significant level. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. 18b. Response: (Source: AB52 Consultation, Phase I Cultural Resources Assessment prepared by L&L Environmental, Inc., December 2021 revised April 2023 and June 2023 – Appendix D) Less than Significant Impact with Mitigation Incorporated. Please see response to 18a. No Tribal Cultural Resources or known eligible or listed archeological/historical resources have been identified on the project site. Impacts to unknown resources would be **less than significant** with the implementation of mitigation measures MM CUL-1 through MM CUL-5. 19. UTILITIES AND SYSTEM SERVICES. Would the project:

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunication facilities, the construction or relocation of which could cause significant environmental effects?				
19a. Response: (Source: FPEIR Figure 5.16-3 – Water Service Projected Domestic Water Supply (AC-FT/YR, Table 5.16-Projected Water Demand for RPU including Water Reliabi	F – Projected	Water Demai		
Less than Significant Impact. The project would not result in the wastewater treatment or storm water drainage, electric power, natural project and water and sewer lines currently exist in the adjacent road	l gas, or teleco			
The City of Public Works Department provides for the collection, treathe City of Riverside, through its Riverside Regional Water Quarequirements governing the treatment and discharge of wastewater pipeline in Alpine Meadows Lane. The proposed project will telecommunication also located in Alpine Meadows Lane. No reloc project. Therefore, this project was found to have a less than signi cumulatively.	The proposed connect to ation or construction	nt Plan and c ed project wou other utilitie ruction of exp	omplies with ald connect to s, including anded utilities	State and Federal an existing sewer gas, electric, and are needed for the
b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?				
19b. Response: (Source: FPEIR Figure 5.16-3 – Water Service Projected Domestic Water Supply (AC-FT/YR, Table 5.16- Projected Water Demand for RPU including Water Reliabi	F – Projected			
Less than Significant Impact. The City's Urban Water Managemer recent population trends. As the proposed project includes less the Assessment pursuant to AB 610. As noted in Table 5.16-E of the U 2025 water supply would include up to 32,138 acre-feet of supply groundwater pumping and treatment, additional exchange with the G through increased recycled water use, additional supply made available and increased imported water from WMWD. The proposed project with Alpine Meadows Lane. The project will not exceed expected with significant impact resulting in the insufficient water supplies either	han 500 dwel Utilities section ly from plant age Canal Cor- ole through the would connect vater supplies	ling units it d n of the Gener ned sources. T mpany, addition e Seven Oaks I t to existing po . Therefore, th	loes not requiral Plan 2025 In	re a Water Supply Final PEIR, RPU's include additional ater made available tion storage project apply infrastructure
c. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				
19c. Response: (Source: FPEIR Figure 5.16-3 – Water Service: Projected Domestic Water Supply (AC-FT/YR, Table 5.16 Projected Water Demand for RPU including Water Reliab	6-F – Projecte	d Water Dema		
Less than Significant Impact. Refer to 19a response above. The pro- Scenario where future wastewater generation was determined to be a The current Wastewater Treatment Master Plan anticipates and provi impact to wastewater treatment directly, indirectly, or cumulatively	dequate (see I des for this ty)	Гable 5.16-К с	of the General	Plan 2025 FPEIR).

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?				
19d. Response: (Source: FPEIR Table 5.16-A – Existing La. Generation from the Planning Area)	ndfills and T	able 5.16-M -	- Estimated F	uture Solid Waste
Less than Significant Impact. The project is consistent with the capacity was determined to be adequate (see Tables 5.16-A and 5.16 would result in a less than significant impact to landfill capacity with the capacity was determined to be adequate (see Tables 5.16-A and 5.16).	-M of the Ger	neral Plan 202:	5 FPEIR). Th	erefore, the project
e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?				
19e. Response: (Source: California Integrated Waste Managen	nent Board 20	002 Landfill F	acility Compl	iance Study)
No Impact. The California Integrated Waste Management Act und divert at least 50% of all solid waste generated by January 1, 2000. The State requirements. In addition, the California Green Building Code construction and demolition debris for all projects and 100% of excavate beginning January 1, 2011. The proposed project must comply with the Green Building Code and as such would not conflict with any Federa no impacts related to conflict with solid waste statutes will occur directly the solid waste statutes.	ne City is curre e requires all ted soil and la ne City's wast l, State, or loc	ently achieving developments nd clearing del e disposal requ al regulations	g a 60% divers to divert 50% oris for all non hirements as w related to soli	sion rate, well above 6 of non-hazardous residential projects rell as the California
20. WILDFIRE				
If located in or near state responsibility areas or lands classified as ve	ry high fire ha	zard severity z	zones, would t	he project:
a. Substantially impair an adopted emergency response plan or emergency evacuation plan?			\boxtimes	
20a. Response: (Source: California Department of Forestry and CAL Fire, Fire Hazard Severity Zones, https://www.fire.ca.gov/Less than Significant Impact. The project site is located within a Veroff the proposed project would not substantially impair an adopted emmodifications to the existing roadway network or require any temporal in accordance with all applicable Federal, State and City requirement evacuation planning. The proposed project will be reviewed by the Cito help ensure the safety of the residents and structures. These conditionals, length and grade of the driveways, gated entries, and turn emergency response times or overall impacts on City Fire Department significant impacts directly, indirectly, or cumulatively related to interest to a slope prevailing using and other factors, exacerbate	ery High Fire learners responsively closures duents related to ty Fire Departitions will adding radius. Get Facilities wo	Hazard Severinse or evacuation construction emergency rement and conducted the location of the small uld be anticipal.	ty Zone (VHF tion plan as it of tion. The project esponse plann ditions of appr ion of fire hy- size of the protect to occur. The ency response	Side/Riverside.pdf) HSZ). Construction does not include any ct will be developed ing and emergency oval will be applied drants, construction roject, no impact to Therefore, less than
b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?				
20b. Response: (Source: California Department of Forestry and — CAL Fire, Fire Hazard Severity Zones, <u>Fire Protection Plan p.</u> 2023; January 2024 – Appendix E)				

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact	
 Less than Significant Impact. The project site is located within a Very High Fire Hazard Severity Zone (VHFHSZ). Lots 2 and 3 of the proposed project would comply with the City of Riverside's Fire Department guidelines regarding residential design and providing 100 foot buffer for defensible space. Lot 4 of the proposed project would have less than the required 100 foot buffer to adjacent uncontrolled open space. The proposed project does not meet 100 feet of defensible space as required by the California Fire Code. The proposed project would has however obtained approval from the Fire Department for an Alternate Materials & Methods of Design and Construction for-which includes the following project design features and City Conditions of Approval: 1) a 6-foot tall concrete masonry wall/barrier on the southern to eastern property line side of the parcel and 2) a 2-hour rated exterior wall assembly for those surfaces facing the reduced Fuel Modification Area., with dual tempered glazing assemblies, for those wall surfaces facing the Assembly to include 2 sheets of tempered glass for windows exposed to open space area with reduced separation. As an alternate design the wall provided may be concrete masonry unit (CMU) and tempered glass to allow for a view. In addition, the project has the following Landscaping and Maintenance City Conditions of Approval (as identified in the project's approved Fire Protection Plan): Plants in Irrigated Zone 1 shall be fire resistant and shall include any pyrophytes that are high in oils and resins such as pines, eucalyptus, cedar, cypress or juniper species. Thick, succulent or leathery leaf species with high moisture content are the most 'fire resistant.' Refer to Fire Protection Plan Appendix B for examples of acceptable plants. Zone 1 shall be cleared of all fire prone and prohibited plant species. Refer to Fire Protection Plan Appendix A. Landscape designs using hardscape features such as driv					
The proposed alternate protection measures have been utilized in o would not exacerbate wildfire risks due to slope, prevailing winds or than 2H:1V and considered to be stable. Therefore, less than significa are anticipated with the development of the proposed project.	other factors. S	Slopes propose	ed onsite will b	e graded no steeper	
c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines, or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?					
20c. Response: (Source: California Department of Forestry at – CAL Fire, Fire Hazard Severity Zones)	nd Fire Prote	ction, Fire and	l Resource As	sessment Program	
Less than Significant Impact. The proposed project does not incexacerbate fire risk as it will be served by underground utilities in than significant impacts directly, indirectly, or cumulatively on exact the proposed project.	he existing, in	nproved Alpin	e Meadows L	ane. Therefore, less	
d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?					
20d. Response: (Source: California Department of Foresti Program – CAL Fire, Fire Hazard Severity Zones)	y and Fire	Protection, F	ire and Reso	ource Assessment	
Less than Significant Impact. The project site and its surroundings Figure 5.6-1 of the General Plan 2025 Program Final PEIR, and thus landslides. As outlined in response 10cii above, the project site is not	s, is not locate	d in an area pi	rone to downs	lope or downstream	

ISSUES (AND SUPPORTING	Potentially Significant	Less Than Significant	Less Than Significant	No Impact
INFORMATION SOURCES):	Impact	With Mitigation Incorporated	Impact	Impact
and streets are designed to accommodate the 10-year storm flow from street rights-of-way. As outlined in the WQMP, the design capture voloroject would not result in flooding downstream and off-site. The proregulations regarding fire safety. The proposed project would not expected and street are instability or drainage changes. There cumulatively from wildfires are anticipated with the development of the street are street and street are street and street are anticipated with the development of the street are stre	olume will be a poposed project pose people or fore, less tha	while 100-year addressed using t would comple structures to s an significant	g infiltration o y with all loca ignificant risk	only BMPs. And the al, state, and federal s from downstream
21. MANDATORY FINDINGS OF SIGNIFICANCE.				
a. Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or an endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?				
Habitat Conservation Plans (HCP), Figure OS-7 – MSHC General Plan 2025 FPEIR Figure 5.4-2 – MSHCP Area Plat Figure 5.4-6 – MSHCP Narrow Endemic Plant Species S Survey Area, Figure 5.4-8 – MSHCP Burrowing Owl S Associated with Riparian/Riverine Areas and Vernal Pools, Conservation Areas, Figure 5.5-1 - Archaeological Sensitive Appendix D, Title 20 of the Riverside Municipal Code, and Breeding Season Burrowing Owl Survey prepared by L& L 2022, August 2022, October 2022 – Appendix A, Western R Consistency Analysis prepared by L&L Environmental, Inc. 2023, May 2023 – Appendix A), Phase I Cultural Reson December 2021, revised April and June 2023 revised April Less than Significant Impact with Mitigation Incorporated. Pote discussed in the Biological Resources Section (4) of this Initial Study (see MM BIO-1 through MM BIO-4) directly, indirectly, or carchaeological and tribal resources related to major periods of Calif discussed in the Cultural Resources Section (5) of this Initial Study (see MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-5) directly, indirectly, or cumulated MM CUL-1 through MM CUL-1 th	ans, Figure 5.4 Survey Area, Invey Area, Invey Area, Invey Area, Inverse FPEIR Table Survey Figure 5.5 It site specific Environmental inverside Countains September 20 Surces Assessing 2023 and Junual impacts in the cumulatively. Fornia and the and were four survey and were four survey in the sur	4-4 - MSHCP of Figure 5.4-7 - MSHCP Section 16 5.5-A Historic Revised Biologal, Inc. Septement y Multiple Sp. 16 121, revised Aument prepared 2023 - Appeared to be less to Additionally City of Rivers	Criteria Cells of MSHCP Crical Districts in Cultural Regical Resource ber 2021, Respected Habitat agust 2022, Od by L&L Endix D) at of fish or withan significate, potential in side's history	and Subunit Areas, iteria Area Species otection of Species and Neighborhood sources Sensitivity, ies Assessment and vised May and July Conservation Plan etober 2022, March avironmental, Inc., aldlife species were int with mitigation in pacts to cultural or prehistory were
b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?				
21b. Response: (Source: FPEIR Section 6 – Long-Term Effection and site specific Phase I Cultural Resources Assessment pre April and June 2023)				
Less than Significant Impact. Because the project is consistent vanticipated and therefore cumulative impacts of the proposed project are less than significant .				

ISSUES (AND SUPPORTING INFORMATION SOURCES):	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact	
c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?					
21c. Response: (Source: FPEIR Section 5 – Environmental Impact Analysis for the General Plan 2025 Program) Less than Significant Impact. Effects on human beings were evaluated as part of the aesthetics, air quality, geology & soils, hydrology & water quality, noise, population and housing, hazards and hazardous materials, and transportation sections of this initial study and found to be less than significant for each of the above sections. Based on the analysis and conclusions in this initial study, the project will not cause substantial adverse effects, directly or indirectly to human beings. Therefore, potential direct and indirect impacts on human beings that result from the proposed project are less than significant.					

Note: Authority cited: Sections 21083 and 21087, Public Resources Code. Reference: Sections 21080(c), 21080.1, 21080.3, 21082.1, 21083, 21083.3, 21093, 21094, 21151, Public Resources Code; Sundstrom v. County of Mendocino, 202 Cal.App.3d 296 (1988); Leonoff v. Monterey Board of Supervisors, 222 Cal.App.3d 1337 (1990).

Mitigation, Monitoring, and Reporting Plan (MMRP)

Project Number PR-2022-001293/ Tentative Parcel Map 38174

Impact Category	Mitigation Measures	Implementation Timing	Responsible Monitoring Party ³	Monitoring/Reporting Method
Biological				
Resources	MM BIO-1: In order to avoid impacts on nesting birds and raptors (common or special status) clearing graphing and grading activities	If construction activities begin	Grading Contractor	Compliance with Project Conditions of
		between February 1 and June 30 a pre-	Biologist	Approval
	January 31 for nesting raptors), to the extent practicable. If project	construction survey	City of Riverside Planning	Final report submitted
	timing requires that these construction activities be conducted during breeding season (generally between March 1 and June 30 for birds;	snan be conducted by a qualified biologist	DIVISION	to City Community & Economic Development
	between February 1 and June 30 for raptors), a pre-construction survey or multiple surveys shall be conducted by a qualified biologist no more	within 72 hours of issuance of grading		Department – Planning Division for
	than 72 hours prior to disturbance to confirm the absence of active nests. If no active nests are found, no further measures would be	permit.		review/acceptance
	necessary. However, if the biologists finds an active nest of a bird			
	determines that the nest may be impacted by clearing, grubbing or			
	grading activities, the biologist shall identify an appropriate buffer zone			
	nature of the construction activities. The active nest site shall be			
	protected until the nesting activity has ended to ensure compliance with			
	the MBTA and California Fish and Game Code. Construction and/or encroachment into the huffer area around a known nest shall only be			
	allowed if the biologist determines that the proposed activity would not			
	disturb the nest occupants.			
	MM BIO-2: In accordance with the Burrowing Owl Survey	Prior to issuance of	Biologist	Final report submitted
	Instructions for the Western Riverside County Multiple Species Habitat	grading permit, and	;	to City Community &
	Conservation Plan, a 30-day pre-construction survey for burrowing	within 30 days of	Grading Contractor	Economic Development Department – Planning
	vegetation clearing, clearing and grubbing, grading, tree removal, site	م سرده	Regional Conservation	Division for
	watering, equipment staging) to ensure that no burrowing owls have		Authority and California	review/acceptance
	colonized the project site prior to the initiation of ground-disturbing activities. If ground-disturbing activities occur, but the site is left		Wildlife	
	undisturbed for more than 30 days, a pre-construction survey shall be			
	completed again to ensure that burrowing owl have not colonized the		City of Riverside Planning Division	

³ All agencies are City of Riverside Departments/Divisions unless otherwise noted.

Impact Category	Mitigation Measures	Implementation Timing	Responsible Monitoring Party ³	Monitoring/Reporting Method
	site since it was last disturbed. If burrowing owl are found, the same coordination described above will be necessary. If burrowing owls have colonized the project site prior to the initiation of ground-disturbing activities, the project proponent shall immediately inform the Regional Conservation Authority (RCA). A burrowing owl relocation plan shall be prepared and submitted to the RCA and CDFW for review and approval prior to commencement of ground disturbance activities. The burrowing owl relocation plan shall outline methods to relocate any burrowing owls occurring on the project site and ensure compliance with the MSHCP, MBTA, and California Fish and Game Code. If an active burrow is found during the breeding season (February 1 through August 31) occupied burrows shall not be disturbed and shall be provided with a protective buffer unless a qualified biologist verifies through noninvasive means that either: (1) the birds have not begun egg laying, or (2) juveniles from the occupied burrows are foraging independently and are capable of independent survival. The size of the buffer shall depend on the time of year and level of disturbance.			
	MM BIO-3: The status of listing the Crotch bumble bee under the California Endangered Species Act is currently in litigation. If the litigation is resolved in favor of listing this species prior to the start of construction, a focused survey would be completed. If the species is listed and is found to be present on the site and would be impacted, an Incidental Take Permit from CDFW would be required. The ITP would outline CDFW required onsite and/or offsite mitigation to offset potential impacts from the project to less than significant levels.	Prior to issuance of grading permit, if Crotch bumble bee is still considered a candidate or is listed	City Community & Economic Development Department – Planning Division	Focused survey report submitted to City Community & Economic Development Department – Planning Division for review/acceptance. If results are negative grading permit may be issued, if results are positive then Incidental Take Permit from CDFW required and submitted to City for grading permit to be issued
	MM BIO-4: If the project grading plans are revised such that grading is extended to the south and within a 300-feet buffer from riparian habitat in Prenda Creek to the south, then either construction shall avoid the period of April 10 to July 31, or if it will occur during this period, a habitat assessment for riparian birds in that area shall be completed.	Prior to issuance of grading permit, if grading plans are revised to extend to the south and within a	City Community & Economic Development Department – Planning Division	Habitat Assessment report submitted to City Community & Economic Development Department – Planning

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Impact Category	Mitigation Measures	Implementation Timing	Responsible Monitoring Party ³	Monitoring/Reporting Method
	If this area is deemed to be suitable for least Bell's vireo, southwestern willow flycatcher or the western yellow-billed cuckoo, then a focused survey shall be conducted to determine presence or absence. If present, additional avoidance and minimization measures shall be implemented as identified by the qualified biologist permitted to conduct the focused surveys for these species.	300 foot buffer from the riparian habitat in the Prenda Creek.		Division for review/acceptance
Cultural	MM CUL-1: Prior to grading permit issuance, if there are any changes to the project site design and/or proposed grades, the Applicant and the City shall contact interested tribes to provide an electronic copy of the revised plans for review. Additional consultation shall occur between the City, developer/applicant, and consulting tribes to discuss any proposed changes and review any new impacts and/or potential avoidance/preservation of the cultural resources on the project site. The City and the developer/applicant shall make all attempts to avoid and/or preserve in place as many cultural and paleontological resources as possible that are located on the project site if the site design and/or proposed grades should be revised. In the event of inadvertent discoveries of archaeological resources, work shall temporarily halt until agreements are executed with consulting tribe, to provide tribal monitoring for ground disturbing activities.	Prior to issuance of grading permit.	City Community & Economic Development Department – Planning Division	Site Plan Review and Issuance of Grading Permits.
	MM CUL-2: At least 30 days prior to application for a grading permit and before any grading, excavation and/or ground disturbing activities take place, the developer/applicant shall retain a Secretary of Interior Standards qualified archaeological monitor to monitor all ground-disturbing activities in an effort to identify any unknown archaeological resources. 1. The project archaeologist, in consultation with consulting tribes, the Developer, and the City, shall develop an Archaeological Monitoring Plan to address the details, timing, and responsibility	30 days prior to issuance of grading permit.	Registered Professional Archaeologist and Paleontologist	Property Owner/Developer to provide a letter to the City from a County certified Archaeologist and Paleontologist stating they are retained and will be on call during all grading and ground-disturbing
	of all archaeological and cultural activities that will occur on the project site. Details in the plan shall include: a. Project grading and development scheduling; b. The development of a rotating or simultaneous schedule in coordination with the developer/applicant and the project archaeologist for designated Native American Tribal Monitors from the consulting tribes during grading, excavation, and ground-disturbing activities on			acuvines.

Impact Category	Mitigation Measures	Implementation Timing	Responsible Monitoring Party ³	Monitoring/Reporting Method
	the site, including the scheduling, safety requirements, duties, scope of work, and Native American Tribal Monitors' authority to stop and redirect grading activities in coordination with all project archaeologists; The protocols and stipulations that the Applicant, tribes, and project archaeologist/paleontologist will follow in the event of inadvertent cultural resources discoveries, including any newly discovered cultural resource deposits, or nonrenewable paleontological resources that shall be subject to a cultural resources evaluation; d. Treatment and final disposition of any cultural and paleontological resources, sacred sites, and human remains if discovered on the project site; and remains if discovered on the project site; and Training notes in mitigation measure MM CUL-4.			
	 MM CUL.3: Treatment and Disposition of Cultural Resources: In the event that Native American cultural resources are inadvertently discovered during the course of grading for the proposed Project, the following procedures will be carried out for treatment and disposition of the discoveries: Consulting Tribes Notified: within 24 hours of discovery, the consulting tribe(s) shall be notified via email and phone. Consulting tribe(s) will be allowed access to the discovery, in order to assist with the significance evaluation. Temporary Curation and Storage: During the course of construction, all discovered resources shall be temporarily curated in a secure location on site or at the offices of the project archaeologist. The removal of any artifacts from the project site will need to be thoroughly inventoried with tribal monitor oversight of the process; and Treatment and Final Disposition: The landowner shall relinquish ownership of all cultural resources, including sacred items, burial goods, and all archaeological artifacts and non-human remains as part of the required mitigation for impacts to cultural resources. The landowner shall relinquish the artifacts through one or more of the following methods and provide the City of Riverside Community and Economic Development Department with evidence of same: Accommodate the process for on-site reburial of the discovered items with the consulting Native 	During construction/ Prior to occupancy permit issuance.	Grading/ Civil Contractor Registered Professional Archaeologist and Paleontologist	Phase IV Monitoring Report shall be submitted to the City documenting monitoring activities conducted by the project archaeologist and Native Tribal Monitors prior to issuance of occupancy permit.

Impact Category	Mitigation Measures	Implementation Timing	Responsible Monitoring Party ³	Monitoring/Reporting Method
	American tribes or bands. This shall include measures and provisions to protect the future reburial area from any future impacts. Reburial shall not occur until all cataloguing and basic recordation have been completed. b. A curation agreement with an appropriate qualified repository within Riverside County that meets federal standards per 36 CFR Part 79 and therefore will be professionally curated and made available to other archaeologists/researchers for further study. The collections and associated records shall be transferred, including title, to an appropriate curation facility within Riverside County, to be accompanied by payment of the necessary fees for permanent curation; c. If more than one Native American tribe or band is involved with the project and cannot come to a consensus as to the disposition of cultural materials, they shall be curated at the Western Science Center or Museum of Riverside by default; and d. At the completion of grading, excavation, and ground-disturbing activities on the site, a Phase IV Monitoring Report shall be submitted to the City documenting monitoring activities conducted by the project archaeologist and Native American Tribal Monitors within 60 days of completion of grading. This report shall be submitted to the City of Riverside, Eastern Information Center, and consulting tribes.			
	MM CUL-4: Cultural Sensitivity Training: The Secretary of Interior Standards County certified archaeologist and Native American monitors shall attend the pre-grading meeting with the developer/permit holder's contractors to provide Cultural Sensitivity Training for all construction personnel. This shall include the procedures to be followed during ground disturbance in sensitive areas and protocols that apply in the event that unanticipated resources are discovered. Only construction personnel who have received this training can conduct construction and disturbance activities in sensitive	Prior to issuance of grading permit	Grading/Construction Contractor Registered Professional Archaeologist	Cultural Sensitivity Training sign-in sheet to be submitted to the City.

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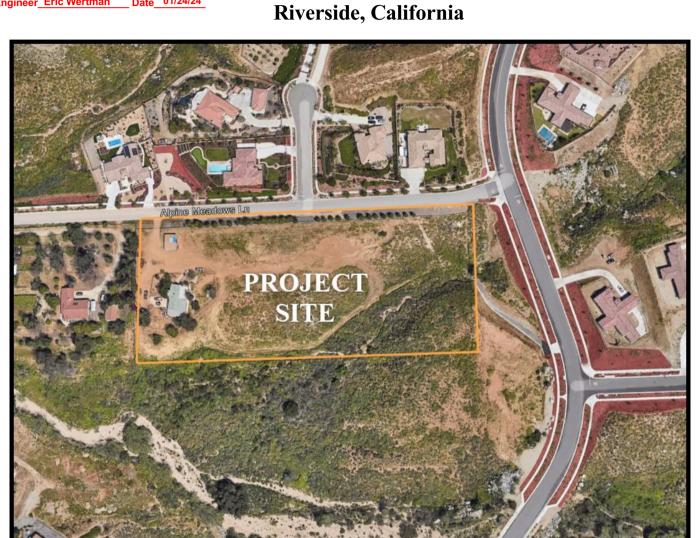
Impact Category	Mitigation Measures	Implementation Timing	Responsible Monitoring Party ³	Monitoring/Reporting Method
	areas. A sign-in sheet for attendees of this training shall be included in the Phase IV Monitoring Report.			
	MM CUL-5: Prior to issuance of a grading permit, the City shall confirm that the final grading plan avoids impacts to the prehistoric bedrock milling site (33-015434), single-family residence (841 Alpine Meadows Lane), and/or concrete well (QUIN-001H). If the Project development footprint is modified to include direct and/or indirect impacts to the prehistoric bedrock milling site (33-015434), single-family residence (841 Alpine Meadows Lane), and/or concrete well (QUIN-001H), additional technical studies (i.e., archaeological evaluation report and historical resources evaluation report) shall be required to evaluate the significance of these resources against CRHR criteria. The archaeological evaluation plan, limited subsurface testing, development of a Native American cultural landscape context to evaluate historical association under Criterion 1, consultation with local Native American tribes and organizations, and preparation of an archaeological evaluation report. The historical resources evaluation will include, at a minimum, preparation of DPR 523 forms, architectural assessments, archival research to determine historical association, if any, to persons or events of local, state, or national significance, and preparation of a Historical Resources Evaluation Report. Final reports shall be submitted to the City, Project Proponent, consulting tribes, and Eastern Information Center located on the campus of the University of California, Riverside.	Prior to issuance of grading permit.	City Community & Economic Development Department – Planning Division	Site Plan Review and Issuance of Grading Permits.

PR-2022-001293

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Engineer_Eric Wertman Date 01/24/24

Fire Protection Plan TTM 38174 APN 243-600-25



24 February 2023; Revised 25 April 2023;19Jan24

Prepared for: **Ryan Williams** 1649 Harrison Lane Redlands, CA 92374

Certified by:

Mel Johnson, Owner

Certified CEQA Wildland Fire Consultant

FIREWISE 2000 LLC

P.O. BOX 339

LOWER LAKE, CA

INFO@FIREWISE2000.COM

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TTM38174 Fire Protection Plan

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		PENDIX 'E' PENDIX 'F
		PENDIX 'G'
Approv	All Market Request	LIDIA

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Fire Protection Plan Alpine Meadows TTM38174 Riverside, California

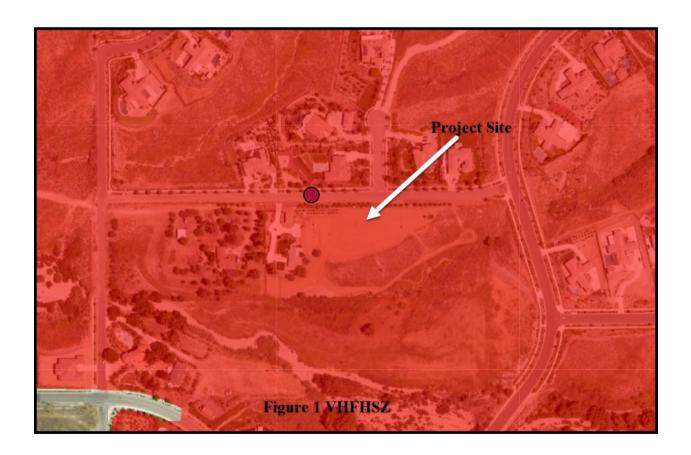
Engineer Eric Wertman Date 01/24/24

1.0 GENERAL DESCRIPTION

The proposed Project would split the 5.74-acre parcel APN 243-600-025, into four lots each of an approximate 46476 sf in size. Lot 1 is currently built under a prior permit. Lot 2, 3 and 4 would construct three (3) new single-family homes.

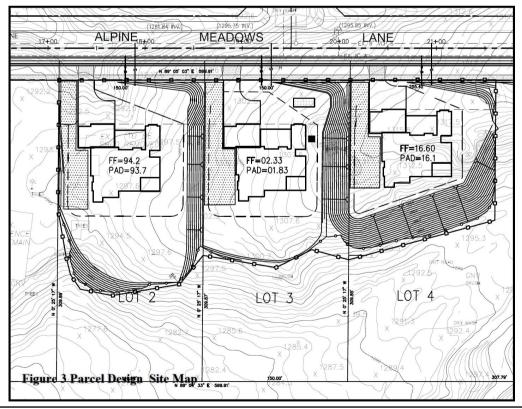
The subject property is currently vacant with no significant topographic features or vegetation and is characterized as undeveloped land.

The proposed Project is located within a high fire hazard zone in the City of Riverside Figure 1 Very High Fire Hazard Severity Zone (VHFHSZ).



This is to the introject is not begunded by developed properties to the north, east, and west. The area to the approved by the Fire Official and no deviation therefrom shall be permitted and the control drainage feature. Access into the this approval mass coise of the city nor does it. (Figure 2). Figure 3 Design Site Map.





This is the ring to any land development within this proposed project, a Fire Protection Plan (FPP) must be approved by the fire Oficial and an charge of by the City of Riverside Fire Department (RCFD). The FPP assesses this apprived overall (consisting and of fire city nor does it prevent association of any law of the city nor does it prevent association development. In addition, this FPP establishes both short plans. This is not an approval of any work requiring a separate permitted the two of the city of the city

1.1 General Information

Developer/Applicant: Ryan Williams

1649 Harrison Lane Redlands, CA 92374 Prepared By: Monty Kalin

Firewise2000, LLC Associate Planner

Approving Departments: City of Riverside Planning Department

Fire Authority: City of Riverside Fire Department

The purpose of this FPP is to provide Vegetation Management Zone treatment and construction feature direction for developers, architects, builders, and the individual lot owner. The document will be used in making the structures in the proposed project safe from future wildfires.

Requirements of this FPP are based upon requirements listed in the 2022 California Fire Code, Chapter 49. Public Resources Code, Sections 4201 through 4204, and Government Code, Sections 51175 through 51189, or other areas designated by the enforcing agency to be at a significant risk from wildfires.

Local Amendments as required; Chapter 7A-California Building Code; 2022 California Residential Code sections R337; National Fire Protection Association Standards (NFPA) 13-D, 2019 Edition.

the City of Riverside Weed Abatement, Declaration of Nuisance 6.15.020, and supporting guidelines.

Hazardous vegetation and fuels around all applicable buildings and structures shall be maintained by the following laws and/or regulations:

Public Resources Code, Section 4291. California Code of Regulations, Title 14, Division 1.5, Chapter 7, Subchapter 3, Section 1299 (see guidance for implementation "General Guideline to Create Defensible Space"). California Government Code, Section 51182. California Code of Regulations, Title 19, Division 1, Chapter 7, Subchapter 1, Section 3.07. Riverside County Ordinances; 787.7 and 460.151.

2.0 WILDLAND FIRE HAZARD AND RISK ASSESSMENT

The proposed site is located within an area classified by the RCFD as a Very High Fire Hazard Area. Wildland fire may impact the project as there are wildland fuels within 100 feet of the project on the south side. The greatest threat comes from the adjacent undeveloped property and drainage south of the proposed development. There is potential for wildfire to enter the project site from a windblown east and south fire event. All the structures within the site would be subject to embers showers.

2.1 Weather Review and Assessment

The typical prevailing summer time wind pattern is out of the west/southwest and normally is of a much lower velocity (5-10 MPH with occasional gusts to 30 MPH) and is associated with relative humidity readings ranging between 20% and occasionally more than 70% due to the sites proximity to the ocean. All other (northwest, southeast and south) wind directions may be

This is to certific casionally strong and gusty; however, they are generally associated with cooler moist air and approved by the Fire official and approved by the Fire official and approved by the Fire official and approved the fire official and a

prevent requiring correction of any error on the

Engineer Ero Wanta Ana bate Sucha wind conditions are usually associated with strong (>50 MPH), hot, dry winds with very low (<15%) relative humidity. Santa Ana winds originate over the dry desert land and can occur anytime of the year; however, they generally occur in the late fall (September through November). This is also when non-irrigated vegetation is at its lowest moisture content. The following illustrations depict the the worst case weather that FIREWISE 2000 LLC could verify over the last 10 years. Note that when very low humidity occurs simultaneously with strong winds that fire behavior can be profoundly affected.

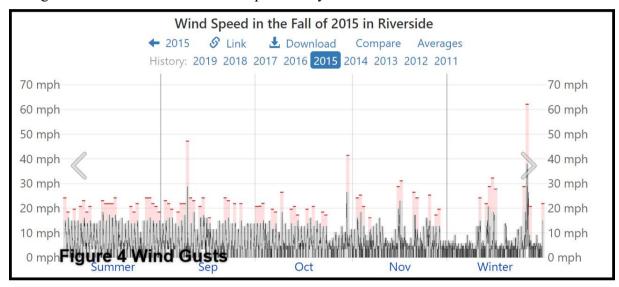


Figure 4 Wind Gust highest found over the past several years. Recorded at 65 mph.

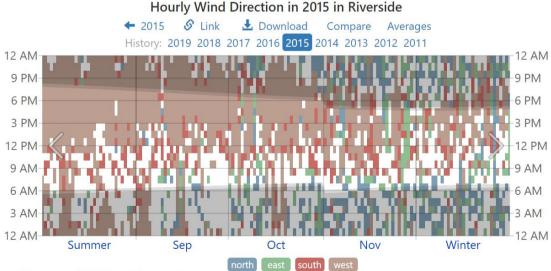


Figure 1,5 e Wind Direction or coded by compass point. The shaded overlays indicate night and civil twilight.

Figure 5 note predominate wind out of the west.

This is to certify that plans have been

approved by the file of istantian the control of th

this approval does not authorize violation or

cancellation of any law of the city nor does it, prevent requiring ure does not be at possible and that potentially put the structures at risk. There is considerable open space plans. This is not an approval of any work requiring a separate per the under the southern and potentially along the east boundary in remaining open space.

Engineer Eric Wertman Behavior, Apalysis was performed to the south and east of the project site.

Historically, wildland fires have burned in the City of Riverside during moderate west to southwest winds. This moderately strong, dry wind condition that occurs during these fires usually develops in the late afternoon or early evening. These winds occur during the normal summer and early fall (June through October) months. These winds may blow from 20-30 MPH. The most significant wind pattern that will impact the project is a Santa Ana wind which typically occurs in September through November and in the range of 50-60 MPH within this portion of Riverside County.

The current vegetative cover best resembles a SCAL 18 additionally portions were noted as more SH2 both BEHAVE Model are provided. Moderate Load, Dry Climate Shrub

The required irrigated fire-resistant/draught tolerant landscape surrounding the structure combined with ignition resistant construction requirements, will be more than sufficient to mitigate any threats from wildfire and embers coming from the east.

The greatest threat will be embers from a wildfire occurring to the east in the undeveloped open space.

2.3 On-site Fire Hazard and Risk Assessment

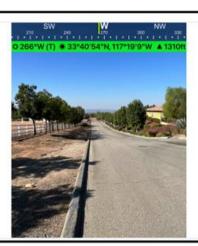
All the interior fuels will be removed during grading; therefore, there are no wildland fire hazards anticipated within the development once all the fuel modifications are developed as described in



Section 5.0 Fuel Modification Zone Descriptions & Required Treatments.

This is to certify that plans have been approved by the Fre Official and no change or deviation therefrom shall be permitted. However, this approval does not authorize violation or cancellation of any law of the city nor does it prevent requiring correction of any error on the plans. This is not an approval of any work requiring a separate permit under the laws of the city.

Engineer Eric Wertman Date 01/24/24





View off Alpine Meadows Ln, note residential development on north side of road.





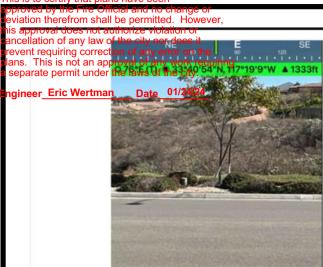
View across site has been cleared of all vegetation.





View inside fence looking west

This is to certify that plans have been





View east side of Kingdom Dr

These open space fuels would create a ember risk to the tract





View off corner of Alpine Meadows and Kingdom Note partial top of slope landscaping prior to open space





View south of proposed development open space fuels risk to development

This is to certify that plans have been approved by the Fire Official and no change or deviation therefrom snail be permitted. However,

this approval does not awherize wiperion activity was also considered in developing this FPP. CalFire and other cancellation of any law of the chy hor does it prevent sources considered in developing this FPP. CalFire and other prevent sources considered in developing this FPP. CalFire and other prevent sources considered in the characteristic plans. This is not an approval of any work requiring a separadoos mitothia characteristic. less than 2.5 ac that may have been extinguished by Riverside City Fire.

Engineer levidewed fue bise typical of the area, it is doubt fuel it will change much in future years.

2.5 Predicting Wildland Fire Behavior

The BEHAVE 5.0.5 Fire Behavior Prediction and Fuel Modeling System developed by USDA–Forest Service research scientists Patricia L. Andrews and Collin D. Bevins at the Intermountain Forest Fire Laboratory, Missoula, Montana, is one of the best systematic methods for predicting wildland fire behavior. The BEHAVE fire behavior computer modeling system is utilized by wildland fire experts and managers nationwide. The program projects the expected spotting distance, rate-of-spread and flame lengths with a reasonable degree of certainty for use in Fire Protection Planning purposes. *FIREWISE* 2000, Inc. used the BEHAVE 5.0.5 Fire Behavior Prediction Model to make the fire behavior assessments discussed below.

2.6 Wildland Fire Behavior Calculations for the Off-Site Hazardous Vegetative Fuels

Wildland fire behavior calculations have been projected for the hazardous vegetative fuels on the undeveloped areas in proximity to the proposed residences. These projections are based on scenarios that are 'worst case' Riverside County fire weather in the vicinity of the project area.

Tables 2.6.1 provides Behave Plus Inputs; fuel moisture values are at critical, and the fuel bed is unsheltered. All scenario outputs provide the expected Flame Length (expressed in feet), Rate of Fire Spread (expressed in ft/min), and Fireline Intensity (as btu/ft/s), within the Behave run sheets as part of the Scenario

Fuel Models were selected from project site observations of those areas within 200ft of proposed boundary, scenarios depict slope, aspect, and wind direction.

The two models selected most closely represent the model location, available fuel to burn. Flame Lengths would vary depending on the area being burnt through.

Table 2.6.1 Fire Behavior Modeling Inputs

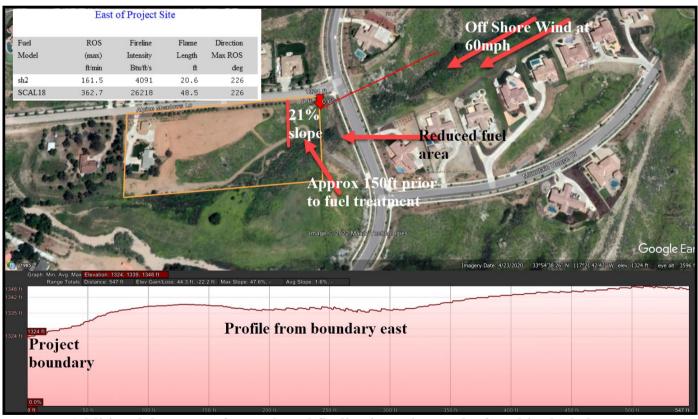
		Peak Weather (offshore/Santa Ana
Variable	Summer Weather (Onshore Flow)	Condition)
1h Moisture	3%	2%
10h Moisture	5%	3%
100h Moisture	7%	5%
Live Herbaceous Moisture	50%	30%
Live Woody Moisture	60%	60%
20-foot Wind Speed (upslope/downslope)	15, 30, mph	65mph gusts
Wind Adjustment Factor	0.5	0.5
Slope Steepness	varies	varies

The following table depicts a fire burning with <u>no-wind</u> up slope within in the sourounding topographic area. Base line results (NON-TREATED) east facing slopes near project boundary east and south side.

CITY OF RIVERSIDE FIRE DEPT. East of Project Site No Wind

This is to certify that plans have been approved by the Fire Official and no change or deviation therefrom shall be permitted. However, this approval does not authorize violation or cancellation of any law of the tity nor does it prevent requiring correction of any error on the ROS Fireline Flame Direction plans. This is not an approval of any work requiring a separate permit under the laws of the city. Max ROS Intensity Length Engineer Eric Wertman Date 01/24/24 ft/min Btu/ft/s ft deg 2.7 sh2 2.0 50 270 SCAL18 6.5 469 7.6 270

Scenario 1 Typical off shore wind event modeled as Sh2 Moderate load, dry climate shrub and SCAL 18 Sage / Buckwheat. The fuel bed lacks continuity flame lengths are probably over predicted. The future view will most likely look the same unless environmental factors change.



Additional data rate of spread, and fireline intensity can be found in the behave run next page.

Behave Results

This is to certify that plans have been approved by the Fire Official and no change or deviation therefrom shall be permitted. However, this approval does not authorize violation of cancellation of any law of the Input Workisheet prevent requiring correction of any error on the plans. This is not an approval of any work requiring a separate permit under the laws of the city.

BehavePlus 5.0.5 (Build 307)

East of Project Site

Engineer Eric Wertman	half Apples	Units Input Value(s)
• —		

Fuel/V	⁷ egetation,	Surface/	Understory	y

Fuel Moisture

1-h Moisture	% 2	2
10-h Moisture	% 3	3
100-h Moisture	% 5	5
Live Herbaceous Moisture	% 3	30
Live Woody Moisture	% 6	50
Woothou		

Weather

20-ft Wind Speed		mi/h	65
Wind Adjustm	ent Factor		.5
Wind Direction	n (from north)	deg	45
Terrain			

Slope Steepness	% 31
Aspect	deg 90

Notes

Run Option Notes

Maximum reliable effective wind speed limit IS imposed [SURFACE].

Calculations are only for the direction of maximum spread [SURFACE].

Fireline intensity, flame length, and spread distance are always for the direction of the spread calculations [SURFACE].

Wind and spread directions are degrees clockwise from north [SURFACE].

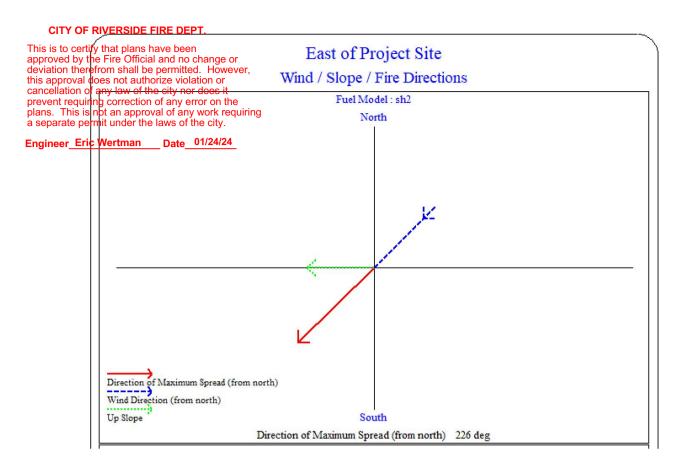
Wind direction is the direction from which the wind is blowing [SURFACE].

Results

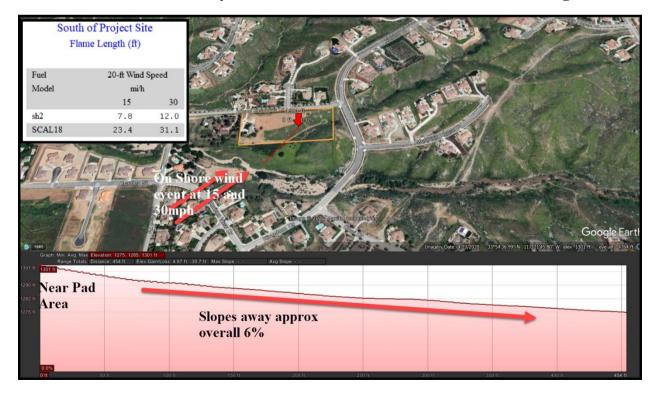
Fuel Model				Direction Max ROS
	ft/min	Btu/ft/s	ft	deg
sh2	161.5	4091	20.6	226
SCAL18	362.7	26218	48.5	226

End

Spread Diagram follows.



Scenario 2 On shore wind event modeled as Sh2 Moderate load, dry climate shrub and SCAL 18 Sage / Buckwheat. The fuel bed lacks continuity flame lengths are probably over predicted. The future view will most likely look the same unless environmental factors change.



a separate permit under the laws of the cit

This is to Bein a vie Resultsen

approved by the Fire Official and no change or deviation therefrom shall be permitted. However, this approval does not authorize violation or cancellation of any law of the city nor does it prevent requiring correction of any error on the plans. This is not an approval of any work requiring

BehavePlus 5.0.5 (Build 307)

South of Project Site

Engineer Eric Wertman

Input Worksheet Inputer SUDEACE

Inputs: SURFACE						
Input Variables	Units	Input Value(s)				
Fuel/Vegetation, Surface/Understory	Fuel/Vegetation, Surface/Understory					
Fuel Model		sh2, SCAL18				
Fuel Moisture						
1-h Moisture	%	3				
10-h Moisture	%	5				
100-h Moisture	%	7				
Live Herbaceous Moisture	%	50				
Live Woody Moisture	%	60				
Weather						
20-ft Wind Speed	mi/h	15,30				
Wind Adjustment Factor		0.5				
Wind Direction (from north)	deg	225				
Terrain						
Slope Steepness	%	6				

deg 180

Notes

Aspect

Run Option Notes

Maximum reliable effective wind speed limit IS imposed [SURFACE].

Calculations are only for the direction of maximum spread [SURFACE].

Fireline intensity, flame length, and spread distance are always for the direction of the spread calculations [SURFACE].

Wind and spread directions are degrees clockwise from north [SURFACE].

Wind direction is the direction from which the wind is blowing [SURFACE].

Results for: Surface Rate of Spread (maximum) (ft/min)

Fuel	20-ft Wind Speed		
Model	mi/h		
	15	30	
sh2	20.7	52.6	
SCAL18	79.8	149.0	

Results for: Fireline Intensity (Btu/ft/s)

Fuel	20-ft Wind Speed
Model	mi/h

This is to certify that plans ha		15	30
approved by the Fire Official deviation therefrom shall be p	oern sht €d. ⊦	low te0∕0 r,	1269
this approval does not author cancellation of any law of the	Sig Adr 186	es #360	10008
prevent requiring correction of			

plans. This is not an approvance anywork in the light a separate permit under the laws of the city.

Engineer Eric Wertman

Date eD1/24/24 It Wind Speed			
Model	mi/h		
	15	30	
sh2	7.8	12.0	
SCAL18	23.4	31.1	

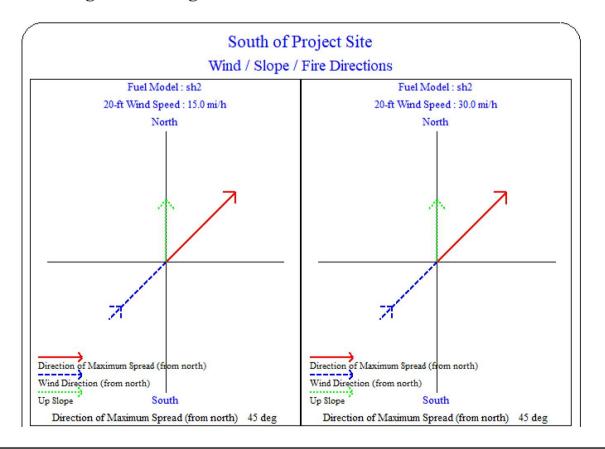
Results for: Direction of Maximum Spread (from north) (deg)

Fuel	20-ft Wind Speed		
Model	mi/h		
	15	30	
sh2	45	45	
SCAL18	45	45	

End

Spread Diagram

3.0 Assessing Structure Ignitions in the Wildland/Urban Interface



This is to Structure pignitions from wildland wildfires basically come from three sources of heat: convective approver by the Fire Official and no change of direct flame impingement, and radiant heat. The Behave Plus Fire this appropriate the program does not address wind blown embers or firebrands from a structure cancellation of any law of the city for does it prevent tentility no postspectally error downever, even though ignition resistant exterior building materials will be plans. This is not an approval of any work requiring a separate permittent the axion structure of the plans. This is not an approval of any work requiring a separate permittent the axion structure of the plans. The service of the plans o

3.1 Firebrands

Firebrands are pieces of burning materials that detach from a burning fuel due to the strong convection drafts in the flaming zone. Firebrands may also be referred to as embers. Firebrands can be carried a long distance (one mile or more) by fire drafts and strong winds. Severe wildland/urban interface fires can produce heavy showers of firebrands. The chance of these firebrands igniting a structure will depend on the number and size of the firebrands, how long they burn after contact and the type of building materials, building design, and construction features incorporated into the structure. Firebrands landing on combustible roofing and decks are common sources for structure ignition. They can also enter a structure through unscreened or poorly screened vents, chimneys, unprotected skylights, and windows.

Even with non-combustible roofing, firebrands landing on leaves, needles, and other combustibles located on a roof (due to a lack of maintenance) can cause structure ignition. Any open windows, doors, or other types of unscreened openings are sources for embers to enter a structure during a wildland fire. If these maintenance issues are addressed on a regular basis, firebrands should not be a concern.

3.2 Radiant Heat/Direct Flame Impingement

Radiation and convection involve the transfer of heat directly from the flame to any exposed surface. Unlike radiation heat transfer, convection requires that the flames or heat column contact the structure. An ignition from radiation (given an exposed flammable surface) heat transfer depends on two aspects of the flame: 1) the radiant heat flux to a combustible surface and, 2) the duration (length of time) of the radiant flux. The radiant heat flux depends on the flame zone size, flame-structure distance, and how much the combustible material of the structure is exposed to the flame. While the flame from a wildfire may approach 1,800 degrees Fahrenheit, it is the duration of heat that is more critical. For example, a blow torch flame typically approaches 2,100 degrees Fahrenheit, yet a person can easily pass their hand through the flame. Heat duration only becomes critical to a home with a wood exterior surface if the heat is allowed to remain for 30-90 seconds.

Research scientist Jack Cohen of the United States Forest Service has found that a homes or structures characteristics (its exterior materials and design in relation to the immediate area around a home within 100 feet) principally determine the home's ignition potential. He calls the home and its immediate surroundings the 'home ignition zone'. In a study of ignition of wood wallboard, tests by a USDA Forest Service research team described in the Proceedings, 1st International Fire and Materials Conference showed that flame impingement for sufficient length of time (approximately 1 min.) ignites a typical hardboard siding material.

Fire agencies consider fuel treatment as a principal approach to wildland fire hazard reduction. Whenever the flame length is equal to or more than the separation of combustible vegetation from a combustible structure for 1-2 minutes in duration or more, there is a high probability of structure ignition. Contact with a fire's convection heat column also may cause ignition but the temperature of the column's gases is generally not hot enough or long enough in duration to sustain the ignition of the structure.

Comparing the expected wildland fire behavior projections for all boundary areas against the required fuel modification zones, and project design features outlined in Section 5.3.3, demonstrates substantial reductions in the expected flame length in treated fuels. By requiring the structures exposed to the threat of wildfire to

This is to corporate the following guidelines, those structures will be provided with the most effective treatment for approved in the Fine flows es from flange impingement and associated radiant heat intensities. deviation therefrom shall be permitted. However,

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Engineer Eric wertman The area surrounding structure contains an Irrigated Zone (defensible space) and a Thinning Zone (low fuel volume buffer strip) between the Irrigated Zone and the untreated fuels.

The property owner shall be required (see Section 5.0) to maintain the properties to Zone 1 / Zone 2 Fuel Modification standards and shall keep the roof and any rain gutters free of leaves, needles and other combustible debris.

All combustible materials must be properly stored away from each structure so that burning embers falling on or near the structure have no suitable host. By requiring the structures to be constructed of non-combustible roofing, ignition resistant building materials, and the implementation of required fuel modification will be the most effective treatment for minimizing structure losses due to the projected flame lengths and associated radiant heat intensities.

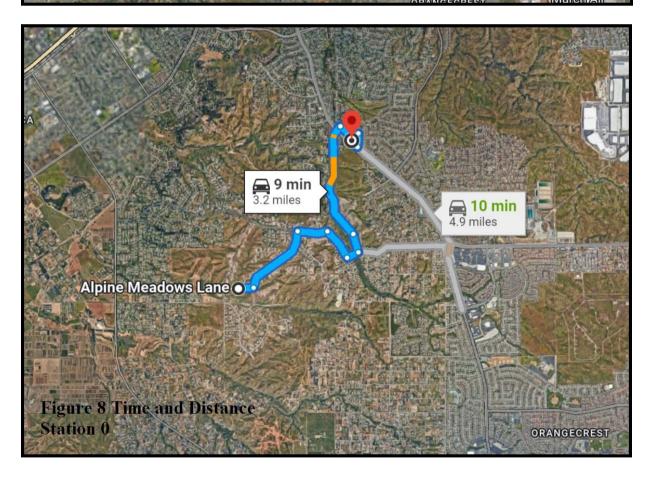
3.3 Fire Resistant Plant Palette

Wildland fire research has shown that some types of plants, including many natives, are more fire resistant than others. These low fuel volume, non-oily, non-resinous plants are commonly refered to as "fire resistant". This term comes with the proviso that each year these plants are pruned, all dead wood is removed and all grasses or other plant material are removed from beneath the circumference of their canopies. Some native species are not considered "undesirable" from a wildfire risk management perspective provided they are properly maintained year round. Refer to APPENDIX 'A' for a list of prohibited plant species and APPENDIX 'B' for Defensible Space Landscaping.

4.0 Fire Department Response Times

The project is within the Riverside City Fire Department's (RCFD) response area. The closest Fire apparatus is RCFD Riverside City Fire Station 4, from 1496 W Linden St (2.8 miles away). Would likely be the first engine to arrive on scene at to the structure.

CITY OF RIVERSIDE FIRE DEPT This is approve deviation this ap cancell prevent City of Riverside Fire Department plans. a sepa **Engine** MAGNOLIA CENTER RLANZA 15 min 8.2 miles 13 min 7.1 miles Edgemont Alpine Meadows Lane Figure 7 Time and Distance Station 10



This is to Additional agencies such as Riverside County and nearby cities would also likely respond with approved by the Fig. of the responding to the proof of the responding to the responding

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• This is why planned projects use "<u>defensible space</u>", 'Ignition Resistant' building features, and key fuel treatment strategies that enable residents to substantially increase their ability to survive a wildfire on their own and without the loss of any structure. The goal of this FPP, therefore, is to make the future residences and their owners as safe as possible and able to survive on their own until firefighting equipment arrives and/or the occupants can be safely evacuated.

5.0 VEGETATION MANAGEMENT ZONE DESCRIPTIONS & REQUIRED TREATMENTS

• Note: Landscaping elements will be coordinated with the Case Planner through "Landscape and Irrigation Design Review".

Zones 1 and 2 encompass various distances, along with project design features they will ensure no radiant heat will reach the structure. With the exception of Lot 4 where the distance is reduced to the south and 100ft to the east. To the west zones will tie into lot 1 existing. The slope and lack of fuel will offer some buffer from on shore wind related fire events.

Below are the descriptions and required treatments for the Fuel Modification Zones. All distances in this report are measured horizontally from the exterior of each structure. These distances are depicted on the enclosed **Fire Protection Plan Map**. Fuel treatment areas are a mix of irrigate areas and dry thinning areas.

The owner(s) will be responsible for maintaining their respective properties Fuel Modification Zone. In the event of repossession, the person/unit/agency holding title to the project will be responsible for the maintenance.

All highly flammable plant species identified in Appendix A shall be permanently removed from the Irrigated Zone 1 and Thinning Zone 2 due to their susceptibility to wildland fire.

5.1 Irrigated Zone 1 - Vegetation Management Zone 0/1 Irrigated - <u>HOMEOWNER</u> <u>MAINTAINED TOTAL OF 30 feet.</u>

Zone 0 Homeowner maintained Irrigated - An area starting at the structure envelope extending 5 feet outward. This zone includes the area under and around all attached decks, and requires the most stringent wildfire fuel reduction. This area shall be kept clear of combustibles, landscaping mulch, and any large shrubs and trees. It may have limited plants that are low growing, nonwoody, properly watered and maintained. Combustible fencing material shall not be attached to the structure to include vinyl products.

Defined

This is to regarded Zone has starting at 5ft from structure and extending an additional 25feet is commonly called the approved of the first extended and shall be free of all combustible construction and materials. It includes the entire deviation therefrom shall be permitted. However, this apparent accounted the structure (dront, back and side) and that are located within the parcel. It is measured from cancellating of any error on the prevent requiring correction of any error on the plans. Tracessory structure, any an laccossory structure within 10 feet of a structure. It provides the best protection a separate permitting any analogous produced by wildfire. It also provides a generally open area in which fire Enginess of the laws of the city and wildfire events. This zone includes a level or level-graded area around each structure, primarily used for parking.

Required Landscaping Conditions of Approval

- Plants in this zone shall be fire resistant and shall not include any pyrophytes that are high in oils and resins such as pines, eucalyptus, cedar, cypress or juniper species. Thick, succulent or leathery leaf species with high moisture content are the most 'fire resistant'. Refer to APPENDIX 'B' for an example of accetable plants..
- Zone 1 shall be cleared of all fire prone and prohibited plant species (see APPENDIX 'A').
- Landscape designs using hardscape features such as driveways, swimming pools, concrete, rock, pavers, and similar non-combustible features to break up fuel continuity within Zone 1 are encouraged.
- All Landscaping will be fire resistive. Landscaping elements will be coordinated with the Case Planner through Landscape and Irrigation Design Review.

Required Maintenance

- Maintenance shall be year round by the owner as required by this FPP or the RCFD.
- Remove and replace any dead or dying plant material monthly.
- Native annual and perennial grasses will be allowed to grow and produce seed during the winter and spring. As grasses begin to cure (dry out), they shall be cut to four inches or less in height.
- Trees shall be maintained to a minimum of six feet of vertical separation from low growing, irrigated vegetation beneath the canopy of each tree.

All trees must be maintained to the current ANSI A300 standards [Tree, Shrub, and Other Woody Plant Maintenance —Standard Best Practices ANSI A300 standards are the generally accepted industry standards for tree care practices. They are voluntary industry consensus standards developed by TCIA (Pruning)]

5.2 Vegetation Management Non Irrigated – MAINTAINED by OWNER Defined

<u>THINNING ZONE</u> is an area following Zone 1 and extends outward various distances. The area following Zone 1 may include single or small clusters of trimmed fire resistance native plants up to 36 inches in height where 50% of the vegetation is removed to create a mosaic. Selected native plant

This is to further must be separated by at least 1 1/2 times the mature height of the retained plants. The ground approved by the first of the separated whipped and maintained to 4" or less in stubble height. deviation therefrom stall be permitted. However, this approved take truling advantage of rock outroppings and bare soil.

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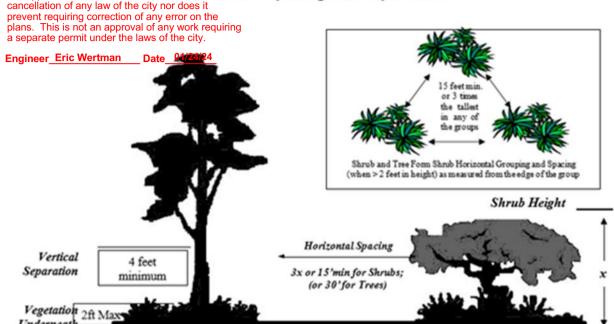
 a separate permit under the laws of the city.

 a separate permit under the laws of the city.
 - Shrubs shall be kept trimmed to ensure spacing is maintianed.
 - Grasses shall be maintained weed whipped to 4 inches.
 - The area shall be maintained free of invasive plants and any volunteer native shrubs.
 - All plantings should be installed with at maturity growth in mind.

The image below provides a best practice spacing guide for construction and long-term maintenance.

Figure 9 Plant Spacing.

This is to certify that plans have been approved by the Fire Office the free free for Planting Installation in Fuel Modification deviation therefrom shall be permitted. However, this approval does not authorize violation or Spacing and Separation



Horizontal Spacing

Vegetation Less than 2 Feet in height:

Underneath

 No horizontal spacing or vertical separation is required. Ground cover shall not exceed 2 feet in height, In Zone 1, ground cover may cover the entire ground between groups of shrubs, trees, or grasses and grasses are not considered ground cover. Grasses are acceptable within Zone 1 irrigated, all non-irrigated grasses will be maintained weed whipped or mowed to 4 in.

Shrubs and Trees 2 Feet in Height or Greater:

Shrub and Tree Group Size:

 All Shrubs and Trees can be in groups of 3 specimens or less. No horizontal spacing is required inside the group.

Shrub / Tree-form Shrub Group Spacing:

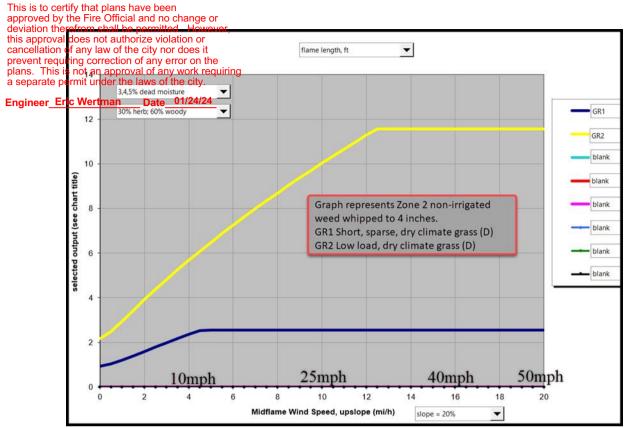
- Groups of shrubs shall be spaced by the greater of the following two measurements: A. distance of 15 feet minimum (or) 3 times the height of the tallest specimen in any of the
- No vegetation over 2 feet in height is allowed within 15 feet from the edge of tree canopy(s).

Tree Group Spacing:

. Groups of Trees shall be spaced by a distance of 20 feet minimum regardless of height. In Zone full growth tree branches are not allowed within 10 feet of enclosed combustible structures.

Vertical Separation

- Shrubs and Trees Less than 10 Feet in Height: When the fuel modification zone is within 30 feet of the structure, a vertical separation of 2ft is required from the vegetation below. (Not required if shrubs are further than 30 feet from structure).
- · Shrubs and Trees 10 Feet in Height or Greater:
- A vertical separation of 4 feet minimum is required to be maintained from the vegetation
- Trees only: All vegetation located underneath trees, shall be a maximum of 2 feet in



The following graph represents Zone 2 Non Irrigated Flame Lengths.

5.3 Construction Standards

All lots within the project shall be considered to be within a Very High Fire Hazard Severity Zone (VHFHSZ) and shall be designed and built-in accordance with Chapter 7A (Materials and Construction Methods for Exterior Wildfire Exposure) of the 2022 California Building Code. To include local code amendments. For a description of the current construction requirements as of the date of this report see APPENDIX 'D'.

• All construction and ignition resistant requirements shall meet the 2022 version of the California Fire Code, including amendments, and related Ordinances. The fire protection features described herein shall be maintained to their equivalent or greater ignition resistance in perpetuity.

Construction or building permits shall not be issued until the fire code official inspects and approves required fire apparatus access and water supply for the construction site.

5.3.1 Conditions to Be Met

Prior to the delivery of combustible building construction materials to the project site the following conditions shall be completed to the satisifaction of the RCFD:

 Water and power utilities shall be installed and approved by the appropriate inspecting department or agency.

This is to certify the page lashable be cleared of all vegetation prior to construction and subsequently planted to approved by the Fire Official and no change of edition therefrom that of permitted is swarfed in Section 6.1 after construction is completed.

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plans. This is not an approval of any work requiring a separate pendice quality at the limit of safety in regard to radiant heat.

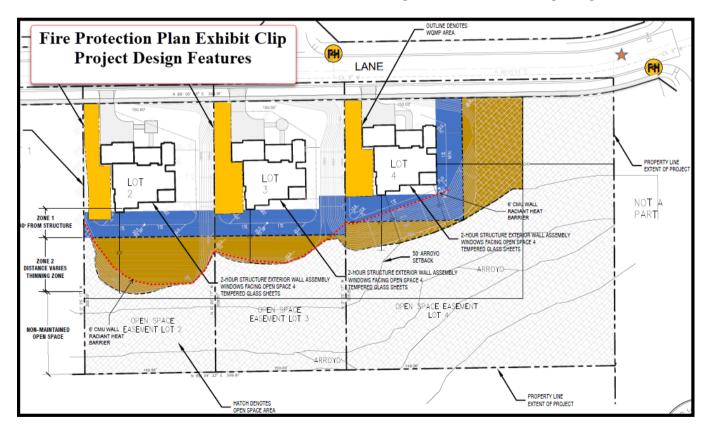
Engineer Eric Wertman Date 01/24/24

An automatic fire sprinkler system is required by City Ordinance 16.32.080. Under separate cover, submit plans for the automatic fire sprinkler system(s) and obtain approval from the Fire Department prior to installation.

5.3.3 Application for Alternate Materials and Methods. (AMMR) and Proposed project design features and mandatory requirement.

The following project design features are formally captured in the AM&M Application Appendix G.

- 1) 6-ft tall masonry wall as designated on the attached exhibit along the southern to eastern PL to protect the structures from convected/radiant heat and blowing ground embers. As an alternate design the wall provided may be CMU and Tempered Glass to allow for a view.
- 2) A 2-hour exterior rated wall assembly for those surfaces facing the reduced Fuel Modification Area, to include window assemblies designed with 2 sheets of tempered glass.



This is to Other tructure

approve by the Fire Official and na charges cussion of water supply and access roads/driveways and gates that are to this applyed with the development.

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plans. This is not an approval of any work requiring a separate permit under the laws of he city.

Engineer Eric Wertwater supply will be provided by Riverside Public Utilities. An approved permanent water supply capable of supplying the required fire flow will be designed and installed prior to beginning construction.

Water supplies for fire protection and hydrants shall be in accordance with the 2022 California Fire Code as amended by the City of Riverside.

Hydrant installation shall conform to City of Riverside INFORMATION BULLETIN: D-19-005 and the 2019 NFPA 14, Fire hydrants shall be tested, accepted and placed in service prior to the delivery of any combustible materials to the project site.

6.2 Access Roads/Driveways and Gates

Driveways and access roads within the development shall be termed 'Fire Access Roads' within this document. All fire access roads shall meet the requirements of the Riverside City Fire Department, and shall be all weather surface capable of supporting loads of 80,000 lbs gross vehicle weight.

Access to all exterior portions of each structure must be within 150 feet of the available fire department access. The required turning radius of a fire apparatus access road shall be in accordance with Information Bulletin B-19-001, 28 feet inside radius and 48 feet outside radius. in accordance with Information Bulletin B-19-001 unless otherwise approved by the fire code official. Fire lanes shall be marked in accordance with the guidelines in Information Bulletin B-19-003.

Any gates to be installed shall meet RCFD Standards and shall be approved by the RCFD prior to fabrication and installation. A Knox override key switch or similar device must be installed outside the gate in an approved, readily visible, and unobstructed location at or near the gate to provide emergency access. Gates accessing major roadways shall also be equipped with approved emergency traffic control-activating strobe light sensor(s), or other devices approved by the Fire Chief, which will activate the gate on the approach of emergency apparatus with a battery back-up or manual mechanical disconnect in case of power failure. All gates shall always be equipped to allow for automatic egress.

7.0 Owner, Occupant Education

The owner should prepare, this link will provide usefule informaion to plan ahead for an emergency;

https://riversideca.gov/readyriverside/sites/riversideca.gov.readyriverside/files/pdf/Disaster-Ready-Guide-Digital-SelfPrint-Eng.pdf

In the event of a wildland fire, you should always relocate to a safe area well beyond the path of the threatening wildland fire. If relocation is not possible and egress is cut-off by the fire, they should seek shelter within thier structure until the wildland fire passes through their area. The ignition resistant buildings will have a 'defensible space' area around each structure for firefighters

This is to emake their stand in the protection of each structure. In the event firefighting forces are not approved by the Fire Official and refreample fee in sible space will substantially increase the probability of 'structure deviation referrom shall be permitted. However, this approved of any law of the city nor does it

prevent requiring correction of any error on the

plans. This is not an approval of any work requiring a separate point in the relationship of the relations and windows are closed to prevent embers from entering their structure. Doors should be unlocked to allow emergency personnel unimpeded access. Both inside and outside lights should be placed on to allow emergency personnel to know that a structure is present when smoke or darkness may otherwise obscure visibility. In addition, combustible materials shall not be stored within 10 feet of any structure.

The owner shall be aware of the herein described fire protection measures by reviewing this FPP of the types of non-combustible construction and plant materials that are allowed within the the designated fuel treatment zones. A copy of this plan shall be provided to a future owner during escrow procedures. Of particular importance are APPENDICES 'A', 'B', 'D' anf 'E' of this plan which provide guidance in the types of plants that allowed to be established in landscaped areas and appropriate construction materials within fuel modification zones. Plant selection is critical as embers often travel over a mile during Santa Ana wind events.

Where this FPP requires specific construction features, these features shall not be changed without the approval of the RFD.

8.0 Fire Protection Plan Map

Attached in a separate file is the Fire Protection Plan Map depicting the location of all proposed fuel treatment locations as well as fire access roads, and development bundaries.

APPENDICES

Undesirable Plant Species	APPENDIX 'A'
Acceptable Plant List	APPENDIX 'B'
Literature Referenced	APPENDIX 'C'
Non-combustible & Fire-Resistant Building Materials	APPENDIX 'D'
Ignition Resistant Construction Requirements	APPENDIX 'E'
Fire Protection Plan Exhibit	APPENDIX 'F'
Approved AM&M Request	APPENDIX 'G'

This is to certify that plans have been approved by the Fire Official and no change or deviation therefrom shall be permitted. However, this approval does not authorize violation or cancellation of any law of the city nor does it prevent requiring correction of any error on the plans. This is not an approval of any work requiring a separate permit under the laws of the city.

Engineer_Eric Wertman Date 01/24/24

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APPENDIX 'A'

Engineer_Eric Wertman Date 01/24/24

Prohibited Plant List

APPENDIX 'A'

This is to certify that plans have been approved by the Fire Official and no change or deviation therefrom shall be permitted. However, this approval does not authorize violation or

cancellation of any law of the city nor describe the city nor described (& Fire Prone) Plant Species List prevent requiring correction of any error of the library was required as separate permit under the law earth of any was required as separate permit under the law earth of any was required as separate permit under the law earth of any was required to a separate permit under the law earth of a separate permit under the law earth of any was required to a separate permit under the law earth of a separate permit u

Engineer Eric Wertman Date 01/24/24

Wertman	Botanical Name	Common Name	Plant Form
1			
1.	Acacia species •	Acacia	Shrub/Tree
2.	Adenostema fasciculatum	Chamise	Shrub
3.	Adenostema sparsifolium	Red Shank	Shrub/Tree
4.	Artemisia californica	California Sagebrush	Shrub
5.	Anthemis cotula	Mayweed	Weed
6.	Arundo donax	Giant reed	Grass/weed
7.	Brassica nigra	Black Mustard	Weed
8.	Brassica ropa	Yellow Mustard	Weed
9.	Cedrus species	Cedar	Tree
10.	Cirsim vulgare	Wild Artichoke	Weed
11.	Conyza canadensis	Horseweed	Weed
12.	Cortaderia selloana	Pampas Grass	Tall Grass
13.	Cupressus species	Cypress	Tree
14.	Eriogonum fasciculatum	Common Buckwheat	Shrub
15.	Eucalyptus species	Eucalyptus	Shrub/Tree
16.	Heterotheca grandiflora	Telegraph plant	Weed/shrub
17.	Juniperus species	Junipers	Succulent
18.	Lactuca serriola	Prickly lettuce	Weed
19.	Nicotiana bigelevil	Indian tobacco	Shrub
20.	Nicotiana glauca	Tree tobacco	Shrub
21.	Pennisetum species	Fountain Grass	Ground cover
22.	Pinus species	Pines	Tree
23.	Rosmarinus species	Rosemary	Shrub
24.	Salvia species • •	Sage	Shrub
25.	Silybum marianum	Milk thistle	Weed
26.	Urtica urens	Burning nettle	Weed
			•

• Except:

Acacia redolens desert carpet (Desert Carpet ground cover)

• • Except:

Salvia columbariae (chia)

Salvia sonomensis (Creeping Sage)

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Engineer_Eric Wertman Date 01/24/24

TABLE 6-2 PLANTS THAT SHOULD BE AVOIDED ADJACENT TO THE MSHCP CONSERVATION AREA

BOTANICAL NAME	COMMON NAME
Acacia spp. (all species)	acacia
Achillea millefolium	var. millefolium common yarrow
Ailanthus altissima	tree of heaven
Aptenia cordifolia	red apple
Arctotheca calendula	cape weed
Arctotis spp. (all species & hybrids)	African daisy
Arundo donax	giant reed or arundo grass
Asphodelus fistulosus	asphodel
Atriplex glauca	white saltbush
Atriplex semibaccata	Australian saltbush
Carex spp. (all species*)	sedge
Carpobrotus chilensis	ice plant
Carpobrotus edulis	sea fig
Centranthus ruber	red valerian
Chrysanthemum coronarium	annual chrysanthemum
Cistus ladanifer	(incl. hybrids/varieties) gum rockrose
Cortaderia jubata [syn.C. Atacamensis]	jubata grass, pampas grass
Cortaderia dioica [syn. C. sellowana]	pampas grass
Cotoneaster spp. (all species)	cotoneaster
Cynodon dactylon	(incl. hybrids varieties) Bermuda grass
Cyperus spp. (all species*)	nutsedge, umbrella plant
Cytisus spp. (all species)	broom

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This is to certify that plans hav approved by the Fire Official at	e Del osperma 'Alba' nd no change or	white trailing ice plant
this approval does not authorize cancellation of any law of the	ity nor does it	African daisy, Cape marigold
prevent requiring correction of plans. This is not an approval	a Drever on the enum floribundum of any work requiring ws of the city. Drosanthemum hispidum	rosea ice plant
a separate permit under the lave Engineer Eric Wertman	ws of the city. Drosanthemum hispidum Date 01/24/24	purple ice plant
	Eichhornia crassipes	water hyacinth
	Elaegnus angustifolia	Russian olive
	Eucalyptus spp. (all species)	eucalyptus or gum tree
	Eupatorium coelestinum [syn. Ageratina sp.]	mist flower
	Festuca arundinacea	tall fescue
	Festuca rubra	creeping red fescue
	Foeniculum vulgare	sweet fennel
	Fraxinus uhdei	(and cultivars) evergreen ash, shamel ash
	Gaura (spp.) (all species)	gaura
	Gazania spp. (all species & hybrids)	gazania
	Genista spp. (all species)	broom
	Hedera canariensis	Algerian ivy
	Hedera helix	English ivy
	Hypericum spp. (all species)	St. John's Wort
	Ipomoea acuminata	Mexican morning glory
	Lampranthus spectabilis	trailing ice plant
	Lantana camara	common garden lantana
	Lantana montevidensis [syn. L. sellowiana]	lantana
	Limonium perezii	sea lavender
	Linaria bipartita	toadflax
	Lolium multiflorum	Italian ryegrass
	Lolium perenne	perennial ryegrass
	Lonicera japonica	(incl. 'Halliana') Japanese honeysuckle
	Lotus corniculatus	birdsfoot trefoil
	Lupinus arboreus	yellow bush lupine
	Lupinus texanus	Texas blue bonnets

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deviation therefrom shall be per this approval does not authorize cancellation of any law of the	elverlephora crocea nd no change or emitted. However, addition of the site of	ice plant			
prevent requiring correction of	ฟฟียรัยที่ให้ข้าanthemum nodiflorum	little ice plant			
a separate permit under the late separate permit under the lat	of any work requiring was of the city. Myoporum laetum Date: 01/24/24	myoporum			
	Myoporum pacificum	shiny myoproum			
	Myoporum parvifolium	(incl. 'Prostratum') ground cover myoporum			
	Oenothera berlandieri	Mexican evening primrose			
	Olea europea	European olive tree			
	Opuntia ficus-indica	Indian fig			
	Osteospermum spp. (all species)	trailing African daisy, African daisy,			
	Oxalis pes-caprae	Bermuda buttercup			
	Parkinsonia aculeata	Mexican palo verde			
	Pennisetum clandestinum	Kikuyu grass			
	Pennisetum setaceum	fountain grass			
	Phoenix canariensis	Canary Island date palm			
	Phoenix dactylifera	date palm			
	Plumbago auriculata	cape plumbago			
	Polygonum spp. (all species)	knotweed			
	Populus nigra 'italica	' Lombardy poplar			
	Prosopis spp. (all species*)	mesquite			
	Ricinus communis	castorbean			
	Robinia pseudoacacia	black locust			
	Rubus procerus	Himalayan blackberry			
	Sapium sebiferum	Chinese tallow tree			
	Saponaria officinalis	bouncing bet, soapwart			
	Schinus molle	Peruvian pepper tree, California pepper			
	Schinus terebinthifolius	Brazilian pepper tree			
	Spartium junceum	Spanish broom			
	Tamarix spp. (all species)	tamarisk, salt cedar			
	Trifolium tragiferum	strawberry clover			
	Tropaelolum majus	garden nasturtium			

This is to certify that plans have been europaeus approved by the Fire Official and no change or	
deviation therefrom shall be permitted. However, this approval does not authorize vidibility that the permitted of the permit	periwinkle
cancellation of any law of the city nor does it prevent requiring correction of any processing plans. This is not an approval of any work requiring S S	Spanish dagger

Engineer Eric Wertman

a separate permit under the laws of the city. An asterisk (*) indicates some native species of the genera exist that may Dete 01/24/24 De appropriate.

> **Sources:** California Exotic Pest Plant Council, United States Department of Agriculture-Division of Plant Health and Pest Prevention Services, California Native Plant Society,

Fremontia Vol. 26 No. 4, October 1998, The Jepson Manual; Higher Plants of California,

and County of San Diego-Department of Agriculture.

This is to certify that plans have been approved by the Fire Official and no change or deviation therefrom shall be permitted. However, this approval does not authorize violation or cancellation of any law of the city nor does it prevent requiring correction of any error on the plans. This is not an approval of any work requiring a separate permit under the laws of the city.

APPENDIX 'B'

Engineer Eric Wertman Date 01/24/24

Defensible Space Landscaping

Defensible Space Landscaping - Plant Pallet for Fuel Modification in Riverside, approved by the Fire Official and no change or deviation therefrom shall be permitted. However,

this approval does not authorize violation or

cancellation of any law of the city nor does it

plans. This is not an approval of any work requiring nical Name	Common Name	Plant Form
a separate permit under the laws of the city differa	Glossy Abelia	Shrub
Engineer Eric Wertman Asaciaoneda/eans desert carpet	Desert Carpet	Shrub
Acer macrophyllum	Big Leaf Maple	Tree

3.		Acer macrophyllum	Big Leaf Maple	Tree
4.	X	Achillea millefolium	Common Yarrow	Low shrub
5.	W	Achillea tomentosa	Wolly Yarrow	Low shrub
6.	X	Aeonium decorum	Aeonium	Ground cover
7.	X	Aeonium simsii	Aeonium	Ground cover
8.	W	Agaave attenuata	Century Plant	Succulent
9.	W	Agave shawii	Shaw's Century Plant	Succulent
10.	N	Agave victoriae-reginae	Agave	Ground cover
11.	X	Ajuga reptans	Carpet Bugle	Ground cover
12.	W	Alnus cordata	Italian Alder	Tree
13.	_	Alnus rhombifolia	White Alder	Tree
14.	N	Aloe aborescens	Torch Aloe	Shrub
15.	N	Aloe aristata	Dwarf Aloe	Ground cover
16.	N	Aloe brevifolia	Aloe	Ground cover
17.	W	Aloe Vera	Medicinal Aloe	Succulent
18.	W	Alyogyne huegelii	Blue Hibiscus	Shrub
19.	_	Ambrosia chamissonis	Beach Bur-Sage	Perennial
20.	_	Amoroha fruticosa	Western False Indigobush	Shrub
21.	W	Anigozanthus flavidus	Kangaroo Paw	Perennial Accent
22.		Antirrhinum nuttalianum ssp. Nuttatianum	Beard Tongue	Subshrub
23.	X	Aptenia cordifolia x 'Red Apple'	Red Apple Aptenia	Ground cover
24.	W	Arbutus unedo	Strawberry Tree	Tree
25.	W	Arctostaphylos 'Pacific Mist'	Pacific Mist Manzanita	Ground cover
26.	W	Arctostaphyis edmundsil	Little Sur Manzanita	Ground cover
27.		Arctostaphylos glandulosa	Eastwood Manzanita	Shrub

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Arctostaphylos hookeri 'Monterey Carpet

Arctostaphylos pungens

Arctostaphylos uva-ursi

Artemisia pycnocephaia

Atemisia caucasia

Atriplex canescens

Baccharis emoryi

Arctostaphylos refugioensis

Arctostaphylos x 'Greensphere'

Atriplex lentiformis ssp. Breweri

Baccharis pilularis ssp. Consanguinea

Page 1 of 7 Revised December 13, 2016

28.

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W

N

N

W

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N

N

X

2016 Plant Pallet for Defensible Space Guideline

Monterey Carpet Manzanita

Refugio Manzanita

Greensphere Manzanita

Caucasian Artemisia

Four-Wing Saltbush

Beach Sagewort

Brewer Saltbush

Emory Baccharis

Chaparral Bloom

Heather

Bearberry

Low shrub

Ground cover

Ground cover

Perennial

Shrub

Shrub

Shrub

Shrub

Shrub

Shrub

Shrub

pr pla

En

This is to corner far said fra Space Landscaping - Plant Pallet for Fuel Modification in Riverside,

approved by the Fire Official and no change or deviation therefrom shall be permitted. However, *Orange and San Diego Counties*

his approv	al does	not autho	ize violation or city nor does it Botanical Name of particularis var. pilularis 'Twin Peaks #2' albaethaviorkalicifichis Baileya Multiradiata Botanca Multiradiata	Common Name	Plant Form
revent red	uling co	orrection (Baychansonilmlaris var. pilularis 'Twin Peaks #2'	Twin Peaks	Ground cover
lans. Thi	s is not a	n approv	al Rof erlyaviorkalecufulno	Mulefat	Shrub
separate	permit t	nder the	Baileya Multiradiata	Desert Marigold	Ground cover
ngineer_	Edic We	rtman	Bate <u>ic M164/24c</u> urvata	Bottle Palm	Shrub/Small tree
	43.	N	Bougainvillea spectabilis	Bougainvillea	Shrub
	44.	N	Brahea armata	Mexican Blue Palm, Blue Hesper Palm	Palm
	45.	N	Brahea brandegeei	San Jose Hesper Palm	Palm
	46.	N	Brahea edulis	Guadalupe Palm	Palm
	47.	_	Brickellia californica	Hoary Nettle	Subshrub
	48.	W	Bromus carinatus	California Brome	Grass
	49.	-	Camissionia cheiranthifolia	Beach Evening Primrose	Perennial subshrub
	50.	N	Carissa macracarpa	Green Carpet Natal Plum	Ground cover/shrub
	51.	X	Carpibrotus chilensis	Sea Fig Ice Plant	Ground cover
	52.	W	Ceanothus gloriosus 'Point Reyes'	Point Reyes Ceanothus	Shrub
	53.	W	Ceanothus griseus 'Louise Edmunds'	Louis Edmunds Ceanothus	Shrub
	54.	W	Ceanothus griseus horizontalis	Yankee Point	Ground cover
	55.	W	Ceanothus griseus var. horizontalis	Carmel Creeper Ceanothus	Shrub
	56.	_	Ceanothus megacarpus	Big Pod Ceanothus	Shrub
	57.	W	Ceanothus prostrastus	Squaw Carpet Ceanothus	Shrub
	58.	_	Ceanothus spinosus	Green Bark Ceanothus	Shrub
	59.	W	Ceanothus verrucosus	Wart-Stem Ceanothus	Shrub
	60.	W	Cerastium tomentosum	Snow-in-summer	Ground cover/shrub
	61.	W	Ceratonia siliqua	Carob	Tree
	62.	W	Cercis occidentalis	Western redbud	Tree/Shrub
	63.	X	Chrysanthemum leucanthemum	Oxeye Daisy	Groundcover
	64.	W	Cistus hybridus	White Rockrose	Shrub
	65.	W	Cistus incanus	Mauve Rockrose	Shrub
	66.	W	Cistus incanus salviafolius	Sageleaf Rockkrose	Shrub
	67.	W	Cistus purpureus	Orchid Rockrose	Shrub
	68.	W	Citrus species	Citrus	Tree
	69.	_	Clarkia bottae	Showy Fairwell to Spring	Annual
	70.	_	Cneoridium dumosum	Bushrue, Pt. Reyes Ceanothus	Shrub
	71.	_	Collinsia heterophylla	Chinese Houses	Annual
	72.	W	Comarostaphylis diversifolia	Summer Holly	Shrub
	73.	N	Convolvulus cneorum	Bush Morning Glory	Shrub
	74.	W	Coprosma kirkii	Creeping Coprosma	Ground cover/Shrub
	75.	W	Coprosma pumila	Prostrate Coprosma	Low Shrub
	76.		Coreopsis californica	California coreopsis	Annual

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Coreopsis

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Coreopsis lanceolata

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Page 2 of 7 Revised December 13, 2016 2016 Plant Pallet for Defensible Space Guideline

Ground cover

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approved by the Fire Official and no change or deviation therefrom shall be permitted. However, orange and San Diego Counties this approval does not authorize violation or ancellation of any low of the city nor does it prevent requiring correction of any low of the city and cover. Australian Fushia Ground cover					
this approv	al does	not autho	rize violation or Botanical Name	Common Name	Plant Form
prevent red	n of any	orrection	otty nor does it of Garren muchella	Australian Fushia	Ground cover
plans. Thi	s is not a	in approv	al Cobanyew dekr degruitingus	Grayleaf Cotoneaster	Shrub
a separate	permit u	nder the	Working congestus Likiang	Likiang Cotoneaster	Ground cover/Vine
Engineer_	Elik We	rtman	Satesuù a/ 24/24 a	Taylor's Parches	Ground cover
• • •	82.	X	Crassula ovata	Jade Tree	Shrub
	83.	X	Crassula tetragona	Jade Plant	Shrub
	84.	W	Croton californicus	California Croton	Ground cover
	85.	X	Delosperma 'alba'	White Trailing Ice Plant	Ground cover
	86.	_	Dendromecon rigida	Bush Poppy	Shrub
	87.	_	Dichelostemma capitatum	Blue Dicks	Herb
	88.	N	Distictis buccinatoria	Blood-Red Trumpet Vine	Vine/Climbing vine
	89.	N	Dodonaea viscosa	Hopseed Bush	Shrub
	90.	X	Drosanthemum floribundum	Rosea Ice Plant	Ground cover
	91.	X	Drosanthemum hispidum	Ice Plant, Showy Dewflower	Ground cover
	92.	_	Dudleya lanceolat	Lance Leaved Dudleya	Succulent
	93.	_	Dudleya pulverulenta	Chalk Dudleya	Succulent
	94.	W	Elaeagnus pungens	Silverberry	Shrub
	95.	_	Encelia californica	California Encelia	Small shrub
	96.	Λ	Epilobium canum (Zauschneria californica)	Hoary California Fushia	Shrub
	97.	_	Eriastrum sapphirinum	Mojave Wolly Star	Annual
	98.	N	Eriobotrya japonica	Loquat	Tree
	99.	_	Eriodictycon crassifolium	Thick-Leaf Yerba Santa	Shrub
	100.	_	Eriodictycon trichocalyx	Mojave Wooly Star	Annual
	101.	w	Eriophyllum confertiflorum	Golden Yarrow	Shrub
	102.	W	Erythrina species	Coral Tree	Tree
	103.	w	Eschscholzia californica	California Poppy	Flower
	104.	X	Eschscholzia mexicana	Mexican Poppy	Herb
	105.	N	Euonymus fortunei	Winter Creeper Euonymus	Ground cover
	106.	N	Fiejoa sellowiana	Pineapple Guava	Shrub/Tree
	107.	N	Fragaria chiloensis	Wild Strawberry/ Sand	Ground cover
				Strawberry	
	108.	_	Frankenia salina	Alkali Heath	Ground cover
	109.	W	Fremontodendron californicum	California Flannelbush	Shrub
	110.	X	Gaillardiaa x grandiflora	Blanketflower	Ground cover
	111.	W	Galvezia speciosa	Bush Snapdragon	Shrub
	112.	W	Garrya ellipta	Silktassel	Shrub
				A 4 1 A 1 A 1	<u> </u>

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South African Daisy

Trailing Gazania

Globe Gilia

Showy Gilia

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Gazania hybrids

Gilia capitata

Gilia lepthantha

Gazania rigens leucolaena

** = Not native plant species but can be used in all fuel modification zones.

Page 3 of 7 Revised December 13, 2016

113.

114.

115.

2016 Plant Pallet for Defensible Space Guideline

Ground cover

Ground cover

Perennial

Perennial

This is to certify fear sible Space Landscaping - Plant Pallet for Fuel Modification in Riverside,

approved by the Fire Official and no change or Orange and San Diego Counties deviation therefrom shall be permitted. However. this

this appro	val does	not autho	rize violation or Botanical Name	Common Name	Plant Form
prevent re	entiting c	orrection	of any emorate	Bird's Eyes	Perennial
plans. Th	is list not a	an approv	a Coffany work requiring	Maidenhair Tree	Tree
			awsaphianum californicum	California Everlasting	Annual
Engineer	El·ld We	rtman	Genevia04/24/24ntalis	Starflower	Shrub
	121.		Grindelia stricta	Gum Plant	Ground cover
	122.	N	Hakea suaveolens	Sweet Hakea	Shrub
	123.	W	Harde bergia comptoniana	Lilac Vine	Shrub
	124.	N	Helianthemum mutabile	Sunrose	Ground cover/Shrub
	125.	_	Helianthemum scoparium	Rush Rose	Shrub
	126.		Heliotropium curassavicum	Salt Heliotrope	Ground cover
	127.	X	Helix canariensis	English Ivy	Ground cover
	128.	W	Hesperaloe parviflora	Red Yucca	Perennial
	129.		Heteromeles arbutifolia	Toyon	Shrub
	130.	X	Hypericum calcycinum	Aaron's Beard	Shrub
	131.	N	Iberis sempervirens	Edging Candytuft	Ground cover
	132.	N	Iberis umbellatum	Globe Candytuft	Ground cover
	133.	_	Isocoma menziesii	Coastal Goldenbush	Small shrub
	134.	_	Isomeris arborea	Bladderpod	Shrub
	135.	W	Iva hayesiana	Poverty Weed	Ground cover
	136.	N	Jublans californica	California Black Walnut	Tree
	137.		Juneus acutus	Spiny Rush	Perennial
	138.	_	Keckiella antirrhinoides	Yellow Bush Penstemon	Subshrub
	139.	_	Keckiella cordifolia	Heart Leaved Penstemon	Subshrub
	140.	-	Keckiella ternata	Blue Stemmed Bush Penstemon	Subshrub
	141.	W	Kniphofia uvaria	Red Hot Poker	Perennial
	142.	W	Lagerstroemia patersonii	Crape Myrtle	Tree
	143.	X	Lampranthus aurantiacus	Bush Ice Plant	Ground cover
	144.	X	Lampranthus filicaulis	Redondo Creeper	Ground cover
	145.	X	Lampranthus spectabilis	Trailing Ice Plant	Ground cover
	146.	W	Lantana camara cultivars	Yellow Sage	Shrub

Trailing Lantana

Dwark Goldfields

Australian Tea Tree

American Sweet Gum

French Lavendar

Texas Ranger

Texas Privet

Tulip Tree

Sea Lavender

Giant Wild Rye

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Lantana montevidensis

Leptospermum laevigatum

Leucophyllum frutescens

Lasthenia californica

Leymus condensatus

Ligustrum japonicum

Liquidambar styraciflua

Liriodendron tulipifera

Limonium perezii

Lavandula dentataq

** = Not native plant species but can be used in all fuel modification zones.

Page 4 of 7 Revised December 13, 2016

147.

148.

149.

150.

151.

152.

153.

154.

155.

W

W

W

N

2016 Plant Pallet for Defensible Space Guideline

Shrub

Shrub

Shrub

Shrub

Shrub

Shrub

Tree

Tree

Large grass

Annual

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This is to configuration in Riverside,

approved by the Fire Official and no change or deviation therefrom shall be permitted. However,

ueviation t	Heremoni	i Silali De	permitted. However,		
this appro	/al does	not autho	rize violation or Botanical Name sity nor does it of any cers language "Halliana"	Common Name	Plant Form
prevent re	auirina c	orrection	of any correction does to	Hall's Japanese Honeysuckle	Vining Shrub
plans. The	s is n ot a	an approv	allofrangrwonktrequining	Wild Honeysuckle	Vining Shrub
a separate	Pennit t	inder the	Lotus comiculatus	Bird's Foot Trefoil	Ground Cover
Engineer_	Elric We	rtman	Dates H2424/24nii	Woolly Lotus	Perennial
1	161.		Lotus Scoparius	Deerweed	Shrub
İ	162.	W	Lupinus arizonicus	Desert Lupine	Annual
İ	163.	W	Lupinus benthamil	Spider Lupine	Annual
İ	164.	_	Lupinus bicolor	Sky Lupine	Flowering annual
İ	165.	_	Lupinus sparsiflorus	Coulter's Lupine	Annual
İ	166.	W	Lyonothamnus floribundus ssp. Asplenfolius	Fernleaf Ironwood	Tree
İ	167.	W	Macademia Integrifolia	Macadamia Nut	Tree
İ	168.	W	Mahonia aquifolium 'Golden Abundance'	Golden Abundance, Oregon	Shrub
				Grape	
	169.	W	Mahonia nevinii	Nevin Mahonia	Shrub
	170.	_	Malacothamnus fasciculatus	Chaparral Marrow	Shrub
	171.	X	Makephora luteola	Trailing Ice Plant	Ground cover
	172.	W	Maytenus boaria	Mayten Tree	Tree
	173.	W	Melaleuca nesophila	Pink Melaleuca	Shrub
[174.	N	Metrosideros excelsus	New Zealand Christmas Tree	Tree
[175.	÷	Mimulus species	Monkeyflower	Flower
	176.	_	Mirabilis californica	Wishbone Bush	Perennial
İ	177.	N	Myoporum debile	Trailing Myoporum	Shrub
	178.	N	Myoporum insulare	Boobialla	Shrub
	179.	W	Myoporum parvifolium	Creeping Boobialla	Ground cover
[180.	W	Myoporum 'Pacificum'	Trailing Myoporum	Shrub
	181.		Nassella [stipa] lepida	Foothill Needlegrass	Ground cover
	182.	_	Nassella stipa] pulchra	Purple Needlegrass	Ground cover
	183.	_	Nemophila menziesii	Baby Blue Eyes	Annual
	184.	X	Nerium oleander	Oleander	Shrub
	185.	_	Oenothera hookeri	California Evening Primrose	Flower
	186.	W	Oenothera speciosa	Showy Evening Primrose	Perennial
	187.	X	Ophiopogon japonicus	Mondo Grass	Ground cover
	188.	÷	Opuntia littoralis	Prickly Pear	Cactus
	189.	÷	Opuntia oricola	Oracle Cactus	Cactus
	190.	+	Opuntia prolifera	Coast Cholla	Cactus
	191.	W	Osmanthus fragrans	Sweet Olive	Shrub
İ	192.	X	Osteospermum fruticosum	Trailing African Daisy	Ground cover
	193.	X	Parkinsonia aculeata	Mexican Palo Verde	Tree
İ	194.	W	Pelargonium peltatum	Ivy Geranium	Ground cover
ŀ	105	37	D	D 1 T	61 1

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Beard Tongue

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Penstemon species

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Page 5 of 7 Revised December 13, 2016 2016 Plant Pallet for Defensible Space Guideline

Shrub

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tnis appro	val does	not autho	orize violation or Botanical Name	Common Name	Plant Form
prevent re	g uri ng c	orrection	Postanical Name a city nor does it of any interference apostany work reacting	Red Robin	Shrub
plans. Th	s]i 9 not	an ap prov	a Pottaniavoriki tennisi ring	Chinese pistache	Tree
a separate	198.	inder the	Pittosporum undulatum	Victorian Box	Tree
Engineer		rtman	Plateage1624/24	California Plantain	Annual
	200.	**	Plantago insularis	Woolly Plantain	Annual
	201.	X	Plantago sempervirens	Evergreen Plantain	Ground cover
	202.	W	Platanus racemosa	California Sycamore	Tree
	203.	W_	Plumbago auriculate	Plumbago Cape	Shrub
	204.		Populus fremontii	Western Cottonwood	Tree
	205.	X	Portulacaria afra	Elephant's Foot	Shrub
	206.		Potentilla glandulosa	Sticky Cinquefoil	Subshrub
	207.	X	Potentilla tabernaemontanii	Spring Cinquefoil	Ground cover
	208.	X	Prunus caroliniana	Carolina Cherry Laurel	Shrub/Tree
	209.		Prunus ilicifolia ssp. Ilicifolia	Holly Leaved Cherry	Shrub
	210.	X	Prunus lyonii	Catalina Cherry	Shrub/Tree
	211.	N	Punica granatum	Pomegranate	Shrub/Tree
	212.	W	Puya species	Puya	Succulent/shrub
	213.	W_	Pyracantha species	Firethorn	Shrub
	214.		Quercus agrifolia	Coast Live Oak	Shrub
	215.	÷	Quercus berberdifolia	California Scrub Oak	Shrub
	216.	- *	Quercus dumosa	Coastal Scrub Oak	Shrub
	217.	X	Quercus engelmannii	Engelmann Oak	Tree
	218.	X	Quercus suber	Cork Oak	Tree
	219.	X	Rhamnus alaternus	Italian Buckthorn	Shrub
	220.		Rhamnus californica	California Coffee Berry	Shrub
	221.		Rhamnus crocea	Redberry	Shrub
	222.	_	Rhamnus crocea ssp. Ilicifolia	Hollyleaf Redberry	Shrub
	223.	N	Rhaphiolepis species	Indian Hawthorn	Shrub
	224.	_	Rhus integrifolia	Lemonade Berry	Shrub
[225.	N	Rhus lancea	African Sumac	Tree
	226.		Rhus ovataa	Sugarbush	Shrub
	227.	_	Ribes aureum	Golden Currant	Shrub
	228.	_	Ribes indecorum	White Flowering Currant	Shrub
	229.	_	Ribes speciosum	Fuschia Flowering Gooseberry	Shrub
	230.	W	Ribes viburnifolium	Evergreen Currant	Shrub
	231.	*	Romneya coulteri	Matilija Poppy	Shrub
	232.	X	Romneya coulteri 'White Cloud'	White Cloud Matilija Poppy	Shrub
	233.	w	Rosmarinus officinalis	Rosemary	Shrub
ļ	234.	w -	Salvia greggii	Autumn Sage	Shrub

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- ** = Not native plant species but can be used in all fuel modification zones.

Page 6 of 7 Revised December 13, 2016 2016 Plant Pallet for Defensible Space Guideline

This is to confine sinks a Space Landscaping - Plant Pallet for Fuel Modification in Riverside,

approved by the Fire Official and no change or **Orange and San Diego Counties** deviation therefrom shall be permitted. However.

this appro	therefron val does	not autho	e permitted. However, brize violation or Botanical Name e city nor does it or any error of the sis	Common Name	Plant Form
cancellati	i <mark>on of any</mark>	law of th	e city nor does it	Creeping Sage	Ground cover
prevent re	equiring c his is not a	an approv	val of any work seguiring	Mexican Elderberry	Tree
a separat	t e permit i	under the	ABahanyewouheadeuniac Santolihia Eliamaecyparissis Santolihia Alamaecyparissis	Lavender Cotton	Ground cover
Engineer	PRR We	rtman	Santolina chamaccyparissis	Green Lavender Cotton	Shrub
Liigiileei	239.	-	Satureja chandleri	San Miguel Savory	Perennial
	240.	_	Scirpus acutus	Hard-Stem Bulrush	Perennial
	241.	_	Scirpus californicus	California Bulrush	Perennial
	242.	X	Sedum acre	Goldmoss Sedum	Ground cover
	243.	X	Sedum album	Green stonecrop	Ground cover
	244.	X	Sedum confusum	Stonecrop	Ground cover
	245.	X	Sedum x rubrotinctum	Pork & Beans	Ground cover
	246.	X	Senecio serpens	Dusty Miller	Ground cover
	247.		Sisyrinchium bellum	Blue-Eyed Grass	Ground cover
	248.	_	Solanum douglasii	Douglas Nightshade	Shrub
	249.		Solanum xantii	Purple Nightshade	Perennial
	250.	W	Stenocarpus sinuatus	Firewheel Tree	Tree
	251.	w	Strelitzia nicolai	Giant Bird of Paradise	Perennial
	252.	W	Strelitzia reginae	Bird of Paradise	Perennial
	253.		Symphoricarpos mollis	Creeping Snowberry	Shrub
	254.	W	Tecoma stans [stenolibium stans]	Yellow Bells	Shrub/small tree
	255.	X	Tecomaria capensis	Cape Honeysuckle	Ground cover
	256.	N	Teucrium chamaedrys	Germander	Ground cover
	257.	N	Thymus serpyllum	Lemon Thyme	Ground cover
	258.	N	Trachelospermum jasminoides	Star Jasmine	Shrub
	259.		Trichostems lanatum	Wolly Blue-Curls	Shrub
	260.	X	Trifolium hirtum 'Hyron'	Hyron Rose Clover	Ground cover
	261.	X	Trifolium fragiferum 'O'Connor's'	O'Connor's Legume	Ground cover
	262.		Umbellularia californica	California Laurel	Tree
	263.		Verbena Lasiostachys	Western Vervain	Perennial
	264.	N	Verbena peruviana	Peruvian Verbena	Ground cover
	265.	X	Verbena species	Verbena	Ground cover
	266.	X	Vinca minor	Dwarf Periwinkle	Ground cover
	267.		Vitis Girdiana	Desert Wild Grape	Vine
	268.	X	Vulpia myuros 'Zorro'	Zorro Annual Fescue	Grass
	269.	W	Westringia fruticosa	Coast Rosemary	Shrub
	270.	W	Xanthorrhoea species	Grass Tree	Perennial / shrub
	271.	W	Xylosma congestum	Shiny Xylosma	Shrub

X = Plant Species prohibited in wet and dry fuel modification zones adjacent to native open space lands. Acceptable in all other fuel modification zones and locations.

Yucca

Yucca

- W = Plant species appropriate for use in wet fuel modification zones adjacent to native open space lands. Acceptable in all other wet and irrigated dry (manufactured slopes) fuel modification zones and locations.
- Plant species native to Riverside, Orange and San Diego Counties. Acceptable in all fuel modification (wet or dry zones) in all locations.
- N = Plant species acceptable on a limited basis (maximum 30% of the area at time of planting) in wet fuel modification zones adjacent to native open space reserve lands. Acceptable in all other fuel modification zones and locations.
- * = If seed collected from local seed source.

Yucca species Yucca whippiei

** = Not native plant species but can be used in all fuel modification zones.

Revised December 13, 2016

272.

2016 Plant Pallet for Defensible Space Guideline

Shrub

Shrub

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APPENDIX 'C'

plans. This is not an approval of any work requiring a separate permit under the laws of the city. Literature References

Engineer Eric Wertman Date 01/24/24

Literature References

- 1. <u>Standard Fire Behavior Fuel Models: A Comprehensive Set for Use with Rothermel's Surface Fire Spread Model</u>, General Technical Report RMRS-GTR-153. June 2005. Joe H. Scott, Robert E. Burgan, United States Department of Agriculture Forest Service, Rocky Mountain Research Station, Missoula, Montana.
- <u>BEHAVEPlus: Fire Modeling System, version 5.0.5: Variables.</u> General Technical Report RMRS-GTR-213WWW Revised. September 2009. Patricia L. Andrews, United States Department of Agriculture -Forest Service, Rocky Mountain Research Station, Missoula, Montana.
- 3. <u>BEHAVEPlus Fire Modeling System, Version 5.0.0</u> General Technical Report RMRS-GRT-106WWW Revised. June 2008. Patricia L. Andrews, Collin D. Bevins and Robert C. Seli. United States Department of Agriculture Forest Service, Rocky Mountain Research Station, Missoula, Montana.
- BEHAVEPlus Fire Modeling System, Version 5.0 User's Guide. General Technical Report RMRS-GRT-106WWW Revised. July 2009. Patricia L. Andrews, Collin D. Bevins, Robert C. Seli. United States Department of Agriculture - Forest Service, Rocky Mountain Research Station, Missoula, Montana.
- 5. The 2022 California Fire Code Chapter 49
- 6. The 2022 California Fire Code with Local Amendments
- 7. The 2022 California Residential Code, Section R337.
- 8. Chapter 7A-California of the 2022 Building Code
- 9. National Fire Protection Association NFPA 13 Standard for the Installation of Sprinkler Systems in One and Two-Family Dwellings and Manufactured Homes, 13-R &13-D, 2022 Editions
- 10. National Fire Protection Association NFPA 1144 Standard for Reducing Structure Ignition Hazards from Wildfire (2018).
- 11. National Fire Protection Association NFPA 1142, 2012 Edition. Table C.11 (b) Time-Distance Table Using an Average Speed of 35 mph
- 12. The California State and Local Responsibility Area Fire Hazard Severity Zone Map Fire and Resource Assessment Program of CAL FIRE
- 15. Western Region Climate Center. Historic Climate Data from Remote Automated Weather Stations. RAWS USA Climate Archive. Reno, NV. Data for all Remote Automated Weather Stations is available at: http://www.raws.dri.edu/index.html

This is to certify that plans have been approved by the Fire Official and no change or deviation therefrom shall be permitted. However, this approval does not authorize violation or cancellation of any law of the city nor does it prevent requiring correction of any error on the plans. This is not an approval of any work requiring.

APPENDIX 'D'

plans. This is not an approval of any work requiring a separate permit under the laws of the city bustible & Ignition Resistant Building Materials Building Materials

Non-Combustible & Ignition Resistant Building Materials For Balconies, Carports, Decks, Patio Covers and Floors

Examples of non-combustible & fire-resistant building materials for balconies, carports decks, patio covers, and floors are as follow:

I. NON-COMBUSTIBLE HEAVY GAGE ALUMINUM MATERIALS - <u>Metals USA</u> <u>Building Products Group - Ultra-Lattice</u>

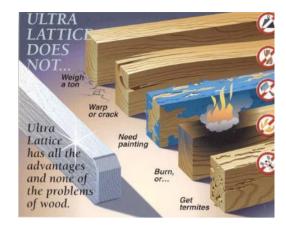


Ultra-Lattice Stand Alone Patio Cover



Ultra-Lattice Attached Patio Cover





Ultra-Lattice Solid Patio Cover

Ultra-Lattice Vs. Wood

II. FRX Exterior Fire-Retardant Treated Wood

Exterior Fire Retardant Treated (FRT) Wood

FRX® fire retardant treated wood may be used in exterior applications permitted by the codes where: public safety is critical, other materials would transfer heat or allow fires to spread, sprinkler systems cannot easily be installed, corrosive atmospheres necessitate excessive maintenance of other materials, or fire protection is inadequate or not readily available. The International Building, Residential and Urban-Wildland Interface Codes and regulations permit the use of fire-retardant treated wood in specific instances. See below for typical exterior uses and typical residential uses.

Typical Exterior Uses

- Balconies
- Decks



Homeowners and Residential Architects: See this 2-minute video and the diagram below.

This is to cartify that flags have been on fire retardant treated wood for exterior uses, visit approved by the Fire Official and no change or deviation the retard of the control of the

plans. This is not an approval of any work requiring a separate per the under FREX COMPANY, INC —"Trex Accents ®: Fire Defense TM" wood and polyethylene Engineer Eric Wertman om Potsite 12424 board, nominal 5/4" thick x 5-1/2" width, nominal density of 0.036 lb./in³.

Trex Accents®: Fire DefenseTM

The perfect blend of beauty and brawn.

Trex's #1 selling platform, Trex Accents®, exceeds the strict fire regulations set by the State of California and San Diego County.



- Offers superior safety performance:
 - o Exceeds ASTM E84 Class B Flame Spread.
 - o Exceeds 12-7A-4 Part A (underflame) and Part B (Burning Brand).
- Self-extinguishing even under extreme fire exposure.

Approved for use by the California State Fire Marshal's Office and San Diego County. Read the California Department of Forestry and Fire Protection, Office of the State Fire Marshal WILDLAND URBAN INTERFACE (WUI)PRODUCTS Report. (PDF)

This is to certify Wat SOLID "EWOOD" DECKING

approved by the Fire Official and no change or deviation therefrom shall be permitted. However,

this approval does not outligate vi Name: Various Manufacturers cancellation of any law of the city nor does it.

prevent requiring correction of any error on the

plans. This is not appearate of incomplishing Solid "Wood" decking: "Redwood", "Western Red Cedar", a separate permit under the laws of the city.

"Incense Cedar": "Port Orford Cedar", and "Alaska Yellow Cedar". Engineer Eric Wert

Sizes: Minimum nominal 2" thickness (American Softwood Lumber Standard PS 20). Lumber grades: Construction Common and better grades for Redwood, 3 Common and better grades for Cedars, and commercial decking or better grades for both Redwood and Cedars.

Special Instructions: Solid wood decking shall be installed over solid wood joists spacing 24" or less on center.

Decking (SFM Standard 12-7A-4)

V. Vents

Examples of Approved Vents

Brandguard



O'Hagin Fire & Ice® Line - Flame and Ember Resistant

An available option for all O'Hagin attic ventilation products, this attic vent not only features all the same design, construction elements and color choices as the O'Hagin Standard Line, but also features an interior stainless-steel matrix that resists the intrusion

This is to certify that of a hames and embers. This patent-pending attic vent is accepted for use by many local approved by the Fire official and approved by the Fire official and pendited. The west allation in Wildland Urban Interface (WUI) zones.

this approval does not authorize violation or cancellation of any law of the city nor does it prevent requiring correction of any error on the plans. This is not an approval of any work requiring a separate permit under the laws of the city.

Engineer Eric Wertman Date 01/24/24





Vulcan Vents

The founders of Gunter Manufacturing have been working closely over the last two years, with the scientists and inventors of Vulcan Technologies to bring to market this incredible product.

Combining our quality vent products with the fire-stopping honeycomb matrix core designed by Vulcan has produced unique and remarkable results.

Gunter manufacturing has over 50 years of combined sheet metal manufacturing experience. Special orders are not a problem. Their vent frames are industry standard frames so there is little or no learning curve for installers and contractors. Their stated goal is to provide people with the vents they need to secure their homes with additional safety against wildfires and give them piece of mind from knowing that their home or structure is protected by a product that works!

The core of their fire and ember safe vents are manufactured out of hi-grade aluminum honeycomb and coated with an intumescent coating made by FireFree Coatings. The intumescent coating is designed to quickly swell up and close off when exposed to high heat. The expanded material acts as an insulator to heat, fire, and embers

This is to certify that plans have been approved by the Fire Official and no change or deviation therefrom shall be permitted. However this approval does not authorize violation or cancellation of any law of the city nor does it prevent requiring correction of any error on the plans. This is not an approval of any work requiring a separate permit under the laws of the city.

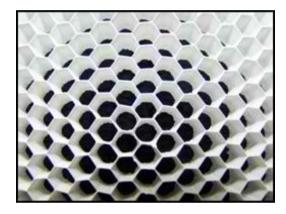


Before

After

After the cells close off, they are extremely well insulated, and fire or embers cannot penetrate.

Even before the cells close off, the vent is designed to protect against flying embers. In many cases embers will attack a structure before fire ever comes near, so this feature is especially important.



Close-up of the coated honeycomb matrix.





Fire easily passes through a standard vent, on the left, but stops cold when it comes up against a Vulcan Vent shown on right.

This is to certify that plans have been approved by the Fire Official and no change or deviation therefrom shall be permitted. However, this approval does not authorize violation or cancellation of any law of the city nor does it prevent requiring correction of any error on the

APPENDIX 'E'

plans. This is not an appropriate Resistant Construction Requirements a separate permit under the propriet Resistant Construction Requirements

Engineer Eric Wertman Date 01/24/24

The following is a summary of the current requirements for ignition resistant construction for high fire hazard areas under Chapter 7A of the California Building Code (CBC) 2022 edition. However the requirements listed below are not all inclusive and all exterior building construction including roofs, eaves, exterior walls, doors, windows, decks, and other attachments must meet the current CBC Chapter 7A ignition resistance requirements, the California Fire Code, and any additional County and/or City codes in effect at the time of building permit application. See the current applicable codes for a detailed description of these requirements and any exceptions.

- 1. All structures will be built with a Class A Roof Assembly and shall comply with the requirements of <u>Chapter 7A</u> and <u>Chapter 15</u> of the California Fire Code. Roofs shall have a roofing assembly installed in accordance with its listing and the manufacturer's installation instructions.
- 2. Roof valley flashings shall be not less than 0.019-inch (0.48 mm) No. 26 gage galvanized sheet corrosion-resistant metal installed over not less than one layer of minimum 72-pound (32.4 kg) mineral-surfaced nonperforated cap sheet complying with ASTM D3909, at least 36-inch-wide (914 mm) running the full length of the valley.
- 3. Attic or foundation ventilation louvers or ventilation openings in vertical walls shall be covered with a minimum of 1/16-inch and shall not exceed 1/8-inch mesh corrosion-resistant metal screening or other approved material that offers equivalent protection.
- 4. Where the roof profile allows a <u>space</u> between the <u>roof covering</u> and roof decking, the <u>spaces</u> shall be constructed to resist the intrusion of flames and embers, be fire stopped with approved materials or have one layer of a minimum 72 pound (32.4 kg) mineral-surfaced nonperforated cap sheet complying with ASTM D3909 installed over the combustible decking.
- 5. Enclosed roof eaves and roof eave soffits with a horizontal underside, sloping rafter tails with an exterior covering applied to the under-side of the rafter tails, shall be protected by one of the following:
 - noncombustible material
 - Ignition-resistant material
 - One layer of ⁵/₈-inch Type X gypsum sheathing applied behind an <u>exterior</u> covering on the underside of the rafter tails or soffit
 - The exterior portion of a 1-hour fire resistive <u>exterior wall</u> assembly applied to the underside of the rafter tails or soffit including assemblies using the gypsum <u>panel</u> and sheathing products listed in the Gypsum Association <u>Fire</u> <u>Resistance</u> Design Manual

This is to certify that plane have boxed in <u>roof eave soffit</u> assemblies with a horizontal underside that meet the approved by the Fire Official and no change or claim of the eviation therefrom shall be per interest in Section 707A.10 when tested in accordance with the test this approval does not authorize violation respectively. The section ASTM E2957.

prevent requiring correction of By red introof eave soffit assemblies with a horizontal underside that meet the plans. This is not an approval of any work requiring a separate permit under the lapertographic criteria in accordance with the test procedures set forth in SFM

Engineer_Eric Wertman

Standard212-7A-3.

Exceptions: The following materials do not require protection:

- 1. Gable end overhangs and roof assembly projections beyond an exterior wall other than at the lower end of the rafter tails.
- 2. Fascia and other architectural trim boards.
- 6. The exposed roof deck on the underside of unenclosed roof eaves shall consist of one of the following:
 - Noncombustible material, or
 - Ignition-resistant material, or
 - One layer of 5/8-inch Type X gypsum sheathing applied behind an exterior covering on the underside exterior of the roof deck, or
 - The exterior portion of a 1-hour fire resistive exterior wall assembly applied to the underside of the roof deck designed for exterior fire exposure including assemblies using the gypsum panel and sheathing products listed in the Gypsum Association fire Resistance Design Manual.

Exceptions: The following materials do not require protection:

- 1. Solid wood rafter tails on the exposed underside of open roof eaves having a minimum nominal dimension of 2 inch (50.8 mm).
- 2. Solid wood blocking installed between rafter tails on the exposed underside of open roof eaves having a minimum nominal dimension of 2 inch (50.8 mm).
- 3. Gable end overhangs and roof assembly projections beyond an exterior wall other than at the lower end of the rafter tails.
- 4. Fascia and other architectural trim boards.
- 7. Vents ventilation openings for enclosed attics, enclosed eave soffit spaces, enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters, and underfloor ventilation openings shall be fully covered with metal wire mesh, vents, other materials or other devices that meet one of the following requirements:
 - A. Vents listed to ASTM E2886 and complying with all the following:
 - i. There shall be no flaming ignition of the cotton material during the Ember Intrusion Test.
 - ii. There shall be no flaming ignition during the Integrity Test portion of the Flame Intrusion Test.
 - iii. The maximum temperature of the unexposed side of the vent shall not exceed 662°F (350°C).
 - B. Vents shall comply with all the following:
 - i. The <u>dimensions</u> of the openings therein shall be a minimum of $^{1}/_{16}$ -inch (1.6 mm) and shall not exceed $^{1}/_{8}$ -inch (3.2 mm).
 - ii. The materials used shall be <u>noncombustible</u>. **Exception:** Vents located under the <u>roof covering</u>, along the ridge of roofs, with the exposed surface of the vent covered by <u>noncombustible</u> wire mesh, may be of combustible materials.

This is to certify that plans hattibeen The materials used shall be corrosion resistant.

approved by the Fire Official and no change or deviation therefrom shall be permitted. However,

this approval does not enthouse all aion be installed on the underside of eaves and cornices. cancellation of any law of the city nor does it

prevent requiring correction of any error on the plans. This is not an approval of any work requiring a separate permit under the parties of the city.

Engineer Eric Wertman Vents listed to ASTM E2886 and complying with all the following:

- There shall be no flaming ignition of the cotton material during the Ember Intrusion Test.
- There shall be no flaming ignition during the Integrity Test portion of the Flame Intrusion Test.
- The maximum temperature of the unexposed side of the vent shall not exceed 662°F (350°C).
- 2. The enforcing agency shall be permitted to accept or approve special eave and cornice vents that resist the intrusion of flame and burning embers.
- 3. Vents complying with the requirements of Section 706A.2 shall be permitted to be installed on the underside of eaves and cornices in accordance with either one of the following conditions:
 - 3.1. The attic space being ventilated is fully protected by an automatic sprinkler system installed in accordance with Section 903.3.1.1 or,
 - 3.2. The exterior wall covering, and exposed underside of the eave are of noncombustible materials, or ignition-resistant materials, as determined in accordance with SFM Standard 12-7A-5 Ignition-Resistant Material and the requirements
- 9. All chimney, flue or stoyepipe openings that will burn solid wood will have an approved spark arrester. An approved spark arrester is defined as a device constructed of nonflammable materials, having a heat and corrosion resistance equivalent to 12-gauge wire, 19-game galvanized steel or 24-gage stainless steel, or other material found satisfactory by the Fire Protection District, having \(\frac{1}{2} \)-inch perforations for arresting burning carbon or sparks nor block spheres having a diameter less than 3/8 inch (9.55 mm). It shall be installed to be visible for the purposes of inspection and maintenance and removeable to allow for cleaning of the chimney flue.
- 10. All residential structures will have automatic interior fire sprinklers installed according to the National Fire Protection Association (NFPA) 13R 2019 edition - Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies.
- 11. The exterior wall covering, or wall assembly shall comply with one of the following requirements:
 - Noncombustible material, or
 - Ignition resistant material, or
 - Heavy timber exterior wall assembly, or
 - Log wall construction assembly, or
 - Wall assemblies that have been tested in accordance with the test procedures for a 10-minute direct flame contact expose test set forth in ASTM E2707 with the conditions of acceptance shown in Section 707A.3.1 of the California Building Code, or

This is to certify that plan Wall tassemblies that meet the performance criteria in accordance with the test approved by the Fire Official and no change or deviation therefrom shall be perfitted viewer, 10-minute direct flame contact exposure test set forth in SFM this approval does not authorize violation of any law of the city nor does it

prevent requiring correction of any error on the

plans. This is not an approval of any work requiring a separate permit under the xceptions; Any of the following shall be deemed to meet the assembly performance Engineer Eric Wertman Criteria and intent of this section including;

- One layer of 5/8-inch Type X gypsum sheathing applied behind the exterior covering or cladding on the exterior side of the framing, or
- The exterior portion of a 1-hour fire resistive exterior wall assembly designed for exterior fire exposure includes assemblies using the gypsum panel and sheathing products listed in the Gypsum Associate Fire Resistance Design Manual.
- 12. Exterior walls shall extend from the top of the foundation to the roof and terminate at 2-inch nominal solid blocking between rafters at all roof overhangs, or in the case of enclosed eaves, terminate at the enclosure.
- 13. Gutters shall be provided with the means to prevent the accumulation of leaf litter and debris within the gutter that contribute to roof edge ignition.
- 14. No attic ventilation openings or ventilation louvers shall be permitted in soffits, in eave overhangs, between rafters at eaves, or in other overhanging areas.
- 15. All projections (exterior balconies, decks, patio covers, unenclosed roofs and floors, and similar architectural appendages and projections) or structures less than five feet from a building shall be of non-combustible material, one-hour fire resistive construction on the underside, heavy timber construction or pressure-treated exterior fire-retardant wood. When such appendages and projections are attached to exterior fire-resistive walls, they shall be constructed to maintain the same fire-resistant standards as the exterior walls of the structure.
- 16. Deck Surfaces shall be constructed with one of the following materials:
 - Material that complies with the performance requirements of <u>Section 709A.4</u> when tested in accordance with both ASTM E2632 and ASTM E2726, or
 - <u>Ignition-resistant material</u> that complies with the performance requirements of 704A.3 when tested in accordance with ASTM E84 or UL 723, or
 - Material that complies with the performance requirements of both SFM Standard 12-7A-4 and SFM Standard 12-7A-5, or
 - Exterior fire retardant treated wood, or
 - Noncombustible material, or
 - Any material that complies with the performance requirements of SFM Standard 12-7A-4A when the attached <u>exterior wall covering</u> is also composed of <u>noncombustible</u> or <u>ignition-resistant material</u>.
- 17. Accessory structures attached to buildings with habitable spaces and projections shall be in accordance with the Building Code. When the attached structure is located and constructed so that the structure or any portion thereof projects over a descending slope surface greater than 10 percent, the area below the structure shall have all underfloor areas and exterior wall construction in accordance with Chapter 7A of the Building Code.

This is to certify that plans have been

approved by the Gire Official and no change or skylights and exterior glazed door assemblies shall comply with one of deviation therefrom shall be permitted. Nowever, which is approval does not approve this approval does not approve the city nor does it.

prevent requiring corections from the city nor goes of prevent requiring corections from the core of multiplane glazing with a minimum of one tempered pane meeting plans. This is not an approval of any work requiring a separate permit under the care quiries of Section 2406 Safety Glazing, or

Engineer Eric Wertman Be somestructed of glass block units, or

- Have a <u>fire-resistance rating</u> of not less than 20 minutes when tested according to NFPA 257, or
- Be tested to meet the performance requirements of SFM Standard 12-7A-2.
- 19. All eaves, fascia and soffits will be enclosed (boxed) with non-combustible materials. This shall apply to the entire perimeter of each structure. Eaves of heavy timber construction are not required to be enclosed as long as attic venting is not installed in the eaves. For the purposes of this section, heavy timber construction shall consist of a minimum of 4x6 rafter ties and 2x decking.
- 20. Detached accessory buildings that are less than 120 square feet in floor area and are located more than 30 feet but less than 50 feet from an applicable building shall be constructed of <u>noncombustible</u> materials or of <u>ignition-resistant materials</u> as described in <u>Section 704A.2</u> of the California Building Code.

Exception: Accessory structures less than 120 square feet in floor area located at least 30 feet from a building containing a habitable space.

- 21. All rain gutters, down spouts and gutter hardware shall be constructed from metal or other noncombustible material to prevent wildfire ignition along eave assemblies.
- 22. All side yard fence and gate assemblies (fences, gate and gate posts) when attached to the home shall be of non-combustable material. The first five feet of fences and other items attached to a structure shall be of non-combustible material.
- 23. Exterior garage doors shall resist the intrusion of embers from entering by preventing gaps between doors and door openings, at the bottom, sides and tops of doors, from exceeding 1/8 inch. Gaps between doors and door openings shall be controlled by one of the methods listed in this section.
 - Weather-stripping products made of materials that: (a) have been tested for tensile strength in accordance with ASTM D638 (Standard Test Method for Tensile Properties of Plastics) after exposure to ASTM G155 (Standard Practice for Operating Xenon Arc Light Apparatus for Exposure of Non-Metallic Materials) for a period of 2,000 hours, where the maximum allowable difference in tensile strength values between exposed and non-exposed samples does not exceed 10%; and (b) exhibit a V-2 or better flammability rating when tested to UL 94, Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.
 - Door overlaps onto jambs and headers.
 - Garage door jambs and headers covered with metal flashing.
- 24. Exterior doors shall comply with one of the following:
 - 1. The exterior surface or cladding shall be of noncombustible material or,

CITY OF RIVERSIDE FIRE DEPT.

This is to certify that plat the exterior surface or cladding shall be of ignition-resistant material or, approved by the Fire Official and no change of shall be constructed of solid core wood that complies with the deviation therefrom shall be permitted. However, shall be constructed of solid core wood that complies with the this approval does not applies via the cancellation of any law of the city nor does it.

cancellation of any law of the city nor does it prevent requiring corrected of **Styles** candinails shall not be less than 1-3/8 inches thick.

plans. This is not an approval of any work requiring a separate permit under the law the shall not be less than 1-1/4 inches thick, except for the exterior perimeter engineer Eric Wertman

Engineer Eric Wertman

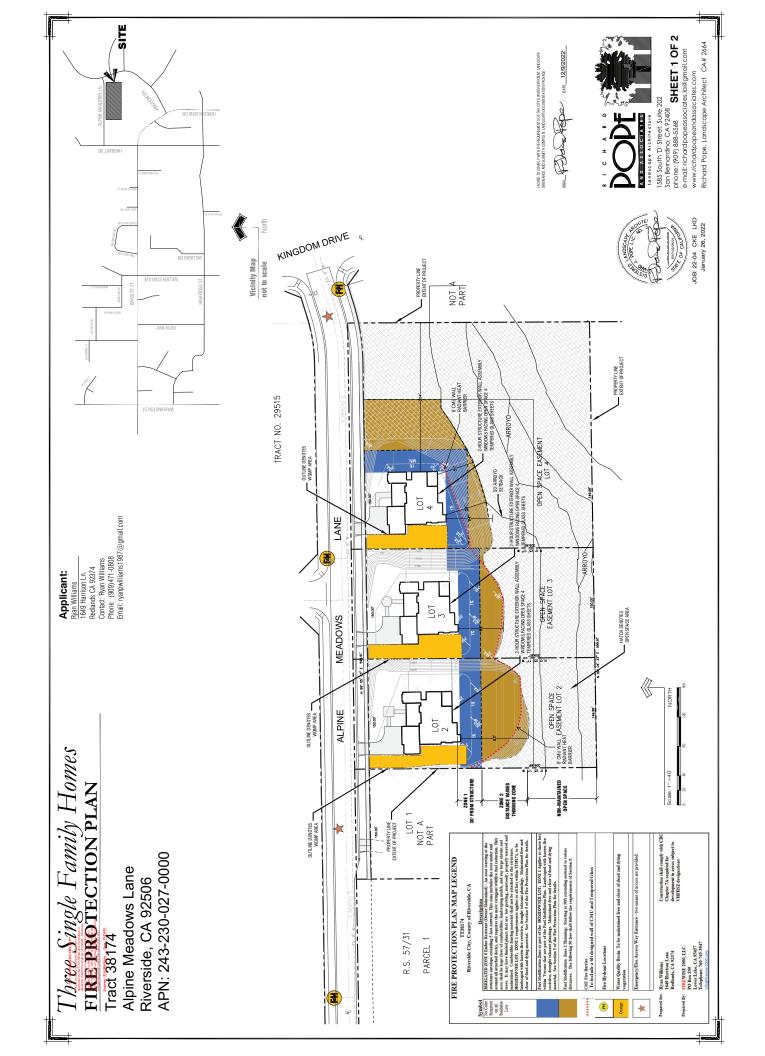
This is not an approval of any work requiring to be less than 1-1/4 inches thick, except for the exterior perimeter that shall be permitted to taper to a tongue not less than 3/8 inches thick.

- 4. The exterior door assembly shall have a fire-resistance rating of not less than 20 minutes when tested according to NFPA 252 or,
- 5. The exterior surface or cladding shall be tested to meet the performance requirements of Section 707A.3.1 when tested in accordance with ASTM E2707 or,
- 6. The exterior surface or cladding shall be tested to meet the performance requirements of SFM Standard 12-7A-1.
- 25. Fire access tunnels shall have two hour rated walls consisting of two layers of 5/8" Type 'X' gypsum wallboard panels on each side of the studs. The EZ Taping Systems "Fire Tape" product or equivalent should be used as an alternative to convention joint tape when:
 - 1. Two or more layers of listed Type 'X' gypsum wallboard are applied vertically with joints staggered and joints of the face board are":
 - a. Tightly butted and taped with EZ Taping Systems "Fire Tape" or equivalent product or
 - b. Finished with joint compound of EZ Taping Systems "Fire Tape" or equivalent product if the gap between gypsum wallboard panels is visible at the joint.
 - 2. Two or more layers of USG "Sheetrock" Fire code C gypsum wallboard are applied (horizontally or vertically).
 - 3. Gypsum panels shall be attached with Type S drywall screws, placed 8" oc to vertical edges and 12" oc to top and bottom runners and intermediate studs.
 - 4. Fire Tape shall be nominal 2" wide and applied on the vertical joints at studs.
- ** FAHJ Fire Authority Having Jurisdiction SFM – State Fire Marshal NFPA – National Fire Protection Association

CITY OF RIVERSIDE FIRE DEPT.

This is to certify that plans have been approved by the Fire Official and no change or deviation therefrom shall be permitted. However, this approval does not authorize violation or cancellation of any law of the city nor does it prevent requiring correction of any error **Site Plan and Fuel Treatment Exhibit** plans. This is not an approval of any work requiring a separate permit under the laws of the city.

Engineer Eric Wertman, Date Documents must be included at time of submittal



CITY OF RIVERSIDE FIRE DEPT.

This is to certify that plans have been approved by the Fire Official and no change or deviation therefrom shall be permitted. However, this approval does not authorize violation or cancellation of any law of the city nor does it prevent requiring correction of any error on the plans. This is not an approval of any work requiring a separate permit under the laws of the city.

APPENDIX 'G'

Approved AM&M Request

Engineer_Eric Wertman Date 01/24/24

this is to certify that plans have been

approved by the Fire Official and no change or deviation for Alternate Materials & Methods this approved does not authorize violation or cancellation of any law of the city nor does it prevent requiring correction of any error on the plans. This is not an approval of any work requiring a separate permit under the laws of the city.

Distribution					
	Owner				
	Petitioner				
	Plan Reviewer				
	Inspection				
	Fire Prevention				

Tract 38174 Lot 2, 3 and 4, Alpine Meadows Lane Riverside, CA 92506 APN: 243-230-027-0000				Plan Check #: GP-2023-06164		
100	4.					
Petitioner: (Print Name): Michael Ackerman, RCE, G	SD/P. QISP	Structure Inform	ation:	Architect/Engineer Seal & Signature:		
Relation to the project: (check one)		Use: Residentia	al	Seal & Signature:		
☐ Designer of Record ☐ Own ☐ Contractor		Occupancy Class	: R-3	53 1905 ESS 100 AG		
		Construction Type	e: V-B	(F) (R. C. E. 64663)		
Street Address:		No. of Stories:	2	E CIVIL B		
Daytime Phone: (909) 263-1734		Fire Sprinklered?	yes- NFF 13D	A CAL DE CAL DE		
Email: (Please print) michael@ackermanassociat	Alternate Contact Name and Phone Number:					
REQUEST: Provide a brief description of the proposed modification or the alternate material or method being proposed. (You may attach additional document if necessary but this section must be completed) The location of the pad does not meet 100 feet of defensible space as required by California Building Code. Distance						
of allowable fuel treatment is limited to on pad, setback of minimum 40 feet to habitat.						
Alternate methods proposed with 2 measures:						
1) 6-ft tall masonry wall as designated on the attached exhibit along to protect the structures from,						
convected/radiant heat and blowing ground embers.						
2) A 2-hour exterior rated wall assembly for those surfaces facing the reduced Fuel Modification Area.						
Assembly to include 2 sheets of tempered glass for windows exposed to open space.						
Code Section(s): Issue(s):						
JUSTIFICATION: Explain how the proposed modification or alternate meets the intent of the applicable code sections while maintaining equivalent protection in suitability, strength, effectiveness, fire resistance, durability, safety, and sanitation (as applicable). Include any relevant practical difficulties for strict compliance. (You may attach additional documentation if necessary but this section must be completed) The Project is unable to provide for the required 100 ft of fuel treatment due to Environmental						
constraints, a standard desogm feature is the use of a barrier to stop the forward progress of the fire,						
deflect any radiant heat, and stop blowing ground embers from impacting adjacent structures.						
The addition of the 2-hour wall assembly and dual pain tempered windows will provide equivalency,						
when added to those code requirements for construction in a VHFHSZ. See attached specifications.						
Petitioner's Signature:	Title:		Date:	70.		

CITY OF RIVERSIDE FIRE DEPT. Project Address lans have been Plan Check Number: approved by the Fire Official and no change or Traviation of the permitted 4 HOW Portion Meadows Lane Riverside, CA 92506 GP-2023-06164 cancellation of any law of the city nor does it prevent requiring correction of any error on the plans. This is not an approval of any work requiring a separate permit under the laws of the city. FOR STAFF USE ONLY Engineer Eric Wertman Date 01/24/24 **Project Status:** Assigned to: Staff Recommendation: Staff Signature: ☐ Preliminary Design ☑ Approve Request as Stated ☑ Plan Review ☐ Approve Request with Conditions Date: ☐ Under Construction □ Deny Request as Stated 1/23/2024 ☐ Construction Complete **Fire Department Staff Comments:** APPROVED AS REQUESTED. FIRE'S APPROVED ALTERNATE MEANS METHOD(AMM) APPLICATION FOR PROPOSED DETACHED SINGLE FAMILY RESIDENCES(Lot 2, 3, and 4) SHALL BE SUBMITTED WITH THE BUILDING PERMIT ARCHITECTURAL PLANS. Fire Department Conditions of Approval/Reasons for Denial: 1.) 6-ft tall masonry wall as designated on the attached exhibit along the east PL to protect the structures from, convected/radiant heat and blowing ground embers. 2.) A 2-hour exterior rated wall assembly for those surfaces facing the reduced Fuel Modification Area. Assembly to include 2 sheets of tempered glass for windows exposed to open space Determination of Fire Marshal: _____ □ Approve Request as Stated Authorized Signature ☐ Approve Request with Conditions ☐ Deny Request as Stated Date: 1/23/2024 Fire Protection Conditions of Approval/Reasons for Denial:

DATE: 10 April 2023
CITY OF RIVERSIDE FIRE DEPT.

TO: CITY OF RIVERSIDE FIRE DEPARTMENT
This is to pestify that plans have been approved to the fire Official and no change or deviation therefrom shall be permitted. However, FRAS approved detained Seuther 20 Violation or cancellation have a represented the proventiled of the control of

Eargineere Erics Wertroan written Date the Wald Splication form in conjunction with a Fire Protection Plan for TR38174 specifically Lots 2, 3, and 4.

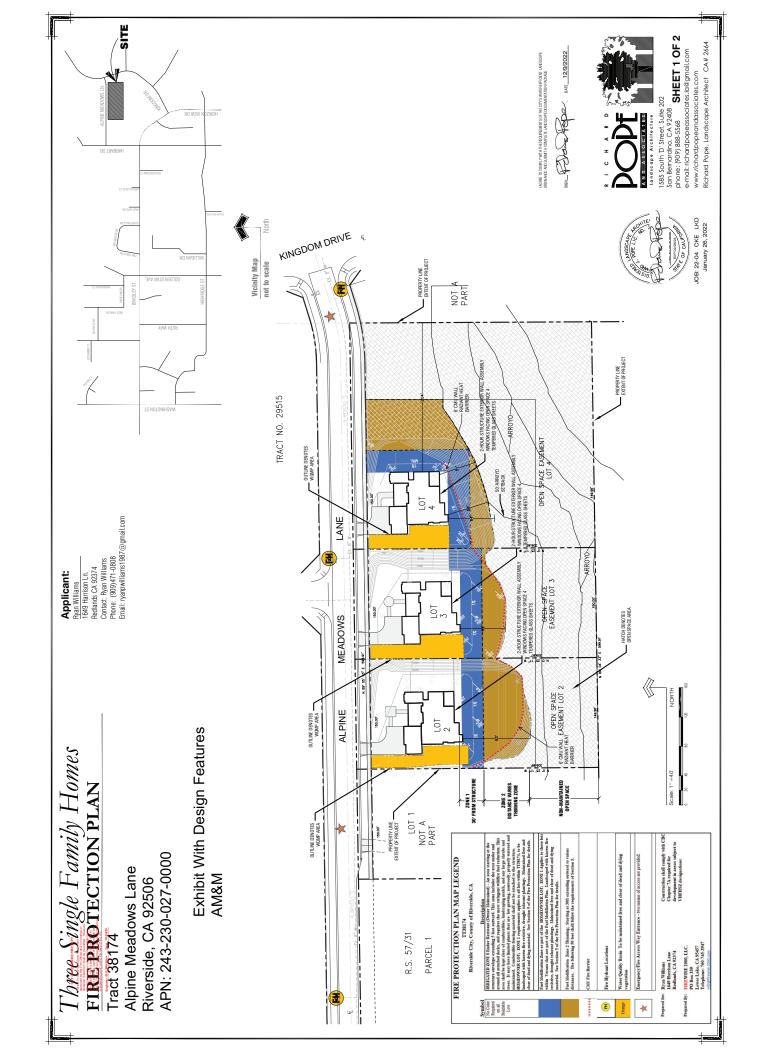
We are proposing a 6' tall CMU wall/barrier on the south side of the parcel as designated on the exhibit, and a 2-hour rated exterior wall assembly, with dual tempered glazing assemblies, for those wall surfaces facing the exposed open area with reduced separation.

The proposed alternate protection measures have been utilized in other projects within the city and state.

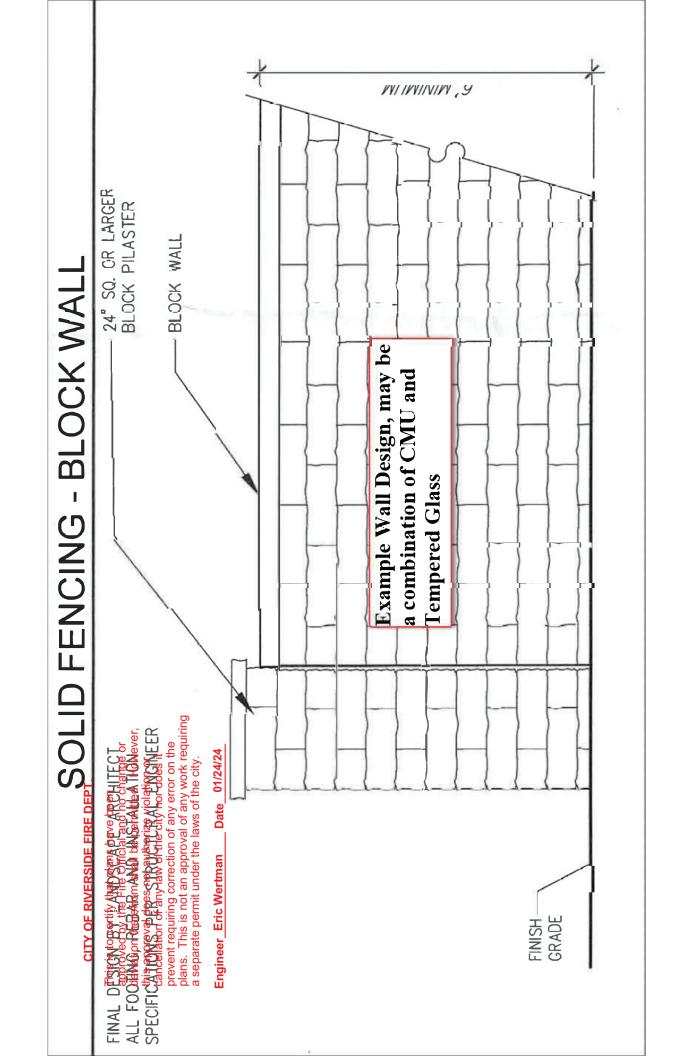
- 1) The proposed wall has generally been accepted as an alternate mitigation measure when projects have less than a 100-foot buffer as it provides a barrier for radiant heat at the leading edge of a fire and reduces/stops wind-blown ground embers. The heat flux at the barrier is only momentary. In this case the flame lengths are less than the distance to the structure envelope. See attached additional information on site wall design and site images for locations.
- 2) In conjunction with the added fire walls, the exterior wall surface of Lots 2, 3, and 4 facing reduced buffered areas will be built with 2-hour fire rated surfaces at the vertical walls on the exterior fire exposed sides, window assemblies shall be designed with 2 sheets of tempered glass vs the standard required 1 sheet. See attached additional information on the tested 2-hour wall design "GA FILE NO. WP 8207" comprised on 2 layers of 5/8" type X gypsum wall board behind the exterior finish and site images for locations.

Sincerely.

Michael Ackerman, RCE, QSD/P, QISP michael@ackermanassociates2000.com



This is to certify that plans have been approved by the Fire Official and no change or this app n Grang Devolof the lette incestoes at NCE DESIGN MANUAL cancella 171 prevent r quiring correction of any error on the s is not an approval of any work requiring plans. permit under the laws of the city . a separat Date 01/24/24 **Engineer Eric Wertman EXTERIOR WALLS** 2HOUR PROPRIETARY* GA FILE NO. WP 8206 **FIRE** GYPSUM WALLBOARD, GLASS MAT GYPSUM SUBSTRATE, STEEL STUDS EXTERIOR SIDE: Base layer 5/8" proprietary type X gypsum sheathing or glass mat gypsum substrate (sheathing) applied parallel or at right angles to 3.1/2", 33 mil (20 ga.), steel studs 24" oc. with 1" Type S-12 drywall screws 16" oc. Face layer 5/8' proprietary type X gypsum sheathing or glass mat gypsum substrate (sheathing) applied parall I or at right angles to study with 1-5/8" Type S-12 drywall screws 16" QC INTERIOR SIDE: Base layer 5/8" proprietary type X gypsum wallboard or gypsum I hickness: 6-1/6" veneer base applied parallel or at right angles to study with 1" Type S-12 diywall Approx. Weight: 7 psf. screws 16" oc. Face layer 5/8" proprietary type X gypsum wallboard or gypsum veneer base applied parallel or at right angles to study with 1-5/8" Type S-12 Fire Test: UL R1319, 08CA62192, drywall screws 16" e.c. Face layer horizontal joints need not be staggered or backed from base layer or on 5-15-09: 08NH23546. 6-2-08; opposite sides. (LOAD-BEARING) UL Desian U423 PROPRIETARY GYPSUM PANEL PRODUCT United States Gypsum Company ... 5/8" SECUROCK® Glass-Mat Sheathing Panels 5/8" SHEETROCK® Brand Ultralight Panels 5/8 COOE® X 2HOUR GA FILE NO. WP 8207 **PROPRIETARY*** FIRE GYPSUM WALLBOARD, GLASS MAT GYPSUM SUBSTRATE, WOOD STUDS EXTERIOR SIDE: Base layer 5/8" proprietary type X glass mat gypsum substrate (sheathing) applied parallel or at right angles to 2 x 4 wood study 16" ochwith 1-1/4', Type W drywall screws 8" Of Face layer 5/8" proprietary type X glass mat gypsum substrate (sheathing) applied parallel or at right angles to studs with 1-mat gypsum panel to studs. INTERIOR SIDE: Base layer 5/8" proprietary type X gypsum wallboard applied parallel or at right angles to 2 x 4 wood studs 16" ochwith 1-1/4", Type W drywall screws 8" oc Face layer 5/8" proprietary type X gypsum wallboard applied parallel or at right angles to study to with 1-7/8" Type W drywall screw 8" 000 Thickness 6-1/8° Joints staggered 16" each layer and side. (LOAD-BEARING) Approx. Weight. 12 gs/ Fire Test: UL R14196, 11NK04002,3-3-11, PROPRIETARY GYPSUM PANEL PRODUCTS UL Design U301 VIII ericao Gypsum Company LLC5/8" Είτοβίος® Type X Gypsum Board 5/8" M-Glass® Type X Exterior Gypsum Sheathing





February 5, 2024

Candice Assadzadeh, Senior Planner
City of Riverside
Community Economic Development Department – Planning Division
3900 Main Street, 3rd Floor
Riverside, CA 92522

RE: 841 Alpine Meadows Lane Tentative Parcel Map No. 39174, PR-2021-001023 (PM, GE) – Responses to Len Nunney January 15, 2024 comments Received on Draft Initial Study/Mitigated Negative Declaration

As outlined in Title 17 of the RMC, (Section 17.08.011), "Arroyo" shall mean those areas shown within the limits of the Mockingbird Canyon, Woodcrest, Prenda, Alessandro, Tequesquite, or Springbrook Arroyos and associated tributaries as shown on Exhibits A-F of this title. The limits of these arroyos and arroyo tributaries shall include all the land within the water course area, the adjacent slopes having and average natural slope of 30 percent or greater, and all other areas within the boundaries shown on Exhibits A-F of this title."

The commenter indicates that the biologist who evaluated the site failed to recognize that the arroyo boundaries [assume they are referring to Exhibits A-F of RMC Title 17] were never based on the presence of riparian vegetation but on the landform bordering the arroyo.

In contrast, the biologist did consider the landform bordering the arroyo, including topography. As outlined in the Revised Biological Resources Assessment and Breeding Season Burrowing Owl Survey (Appendix B of the Initial Study/Mitigated Negative Declaration), Section 4.6.3 — Current Conditions, pages 54-, Figure 14a shows the topography of the parcel. Based on the topographic map, the slopes adjacent to the actual boundaries of the arroyo reach a maximum of approximately 24 percent at the eastern end of the parcel and decrease to about 10.5 percent at the western end of the parcel. There are no slopes outside of the actual boundaries of the arroyo within the parcel (as shown on Figures 12a, 12b, and 14) that have an average natural slope of 30 percent or greater. A slope analysis (Figure 14b) found that slopes adjacent to the actual boundaries of the arroyo are less than 30 percent with the exception of two small areas (about 760 square feet total) in the southeastern corner of the parcel, which is not proposed for development.

The biologist also considered current and historic aerial photographs, hydrology, soil types, and other available data when evaluating the project site, as indicated in the following excerpts from the *Western Riverside County Multiple Species Habitat Conservation Plan Consistency Analysis* (Appendix B of the Initial Study/Mitigated Negative Declaration).

Pages 26-27, Section 5.1.1 Methods:

5.1.1) Methods

Pre-Survey Research Methods and Purpose

A wealth of information is available online and is updated at regular intervals by the agencies and universities. To ensure efficiency and greater accuracy in the field, areas of interest are identified during the research stage prior to conducting the field survey. Useful maps are uploaded to handheld GPS and applications are downloaded in preparation for real-time data inquiries. Potential for jurisdictional features (riparian/riverine) to occur onsite is assessed via aerial photography, topographic mapping, soil types, trends to hydric conditions, area hydrology, and prior wetlands inventory mapping, etc. Finally, condition of area drainages is forecast based on available rainfall data.

Field Survey Methods and Purpose

Field work was conducted by L&L delineator Leslie Irish on September 7, 2021. L&L visited the site and examined the drainage width and length. Aerial images of previous years available in Google Earth were reviewed and compared to verify consistency and to detect any anomalies for further examination in the field.

Project boundaries were investigated to identify areas where water is received onto the property or transmitted offsite to downstream resources. These areas were then walked, measured, and assessed via three (3) criteria to determine presence or absence of evidence of flow, hydrophilic vegetation, or hydric soil conditions. Where evidence of flow was present, combined with or without hydrophytes, soils were examined for anoxic conditions. Soils identified as suitable for development of hydric conditions were given special attention. Soil color characteristics were evaluated using a "Munsell color chart" and all data were reported on appropriate Arid West Wetland Determination Data Forms (WD).

In addition, per the following from the *Western Riverside County Multiple Species Habitat Conservation Plan Consistency Analysis* (Appendix B of the Initial Study/Mitigated Negative Declaration), Sections 4.5 Jurisdictional Waters and Wetlands, and 4.5.1 MSHCP Riparian/Riverine and Vernal Pool Habitat, pages 50-51, the drainage feature within the project property is an ephemeral drainage that crosses the southeast portion of the parcel from east to west, is tributary to Prenda Creek and the streambed within the property measures 654 linear feet with an average width of 6.6 feet which is streambed/riverine and not riparian as follows:

4.5) Jurisdictional Waters and Wetlands

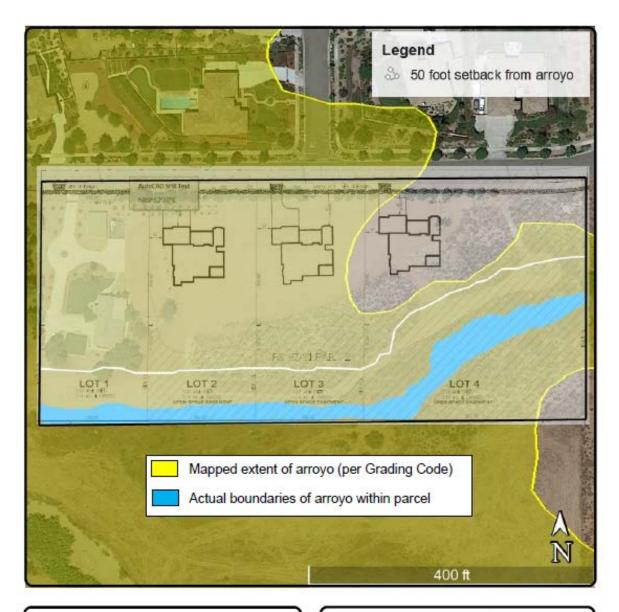
The property is largely within the mapped extent of the Prenda Arroyo, as identified by the City of Riverside, although the Project disturbance area is not within the watercourse as it currently exists (see Section 4.6). The Prenda Arroyo includes Prenda Creek, an ephemeral drainage that is a blueline stream on U.S. Geological Survey (USGS) maps. Prenda Creek is located about 150 feet south of the parcel (at its closest point). An ephemeral drainage that is tributary to Prenda Creek crosses the southeast portion of the parcel from east to west. This unnamed drainage is not a blueline stream. The Prenda Dam is located on Prenda Creek and is about 0.3 mile west (downstream) of the site.

A jurisdictional delineation was conducted in September 2021 and found that the streambed within the property measures 654 linear feet with an average width of 6.6 feet. The delineation found 0.46 acre of CDFW streambed and no CDFW wetlands on the parcel (Table 5a and Figure 11). Of this area, 0.088 acre is also federal Waters of the U.S. There are no federal wetlands (Table 5b and Figure 11).

4.5.1) MSHCP Riparian/Riverine and Vernal Pool Habitat

The jurisdictional delineation found 0.46 acre of MSHCP riverine habitat and no MSHCP riparian habitat on the site. Impacts to MSHCP riverine habitat requires preparation of a Determination of Biologically Equivalent or Superior Preservation (DBESP). TPM 38174 indicates that the Project will avoid the jurisdictional area. Therefore, the Project would not impact MSHCP riparian/riverine habitat and a DBESP is not required (Table 5a and Figure 11).

Therefore, the assessment of Prenda Arroyo by L&L biologists was not solely based on the presence or absence of riparian vegetation, but other factors including, topography, soil types, and hydrology, as well as the drainage feature's historic to current active channel, a comprehensive set of parameters.



L&L Environmental, Inc.

BIOLOGICAL AND CULTURAL INVESTIGATIONS AND MONITORING

QUIN-05-752

Figure 12b Actual Boundaries of Arroyo and Project Impact Area

(Aerial obtained from Google Earth, August 2019)

Alpine Meadows Lane, City of Riverside

In an effort to clarify that the project does require a Grading Exception in order to allow grading within the extent of the mapped Prenda Arroyo, as identified in the Riverside Municipal Code (RMC), Title 17 Grading, Exhibits A-F, a minor revision (addition) is recommended to the Initial Study. This minor

revision is to provide additional clarification and does not change the analysis or conclusions in the Initial Study.

The recommended revision to 4c and 11b of the Initial Study is as follows, with the additions shown in <u>underline</u>:

A Grading Exception is needed to allow grading within the extent of the mapped Prenda Arroyo, as identified in the Riverside Municipal Code (RMC), Title 17 Grading, Exhibits A-F. The arroyos in RMC, Title 17 Grading, Exhibits A-F were mapped using aerial photography, rather than site specific assessments. A Biological Resources Study was prepared for the project, which included a detailed site assessment and associated mapping of the actual boundaries of the Prenda Arroyo and the 50-foot setback, by means of a site walk and review of available literature and data. The project biologist determined that the boundaries of the Prenda Arroyo and the 50-foot setback are smaller than what is mapped in Tile 17 - Grading Code of the RMC. Based on watercourse, topography, and vegetation the actual boundaries of the Prenda Arroyo is located within the southeast portion of the subject parcel, from east to west, as shown in Figures 12a and 12b of the project's Revised Biological Resources Assessment and Breeding Season Burrowing Owl Survey prepared by L& L Environmental, Inc. - Appendix A. The 50-foot setback from the actual boundaries of the Prenda Arroyo does not extend into the proposed graded pad area. There would be no impact to the Prenda Arroyo. However, as the project is located within the mapped Prenda Arroyo, as identified in the Riverside Municipal Code (RMC), Title 17 Grading, Exhibits A-F, a Grading Exception is required, and Grading Exception Findings were prepared for the project.

The comments do not affect the analysis completed or conclusions provided in the Draft Initial Study/Mitigated Negative Declaration (IS/MND), does not provide new information or evidence related to the analysis completed in the IS/MND, and does not reflect on the adequacy or content of the IS/MND. The comments are noted for the record and only minor revisions were warranted to provide additional clarification but does not change the analysis or conclusions in the IS/MND.

Sincerely,

Sonya Hooker

Vice President/ Director of Environmental Services Ruth Villalobos & Associates (RVA), Inc. 3602 Inland Empire Blvd., Suite C310 Ontario, CA 91764