CITY OF PASADENA PLANNING DIVISION HALE BUILDING 175 NORTH GARFIELD AVENUE PASADENA, CA 91101-1704

INITIAL STUDY

In accordance with the Environmental Policy Guidelines of the City of Pasadena, this analysis, the associated "Master Application Form," and/or Environmental Assessment Form (EAF) and supporting data constitute the Initial Study for the subject project. This Initial Study provides the assessment for a determination whether the project may have a significant effect on the environment.

SECTION I – PROJECT INFORMATION

1. Project Title: Tentative Parcel Map #061676

Hillside Development Permit #4395

2. Lead Agency Name and Address: City of Pasadena- Current Planning Section

175 N. Garfield Avenue Pasadena CA 91101

3. Contact Person and Phone Number: David Sinclair, Associate Planner

(626) 744-6766

4. Project Location: 720 South San Rafael Avenue

5. Project Sponsor's Name and Address: Dennis G. Smith

Buff, Smith, & Hensman Architects 1450 W. Colorado Blvd., Suite 200

Pasadena, CA 91105

6. General Plan Designation: Low Density Residential (0-6 dwelling units per net

acre)

7. Zoning: RS-2-HD (Single-Family Residential- Hillside District

Overlay)

8. **Description of the Project:** The City of Pasadena has received an application for a Tentative Parcel Map to allow the lot split of a 110,642 square foot lot into two lots of 86,172 square feet (Parcel A) and 24,514 square feet (Parcel B). The existing house would remain on Parcel A. A Hillside Development Permit application has also been submitted to allow the construction of a new single-family house on Parcel B. The floor area of the proposed residence totals approximately 4,448 square feet with two attached two-car garages that are 480 square feet and 400 square feet for a total of 5,328 square feet.

The proposed home is three stories and does not exceed a maximum height of 28 feet from any point along existing grade. Due to an area of the property having a slope of greater than 2:1, the maximum allowable gross floor area for the site is reduced to 5,470 square feet. A Hillside Development Permit is required for all new homes in the Hillside Overlay zone. The review of this Hillside Development Permit will also include a determination of compliance with the neighborhood compatibility requirement, in accordance with the Hillside Ordinance.

The applicant has also proposed to remove one protected Toyon (Heteromeles Arbutifolia) tree on Parcel B.

- 9. Surrounding Land Uses and Setting: The subject site is a hillside lot with a lot area of 110,642 square feet (2.54 acres) and an average slope of approximately 30%. The lot slopes down to the east to Hillside Terrace. The site is currently developed with a 5,761 square foot single-family residence built in 1955. The lot is surrounded by single-family residences on all sides.
- 10. Other public agencies whose approval is required (e.g. permits, financing approval, or participation agreement): The Pasadena Department of Public Works, Pasadena Department of Transportation, Pasadena Building Division, Pasadena Fire Department, and Pasadena Water and Power Department will review the project.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would involve at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages:

Aesthetics	Geology and Soils	Population and Housing
Agricultural Resources	Hazards and Hazardous Materials	Public Services
Air Quality	Hydrology and Water Quality	Recreation
Biological Resources	Land Use and Planning	Transportation/Traffic
Cultural Resources	Mineral Resources	Utilities and Service Systems
Energy	Noise	Mandatory Findings of Significance

DETERMINATION: (To be completed by the Lead Agency)

On the basis of this initial evaluation:

	I find that the proposed project DOES NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.	X	
ā	I find that, although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures described on an attached sheet have been added to the project. A MITIGATED NEGATIVE DECLARATION will be prepared.		

I find that the proposed project MAY have a significant effect(s) on the environmentAnalysis in the Initial Study shows that one or more impact areas will have a "Potentially Significant Impact" An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that were not analyzed in a previously approved EIR or Negative Declaration for the project at hand. I find that although the proposed project could have a significant effect on the environment, because all						
I find that although the proposed project could have a potentially significant effects (a) have been analyz DECLARATION pursuant to applicable standards, and earlier EIR or NEGATIVE DECLARATION, including upon the proposed project, nothing further is required.	red adequately in an earlier EIR or NEGATIVE (b) have been avoided or mitigated pursuant to that					
Signatura	Data					
Signature Printed Name	Reviewed By / Date					

EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1) 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.
- 3) 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 is 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 Unless 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 Section 20, "Earlier Analysis," may be cross-referenced).
- 5) Earlier analysis 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. See CEQA Guidelines Section 15063(c)(3)(D). Earlier analyses are discussed in Section 20 at the end of the checklist.
 - 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 within 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 measures which were incorporated or refined from the earlier documents and the extent to which 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. A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 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 explanation 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 significant

Tentative Parcel Map #061676 Hillside Development Permit # 4395

Significant Unless Mitigation is Incorporated

Less Than Significant Impact

No Impact

SECTION II - ENVIRONMENTAL CHECKLIST FORM

	Date checklist submitted Department requiring che Planner assigned: David	ecklist: Planning a	nd Development		
2.	ENVIRONMENTAL IMPACTS	6. (explanations of	all answers are req	uired):	
		Potentially Significant Impact	Significant Unless Mitigation is Incorporated	Less Than Significant Impact	No Impact
3.	AESTHETICS. Would the pro	ject:			
	a. Have a substantial advers	e effect on a sceni	c vista? ()		
				\boxtimes	
prop east	Y? The project site is situated in some object site is situated in some or site is situated in some or site is situated in sit	ny existing views are below the prop 0 feet above the h nic resources, incl	as houses to the loosed house and faighest point of the puding, but not limite	north and south vace east, and the expressed house or	vill maintain their existing house on n Parcel B.
	mstone bullangs within a s			\boxtimes	
resc Rec inclu fron resu recc app Pub impa	Y? The proposed project is no curces and therefore does not commended Scenic Highway of udes the removal of one protect tage, but the vast majority of trult in the destruction of any land and any land and the coval by the Zoning Administration where the course of the proposed doures will be reduced to a level	substantially impor unofficial City ed Toyon (Heteronees on the site with dmark eligible trees thetic value. The or and Fire Depart and approval priestruction of trees.	pact any Official Since Designated Scenic meles Arbutifolia) trould remain. Furthes, stand of trees, applicant must subment and grading por to the issuance of rock outcroppings	tate Scenic Highway corridor. The peel located near the proposed prock outcropping comit landscape plans to the Building perror other desirable	vay, L.A. County proposed project e Hillside Terrace project would not or natural feature ans for review and ag Official and the mit. Any negative aesthetic natural

c. Substantially degrade the existing visual character or quality of the site and its surroundings? ()

The proposed site has not been designated as an historic resource. The site does not have structures that

recognized aesthetic natural features.

1.

BACKGROUND.

have been designated as historic resources. The project site is not part of a landmark district.

	Potentially Significant Impact	Significant Unless Mitigation is Incorporated	Less Than Significant Impact	No Impact
			\boxtimes	
WHY? The area where the new lot a development on the site would change steep lot with limited development procession for development to maximize minimize additional grading of the site area ratio for the lot. All other development, height of the main structure, particles with regard to colors, material millside location. The subject site is surrounding area. Development of the surroundings.	ge the existing potential. The building separale. The propos lopment standarking, etc.). Cals, and landscaln a developed	character of the site area where the resation from existing reed dwelling unit is wards are also met for conditions will be addaping to further ensubillside neighborhood	However, the sidence is proposidences in the a ithin the maximum the lot (setbacked during the distret he residence bod, with existing	site is a relatively sed is a suitable area, as well as to am allowable floor ks, encroachment scretionary review will blend with its residences in the
d. Create a new source of subviews in the area? ()	bstantial light o	r glare which would	adversely affect	day or nighttime
			\boxtimes	
WHY? The project will not have a sign with the standards in the Zoning Code and the use of multiple low profile fixture. Exterior lighting shall be properly ship project does not propose any outdoor adverse effect to surrounding properties sources to ensure conformance with lighting will be minimal and directed does not propose any outdoor adverse effect to surrounding properties ources to ensure conformance with lighting will be minimal and directed does not provide the project of the project will be minimal and directed does not project with the project will be minimal and directed does not project will be mini	e that regulate ures is encoural elded to avoid recreation could be. Further, the Zoning Code ownwards. S. In determ	glare and outdoor lig iged, as opposed to glare and the spill outs orts or other similar so e required landscape e requirements. All wining whether impa	hting, specifically the use of fewer, of light to surrour ources of light the plan will be requesterior landscapets to agricultur	y low-level lighting but taller fixtures. Inding areas. The at could cause an uired to show light aping or walkway
Site Assessment Model (1997) prepar to use in assessing impacts on agricu	red by the Calif	ornia Department of	Conservation as	
 Convert Prime Farmland, as shown on the maps pre the California Resources A 	epared pursuan	nt to the Farmland M	apping and Moni	
				\boxtimes
WHY? The City of Pasadena is a dev The western portion of the City contai has commercial recreation, park, natu farmland of statewide importance, as Monitoring Program of the California F b. Conflict with existing zoning	ns the Arroyo S ural and open s s shown on ma Resources Agel	Seco, which runs fron pace. There is no pl aps prepared pursua ncy.	n north to south t rime farmland, un ant to the Farmla	though the City. It nique farmland, or and Mapping and
b. Conflict with existing zoning		USE, OF A WILLIAMSON	□	<i>)</i>
Tentative Parcel Map #061676	Initial Study	, liste 4	3, 2005	Page 6
I CITICALIVE I AICEI WAD #UU IU/U	แแนส อเนน	y JUIV I	J, 2000	raue o

Significant Unless Mitigation is Incorporated

Less Than Significant Impact

No Impact

WHY? The City of Pasadena has no land zoned for agricultural use other than commercial nurseries being allowed by right in the CG (General Commercial) and IG (General Industrial) zones and conditionally in the CO (Office Commercial), CL (Limited Commercial), OS (Open Space) and PS (Public-Semi Public) Zoning Districts.

	 c. Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use? () 					
					\boxtimes	
	here is no known farmland in t nversion of farmland to a non-a	•	na; therefore the p	roposed project wou	ıld not result	
manager	R QUALITY. Where available ment or air pollution control of project:	•		•	• •	
a.	Conflict with or obstruct implen	nentation of the ap	oplicable air quality	plan? ()		
					\boxtimes	
Air Quali Southern requirem	he project must comply with the ity Management Plan (AQMP) a California Association of Governts. The City of Pasadena in the West San Gabriel Valley A) adopted by the rernments. The A is also part of the	South Coast Air Q QMP contains mea	tuality Management asures to meet fede	District and ral and state	
b.	Violate any air quality standard	d or contribute to	an existing or proje	cted air quality viola	tion? ()	
					\boxtimes	
smog fro the south and to P	Due to its geographical location downtown Los Angeles and nwest, carry smog from wide a asadena in the San Gabriel Vafor adverse air quality in Pasad	d other areas in the reas of Los Angel alley where it is tr	he Los Angeles ba les and adjacent cit	sin. The prevailing ties, to the San Ferr	winds, from nando Valley	
standard (SCAQM	na is located in a non-attainme ls. However, the project itself ID) land use threshold for sig ir Quality Handbook.	f does not meet t	he South Coast Ai	r Quality Managem	ent District's	
C.	Result in a cumulatively cons region is non-attainment un (including releasing emissions	ider an applicabl	e federal or state	e ambient air quai	lity standard	
				\boxtimes		

Significant Unless Mitigation is Incorporated

Less Than Significant Impact

No Impact

WHY? The City of Pasadena is within the South Coast Air Basin (SCAB). This basin is a non-attainment area for Nitrogen Dioxide (NO₂) and fine particulates matter (PM₁₀). Projects that contribute to a significant cumulative increase in NO₂ or PM₁₀ will be considered to be significant and require the consideration of mitigation measures. This project may result in temporary short-term increases in particulate matter due to routine construction activities; however the project involves the construction of one-single family residence and will not cause a *cumulatively considerable* increase in NO₂ and/or PM₁₀ during construction and/or operation.

d. Expose sensitive receptors to	substantial poll	utant concentration	s? ()	
				\boxtimes
WHY? According to Figure 5-1 and Tal the project is located near sensitive re is also a single-family residence and w	ceptors (other	single-family reside	nces); however	, the proposed use
e. Create objectionable odors aff	fecting a substa	antial number of peo	ple?()	
WHY? The proposed single-family res Air Quality Handbook Figure 5-5 "L residential structure will not result in the	and Uses Ass	sociated with Odor		
6. BIOLOGICAL RESOURCES. W	ould the projec	t:		
 a. Have a substantial adverse en identified as a candidate, sen regulations, or by the Californ () 	isitive, or specia	al status species in	local or regiona	al plans, policies, or
WHY? The Final Environmental Impact the natural communities within the communities. All development of the suse and management of native plants.	City's boundari	es. The project i	s not located i	near any of these
There are no known unique, rare or er would be adversely affected by the provetlands on or near the site. The project designed to mitigate problems asset	oposed constru ject will be subj	uction of the homes ject to the Hillside [. There are no	bodies of water or
 b. Have a substantial adverse identified in local or regional Fish and Game or U.S. Fish a 	plans, policies	s, and regulations o		
				\boxtimes
Tentative Derect Man #061676	leikiel Ckoolo	Lab. 4	2 2005	Dogo 9

Significant Unless Mitigation is Incorporated

Less Than Significant Impact

No Impact

WHY? See response to 6.a above.

C.	Have a substantial adverse effect Clean Water Act (including, bu removal, filling, hydrological inter	t not limited to, m	arsh, vernal pool,	-	
					\boxtimes
and Mo subject subject	The project is located in a developed bility Element EIR as a natural of to submittal of a landscape plan, with edges not contain wetlands or a linterfere substantially with the more with established native residualities of the nursery sites?	community. The Z which emphasizes wetland habitat. novement of any na	oning Code require the use and manage tive resident or mig	res that new const gement of native pl gratory fish or wildli	ruction be ants. The fe species
					\boxtimes
WHY?	See response to 6. a				
е.	Conflict with any local policies preservation policy or ordinance		rotecting biologica.	l resources, such	as a tree
				\boxtimes	

WHY? The site contains 16 trees protected by the Ordinance No. 6896 "City Trees and Tree Protection Ordinance" as detailed in the below table (numbers correlate to the Tree Inventory submitted with the application).

#	Genus & Species	Common Name	Diameter				
	·			Remain	Move	Replace	Remove
1	Quercus agrifolia	Coast Live Oak	24"	X			
2	Quercus agrifolia	Coast Live Oak	18"	X			
3	Quercus agrifolia	Coast Live Oak	13"	X			
4	Quercus agrifolia	Coast Live Oak	10"	X			
5	Quercus agrifolia	Coast Live Oak	12"	X			
7	Quercus agrifolia	Coast Live Oak	15"	X			
8	Quercus agrifolia	Coast Live Oak	30"	X			
9	Quercus agrifolia	Coast Live Oak	26"	X	-		
13	Quercus agrifolia	Coast Live Oak	16"	X			
18	Heteromeles arbutifolia	Toyon	12"				Х
21	Quercus agrifolia	Coast Live Oak	10"	X			
25	Quercus agrifolia	Coast Live Oak	18"	X			
26	Quercus agrifolia	Coast Live Oak	8"	X			
27	Quercus agrifolia	Coast Live Oak	18"	X			
30	Quercus agrifolia	Coast Live Oak	15"	X			
34	Quercus agrifolia	Coast Live Oak	12"	X			

Significant Unless Mitigation is Incorporated

Less Than Significant Impact

No Impact

A tree removal application for tree #18 (Heteromeles arbutifolia) has been included in the project application. The landscape and tree retention plan that must be submitted prior to the issuance of building permits will be required to emphasize the use and management of native plants.

f.	Conflict with the provisions of Conservation Plan (NCCP), or ()				
				\boxtimes	
Ordinand (<i>Heteror</i> The app	The project proposes to remoce. A tree removal application neles arbutifolia) that is located licant is also proposing to remod trees due to their size, species	has been submitted in the rear of the dove six trees that a	d to allow the remonentations and the description of the description o	oval of tree #18, a nt of the proposed	12" Toyon Parcel B).
native pl This plan permits. includes	ect is required to submit a comp ants. The plan must also show will be reviewed by the Zoning Based on review of the prelimin the replacement of trees and ot a significant impact	the replacement of Administrator and I nary landscape plan	the removed trees i Fire Department pri that was submitted	in the new landscap or to the issuance of d with the applicatio	oe plan. of building on which
7. CL	ILTURAL RESOURCES. Would	ld the project:			
a.	Cause a substantial adverse CEQA Guidelines Section 1506		nificance of a histo	orical resource as	defined in
					\boxtimes
having	There are no known buildings, st a significant historic value to ntly altered by the project.				
b.	Cause a substantial adverse consection 15064.5? ()	hange in the signific	cance of an archae	ological resource p	ursuant to
					\boxtimes
are enco	There are no known prehistoric ountered during grading or cor isturb these sites, shall cease.	nstruction of the pr An archaeologist s	oject, all grading of hall be notified and	or construction effo provisions for reco	orts, which ording and

There are no buildings and/or structures, natural features, works of art or similar objects scheduled for demolition, relocation, removal or significant alteration on the project site, which are of significant archaeological value to the City.

Quality Act Guidelines.

	Impact	Mitigation is Incorporated	Impact	No impact
c. Directly or indirectly destroy a	a unique paleo	ntological resource o	r site or unique ge	eologic feature?
				\boxtimes
WHY? There are no records of ar Therefore, there are no known paleo encountered during grading or construction disturb these sites shall cease. Ar excavating the site shall be made in Quality Act Guidelines.	ontological resoruction of the parchaeologis	ources affected by to project, all grading of st shall be notified a	he project. If ar r construction eff and provisions fo	ny such sites are forts which would or recording and
d. Disturb any human remains, i	ncluding those	interred outside of fo	ormal ceremonies	? ()
WHY? There are no known human rimplementation the Los Angeles Coun			ns are encounter	ed during project
8. ENERGY. Would the proposal:				
a. Conflict with adopted energy	conservation p	olans? ()		
WHY? The project does not conflict proposed intensity of the project is wincity's approved General Plan. Further Energy Code, Part 6 of the Caliform performance standards may include the hot water storage tank equipment, light double-glazed windows.	ithin the intens er the project v nia Building S high-efficiency	sity allowed by the Z will comply with the tandards Code (Title Heating Ventilation	oning Code and energy standards e 24). Measure and Air Condition	envisioned in the in the California is to meet these ning (HVAC) and
b. Use non-renewable resource	es in a wasteful	and inefficient mann	er? ()	
				\boxtimes
Why? <u>Oil-based products</u> : The proprequire development of new energy insignificant consumption of oil-based	sources. C	onstruction of the p	roject will result	in a short-term

Significant

Unless

Less Than

Na Imagast

Potentially

Cianifiaa

<u>Energy:</u> The long-term impact from increased energy use by this project is not significant in relationship to the number of customers currently served by the electrical and gas utility companies. Supplies are available from existing mains, lines and substations in the area. Occupation of the project will result in an insignificant increase in the consumption of natural gas. This consumption will be lessened by adherence to the performance standards of California Energy Code, Part 6 of the California Building Standards Code Title 24. This project will result in the increased consumption of approximately 21 net kilowatt-hours of electrical energy per day (based on a single-family residence with a gas kitchen). This increased consumption will be reduced to an insignificant level by meeting the above referenced energy standards. Measures to meet

for a single-family residence will not cause a significant reduction in available supplies.

Significant Unless Mitigation is Incorporated

Less Than Significant **Impact**

No Impact

these performance standards may include high efficiency Heating Ventilation and Air Conditioning (HVAC) and hot water storage tank equipment, lighting conservation features, higher than required rated insulation and double-glazed windows. The energy conservation measures will be prepared by the developer and shown on a building plan(s). This plan will be submitted to the Water and Power Department and Building Official for review and approval prior to the issuance of a building permit. Installation of energy-saving features will be inspected by a City Inspector prior to issuance of a Certificate of Occupancy.

Water: This project will result in an increase of approximately 260 gallons per day in water consumption. However, this impact will be mitigated during drought periods by the applicant complying with the Water Shortage Procedures Ordinance, which restricts water consumption to 90% of expected consumption during each billing period. Installation of plumbing will be inspected by a Building Division Inspector prior to issuance of a Certificate of Occupancy.

9.	GEOLOGY	AND SOILS	Would the p	roject
----	----------------	-----------	-------------------------------	--------

9. GEOLOGY	AND SOILS. Would t	he project:			
•	e people or structures or death involving:	to potential substa	antial adverse effe	cts, including the r	isk of loss,
Ear sub	oture of a known ear thquake Fault Zoning o estantial evidence of a plication 42. ()	Map issued by the	State Geologist f	or the area or base	d on other
				\boxtimes	
Andreas Fault is	g to the 2002 adopted s a "master" active fau nately 21 miles north of	It and controls seis			
Zones. Pasade mapped for eart	os Angeles and the Citena is in four USGS (hquake fault zones und ales have not yet been i	Quadrants, the Lo ler the Alquist-Prio	s Angeles, and th lo Act in 1977. Th	e Mt. Wilson quad	rants were

The Zon map USC

Adjacent to and partially in the City of Pasadena are two faults, considered active, the Sierra Madre primarily north of the City and the Raymond Fault primarily south of the City. The 2002 Safety Element of the General Plan considers the Sierra Madre Fault to be in a Fault Hazard Management Zone and the Raymond Fault to be in an Alquist-Priolo Earthquake Fault Zone. Within the southwest part of the City, the Eagle Rock Fault is considered potentially active. The proposed project is approximately 5 miles south of the Sierra Madre Fault, 2 1/2 miles south of a potentially active strand of the Sierra Madre Fault, 1 mile north of the Raymond Fault and approximately 850 feet south of the Eagle Rock Fault.

The potential exists for people and property to be exposed to the hazards of seismic activity in most of California. This project will not increase the potential occurrence of earthquakes. The risk of earthquake damage is minimized because the new structure shall be built according to the Uniform Building Code and other applicable codes, and is subject to inspection during construction. Structures for human habitation

must be designed to meet or exceed (California Uniform B	uilding Code st	tandards for Seism	ic Zone 4.			
ii. Strong seismic ground st	Strong seismic ground shaking? ()						
			\boxtimes				
Tentative Parcel Map #061676 Hillside Development Permit # 4395	Initial Study	July	13, 2005	Page 12			

Significant Unless Mitigation is Incorporated

Less Than Significant Impact

No Impact

WHY? See response to 9.a.i.

Tentative Parcel Map #061676

Hillside Development Permit # 4395

As the City of Pasadena is within a larger area traversed by active fault systems, such as the San Andreas and Newport-Inglewood. Any major earthquake along these systems will cause seismic ground shaking in Pasadena. At a minimum the earthquake-resistant design and materials of new projects must meet or exceed the current seismic engineering standards of the California Uniform Building Code Seismic Zone 4 requirements. Much of the City is on sandy, stony or gravelly loam formed on the alluvial fan adjacent to the San Gabriel Mountains. This soil is more porous and loosely compacted than bedrock and thus subject to greater impacts from seismic ground shaking than bedrock.

iii.	Hazards	Seismic-related ground failure, including liquefaction as delineated on the most recent Seismid Hazards Zones Map issued by the State Geologist for the area or based on other substantial evidence of known areas of liquefaction? ()				
						\boxtimes
Seismic H	Hazard Zone	Maps) or Plate	1-3 of the Tech		neral Plan (as base Report to the Cities on.	
located.		ty Municipal Co			at pad where the ons will control any	
Due to th		nd inspections th	here will be no in	ncreased exposur	e to seismic ground	d failure including
iv.					ards Zones Map iss ce of known areas	-
					\boxtimes	
Seismic H Slope Ins the Gene sources t Existing (Seismic H past land	Hazard Zone tability Map eral Plan) the here is not City regulation Hazard map slides.	e Maps), a portion (Plate 2-4 of the eproject is an any known histons will control address not show the end of	on of the project Technical Back area with a "low oric evidence of any slope instabi nis project to be	site is in a Lands ground Report of v" slope instability landslides on the lity; therefore ther located in an area	neral Plan (as base side Hazard Zone. the adopted 2002 S y rating. Accordin e project site or adj re will be no impac n where there is ged	According to the Safety Element of g to these same acent properties. t. In addition the
b.	Result in su	bstantial soil eros	sion or the loss o	of topsoil? ()		
					\boxtimes	
				project will lead s being exported	to 200 cubic yards I. The proposed	of fill and 2,250 house will cover

approximately 2% of the existing property (9% of the new Parcel B) as compared to the present use, which

July 13, 2005

Page 13

Initial Study

Significant Unless Mitigation is Incorporated

Less Than Significant Impact

No Impact

occupies 5% of the existing property (7% of the new Parcel A). The existing building regulations and property site inspections ensure that construction activities do not create unstable earth conditions.

The displacement of soil through cut and fill will be controlled by the City's grading ordinance, Appendix Chapter 33 of the 2001 California Building Code relating to grading and excavation, the Hillside Development Overlay District regulations, other applicable building regulations and standard construction techniques; therefore there will be a less than significant impact.

(Erosion) According to the Final Environmental Impact Report certified for the adoption of the 2004 Land Use and Mobility Elements, the natural water erosion potential of soils in Pasadena is low, unless these soils are disturbed during the wet season. Both the Ramona and Hanford soils associations, which underlay much of the City, have high permeability, low surface runoff and slight erosion hazard due to the gravelly surface layer and low topographic relief away from the steeper foothill areas of the San Gabriel Mountains.

Water erosion during construction will be minimized by limiting construction to dry weather, covering exposed excavated dirt during periods of rain and protecting excavated areas from flooding with temporary berms. Erosion that may occur during periods of rain will also be controlled by proper grading techniques as specified in the grading ordinance, a grading plan submitted to the Building Official and Public Works Department for review and approval prior to the issuance of a building permit and by city inspections and condition monitoring after the issuance of a building permit.

Soil erosion after construction will be controlled by implementation of an approved landscape and irrigation plan. This plan shall be submitted to the Zoning Administrator for review and approval prior to the issuance of a building permit.

C.	c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a rest of the project, and potentially result in on- or off-site landslide, lateral spreading, subsident liquefaction or collapse? ()					
				\boxtimes		
are relative Fault on the with the re- Mountains geotechnic underlain to proposed proposed pr	to State of California Se fap (Plate 1-3) and Slope an) the project is located w ne referenced geotechnica evidence of past landslide	These mountains addre Fault to the so of the San Andrea with erosion has ert D. Cousineau, Cond bedrock. The repeismic Hazard Zone Instability Map (Playhere slopes have to I engineering reportes.	run generally buth. The act as tectonic phelped form consulting Geoport conclude Map (Pasa te 2-4 of the bw slope instacts show this properts.)	east-west and have ion of these two fau late is pushing up the alluvial plain. In otechnical Engineer of that these material dena Quadrangle) adopted 2002 Safet bility. In addition, the oject to not be in an	the San Andreas lts in conjunction the San Gabriel According to the (2004), the site is is will support the and the Seismic by Element of the e Seismic Hazard area where there	
d.	Be located on expansive creating substantial risks to			of the Uniform Build	ling Code (1994),	
				\boxtimes		
	arcel Map #061676 relopment Permit # 4395	Initial Study	Ju	y 13, 2005	Page 14	

Significant Unless Mitigation is Incorporated

Less Than Significant Impact

No Impact

WHY? According to the 2002 adopted Safety Element of the City's General Plan the project site is underlain by alluvial material from the San Gabriel Mountains. This soil consists primarily of sand and gravel and is in the low to moderate range for expansion potential.

e. Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater? ()					
				\boxtimes	
WHY? The City of Pasadena allows regulations found in Ordinances 388 project is not in any of these speciavailable. If the sewer is at a high-sewer.	1 and 4170 and fied areas. New	codified in Pasade construction mus	ena Municipal Cod st be hooked up t	e. The proposed o a sewer if it is	
10. HAZARDS AND HAZARDOUS	MATERIALS. V	Vould the project:			
 a. Create a significant hazard disposal of hazardous mate 		e environment thr	ough the routine tra	ansport, use or	
				\boxtimes	
WHY? The project does not involve amounts of pesticides, fertilizers and landscaping. The project must adhistorage of any hazardous substant underground storage of hazardous metals.	cleaning agents here to applicabl ces. Further the	required for norm e zoning and fire	al maintenance of regulations regard	the structure and ding the use and	
 b. Create a significant hazard and accident conditions invo 					
WHY? The project does not involve public or the environment through release hazardous material.					
c. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school? ()					
				\boxtimes	
WHY? The project does not emit haz substance, or waste and is not within				ardous materials,	
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? ()					

		Potentially Significant Impact	Significant Unless Mitigation is Incorporated	Less Than Significant Impact	No Impact
					\boxtimes
	ne project site is not located ublished by California Envir				stances Sites Lis
e.	For a project located with within two miles of a puhazard for people residing	ıblic airport or pı	ublic use airport, w	ould the project	
					\boxtimes
use airpo Powers A required o located a open for p	ne project site is not within it. As of July 2005 the routhority with representative many high-rise buildings to the eastern edge of the bublic use. For a project within the vicing people residing or working	nearest public us les from the Citie is for evacuating of Arroyo Seco nea inity of a private a	e airport is in Burb es of Burbank, Glen occupants in case of the City's border irstrip, would the pr	pank, which is op dale and Pasade femergency. The with Altadena. T	erated by a Join na. Helipads are e police heliport is his heliport is no
					\boxtimes
	ne project site is not within to City of Pasadena.	the vicinity of a pr	rivate airstrip. Pres	ently, there are no	private airstrips
	Impair implementation of o		ere with an adopted	emergency respo	onse plan or
					\boxtimes
ensure co	ne project is located within ompliance with zoning, build eview prior to the issuance	ding and fire code	es the applicant is r	equired to submit	appropriate plans

project will not have a significant impact on emergency response and evacuation plans.

The City of Pasadena maintains a citywide emergency response plan, which goes into effect at the onset of a major disaster (e.g., a major earthquake). The Fire Marshall maintains the disaster plan. In case of a disaster, the Fire Marshall is responsible for implementing the plan, and the Pasadena Police Department devises evacuation routes based on the specific circumstance of the emergency.

The City has pre-planned evacuation routes for dam inundation areas associated with Devil's Gate Dam, Eaton Wash, and the Jones Reservoir. According to the adopted 2002 Safety Element of the General Plan, the project site is not within any of these dam inundation areas.

There are no areas in the City designated as eligible for flood insurance by the Federal Emergency Management Administration (FEMA).

		Potentially Significant Impact	Significant Unless Mitigation is Incorporated	Less Than Significant Impact	No Impact
h.	Expose people or structures including where wildlands are wildlands? ()				
				\boxtimes	
fire haza and has presentl Building Zoning	According to the 2002 adopted area. The project is in a significant vegetation in some y determined to be a fire had and Fire Department regular Administrator and the Fire Department fire hazard.	developed hillsid e areas. The pro zard. Further, th tions and all lar	le area; however oposed developm ne structure (inclundscaping must b	the subject site is ent will clear any v ding roof material be reviewed and a	presently vacant regetation that is s) must meet all approved by the
11. HY	DROLOGY AND WATER QU	JALITY. Would th	ne project:		
a.	Violate any water quality star	ndards or waste o	discharge requiren	nents? ()	
					\boxtimes
project r	The project will not violate a must comply with federal Wate ion System (NPDES) permit ions.	er Pollution Cont	rol Act (Clean Wa	ter Act) National P	ollution Disposal
project. County	re no bodies of water near the However, if there is water r Flood Control Channels into fresh or marine water.	unoff from the s	site, this runoff ma	ay be discharged	via Los Angeles
National plan for	na has adopted the Standard Pollutant Discharge Eliminat implementing Best Managen Department.	ion System (NPI	DES). The propo	sed project is requ	ired to submit a
b.	Substantially deplete ground such that there would be a ne level (e.g., the production ra support existing land uses or	et deficit in aquife te of pre-existing	er volume or a low n nearby wells wo	rering of the local g uld drop to a level	roundwater table which would not
WHY? The project will use the existing water supply system provided by the Pasadena Department of Water and Power and the existing sewer provided by the Public Works Department. Therefore, there will be no direct additions or withdrawals from the ground waters. Moreover there is no known aquifer condition in the project site or in the surrounding area, which could be intercepted by excavation for the project.					