

COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123 **KATHLEEN MOLLOY PREVISICH, PLANNING DIRECTOR**

NOTICE OF ENVIRONMENTAL REVIEW PERIOD

SANTA CRUZ COUNTY

APPLICANT:_	Steve Elmore
APPLICATION	NO.:07-0406
PARCEL NUMB	3ER (APN):030-061-02
The Environme following prelim	ntal Coordinator has reviewed the Initial Study for your application and made the inary determination:
XX	Negative Declaration (Your project will not have a significant impact on the environment.)
	XX Mitigations will be attached to the Negative Declaration.
	No mitigations will be attached.
	Environmental Impact Report (Your project may have a significant effect on the environment. An EIR must be prepared to address the potential impacts.)
Act (CEQA), the finalized. Please wish to commer	environmental review process required by the California Environmental Quality is is your opportunity to respond to the preliminary determination before it is e contact Matt Johnston, Environmental Coordinator at (831) 454-3201, if you not on the preliminary determination. Written comments will be received until 5:00 day of the review period.
Review Period E	Ends:
Staff Planner:	Robin Bolster-Grant
Phone:	(831) 454-5357
Date:	December 22, 2010

NAME:

Bei-Scott at 41st and Soquel

APPLICATION:

07-0406

A.P.N:

030-061-02, 03, 04, 11, 14

NEGATIVE DECLARATION MITIGATIONS

- 1. In order to ensure all geotechnical, grading, and erosion control requirements are in place, the applicant shall organize a pre-grading/pre-construction meeting to be held onsite with County Engineering and Environmental Planning Staff, and the project team prior to any land disturbance.
- 2. In order to mitigate impacts of nighttime lighting on the adjacent riparian habitat, prior to issuance of a building permit, the applicant shall submit a lighting plan to the Planning Department for review and approval. The plan shall reflect that permanent outdoor lighting shall be minimized and shall be shielded by fixture design or other means to minimize illumination of riparian habitat. Light sources that do not attract insects (e.g. yellow or sodium vapor bulbs) shall be used if outdoor lighting is necessary (e.g. security or handicap access structures).
- 3. In order to mitigate impacts of potentially hazardous materials, the applicant shall ensure that paint, stains, and other materials used during construction are recycled at an appropriate facility after use. Prior to building permit final, the applicant or owner shall submit recycling receipts to the project planner.
- **4.** In order to mitigate the impacts of temporary construction debris to less than significant, the applicant shall submit a plan to recycle and/or reuse excess post-construction materials, for review and approval by Planning Staff prior to building permit issuance.
- 5. In order to minimize the impact of construction activities on air quality, the following mitigation measures will be imposed: Water graded/excavated areas at least twice daily, prohibit all grading activities during periods of high wind (over 15 mph), haul trucks shall maintain at least 2'-0" of freeboard, cover all trucks hauling dirt, sand, or loose materials, plant vegetative ground cover in disturbed areas as soon as possible, cover inactive storage piles, install wheel washers at the entrance to construction site for all exiting trucks, and pave or apply base rock to all roads at construction site.
- 6. In order to ensure that the demolition of existing structures does not violate any air quality standard, the following mitigation measures will be required: Prior to demolition work of buildings constructed prior to 1980, areas of the on-site structures shall be sampled as part of an asbestos survey in compliance with the National Emission Standards for Hazardous Air Pollutants (NESHAP). If asbestos is found in any building, asbestos-related work, including demolition, involving 100 square feet or more of asbestos containing materials shall be performed by a licensed asbestos consultant and asbestos shall be removed and disposed of in

compliance with applicable State laws. At least 10 days prior to demolition of existing structures the Monterey Bay Unified Air Pollution Control District (MBUAPCD) shall be notified and an MBUAPCD Notification of Demolition and Renovation Checklist shall be submitted to both MBUAPCD and the County.



County of Santa Cruz

PLANNING DEPARTMENT

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www.sccoplanning.com

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) ENVIRONMENTAL REVIEW INITIAL STUDY

Date:	December 6,	, 2010	Application	Number:	07-040	6

Staff Planner: Robin Bolster-Grant

	ł.	OVERVIEW	AND	ENVIRONMENTAL	DETERMINATION
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APPLICANT: Steven Elmore **APN(s)**: 030-061-02, 030-161-3, 030-061-

04, 030-061-11 and 030-061-14

OWNER: Bei-Scott Company, LLC SUPERVISORAL DISTRICT: 1st

PROJECT LOCATION: Property located on the north side of Soquel Drive at the

intersection with 41st Avenue, at 4101 Soquel Drive.

SUMMARY PROJECT DESCRIPTION: Proposal to demolish one retail building, two residences, eight accessory structures and one commercial storage structure and construct four new commercial structures, one of 2,692 square feet (Bldg A), one of 2,440 square feet (Bldg B), one of 5,349 square feet (Bldg C) and one of 4,185 square feet (Bldg D). Project includes approximately 6,000 cubic yards of excavation. Requires a Commercial Development Permit, Preliminary Grading Review, Design Review, Soils Report Review and a Riparian Exception

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED: All of the following potential environmental impacts are evaluated in this Initial Study. Categories that are marked have been analyzed in greater detail based on project specific information.

\boxtimes	Geology/Soils		Noise
\boxtimes	Hydrology/Water Supply/Water Quality	\boxtimes	Air Quality
	Biological Resources		Greenhouse Gas Emissions
	Agriculture and Forestry Resources		Public Services
	Mineral Resources		Recreation
	Visual Resources & Aesthetics		Utilities & Service Systems

CEQ Page	A Environmental Review Initial Study 2		
	Cultural Resources Hazards & Hazardous Materials Transportation/Traffic		Land Use and Planning Population and Housing Mandatory Findings of Significance
DIS	CRETIONARY APPROVAL(S) BEING CO	NSI	DERED:
	General Plan Amendment		Coastal Development Permit
	Land Division	\boxtimes	Grading Permit
	Rezoning	\boxtimes	Riparian Exception
\boxtimes	Development Permit		Other:
NOI	N-LOCAL APPROVALS		
Othe	er agencies that must issue permits or autl	noriza	ations:
	terey Bay Regional Air Quality Control Bo ovation required for demolition of existing		
Wat	require a Construction Activities Storm Wer Resources Control Board if construction ter than one acre.		
	fornia Department of Fish & Game. May re v the proposed grading activities within the		
	ERMINATION: (To be completed by the least basis of this initial evaluation:	ead a	gency)
	I find that the proposed project COULD Nenvironment, and a NEGATIVE DECLAR		•
\boxtimes	I find that although the proposed project of environment, there will not be a significant the project have been made or agreed to NEGATIVE DECLARATION will be prepared	it effe by th	ect in this case because revisions in
	I find that the proposed project MAY have and an ENVIRONMENTAL IMPACT REP		
	I find that the proposed project MAY have "potentially significant unless mitigated" in one effect 1) has been adequately analyz applicable legal standards, and 2) has be based on the earlier analysis as described ENVIRONMENTAL IMPACT REPORT is effects that remain to be addressed.	npacted in en ac	on the environment, but at least an earlier document pursuant to Idressed by mitigation measures attached sheets. An

CEC Pag	QA Environmental Review Initial Study e 3
	I find 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.
	tthew Johnston J2/20/20/0 Date Date

II. BACKGROUND INFORMATION

EXISTING SITE CONDITIONS Parcel Size: 2.3 acres (five parcels under co Existing Land Use: Mixed commercial and re Vegetation: Eucalyptus grove interspersed w Slope in area affected by project: 0 - 30% Nearby Watercourse: Unnamed ephemeral t Distance To: Tributary located at the back of approximately 0.5 miles to the east of the site	sidential with oak trees adjacent to arroyo size 31 – 100% tributary to Soquel Creek f the project site. Soquel Creek is
ENVIRONMENTAL RESOURCES AND COM	
Water Supply Watershed: No	Fault Zone: No
Groundwater Recharge: No	Scenic Corridor: No
Timber or Mineral: No	Historic: No
Agricultural Resource: No	Archaeology: Portion mapped
Biologically Sensitive Habitat: Riparian	Noise Constraint: No
corridor associated with unnamed	
ephemeral stream at north of property	Electric Decreations of No.
Fire Hazard: No	Electric Power Lines: No
Floodplain: No	Solar Access: Adequate
Erosion: Low Potential	Solar Orientation: South
Landslide: None	Hazardous Materials: Low Potential
Liquefaction: Low	Other:
SERVICES	
Fire Protection: Central Fire	Drainage District: Zone 5
School District: Soquel Elementary	Project Access: Soquel Drive
Sewage Disposal: Santa Cruz County	Water Supply: Santa Cruz Water Dept.
Sanitation District	
PLANNING POLICIES	
Zone District: C-2 (Community Commercial)	Special Designation: None
General Plan: C-C (Community	Opedial Bodignation. Hono
Commercial)/O-U (Urban Open Space)	
Urban Services Line: Inside	Outside
2 Maido	
Coastal Zone: Inside	

ENVIRONMENTAL SETTING AND SURROUNDING LAND USES:

The project site is comprised of five separate parcels located within the Soquel Planning Area. The parcels are under common ownership and will be combined into a single lot. The project site fronts Soquel drive, an arterial County-maintained road and includes a private right-of-way, which provides primary access to 14 residences. The southern three-fourths of the site is generally level, with the rear (northern) part of the lot sloping sharply (30-50%) toward the arroyo associated with the ephemeral drainage. The arroyo crosses through APNs 030-061-04 and 030-061-14. A dense grove of eucalyptus trees and oaks is located in and around the arroyo. The site is bounded by residences to the north, a vacant parcel to the east, and commercial buildings to the south (paint store and Redwood shopping center) and west (automotive repair shop).

The subject parcels are currently developed with a legal, non-conforming residence and duplex, a vacuum repair shop, a commercial storage structure and several accessory structures. With the exception of the eucalyptus and oak grove to the north, the parcels contain little natural vegetation

PROJECT BACKGROUND:

The existing structures on the five parcels date from the late 1940s to the early 1960s and include a duplex, two commercial buildings and a non-conforming single-family dwelling. The structures are all considered to be legal, non-conforming. Past commercial uses on the site have included an ice-cream shop, Christmas tree lot, furniture refinishing and sales shop, dress shop, and vacuum cleaner repair business.

Planned Urban Roadway Improvements specified in the Santa Cruz County General Plan include a future two-lane collector street, extending 41st Avenue through the subject site. The extension was envisioned to serve the O'Neill Ranch redevelopment project to the north of the subject site, however that project was abandoned. The General Policy remains in place; therefore any development approved on the subject site must be designed to accommodate any such future roadway expansion.

In April 2000, an application was made to construct a Home Depot on 14 parcels, including APNs 030-061-02, 030-061-03, and 030-061-04. The application was subsequently abandoned in October of 2001. In 2005, A Design Review Group (DRG) was held to discuss an earlier iteration of the subject proposal and comments were gathered from various reviewing agencies and incorporated into the current application.

The subject application was made in August 2007.

DETAILED PROJECT DESCRIPTION:

The applicant proposes to demolish all existing structures on the five subject parcels and to construct four new commercial structures, one of 2,692 square feet (Bldg A), one of 2,440 square feet (Bldg B), one of 5,349 square feet (Bldg C) and one of 4,185 square feet (Bldg D). Tenants have not yet been identified for the commercial space; however the project includes a Master Occupancy Program, which will allow all commercial uses permitted for the C-2 (Community Commercial) zone district as

provided in Section 13.10.332 of the County Code, with the exception of any use that would exceed the 64 proposed parking spaces.

The proposal includes construction of a driveway located at the intersection of Soquel Drive and 41st Avenue, which is currently a signalized T-intersection with northbound, eastbound and westbound approaches. The project driveway will form the fourth leg, the southbound approach of the intersection, with new signal standards, signage and pedestrian improvements proposed at the entrance to the site. Additionally two new driveways would connect the shopping center to Greenbrae Lane, the private right-of-way to the west. Travel along the western driveways would be restricted to incoming traffic from Greenbrae. The only outgoing traffic from the subject site onto Greenbrae would be emergency vehicle traffic.

The parking and driveways areas would consist of both asphalt and pervious pavement, with pervious pavement areas set back from the rear slope at the north of the property. Drainage from the site is designed to discharge to the ephemeral drainage at the north of the site, with a plastic membrane placed along edges of the pervious pavement to prevent collected water from flowing out from under the pavement. Roof runoff would discharge onto the pervious pavement.

Additional drainage improvements at the site include the placement of 9 new area drains. The two northern area drains would be fitted with silt and grease traps and discharge into two outlets placed within an existing drainage swale at the northern portion of the site. The outlets connect to two 12-inch culverts emptying via a 12-inch tee into energy dissipaters made of rubble riprap and broken stone.

Because of the extent of non-engineered fill on the property, the proposed improvements require approximately 6,000 cubic yards of excavation and stripping, 6,000 cubic yards of fill and recompaction, with about 3,000 cubic yards of material proposed to be exported off site. Grading is required to re-contour and stabilize unconsolidated fill adjacent to the arroyo at the north end of the site. The existing slope will be re-graded to a 2:1 slope and a retaining wall is proposed to be constructed along the top of the slope, at a maximum height of 5'-6". The applicant also proposes to remove approximately 25-30 eucalyptus and oak trees from the rear slope to accommodate the re-contouring and slope stabilization. A revegetation plan has been prepared for this portion of the site and includes replanting eleven Coast live oaks and seven California buckeyes along with shrubs and ground cover. Additional landscaping is proposed throughout the site, with concentrations of plantings along the eastern side of Greenbrae Lane and the Soquel Drive frontage in order to soften the visual impact of the shopping center.

In conjunction with the General Plan Policy that calls for the possible future extension of 41st Avenue through the site, the proposal includes an offer of dedication of a 28-foot right-of-way and a 5-foot sidewalk easement coincident to the area of possible roadway expansion. The County is not currently in a position to accept the dedication; therefore the offer will be held until future consideration of the extension. The project also includes frontage right-of-way dedications along Soquel Drive and the abandonment of an existing 20-foot right-of-way at the eastern portion of the site.

Potentially Significant Impact Less than
Significant
with
Mitigation
Incorporated

Less than Significant Impact

No Impact

III. ENVIRONMENTAL REVIEW CHECKLIST

A. GEOLOGY AND SOILS

Would the project:

11001	uo	project.			
1.	pot incl	pose people or structures to ential substantial adverse effects, uding the risk of loss, injury, or ith involving:			
	A	Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning 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.			
	В.	Strong seismic ground shaking?		\boxtimes	
	C.	Seismic-related ground failure, including liquefaction?			
	D.	Landslides?		\boxtimes	

Discussion (A through D): The project site is located outside of the limits of the State Alquist-Priolo Special Studies Zone (County of Santa Cruz GIS Mapping, California Division of Mines and Geology, 2001). However, the project site is located approximately 8.4 miles southwest of the San Andreas fault zone, and approximately 13.3 miles northeast of the San Gregorio fault zone. While the San Andreas fault is larger and considered more active, each fault is capable of generating moderate to severe ground shaking from a major earthquake. Consequently, large earthquakes can be expected in the future. The October 17, 1989 Loma Prieta earthquake (magnitude 7.1) was the second largest earthquake in central California history.

All of Santa Cruz County is subject to some hazard from earthquakes. However, the project site is not located within or adjacent to a county or state mapped fault zone. A geotechnical investigation for the proposal was performed by Dees & Associates (Attachment 3). The report concluded that geological hazards, such as seismically induced ground cracking, fault rupture and liquefaction do not present a greater than ordinary risk to the proposed structures.

Relocated on a geologic unit or soil

Potentially Significant Impact Less than
Significant
with
Mitigation
Incorporated

Less than Significant Impact

No Impact

The fill slope at the rear of the site shows signs of moderate to severe erosion and is proposed to be re-graded to provide a stable 2:1 slope. Plan review letters submitted by the project geotechnical engineer indicate that the proposed grading and erosion control plans conform to the recommendations made in the geotechnical report and subsequent addenda. Additionally, a retaining wall is proposed along the top of the recontoured slope to ensure additional long-term stability and to prevent impacts to the adjacent riparian system.

Implementation of the additional requirements included in the review letter prepared by Environmental Planning staff (Attachment 4) will serve to further ensure that the proposed development will not expose people or structures to substantial adverse effects due to geological hazards.

	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?	L_J			
the p in the gradi signi subn the re	cussion: The report cited in Section A1 con property is susceptible to landsliding and en- e geotechnical report, including the remova- ing the slope, will be implemented to reduc- ficant level. Conditions of project approval in hitted to ensure that the plans submitted with eport recommendations and require a pre- ing contractor and the County Geologist.	osion. The I of non-c e this pote require a t th the buil	e recomme ompetent f ential hazai final plan re ding applic	ndations co ill material rd to a less eview letter ation comp	ontained and re- than be bly with
3.	Develop land with a slope exceeding 30%?			\boxtimes	
impro	ussion: There are slopes that exceed 30% ovements are proposed on slopes in excess will be re-graded as discussed in Section a	s of 30%.			t the
4.	Result in substantial soil erosion or the loss of topsoil?			\boxtimes	
D:	and the contract of the	6.11			

Discussion: The unstable fill slope to the north of the project shows signs of previous erosion. Therefore the slope would be re-graded to a 2:1 (horizontal to vertical) slope angle and compacted engineered fill would be placed at the top of the slope, providing a more stable profile. Additionally, a 5'-5" tall retaining wall will be constructed along the top of the slope to provide additional stability. The drainage system includes a number of area drains and culverts to prevent sheet flow and a large amount of the parking area would be constructed of pervious pavement. Surface runoff from the parking areas would be collected and discharged at the base of the slope of the

CEQA Page 9	Environmental Review Initial Study	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
(horiz	age valley. Project conditions of approval re contal to vertical) be protected from erosion cative cover can be established.				2:1
5.	Be located on expansive soil, as defined in Section 1802.3.2 of the California Building Code (2007), creating substantial risks to life or property?				
	ussion: The geotechnical report for the prociated with expansive soils.	ject did no	ot identify a	iny elevate	ed risk
6.	Place sewage disposal systems in areas dependent upon soils incapable of adequately supporting the use of septic tanks, leach fields, or alternative waste water disposal systems where sewers are not available?				
Cruz (Ission: No septic systems are proposed. Tounty Sanitation District, and the applicant connection and service fees that fund san Condition of Approval for the project.	it would be	e required	to pay star	ndard
7.	Result in coastal cliff erosion?				
	ussion: The proposed project is not located nerefore, would not contribute to coastal clif		inity of a c	oastal cliff	or bluff;
	TOROLOGY, WATER SUPPLY, AND WAT the project:	TER QUA	LITY		
1.	Place development within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				
Nation	ssion: According to the Federal Emergend nal Flood Insurance Rate Map, dated March thin a 100-year flood hazard area. Therefo	12, 2006,	no portion	of the pro	

11/85

CEQ/ Page	A Environmental Review Initial Study 10	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
2.	Place within a 100-year flood hazard area structures which would impede or redirect flood flows?				\boxtimes
Natio	cussion: According to the Federal Emerger onal Flood Insurance Rate Map, dated Marc within a 100-year flood hazard area. Theref	ch 2, 2006	, no portion	of the pro	A) oject site
3.	Be inundated by a seiche, tsunami, or mudflow?				\boxtimes
Disc ocea	ussion: The project site is located 1.25 mil n bluff. Therefore no impact is anticipated.	es inland a	and is not i	n the vicini	ity of an
4.	Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?				
rely o replace the C use, v reside	ussion: The project would obtain water from private well water. Additionally, the proposes three legal residences and a commercial of Santa Cruz, commercial and industrial whereas residential water use accounts for ential uses with the proposed commercial uses the water use on the site, and may resurted.	osed comi al use on t il water us 65%. The se is not e	mercial develone the property e accounts refore, replex pected to	relopment y. Accordin for 26% c acing the c substantia	ng to of total existing
5.	Substantially degrade a public or private water supply? (Including the contribution of urban contaminants, nutrient enrichments, or other agricultural chemicals or seawater intrusion).				
public	rssion: The project would not discharge run or private water supply in that the site is no rge zone or water supply watershed.	noff either ot located	directly or within a gro	indirectly i oundwater	nto a

CEQA I Page 1°	Environmental Review Initial Study 1	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
6.	Degrade septic system functioning?				
	ssion: There is no indication that existing ed by the project.	septic sys	stems in the	e vicinity v	vould be
7.	Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding, on- or off-site?				
the site substa would draina energy channe prelimi Staff a calcula	e, but would not substantially alter the existential amount of the parking area uses per be directed to a series of area drains that ge swale to the north of the site. The stormy dissipaters in order to slow the rate of flowel. Drainage calculations, submitted by the inarily approved by the Department of Publications for review and approval by the Publications for review and approval by the Publications prior to building/grading permit issuated.	sting drain vious pave collect an n drains w w into the e applican blic Works to submit	age patteri ement and d discharge ould disch ephemera t, have bee Storm Wa final draina	n of the sit storm wat e into the arge to twal drainage en reviewe ter manag ge plans a	te. A ter runoff existing to large ed and gement and
8.	Create or contribute runoff water which would exceed the capacity of existing or planned storm water drainage systems, or provide substantial additional sources of polluted runoff?				

Discussion: Drainage Calculations prepared by Roper Engineering, dated August 25, 2008, have been reviewed for potential drainage impacts and accepted by the Department of Public Works (DPW) Drainage Section staff. The calculations show that post-development runoff rates will not exceed pre-development rates. The runoff rate from the property would be controlled by the use of pervious pavement for a large portion of the proposed parking area. Additionally, building downspouts would be directed onto the pervious paved areas. DPW staff has determined that existing storm water facilities are adequate to handle the increase in drainage associated with the project. Refer to response B-5 for discussion of urban contaminants and/or other polluting runoff.

CEQA Page	L Environmental Review Initial Study 12	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
9.	Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?				
flood rates acco	ussion: The ephemeral stream to the north plain. Additionally, post-development runo ; therefore any increased runoff associated mmodated by the proposed drainage facili unding people or structures.	ff rates do d with the p	not exceed proposed p	l pre-deve roject will	lopment be
10.	Otherwise substantially degrade water quality?			\boxtimes	
the si Mana ephei subm issua	ussion: Silt and grease traps are propose ite, and a plan for maintenance will be required and a plan for maintenance will be required and section in order to minimize the elemental drainage. Additionally, a detailed entitled for approval by Environmental Planning. Therefore, the potential for contaminatory watercourse is low.	uired by the effects of un osion cont ing staff pr	e DPW Sto rban polluta rol plan is r ior to buildi	rm Water ants on the equired to ng permit	e o be
	OLOGICAL RESOURCES d the project:				
1.	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?				
Discu	ussion: According to the California Natura	I Diversity	Data Base	(CNDDB)	,

Discussion: According to the California Natural Diversity Data Base (CNDDB), maintained by the California Department of Fish and Game, there are no known special status plant or animal species in the site vicinity, and there were no special status species observed in the project area.

The lack of suitable habitat and the disturbed nature of the site make it unlikely that any special status plant or animal species occur in the area.

CEQA Page	A Environmental Review Initial Study 13	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
2.	Have a substantial adverse effect on any riparian habitat or sensitive natural community identified in local or regional plans, policies, regulations (e.g., wetland, native grassland, special forests, intertidal zone, etc.) or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?				
propo 15 th). plan i move meas	ussion: The project is located in the vicinity rdance with Section 16.20.080(o) of the Coosed grading activities are restricted to dry so Additionally the County Erosion Control Orindicating proposed methods for the control ement be submitted and approved prior to issures will reduce the potential for erosion are osed grading activities to a less than signification.	unty Grad season (A dinance re f of runoff, ssuance of nd sedime	ing Regula prìl 15 th thro equires an erosion, an f building po	tions, the ough Octo erosion co nd sedime ermits. Th	ber ontrol nt ese
amou increr would the po	ommercial or industrial activities are proposint of contaminants. The parking and driver mentally contribute urban pollutants to the education by the driveway of the driveway of the impacts to the riparian corridor from and a plan for maintenance are proposed a for.	way assocenvironme and parkin urban co	iated with t nt; howeve ng area. In ntaminants	the project r, the cont order to r , silt and c	t would ribution educe trease
3.	Interfere substantially with 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 or migratory wildlife nursery sites?				
with th	ussion: The proposed project does not invo ne movements or migrations of fish or wildli ry site.	lve any ad fe, or imp	ctivities that ede use of	t would int a known w	erfere vildlife

CEQ/ Page	A Environmental Review Initial Study 14	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
4.	Produce nighttime lighting that would substantially illuminate wildlife habitats?				
adved defle such exter source source lighter feet,	erussion: The development area is adjacent ersely affected by a new or additional source eted or minimized. The following mitigation that any potential impact will be reduced the fighting shall be directed away from the ces shall not be visible from the riparian areas must be shielded by landscaping, fixtured parking areas shall utilize low-rise light exterior lighting shall be high-pressure sockalent energy-efficient fixtures.	ce of light to measure to a less the corridor a ea or surrore design of standards	hat is not a es will be ad an significa and adjacer bunding pro or other phy to a maxim	dequately deed to the ant level: A properties, lig ysical mea um height	e project II es, light eht ns, of 15
5.	Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				
Disc	ussion: No wetlands are identified on site	•			
6.	Conflict with any local policies or ordinances protecting biological resources (such as the Sensitive Habitat Ordinance, Riparian and Wetland Protection Ordinance, and the Significant Tree Protection Ordinance)?				
Disc	ussion: The proposed development includ	les grading	activities i	n proximit	y to a

Discussion: The proposed development includes grading activities in proximity to a riparian corridor and is therefore regulated by several County ordinances protecting biological resources. The project would not conflict with County ordinances or policies in that the proposed development complies with the mandatory findings supporting approval of a Riparian Exception pursuant to Section 16.30.060 of the County Riparian Corridor and Wetlands Protection Ordinance. The Riparian Protection Ordinance requires adequate restoration and revegetation of the disturbed portions of the corridor and a detailed restoration plan will be submitted for review and approval by Environmental Planning staff prior to building permit issuance.

The riparian corridor is defined as Sensitive Habitat under Chapter 16.32 of the County Code. The proposal complies with the provisions of the Sensitive Habitat Protection Ordinance in that the protective measures discussed under C2 and C4 above will help

Potentially Significant Impact Less than
Significant
with
Mitigation
Incorporated

Less than Significant Impact

No Impact

to minimize any disturbance or degradation of the riparian corridor as a result of the proposed commercial development.

7. Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

Discussion: The proposed project would not conflict with the provisions of any adopted Habitat Conservation Plan Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan. Therefore, no impact would occur.

D. AGRICULTURE AND FOREST RESOURCES

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

1. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

Discussion: The project site does not contain any lands designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency. In addition, the project does not contain Farmland of Local Importance. Therefore, no Prime Farmland, Unique Farmland, Farmland of Statewide or Farmland of Local Importance would be converted to a non-agricultural use. No impact would occur from project implementation.

<i>CEQA</i> Page	A Environmental Review Initial Study 16	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
2.	Conflict with existing zoning for agricultural use, or a Williamson Act contract?				
cons Willia	ussion: The project site is zoned Communidered to be an agricultural zone. Additional amson Act Contract. Therefore, the project gricultural use, or a Williamson Act Contract.	ally, the produced does not d	oject site's conflict with	land is not existing z	under a
3.	Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?				
	ussion: The project is not adjacent to land do not affect timber resources.	designate	ed as Timbe	er Resourd	e and
4.	Result in the loss of forest land or conversion of forest land to non-forest use?				
	ussion: No forest land occurs on the project is anticipated.	ct site or ir	n the imme	diate vicini	ty. No
5.	Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to nonagricultural use or conversion of forest land to non-forest use?				

Discussion: The project site and surrounding area within radius of 1 mile does not contain any lands designated as Prime Farmland, Unique Farmland, Farmland of Statewide Importance or Farmland of Local Importance as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency. Therefore, no Prime Farmland, Unique Farmland, Farmland of Statewide, or Farmland of Local Importance would be converted to a non-agricultural use. In addition, the project site contains no forest land, and no forest land occurs within 1 mile of the proposed project site. Therefore, no impacts are anticipated.

CEQA Page	A Environmental Review Initial Study 17	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
	IINERAL RESOURCES Id the project:				
1.	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?				\boxtimes
value	ussion: The site does not contain any known to the region and the residents of the state project implementation.				
2.	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?				
consi Desig There locall	ussion: The project site is zoned Commun dered to be an Extractive Use Zone (M-3) in gnation with a Quarry Designation Overlay (efore, no potentially significant loss of available by important mineral resource recovery (extracted plan, specific plan or other land use plan	nor does i (Q) (Coun ability of a raction) sil	t have a La ty of Santa known mir te delineate	nd Use Cruz 199 eral resou d on a loc	4). urce of cal
	SUAL RESOURCES AND AESTHETICS d the project:				
1.	Have an adverse effect on a scenic vista?				
desig	ussion: The project would not directly impa nated in the County's General Plan (1994), I resources.				
2.	Substantially damage scenic resources, within a designated scenic corridor or public view shed area including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				
public	ussion: The project site is not located along viewshed area, scenic corridor, within a de a state scenic highway. Therefore, no imp	esignated	scenic reso		

CEQA Page	Environmental Review Initial Study 18	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
3.	Substantially degrade the existing visual character or quality of the site and its surroundings, including substantial change in topography or ground surface relief features, and/or development on a ridgeline?				
site is lands activit by inc	ussion: The existing visual setting is an unstance and a riparian corridor; however to a riparian corridor; however to caped to provide a barrier between the coties. The resulting development would encorporating natural landscaping, maintaine ut degrading the natural topography or natural.	he propose rridor and hance the ed over the	ed project is the propose visual char life of the o	s designed ed comme acter of the development	d and ercial ee area ent,
4.	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?		. <u> </u>		
the virtual the vi	sussion: The project would contribute an insual environment. Section 13.11.074 of the scape Design Review Ordinance requires sures: All exterior lighting shall be directed erties, light sources shall not be visible from the shielded by landscaping, fixture designing areas shall utilize low-rise light standard or lighting shall be high-pressure sodium valent energy-efficient fixtures. The project in Review measures, which will help to mind to the environment by the proposed com	ne County sthe following away from surround or other parts to a maximal will be contimize the	Site, Architong exterior of the corridging propert hysical medimum heigh halide, fluditioned to amount of the corrections.	ectural an lighting de or and ad ies, light s ans, lighte ht of 15 fe uorescent comply w night light	d esign jacent sources ed eet, or vith these
	JLTURAL RESOURCES d the project:				
1.	Cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5?				

Discussion: The existing structures on the property are not designated as a historic resource on any federal, state or local inventory.

CEQA Page	Environmental Review Initial Study 19	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
2.	Cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5?				
Howe likelih Pursu resou imme	ussion: A portion of the site is mapped as ever, the mapped areas have been extension of significant impacts associated with uant to Section 16.40.040 of the Santa Crustres are uncovered during construction, the diately cease and desist from all further site cation procedures given in County Code Characteristics.	vely distur the curren z County (e respons e excavati	bed in the it developn Code, if arc ible persor on and cor	past and t nent is low cheologica ns shall	he I
3.	Disturb any human remains, including those interred outside of formal cemeteries?				
time o this pi cease Plann full an Califo signifi	during site preparation, excavation, or other during site preparation, excavation, or other roject, human remains are discovered, the e and desist from all further site excavation ing Director. If the coroner determines that cheological report shall be prepared and remain Indian group shall be contacted. Disturbance of the archeological resource is determined the resource on the site are established.	ground d responsib and notify t the rema presentat irbance sh ermined ar	isturbance le persons the sheriff lins are not ives of the nall not res	associate shall imm f-coroner a t of recent local Nativ ume until t	d with ediately and the origin, a ve
4.	Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?				
Discu site.	ussion: No known paleontological resource	s or geolo	ogic feature	es exist on	the
	AZARDS AND HAZARDOUS MATERIALS I the project:	•			
1.	Create a significant hazard to the public or the environment as a result of the routine transport, use or disposal of hazardous materials?		\boxtimes		

Discussion: The proposal does not currently include any uses, which would be expected to generate any hazardous materials, however construction activities may involve the use of hazardous materials. To ensure that paint, stains, and other materials used during construction are recycled at an appropriate facility after use, a condition of project approval will require the property owner to submit recycling receipts prior to building permit final. Additionally, an operational permit condition will require

CEQA Environmental	Review Initial	Study
Page 20		

6.

Potentially Significant Impact Less than Significant with Mitigation Incorporated

Less than Significant Impact

No Impact

any future commercial use to be reviewed and approved by the Environmental Health Service with respect to the handling, use and disposal of hazardous materials. Compliance with these conditions of approval will ensure that the proposed commercial development will not expose the public or environment to hazardous materials.

acve	propriette will flot expose the public of envir	orment to	nazaruous	s materiais.	
2.	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?				
Disc	cussion: See the discussion in H1 above.				
3.	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				
	ussion: See H1. Additionally, the site is local earest school, Soquel High School to the r		than one	-quarter mi	le from
4.	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?				
	ussion: The project site is not included on a Cruz County compiled pursuant to the sp			ardous site	s in
5.	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 for people residing or working in the project area?				
	ussion: The project is not located within ar of a public airport or public use airport; the				two

For a project within the vicinity of a private airstrip, would the project result

Potentially Significant Impact Less than
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Less than Significant Impact

X

No Impact

in a safety hazard for people residing or working in the project area?

Discussion: The project site is not located in the vicinity of a private airstrip; therefore there is no impact.

7. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Discussion: The proposed commercial development does not conflict with the County's adopted Emergency Management Plan (April 2002). Specific countywide evacuation routes are not designated in the Emergency Management Plan; rather, feasible routes are determined based on particular events. Therefore Soquel Drive could perform as an evacuation route in an emergency event. Further, the residents that currently rely exclusively on Greenbrae Lane for access would be able to evacuate via the two driveways off of Greenbrae Lane use the proposed access road serving the commercial development as an alternative evacuation route.

8. Expose people to electro-magnetic fields associated with electrical transmission lines?

Discussion: The proposed commercial development would not include the installation of electrical transmission lines; therefore there is no impact.

hydrant is proposed to the rear of the property. Therefore the impact of the proposed

commercial development on wildland fire safety is less than significant.

9. Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

urbanized areas or where residences are intermixed with wildlands?

Discussion: The project design incorporates all applicable fire safety code requirements and includes fire protection devices as required by the local fire agency. The closest fire station is located within a 5 minute response time and a new fire

CEQA Environmental Review Initial Study Page 22	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
I. TRANSPORTATION/TRAFFIC Would the project:				
1. Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle				

Discussion: The proposed commercial development and access road will alter the existing circulation system in the vicinity of the project site. According to a Traffic Study performed by Higgins Associates, dated October 3, 2005 (Attachment 9), the proposal would result in 38 additional peak am and peak pm trips. An Intersection Analysis performed by Hatch Mott MacDonald, dated August 26, 2009, found that the project would not cause any nearby intersection to drop below Level of Service D. The Road Engineering Section of the Department of Public Works has accepted the results of the Intersection Analysis. The project site also includes Greenbrae Lane, an easement that provides primary access to residential and commercial parcels to the west and north of the site. No changes are proposed to this easement, however the road does not meet current County Design Standards. To ensure that future commercial traffic does not significantly impact existing user of Greenbrae Lane, the proposal includes signage to prevent commercial traffic from exiting onto Greenbrae. Existing users would be able to enter and exit to and from the Soquel Drive and 41st Avenue intersection via the proposed driveway, which provides superior egress for eastbound and southbound traffic relative to the current circulation pattern.

paths, and mass transit?

A bus stop exists just to the west of the Greenbrae/Soquel intersection and has presented additional conflicts for vehicular traffic entering and exiting via Greenbrae Lane. On January 13, 2009 the Board of Supervisors directed the Redevelopment Agency (RDA) to relocate the bus stop from its current location to the frontage of the RDA property located to the east of the subject property. RDA, in conjunction with the Road Engineering Section of the Department of Public Works, has been in the process of preparing preliminary plans. RDA has also received preliminary approval from the Metro Transit District for the new proposed bus stop location and the RDA Board of Directors has approved funding for this work. The relocation is anticipated to be completed in the spring of 2011.

Proposed improvements to the Soquel/41st Avenue intersection include providing a signalized pedestrian crossing at the project driveway and providing ramps at the new driveway that align with the existing crosswalk at Soquel Drive. Additionally, according Road Engineering staff, per the Plan Line for the intersection, DPW improvements

Potentially Significant Impact Less than
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Less than Significant Impact

No Impact

include dedicating an eastbound right-turn lane from Soquel onto 41st Avenue and shifting the 41st Avenue median to the east to allow for more bicycle pedestrian and vehicular traffic and to improve the circulation at the intersection.

The improvements proposed by the applicant would improve the functionality of the 41st Ave/Soquel Drive intersection and would ensure that the impact of the proposed commercial development does not significantly impact the circulation in the vicinity of the site. Further, the relocation of the bus stop and the provision of an alternative ingress and egress path through a signalized intersection will improve the circulation for the users of Greenbrae Lane and reduce traffic conflicts that have historically existed in this area.

The proposal would provide 64 parking spaces to accommodate the proposed commercial use. The parking spaces exceed the County commercial parking requirements. The County General Plan includes a provision for extending 41st Avenue northward through the project site. Although there are no plans to implement this policy, the project has been designed so that future implementation remains feasible. The portion of the site impacted by the future arterial extension is currently proposed to be used as a parking aisle with perpendicular parking spaces on both sides. Should 41st Avenue be extended, one alternative would be to replace the parking spaces with diagonal parking along Greenbrae Lane. The project traffic engineer, Hatch Mott MacDonald prepared a Parking Layout Evaluation (Attachment 7), which illustrates this option. This alternative would include a new access road for the Greenbrae Lane residents, utilizing the 41st Avenue extension.

Alternatively, in that the RDA will be required to purchase any future right-of-way to extend 41st Avenue through the project site, RDA may elect to relocate the displaced parking on the county-owned parcel immediately adjacent and to the east of the subject site.

Finally, in the event that neither of the two options for accommodating displaced parking prove feasible, the property owner will be required to modify the permitted commercial uses on the site to the extent that the resulting diminished parking spaces are sufficient pursuant to Section 13.10.552 (Schedule of off-street parking space requirements) of the County Code. Further, Section 13.10.553 of the Code provides variations to requirements that allow the commercial parking standards to be satisfied by alternative means, such as through the use of employee van pools, ridesharing or other methods.

Any of the three parking options would ensure that the commercial uses on the site would be provided with adequate parking and no impact to surrounding circulation would occur. Lastly, the proposed commercial development is subject to Chapter 15.12 of the County Code, which requires the payment of Transportation Improvement Fees in order to finance transportation and roadside improvements projects identified in the County's General Plan Circulation Element and Capital Improvement Program. The payment of these fees will further ensure that the proposal does not negatively the effective performance of the surrounding circulation system.

CEQA Page	A Environmental Review Initial Study 24	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	, No Impaci
2.	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?				
<i>Disc</i> is no	ussion : The proposed project does not im impact.	ipact air tra	affic pattern	s, therefor	e there
3.	Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?				
previon of inc	ussion: The proposed commercial develo ously approved commercial and residentia reased hazards as a result of site design t significant.	I use curre	ntly exist; t	herefore in	mpacts
4.	Result in inadequate emergency access?			\boxtimes	
appro above	ussion: The project's road access meets (oved by the Central Fire Protection District regarding emergency access and traffic an access and traffic and	. Please re	fer to Secti	on H7, H9	
5.	Cause an increase in parking demand which cannot be accommodated by existing parking facilities?			\boxtimes	
	ussion: Please refer to Section I1 above reset commercial development.	egarding p	arking asso	ciated wit	h the
6.	Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?				

Discussion: The proposed project would comply with current road requirements to prevent potential hazards to motorists, bicyclists, and/or pedestrians. The Department of Public Works and Redevelopment Agency have stated that a required bus stop in the vicinity of the project site will be located in front of the county-owned parcel adjacent and to the east of the subject site, which will provide an increase in the performance and safety of public transportation in the vicinity of the proposal. Please refer to Section I1 above regarding additional proposed improvements regarding

CEQ/ Page	A Environmental Review Initial Study 25	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
pede	estrian and public transit improvements.				
7.	Exceed, either individually (the project alone) or cumulatively (the project combined with other development), a level of service standard established by the County General Plan for designated intersections, roads or highways?				
<i>Disc</i> proje	cussion: Please refer to Section I1 for traffiect.	c and road	l impacts a	ssociated	with the
	OISE ld the project result in:				
1.	A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?				
envir	ussion: The project would create an increr onment. However, this increase would be ise generated by the surrounding existing t	small, and			
2.	Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?				
	ussion: No groundborne vibrations or nois roposed commercial uses; therefore no imp			ed as a res	sult of
3.	Exposure of persons to or generation of noise levels in excess of standards established in the General Plan or noise ordinance, or applicable standards of other agencies?				
Gene Impu Acou	ussion: Per County policy, average hourly eral Plan threshold of 50 Leq during the day lsive noise levels shall not exceed 65 db dustic studies for nearby projects have shown exceed these standards.	and 45 Leuring the d	q during the ay or 60 db	e nighttime at night.	е.
4.	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?			\boxtimes	

existing air quality violation.

Potentially Significant Impact Less than
Significant
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Less than Significant Impact

No Impact

	·				
levels	ussion: Noise generated during construction for adjoining areas. Construction would be duration of this impact it is considered to	e tempor	ary, howev	er, and giv	
5.	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 expose people residing or working in the project area to excessive noise levels?			i i	
	ussion: The project is not located within a pated.	n airport l	and use pla	an. No impa	act is
6.	For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?				
<i>Discu</i> anticip	ussion : The project site is not within the vio	cinity of a	private airs	strip. No im	pact is
Where establ Air Po	R QUALITY e available, the significance criteria lished by the Monterey Bay Unified ollution Control District (MBUAPCD) may be to make the following determinations. Wo		oject:		
1.	Violate any air quality standard or contribute substantially to an existing or projected air quality violation?				
ozone would	ession: The North Central Coast Air Basin and particulate matter (PM ₁₀). Therefore, be emitted by the project are ozone precus] and nitrogen oxides [NO _x]), and dust.	the regio	nal polluta	nts of conc	ern that

Project construction and grading may result in a short-term, localized decrease in air quality due to generation of dust. In order to minimize the impact of construction activities on air quality, the following mitigation measures will be imposed: Water graded/excavated areas at least twice daily, prohibit all grading activities during periods of high wind (over 15 mph), haul trucks shall maintain at least 2'-0" of

Given the modest amount of new traffic that would be generated by the project there is no indication that new emissions of VOCs or NO_x would exceed MBUAPCD thresholds for these pollutants and therefore there would not be a significant contribution to an

Potentially Significant Impact Less than
Significant
with
Mitigation
Incorporated

Less than Significant Impact

No Impact

freeboard, cover all trucks hauling dirt, sand, or loose materials, plant vegetative ground cover in disturbed areas as soon as possible, cover inactive storage piles, install wheel washers at the entrance to construction site for all exiting trucks, and pave or apply baserock to all roads at construction site.

In addition to proposed grading activities, the project includes the demolition of twelve existing structures constructed prior to 1980, which may include contain asbestos containing materials (ACMs). In order to ensure that the demolition of existing structures does not violate any air quality standard, the following mitigation measures will be required: Prior to demolition work of buildings constructed prior to 1980, areas of the on-site structures shall be sampled as part of an asbestos survey in compliance with the National Emission Standards for Hazardous Air Pollutants (NESHAP). If asbestos is found in any building, asbestos-related work, including demolition, involving 100 square feet or more of ACMs shall be performed by a licensed asbestos consultant and asbestos shall be removed and disposed of in compliance with applicable State laws, at least 10 days prior to demolition of existing structures the MBUAPCD shall be notified and an MBUAPCD Notification of Demolition and Renovation Checklist shall be submitted to both MBUAPCD and the County.

2.	Conflict with or obstruct implementation of the applicable air quality plan?				
	ussion: he project would not conflict with onal air quality plan. See K1 above.	r obstruct	implement	ation of the	
3.	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 (including releasing emissions which exceed quantitative thresholds for ozone precursors)?				
Discu	ssion: See K1 above				
4.	Expose sensitive receptors to substantial pollutant concentrations?			\boxtimes	

Discussion: No substantial pollutant concentrations would be emitted during or as a result of the proposed commercial development, with the exception of Co₂ emissions from construction vehicles, which would be temporary and not substantial.

CEQA Page	A Environmental Review Initial Study 28	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
5.	Create objectionable odors affecting a substantial number of people?				
<i>Disc</i> resul	ussion: No objectionable odors would be of the proposed project; therefore no impa	created du act is antic	ring constr cipated.	uction or a	as a
	REENHOUSE GAS EMISSIONS d the project:				
1.	Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?				
increi site g proce emiss pre-1 no sp equip emiss	mental increase in green house gas emissicating and construction activities. At this times of developing a Climate Action Plan (Casion reduction goals and necessary actions 990 levels as required under AB 32 legislatecific standards or criteria to apply to this parent would be required to comply with the sions requirements for construction equipment temporary increase in greenhouse gas icant.	ions by us me, Santa AP) intend is to reduce tion. Until project. All Regional ient. As a	age of foss Cruz Coulled to estable greenhou CAP is cor project coll Air Quality result, impa	il fuels du nty is in th blish speci se gas lev npleted, th nstruction Control B acts assoc	ring the e fic rels to here are coard ciated
2.	Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?				
	ussion: See the discussion under L1 above pated.	e. No sign	ificant impa	acts are	
	JBLIC SERVICES d the project:				
1.	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

for any of the public services:

acceptable service ratios, response times, or other performance objectives

Page		оптена келем иша зииу	Potentially Significant Impact	Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
	a.	Fire protection?			\boxtimes	
	b.	Police protection?			\boxtimes	
	C.	Schools?				
	d.	Parks or other recreational activities?				
	e.	Other public facilities; including the maintenance of roads?			\boxtimes	
the rof th Califfees dem.	need formianto be and formianto be and formitte the technique formitte formitte the technique formitte formitt	on (a through e): While the project reforms services, the increase would be madards and requirements identified by Department of Forestry, as applicable paid by the applicant would be used or school and recreational facilities and project:	inimal. Mo the Centra e, and scho to offset th	reover, the al Fire Prote ool, park, as e incremen	project m ection Dist nd transpo	eets all trict or ortation
1.	exis par suc dete	euld the project increase the use of sting neighborhood and regional ks or other recreational facilities that substantial physical erioration of the facility would occur be accelerated?				
		on: The proposed project would not in bod or regional parks; therefore no in			sting	
2.	faci exp whice	es the project include recreational lities or require the construction or ansion of recreational facilities ch might have an adverse physical ect on the environment?				\boxtimes
	<i>ussio</i> ipated	n: The project does not include recre	ational fac	ilities; there	efore no in	npact is

CEQA Page	A Environmental Review Initial Study 30	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
	TILITIES AND SERVICE SYSTEMS Id the project:				
1.	Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
Septe deve drain	ussion: Drainage analysis of the project comber 18, 2008 concluded that post-develonment rates. Department of Public Workage information and have determined that uate to handle the increase in drainage ass	opment rui ks Drainag downstrea	noff rates w le staff hav im storm fa	vill not exc e reviewed acilities are	eed pre- d the
2.	Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
The Cavailatexces replace increase	ussion: The project is currently served by a City of Santa Cruz Water Department has dable to serve the project (on file). As stated eds commercial water use. Because the throced by commercial uses, the project is not ase in water use on the site. Therefore no ries would result from the proposed	letermined in B4 abo ee existin expected	I that adequive, resider g residentia to represer	uate suppl itial water al units are it a signific	ies are use far being cant
	cipal sewer service is available to serve the from the Santa Cruz County Sanitation Dis			in the atta	ched
3.	Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?			\boxtimes	
	ussion: The project's wastewater flows wor nent standards.	uld not vio	late any wa	astewater	
4.	Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?				
Discu	ussion: See O2 above.				

32/85

CEQA Page	A Environmental Review Initial Study 31	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
5.	Result in 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?	annua ri			
Disc	cussion: See O2 above.				
6.	Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?				
of regimpa appro cons perm	cussion: The project would make a one-time gional landfills during construction and graducts of temporary construction debris to lessoval will require the applicant to submit a putruction materials, for review and approval in the interior interior in materials and will minimize contribution materials and will minimize contribution.	ding activit s than sigr lan to recy by Plannir on will ma:	ies. In ord hificant, a c ycle and/or ng Staff prio ximize recy	er to mitig ondition of reuse exc or to buildi	ate the f project ess post ng
7.	Comply with federal, state, and local statutes and regulations related to solid waste?				
the n cente and i	ussion: Solid waste accumulation is anticinew uses that would occur in conjunction were. However, trash accumulation from the result in a breach of fedutions.	ith the pro etail and/o	posed com	mercial she would be	nopping modest
	AND USE AND PLANNING Id the project:				
1.	Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?				

Discussion: The proposed project does not conflict with any regulations or policies adopted for the purpose of avoiding or mitigating an environmental effect in that

Potentially Significant Impact Less than
Significant
with
Mitigation
Incorporated

Less than Significant

No Impact

mitigations would be required to ensure public health and safety regarding riparian protection, air quality and parking standards. County General Plan Policy states that a 41st Avenue shall be extended through the project site at some point in the future. While implementation of this policy would result in a reduction of on site parking, three alternative have been identified (see the analysis under I1) which ensure that the reduction of parking can be accommodated. Therefore the project does not conflict with this land use policy.

altern reduc	ative have been identified (see the analystion of parking can be accommodated. The land use policy.	sis under I1) which en	sure that th	he
2.	Conflict with any applicable habitat conservation plan or natural community conservation plan?				\boxtimes
	ssion: There are no habitat conservation rvation plans in effect on the site, therefor				t.
3.	Physically divide an established community?				
	ssion: The project would not include any ished community.	element th	nat would p	hysically d	livide aı
	PULATION AND HOUSING the project:				
1.	Induce substantial 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)?				
develo Additio new ro	ssion: The proposed project is designed append allowed by the General Plan and a phally, the project does not involve extensional systems) into areas previously not select a significant growth-inducing effect.	zoning desi sions of util	ignations f ities (e.g.,	or the parc water, sew	er, or
2.	Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?				

Discussion: The proposed project displaces three existing, non-conforming residential units, which is not considered a significant impact.

CEQA Environmental Review Initial Study Page 33		Less than Significant Potentially with Less than Significant Mitigation Significant Impact Incorporated Impact			No Impact
3.	Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?			\boxtimes	

Discussion: The proposed project would not displace a substantial number of people since in that only three non-conforming units are proposed to be removed from the site.

R. MANDATORY FINDINGS OF SIGNIFICANCE

		Impact	Mitigation	Impact
1.	Does the project have the potential to 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, reduce the number or restrict the range of a rare or endangered plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?		Ningation	Праст

Less than

Significant

with

Less than

Significant

No Impact

Potentially

Significant

Discussion: The potential to 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, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory were considered in the response to each question in Section III of this Initial Study. Resources that have been evaluated as significant would be potentially impacted by the project, particularly riparian resources. However, in addition to the requirements included in the County Riparian Protection, Erosion Control, Grading and Sensitive Habitat Ordinances, which apply to all development, additional mitigation measures have been included that reduce these effects to a level below significance. This mitigation includes the restriction of exterior lighting that could impact wildlife activity within the riparian corridor. As a result of this evaluation, there is no substantial evidence that, after mitigation, significant effects associated with this project would result. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

		Potentially Significant Impact	Significant with Mitigation	Less than Significant Impact	No Impac
2.	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)?				

Less than

Less than

Potentially

Less than

Discussion: In addition to project specific impacts, this evaluation considered the projects potential for incremental effects that are cumulatively considerable. As a result of this evaluation, there is no substantial evidence that there are cumulative effects associated with this project. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

Significant Significant with Significant No Impact Mitigation Impact Impact 3. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Discussion: In the evaluation of environmental impacts in this Initial Study, the potential for adverse direct or indirect impacts to human beings were considered in the response to specific questions in Section III. As a result of this evaluation, there were determined to be potentially significant effects to human beings related to Hazardous Material, Landfill Capacity and Air Quality. However, mitigation has been included that clearly reduces these effects to a level below significance. This mitigation includes the requirement for the project applicant to provide a plan to recycle and/or reuse excess post-construction materials, to provide recycling receipts to indicate that construction materials have been recycled at an appropriate facility after use, to employ measures to reduce the impacts of dust generation, and to sample the existing structures for asbestos containing materials and notify the Monterey Air Pollution Control District (MBUAPCD) prior to construction. As a result of this evaluation, there is no substantial evidence that, after mitigation, there are adverse effects to human beings associated with this project. Therefore, this project has been determined not to meet this Mandatory Finding of Significance.

IV. TECHNICAL REVIEW CHECKLIST

	REQUIRED	DATE COMPLETED
Agricultural Policy Advisory Commission (APAC) Review	Yes 🗌 No 🔯	
Archaeological Review	Yes 🗌 No 🔀	
Arborist Report/Assessment	Yes 🛛 No 🗌	
Geologic Hazards Assessment (GHA)	Yes 🗌 No 🔀	
Geologic Report	Yes 🗌 No 🔀	
Geotechnical (Soils) Report	Yes 🛛 No 🗌	May 2005
Riparian Pre-Site	Yes 🛛 No 🗌	April 2005
Septic Lot Check	Yes 🗌 No 🔀	
Other: Traffic Report	Yes 🛛 No 🗌	August 2009; February 2009

V. <u>REFERENCES USED IN THE COMPLETION OF THIS ENVIRONMENTAL</u> REVIEW INITIAL STUDY

County of Santa Cruz 1994.

1994 General Plan and Local Coastal Program for the County of Santa Cruz, California. Adopted by the Board of Supervisors on May 24, 1994, and certified by the California Coastal Commission on December 15, 1994.

VI. ATTACHMENTS

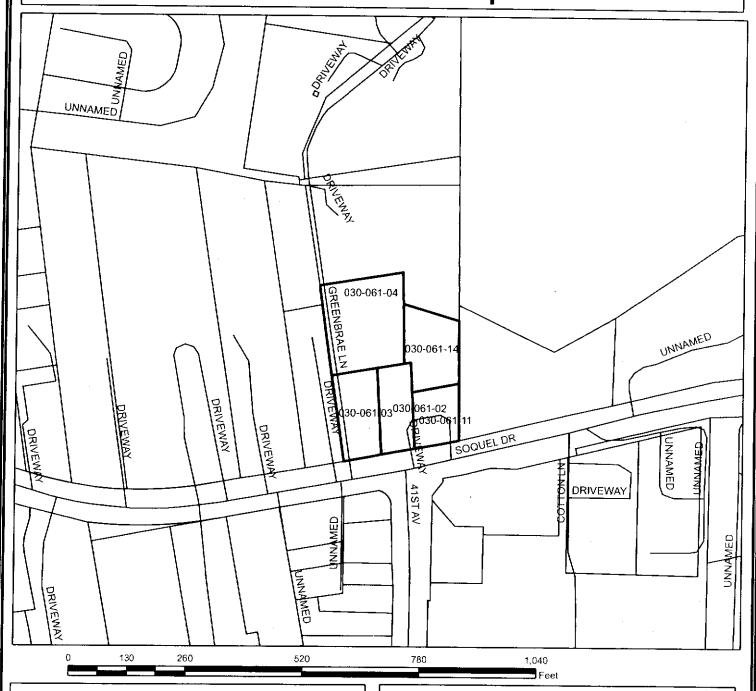
- 1. Vicinity Map, Map of Zoning Districts; Map of General Plan Designations; and Assessors Parcel Map.
- 2. Site Plan (3 sheets), prepared by Steven A. Elmore, Architect, last revised 7/16/10.
- Geotechnical Investigation (Conclusions and Recommendations), prepared by Dees & Associates, dated May 2005, updated June 18, 2008 and August 27, 2008
- 4. Geotechnical Review Letter, prepared by Carolyn Banti, dated September 3, 2008
- 5. Letter from Project Drainage Engineer, prepared by Roper Engineering, dated September 18, 2008
- Landscape Plan (3 Sheets), prepared by Ellen Cooper, Landscape Architect, revised 1/23/09
- 7 Parking Layout Evaluation, prepared by Hatch Mott MacDonald, dated March 12, 2009
- 8. Traffic Study (Conclusions and Recommendations), prepared by Hatch Mott MacDonald, dated August 26, 2009. Letter from Hatch Mott MacDonald, dated February 2, 2009
- 9. Trip Generation Report, prepared by Higgins Associates, dated October 3, 2005

On File With The County Planning Department

- 1. Architectural Plans, prepared by Steven A. Elmore, Architect, last revised 7/16/10, Civil Drawings (8 Sheets) prepared by Roper Engineering, dated 4/7/05 and 8/28/09, revised 7/6/10, Intersection Improvement Plans, prepared by Hatch Mott MacDonald, dated 8/27/09.
- 2. Memo from Department of Public Works, Sanitation, dated October 12, 2005
- 3. Letter from City of Santa Cruz Water Department, dated August 22, 2007
- 4. Discretionary Application Comments, dated December 6, 2010q`
- 5. Drainage Calculations, prepared by Roper Engineering, dated August 26, 2008
- Arborists Report, prepared by Ellen Cooper & Associates, dated January 12, 2006



Location Map



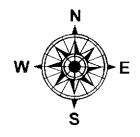


APNS: 030-061-02,03,04,11,14

Streets

Assessors Parcels

State Highways



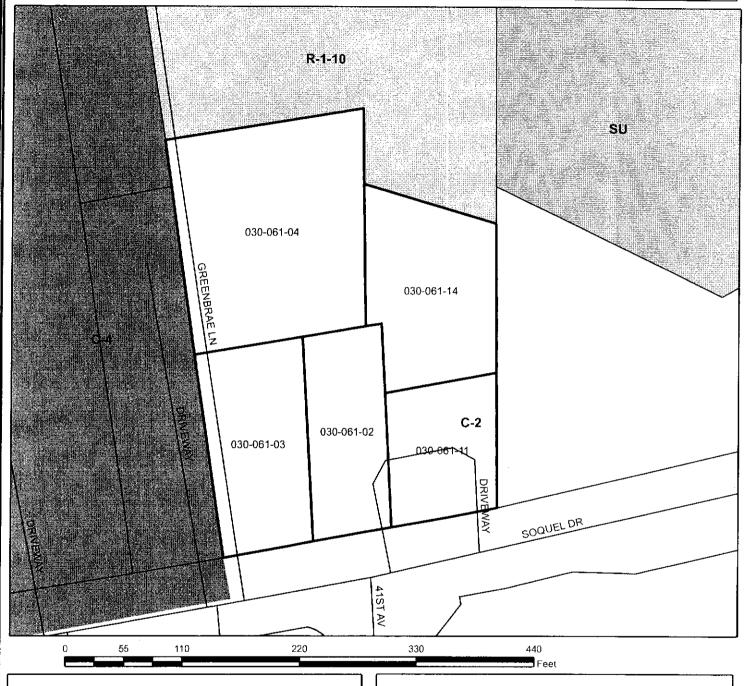
Map created by County of Santa Cruz Planning Department August 2007

40/85

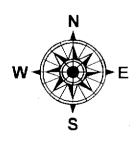
FLEARS & LAST CONTRACTORS



Zoning Map





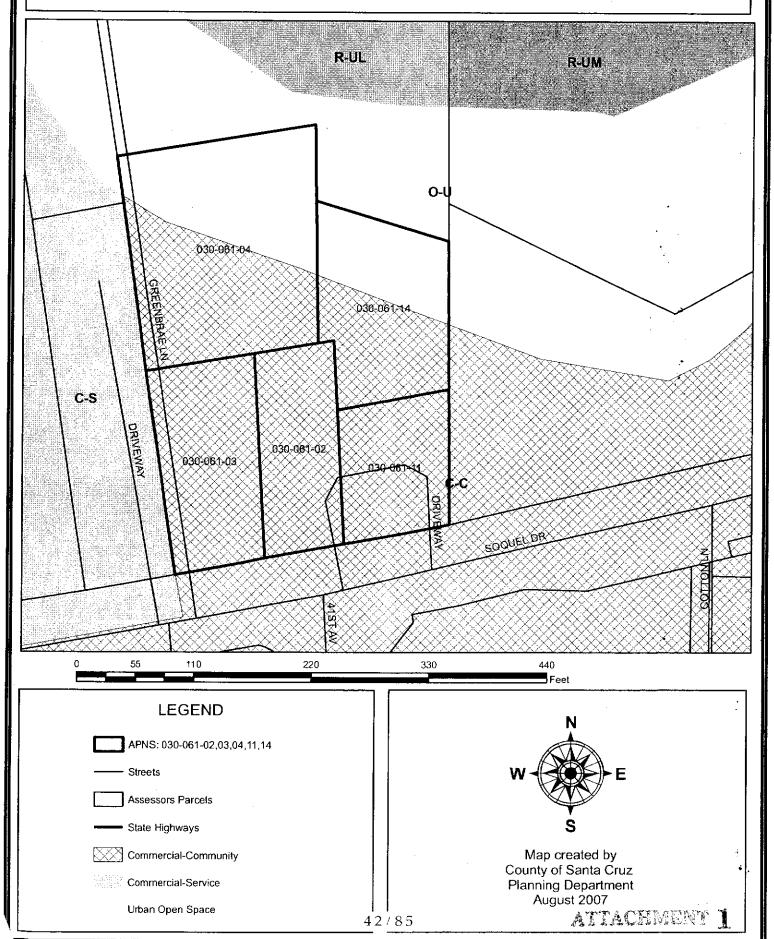


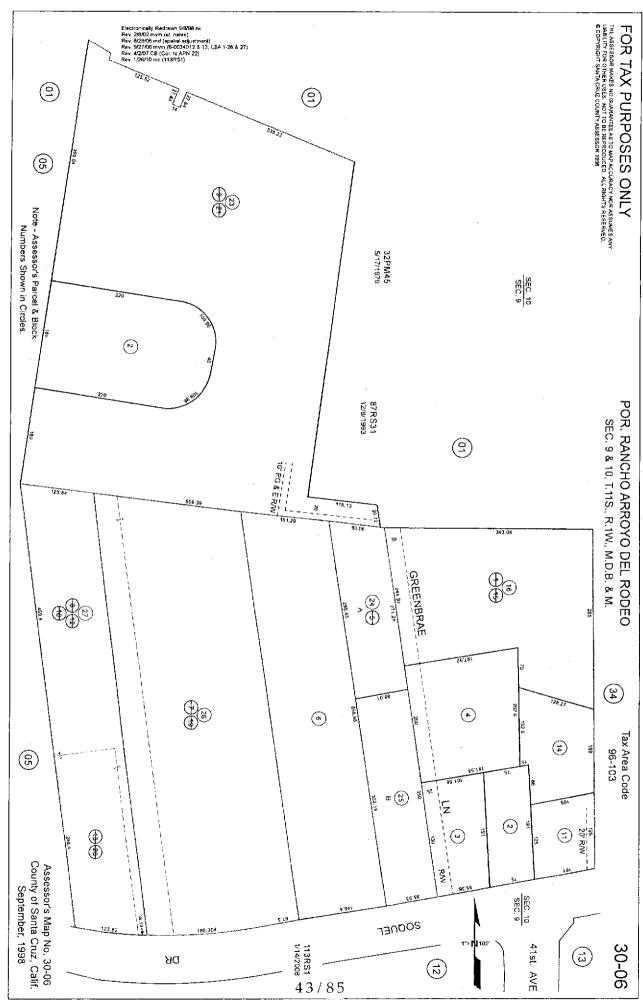
Map created by County of Santa Cruz Planning Department August 2007

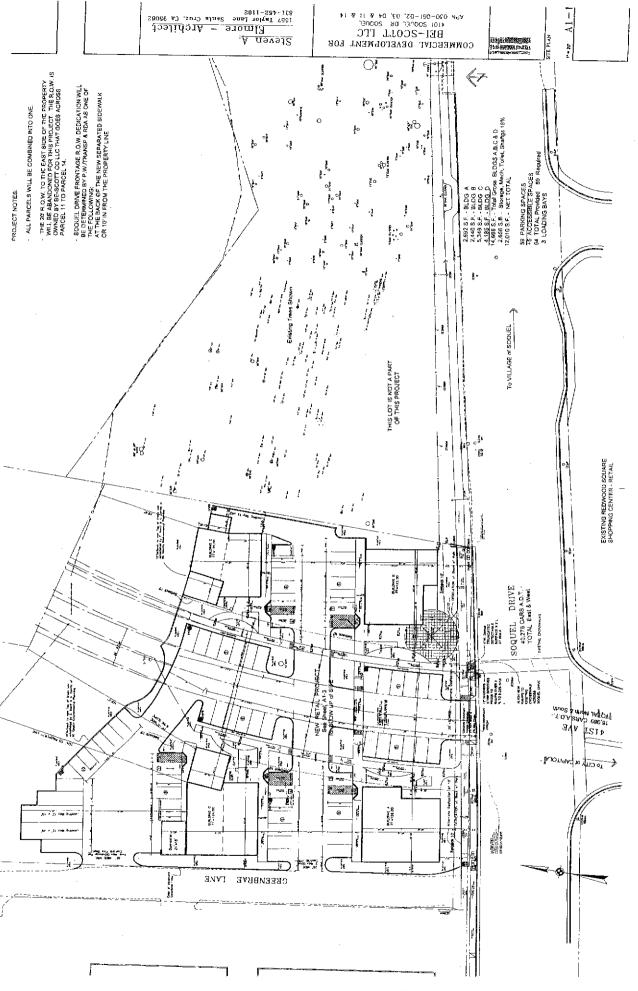
ATTACHHEMT !

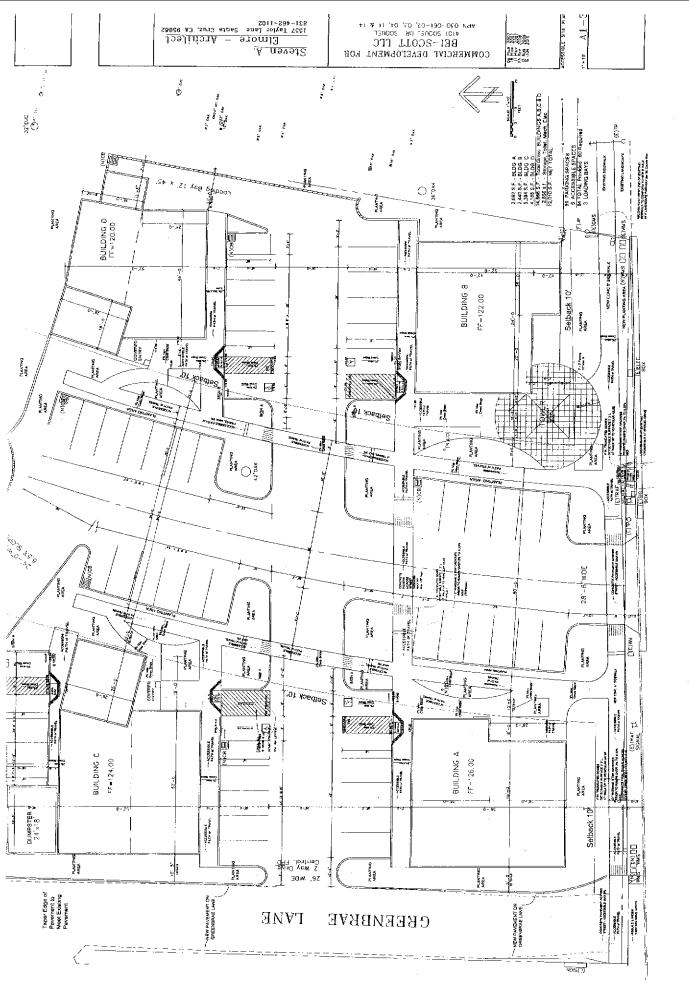


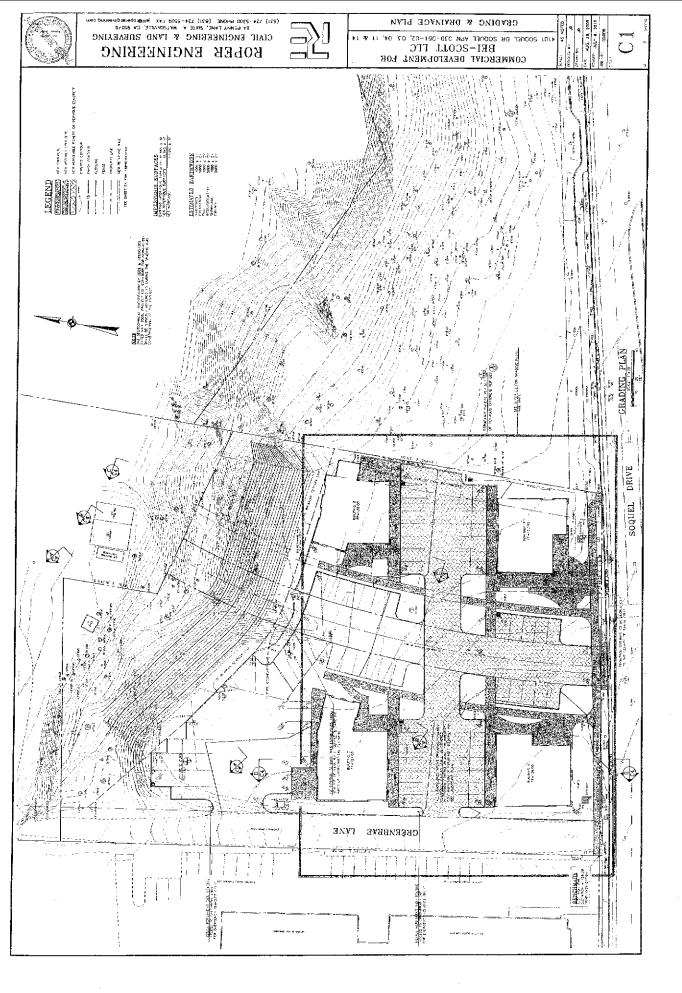
General Plan Designation Map

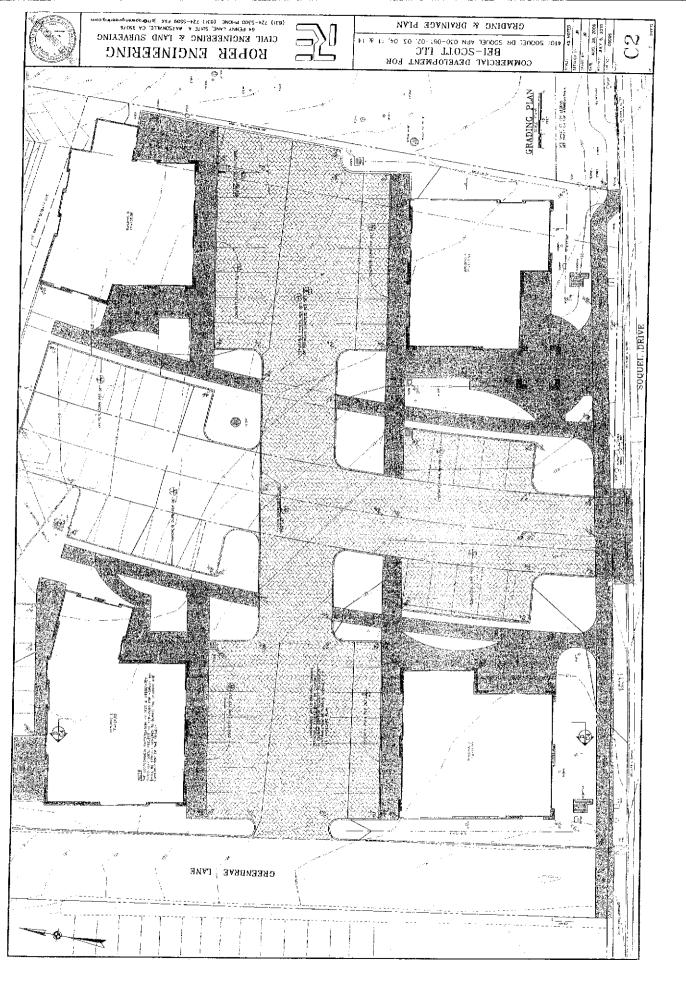












GEOTECHNCIAL INVESTIGATION For PROPOSED RETAIL CENTER

Soquel Drive APN'S 030-161-02, 03, 04, 11 & 14 Soquel, California

> Prepared For NORMAN BEI Santa Cruz, California

Prepared By
DEES & ASSOCIATES

Geotechnical Engineers Project No. SCR-0095 May 2005 May 17, 2005 Mr. Norman Bei Soquel Drive, Soquel APN'S 030-061-02, 03, 04, 11 & 14

DISCUSSIONS & CONCLUSIONS

Based on the results of our investigation, the proposed commercial building is feasible for the site provided the recommendations presented in this report are incorporated into the design and construction of the development. Primary geotechnical concerns at the site include setting structures back from the slope at the rear of the site, providing firm uniform support for foundations and designing structures to withstand severe seismic ground shaking.

The fill slope at the back of the site is comprised of soft to stiff fine sandy silt. The surface of the slope is eroded and several small slump slides are evident on the slope face. There is a potential for landslides to occur on the slope when saturated or subjected to severe seismic shaking. Improvements should be set back behind a 3:1 (horizontal to vertical) line drawn from the toe of the slope, which is 20 feet from the top edge of the fill slope.

Structures may be supported on mat slab foundations or on conventional spread footing foundations with interior floor slabs provided the foundations are supported on compacted engineered fill. There should be at least 2 feet of compacted engineered fill below the base of mat slab foundations and at least 2 feet of compacted engineered fill below the base of conventional spread footing foundations. Engineered fill should extend at least 3 feet beyond the buildings perimeter.

The subgrade conditions below proposed pavements are variable. In order to provide a firm, uniform base for pavements, the top 8 inches of subgrade soil below pavements should be moisture conditioned to 2 to 4 percent over optimum moisture content and compacted to at least 95 percent relative compaction.

The proposed structure will most likely experience strong seismic shaking during the design lifetime. The foundation and structures should be designed utilizing current Uniform Building Code (UBC) seismic design standards. Structures designed in accordance with the most current UBC should react well to seismic shaking. The underlying soils are generally medium dense to dense and are classified as a ASoil Type $S_{D\cong}$, according to the 1997 UBC.

SCR-0095 May 17, 2005 Mr. Norman Bei Soquel Drive, Soquel APN'S 030-061-02, 03, 04, 11 & 14

RECOMMENDATIONS

The following recommendations should be used as guidelines for preparing project plans and specifications:

Site Grading

- 1. The soil engineer should be notified <u>at least four (4) working days</u> prior to any site clearing or grading so that the work in the field can be coordinated with the grading contractor and arrangements for testing and observation can be made. The recommendations of this report are based on the assumption that the soil engineer will perform the required testing and observation during grading and construction. It is the owner's responsibility to make the necessary arrangements for these required services.
- 2. Where referenced in this report, Percent Relative Compaction and Optimum Moisture Content shall be based on ASTM Test Designation D1557-00
- 3. Areas to be graded should be cleared of obstructions and other unsuitable material. Existing depressions or voids created during site clearing should be backfilled with engineered fill.
- 4. Areas of the site to receive engineered fill should be scarified to a depth of 6 inches, moisture conditioned, and compacted to provide a firm, uniform base for fill placement.
- 5. The near surface site soils are suitable for use as engineered fill. The underlying clays should not be used for engineered fill. On-site soils used as engineered fill should be moisture conditioned to between 2 to 4 percent over optimum moisture content. Soils used for engineered fill should be free of organic material, and contain no rocks or clods greater than 6 inches in diameter, with no more than 15 percent larger than 4 inches. We estimate shrinkage factors of about 10 to 15 percent for the on-site materials when used in engineered fills.
- 6. Engineered fill should be placed in thin lifts not exceeding 8 inches in loose thickness; moisture conditioned, and compacted to at least 90 percent relative compaction.
- 7. The upper 8 inches of pavement subgrades should be compacted to 95 percent relative compaction. The aggregate base below pavements should also be compacted to at least 95 percent relative compaction.
- 8. Fill slopes should be inclined less than 2:1 (horizontal to vertical) and keyed and benched into firm native soil. The face of fill slopes should be groomed and protected from erosion.
- 9. After the earthwork operations have been completed and the soil engineer has finished his observation of the work, no further earthwork operations shall be performed except with the approval of and under the observation of the soil engineer.

SGR-0095 May 17, 2005 Mr. Norman Bei Soquel Drive, Soquel APN'S 030-061-02, 03, 04, 11 & 14

Mat Slab Foundations

- 10. Mat slab foundations should be at least 6 inches thick and supported on at least 2 feet of compacted engineered fill. (The underlying capillary break material should not be considered part of the 2 feet of engineered fill material). Engineered fill should extend at least 3 feet beyond the edges of the proposed foundation.
- 11. Reinforcing should be provided in accordance with the anticipated use and loading of the slab. If the slab will be used for traffic, forklifts or to support large loads, the upper 8 inches of subgrade soil should be compacted to at least 95 percent relative compaction.
- 12. Mat slab foundations designed in accordance with the above may be designed for an allowable soil bearing pressure of 1,500 psf for dead plus live loads. This value may be increased by one-third to include short-term seismic and wind loads.
- 13. Lateral load resistance for structures supported on mat slabs may be developed in friction between the foundation bottom and the supporting subgrade. A friction coefficient of 0.35 may be assumed for compacted engineered fill.
- 14. Dees & Associates are not experts in the field of moisture proofing or vapor barriers. An expert, experienced in the field of vapor mitigation should be consulted to address areas where floor wetness would be undesirable or where sensitive flooring or equipment is planned on top of floor slabs. We also recommend you discuss this issue with your flooring and equipment manufacturers. At a minimum, a blanket of 4 inches of free-draining gravel should be placed beneath the floor slab to act as a capillary break. In order to minimize vapor transmission, an impermeable membrane should be placed over the gravel. The membrane should be covered with 2 inches of sand or rounded gravel to protect it during construction. The sand or gravel should be lightly moistened just prior to placing the concrete to aid in curing the concrete.
- 15. Thickened exterior edges, a well-prepared subgrade including premoistening prior to pouring concrete, adequately spaced expansion joints, and good workmanship will help minimize cracking and movement.

Conventional Spread Footing Foundations

- 16. Conventional spread footings may be used to support structures provided the base of footings are supported on at least 3 feet of compacted engineered fill.
- 17. Footing depths should be determined in accordance with the anticipated use and applicable design standards. The footings should be reinforced as required by the structural designer based on the actual loads transmitted to the foundation.
- 18. The foundation trenches should be kept moist and be thoroughly cleaned of slough or loose materials prior to pouring concrete. Footings located adjacent to other footings or utility trenches should have their bearing surfaces founded below an imaginary 1.5.1 plane projected upward from the bottom edge of the adjacent footings or utility trenches.

May 17, 2005 Mr. Norman Bei Soquel Drive, Soquel APN'S 030-061-02, 03, 04, 11 & 14

- 19. Foundations designed in accordance with the above may be designed for an allowable soil bearing pressure of 2,500 psf for dead plus live loads. This value may be increased by one-third to include short-term seismic and wind loads.
- 20. Total and differential settlements under the proposed light building loads are anticipated to be less than 1 inch and 2 inch respectively.
- 21. Lateral load resistance for structures supported on footings may be developed in friction between the foundation bottom and the supporting subgrade. A friction coefficient of 0.35 may be used for compacted engineered fill. Where footings are poured neat against compacted engineered fill a passive lateral pressure of 300 pcf, equivalent fluid weight, may be assumed below a depth of 6-inches.
- 22. Prior to placing concrete, foundation excavations should be thoroughly cleaned and observed by the soils engineer.

Interior Slabs-on-Grade

- 23. Interior floor slabs should be supported on at least 12 inches of compacted engineered fill. Reinforcing should be provided in accordance with the anticipated use and loading of the slab. If the slab will be used for traffic, forklifts or to support large loads, the upper 8 inches of subgrade soil should be compacted to at least 95 percent relative compaction.
- 24. Dees & Associates are not experts in the field of moisture proofing or vapor barriers. An expert, experienced in the field of vapor mitigation should be consulted to address areas where floor wetness would be undesirable or where sensitive flooring or equipment is planned on top of floor slabs. We also recommend you discuss this issue with your flooring and equipment manufacturers. At a minimum, a blanket of 4 inches of free-draining gravel should be placed beneath the floor slab to act as a capillary break. In order to minimize vapor transmission, an impermeable membrane should be placed over the gravel. The membrane should be covered with 2 inches of sand or rounded gravel to protect it during construction. The sand or gravel should be lightly moistened just prior to placing the concrete to aid in curing the concrete.
- 25. Thickened exterior edges, a well-prepared subgrade including premoistening prior to pouring concrete, adequately spaced expansion joints, and good workmanship will help minimize cracking and movement.

Exterior Slabs-on-Grade

- 26. The top 6 inches of subgrade soil below non-load bearing exterior concrete slabs-on-grade should be compacted to at least 90 percent to provide a firm base for slab support.
- 27. The top 8 inches of subgrade soil below load bearing exterior concrete slabs-on-grade should be compacted to at least 95 percent relative compaction.

May 17, 2005 Mr. Norman Bei Soquel Drive, Soquel APN'S 030-061-02, 03, 04, 11 & 14

28. Reinforcing should be provided in accordance with the anticipated use and loading of the slab. The reinforcement of exterior slabs <u>should not</u> be tied to the building foundations. These exterior slabs can be expected to suffer some cracking and movement. However, thickened exterior edges, a well-prepared subgrade including premoistening prior to pouring concrete, adequately spaced expansion joints, and good workmanship should minimize cracking and movement.

Pavements

- 29. To have the selected pavement sections perform to their greatest efficiency, it is very important that the grading recommendations provided in this report are closely followed. Subgrade preparation is very important to the life of pavement. The top eight inches (8") of subgrade below pavements should be scarified and moisture conditioned to 2 to 4 percent above laboratory optimum value and compacted to a minimum relative compaction of 95 percent prior to placing aggregate base material. The base material should also be compacted to at least 95 percent relative compaction.
- 30. Sufficient gradients should be provided for rapid runoff of storm water and to prevent ponding water. Slope gradients of at least 2 to 5 percent should be used to direct runoff towards suitable collection facilities.
- 31. Only quality materials of the type and thickness (minimum) specified should be used. Baserock (R=78 minimum) should meet CALTRANS Standard Specifications for Class 2 Untreated Aggregate Base. Subbase (R=50 minimum) should meet CALTRANS Standard Specifications for Class 2 Untreated Aggregate Subbase.
- 32. Place the asphaltic concrete only during periods of fair weather when the free air temperature is within prescribed limits.
- 33. Develop a maintenance program and perform routine maintenance.

Site Drainage

- 34. Controlling surface runoff is important to the performance of the slope at the back of the site. Runoff must not be allowed to sheet flow over slopes. Berms or lined V-ditches should be constructed at the top of slopes to divert water toward suitable collection facilities.
- 35. Surface drainage should include provisions for positive gradients so that surface runoff is not permitted to pond adjacent to foundations or other improvements. Surface drainage should be directed away from the building foundations. Minimum slope gradients of 2 to 5 percent should divert runoff away from improvements towards suitable collection facilities.
- 36. Full roof gutters should be placed around the eves of the structure. Discharge from the roof gutters should be conveyed away from the downspouts and discharged away from improvements in a controlled manner.



SCR-0095 May 17, 2005 Mr. Norman Bei Soquel Drive, Soquel APN'S 030-061-02, 03, 04, 11 & 14

- 37. Permanent subdrains may be required adjacent to pavements or building foundations where potential seepage zones are encountered near the surface. The location and depth of these drains will need to be determined in the field by the soil engineer.
- 38. The migration of water or spread of extensive root systems below foundations, slabs, or pavements may cause undesirable differential movements and subsequent damage to these structures. Landscaping should be planned accordingly.

Plan Review, Construction Observation, and Testing

39. Dees & Associates should be provided the opportunity for a general review of the final project plans prior to construction to evaluate if our geotechnical recommendations have been properly interpreted and implemented. If our firm is not accorded the opportunity of making the recommended review, we can assume no responsibility for misinterpretation of our recommendations. We recommend that our office review the project plans prior to submittal to public agencies, to expedite project review. Dees & Associates also request the opportunity to observe and test grading operations and foundation excavations at the site. Observation of grading and foundation excavations allows anticipated soil conditions to be correlated to those actually encountered in the field during construction.

SCR-0095 May 17, 2005 Mr. Norman Bei Soquel Drive, Soquel APN'S 030-061-02, 03, 04, 11 & 14

LIMITATIONS AND UNIFORMITY OF CONDITIONS

- 1. The recommendations of this report are based upon the assumption that the soil conditions do not deviate from those disclosed in the borings. If any variations or undesirable conditions are encountered during construction, or if the proposed construction will differ from that planned at the time, our firm should be notified so that supplemental recommendations can be given.
- 2. This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information and recommendations contained herein are called to the attention of the Architects and Engineers for the project and incorporated into the plans, and that the necessary steps are taken to ensure that the Contractors and Subcontractors carry out such recommendations in the field. The conclusions and recommendations contained herein are professional opinions derived in accordance with current standards of professional practice. No other warranty expressed or implied is made.
- 3. The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they are due to natural processes or to the works of man, on this or adjacent properties. In addition, changes in applicable or appropriate standards occur whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or partially, by changes outside our control. Therefore, this report should not be relied upon after a period of three years without being reviewed by a soil engineer.

Phone: 831 427-1770 Fax: 831 427-1794

Email: dna@dslextreme.com

June 18, 2008

Project No. SCR-0095

MR. NORMAN BEI 410 May Avenue Santa Cruz, California 95062

Subject:

Addendum to Geotechnical Investigation, Dated May 17, 2005

Reference:

Proposed Retail Center

Soquel Drive

APN'S 030-061-02, 03, 04, 11 & 14

Santa Cruz, California

Dear Mr. Bei:

We understand the project scope now includes removal of all existing fill at the site. including the fill slope at the back. After removal of the existing fill, the slope will be cut back to a 2:1 (horizontal to vertical) slope angle and compacted engineered fill will be placed at the top of the slope up to design grades. Design grades are lower than the existing grades.

Once the existing fill is removed, any remaining loose, native soil should be removed and replaced as compacted engineered fill. Engineered fill should be keyed and benched into firm, native soil and the back of keys should be drained with gravel subdrains. Refer to our typical key detail attached.

Berms should be used to prevent water from flowing over the slope and collected runoff should be discharged in a controlled manner. Due to the clayey nature of the surface soils and the presence of very dense bedrock that daylights on the slope below the site. we do not recommend using on-site retention for discharging collected runoff. Collected runoff should be collected and discharged at the base of the drainage valley at the back of the site or into established storm drains.

Our report, dated May 17, 2005, indicated the fill slope was potentially unstable and recommended setting improvements back behind an imaginary 3:1 (horizontal to vertical) line drawn upwards from the toe of the slope. Once the fill is removed, the slope is cut back to a stable 2:1 (h:v) slope angle and the drainage gets controlled, there will be a low potential for landslides to affect the proposed development. Therefore, improvements may be located up to the top edge of the re-graded slope as long as the base of all foundations are located at least 10 feet (measured horizontally) from the adjacent slope face. Foundations may be deepened to comply with the 10 foot setback.

The recommendations provided in this letter supercede the recommendations of our original report. All other recommendations of our original report are still valid and may

SCR-0095 | 6/18/08

be used for design and construction of the proposed improvements.

If you have any questions regarding this report, please call our office.

Very truly yours,

DEES & ASSOCIATES, INC.

Rebecca L. Dees Geotechnical Engineer G.E. 2623

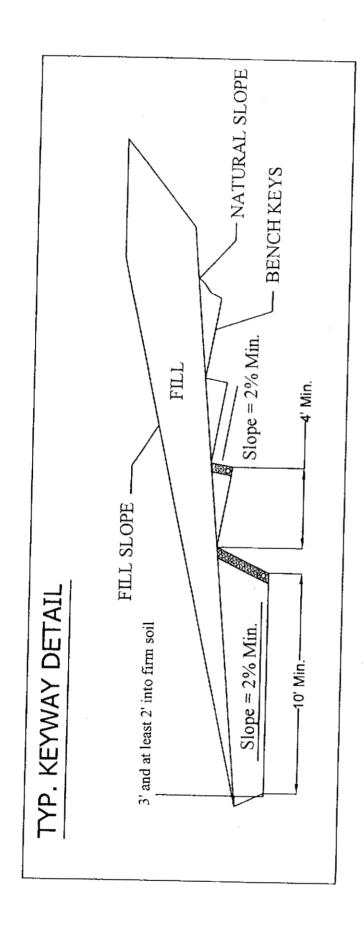


Copies:

1 to Addressee

4 to Steve Elmore, Architect

1 to Jeff Roper, Roper Engineering



NOTE

should consist of Caltrans Class 1, Type A permeable material or an approved equivalent. zones are encountered during grading. Subdrains should consist of a 12-inch wide gravel drain with a perforated pipe located about 3-inches from the bottom. The perforated pipe The depth and extend of subdrain should be determined by the geotechnical engineer in Subdrains should be placed at the back of keys and benches where potential seepage should be connected to a solid pipe that is discharged to a suitable location. Gravel the field during construction.

	Γ					T
TYP. KEYWAY DETAIL			DEES AND ASSOCIATES	GEOTECHNICAL ENGINEERS	301 MISSION STREET, SUITE 84, SANTA CRUZ, CA 96080 (831) 427-1770	9-EET NO.
	SLN	DRAWN RV AT	DATE	REM SED	JOB NO	



COUNTY OF SANTA CRUZ

PLANNING DEPARTMENT

701 OCEAN STREET, 4TH FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123 **TOM BURNS, PLANNING DIRECTOR**

September 3, 2008

Steven Elmore 780 Voltz Ln. Santa Cruz, CA, 95062

Subject:

Review of Geotechnical Investigation by Dees & Associates, Inc.

Dated May 17, 2005; Project #: SCR-0095

Addendum to Geotechnical Investigation, Dated June 18, 2008

APN 030-061-02, 03, 04, 11, 14, Application #: 07-0406

Dear Applicant:

The purpose of this letter is to inform you that the Planning Department has accepted the subject report and the following items shall be required:

- 1. All construction shall comply with the recommendations of the report.
- 2. Final plans shall reference the report and include a statement that the project shall conform to the report's recommendations. Plans shall also provide a thorough and realistic representation of all grading necessary to complete this project
- 3. Prior to building permit issuance a *plan review letter* shall be submitted to Environmental Planning. The author of the report shall write the *plan review letter*. The letter shall state that the project plans conform to the report's recommendations.
- 4. Prior to building permit issuance, please submit an electronic copy of the soils report in .pdf format via compact disk or email. Emails may be directed to carolyn.banti@co.santa-cruz.ca.us.

After building permit issuance the soils engineer *must remain involved with the project* during construction. Please review the *Notice to Permits Holders* (attached).

Our acceptance of the report is limited to its technical content. Other project issues such as zoning, fire safety, septic or sewer approval, etc. may require resolution by other agencies.

Please submit two copies of the report at the time of building permit application.

Please call the undersigned at (831) 454-5121 if we can be of any further assistance.

Sincerely.

Carolyn Banti

Associate Civil Engineer

Cc:

Cathy Graves, Project Planner BEI-Scott Company, LLC

Dees & Associates, Inc.

Review of Geotechnical Investigation, Report No.: SCR-0095

APN: 030-061-02, 03, 04, 11, 14

Page 2 of 2

NOTICE TO PERMIT HOLDERS WHEN A SOILS REPORT HAS BEEN PREPARED, REVIEWED AND ACCEPTED FOR THE PROJECT

After issuance of the building permit, the County requires your soils engineer to be involved during construction. Several letters or reports are required to be submitted to the County at various times during construction. They are as follows:

- When a project has engineered fills and / or grading, a letter from your soils engineer
 must be submitted to the Environmental Planning section of the Planning Department prior to
 foundations being excavated. This letter must state that the grading has been completed in
 conformance with the recommendations of the soils report. Compaction reports or a
 summary thereof must be submitted.
- Prior to placing concrete for foundations, a letter from the soils engineer must be submitted to the building inspector and to Environmental Planning stating that the soils engineer has observed the foundation excavation and that it meets the recommendations of the soils report.
- 3. At the completion of construction, a final letter from your soils engineer is required to be submitted to Environmental Planning that summarizes the observations and the tests the soils engineer has made during construction. The final letter must also state the following: "Based upon our observations and tests, the project has been completed in conformance with our geotechnical recommendations."

If the *final soils letter* identifies any items of work remaining to be completed or that any portions of the project were not observed by the soils engineer, you will be required to complete the remaining items of work and may be required to perform destructive testing in order for your permit to obtain a final inspection.



Roper Engineering

Civil Engineering & Land Surveying

64 Penny Lane, Suite A - Watsonville, CA 95076-6021 (831) 724-5300 phone (831) 724-5509 fax jeff@roperengineering.com e-mail Jeff A. Roper
Civil Engineer & Land Surveyor
RCE 41081
PLS 5180

Alyson Tom Santa Cruz County Public Works Drainage Department 701 Ocean Street Santa Cruz, CA 95060

September 18, 2008

Re: New Commercial Development at 4101 Soquel Drive
Co. App. No. 07-0406, APN 030-161-02, Our Job No. 05006

Dear Alyson,

Per your request, we have made a visual inspection of the drainage swale behind the above referenced development starting at Greenbrae Lane and ending at the 3' x 5' concrete box culvert that runs under Soquel Drive. We have attached an aerial photograph with the flow line outlined with stationing. The following are our observations:

Field Observation

1+00 Outlet existing 48" CMP culvert. Outlet clean, in fair condition, some rust but functional.

1+00 to 2+00 Flowline with rock cobbles and sand. Grade looks stable. No evidence of scouring. Lots of leaves and branches on side slopes. No evidence of side slope erosion.

2+00 to 3+00 Evidence of some side slope erosion on right caused by rope swing activity. Minor foot traffic erosion.

3+00 to 4+00 Evidence of slope failures by tree falls on right. Tree blocking the flowline causing some flow line scour. Recommend removal of tree debris and stabilize slope on right.

4+00 to 5+00 Evidence of slope failure on left. Possibly caused by tree fall.

5+00 to 8+00 Banks covered with black berry vines and poison oak. Slopes not visible. Flow line stable with cobbles and sand. Flow line width 3 to 5 feet.

8+00 to 9+00 Flowline widens out to 6 to 10 feet wide. Flow line fairly clean with sand bottom and few cobbles.

9+00 to 11+00 Tree trunk in flow line causing some localized scour. Some minor slope failure on right probably due to tree fall.

11+00 to 12+00 Evidence of small slope failure on left due to tree falling into flowline.

12+00 to 14+00 Flow line widens out to 10 to 15 feet with sand bottom. Some tree debris in channel but not blocking flow.

14+00 to 16+00 Flow line with sand bottom 10 to 15 feet wide.

15+00 12" CMP culvert outlet with tee end on right. No erosion evident at outlet. Some minor slumping above outlet.

16+00 to 18+00 Terrain flattens out on side slopes. Broad swale 50 to 100 feet wide with a shallow flow line 5 to 10 feet wide.

17+00 Concrete driveway over swale with three 18" CMP culverts. Concrete driveway acts as spillway if culvert capacity exceeded in large storms. No evidence of erosion.

17+75 Old dirt driveway crosses over swale with 30" CMP culvert. Upstream end of culvert plugged with debris. Some minor erosion of dirt driveway. Driveway looks to be abandoned except for foot traffic.

18+10 Tributary fork enters from left.

18+00 to 21+00 Flow line 5 to 10 feet wide in moderate side slope channel with sand bottom. Channel fairly clean.

21+00 to 23+25 Channel parallels Soquel Drive. Some concrete riprap slope protection on right. No evidence of scour or erosion.

23+25 Inlet to 3' x 5' concrete box culvert. Entrance fairly clean but with some minor debris.

Conclusions

The slopes at the rear of our project from station 1+00 to 4+25 will be reconstructed. Trees and other debris in the swale flow line will be removed. Final slopes will be vegetated and protected against erosion.

The remainder of the swale appears to be functioning adequately. The drainage swale could use a cleaning with the removal of logs, debris and trash, but approval of land owners would be required to work on private property.

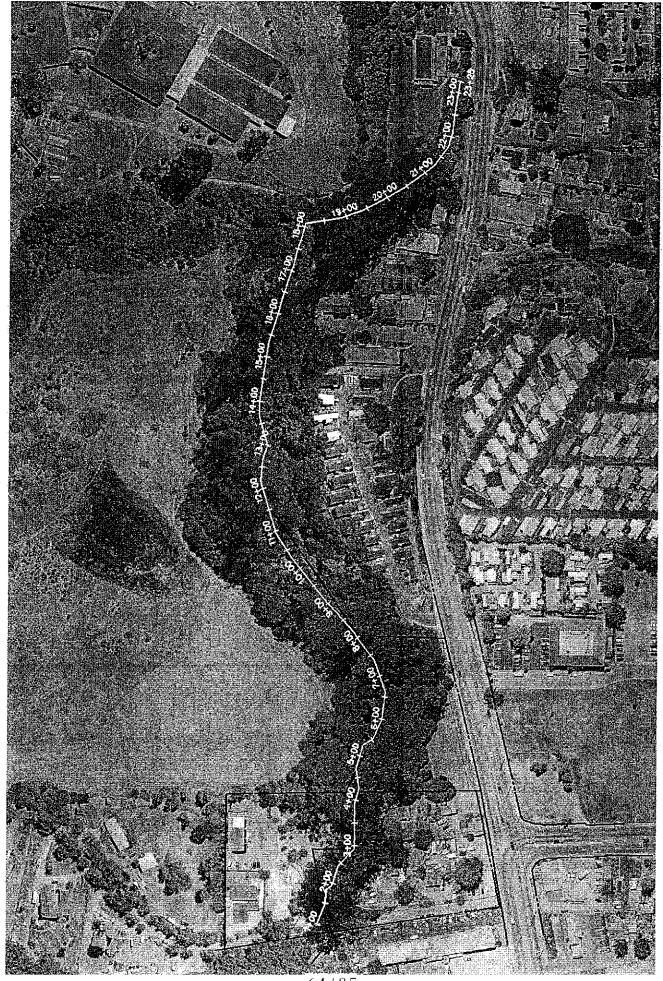
Photographs were taken during the field observation, but are difficult to interpret due to the large amount of vegetation. Copies will be provided upon request.

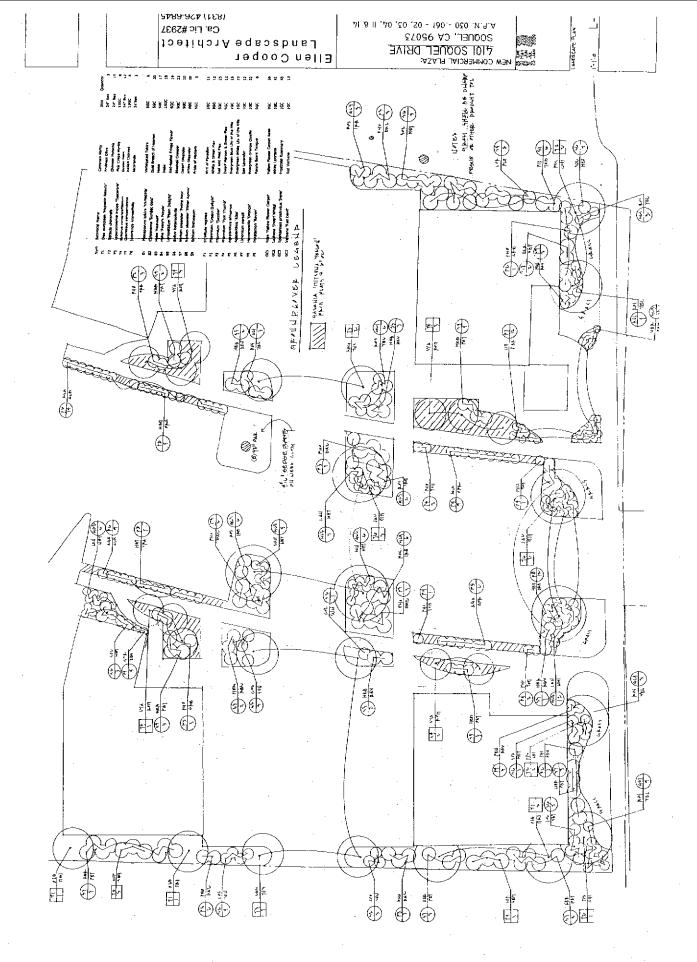
I hope this letter answers any concerns regarding the downstream drainage conditions. Please give me a call if you have any further questions.

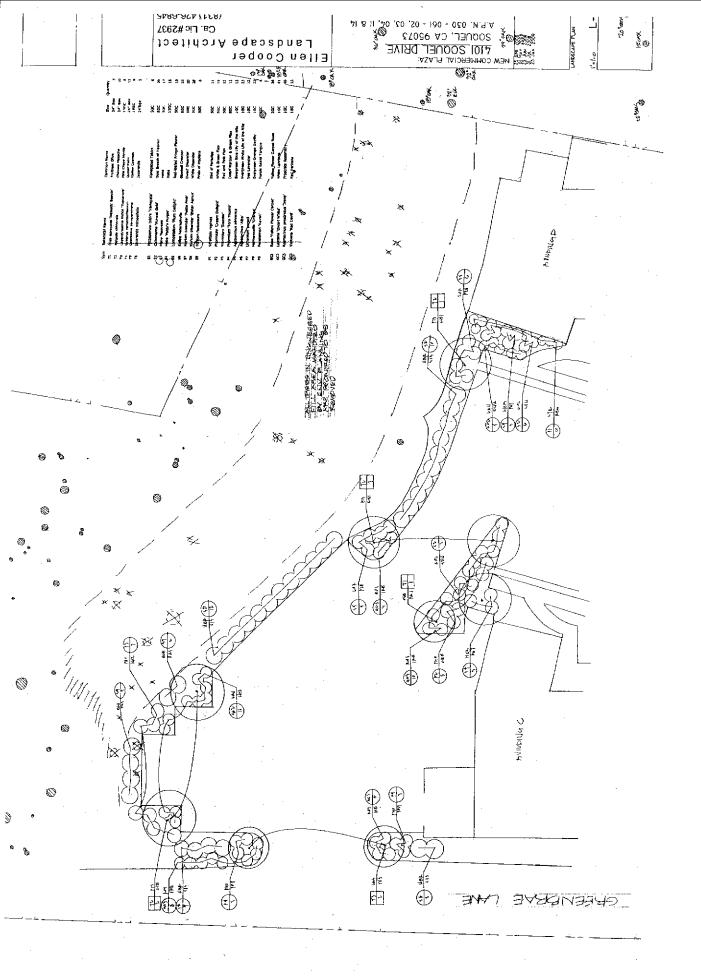
Sincerely,

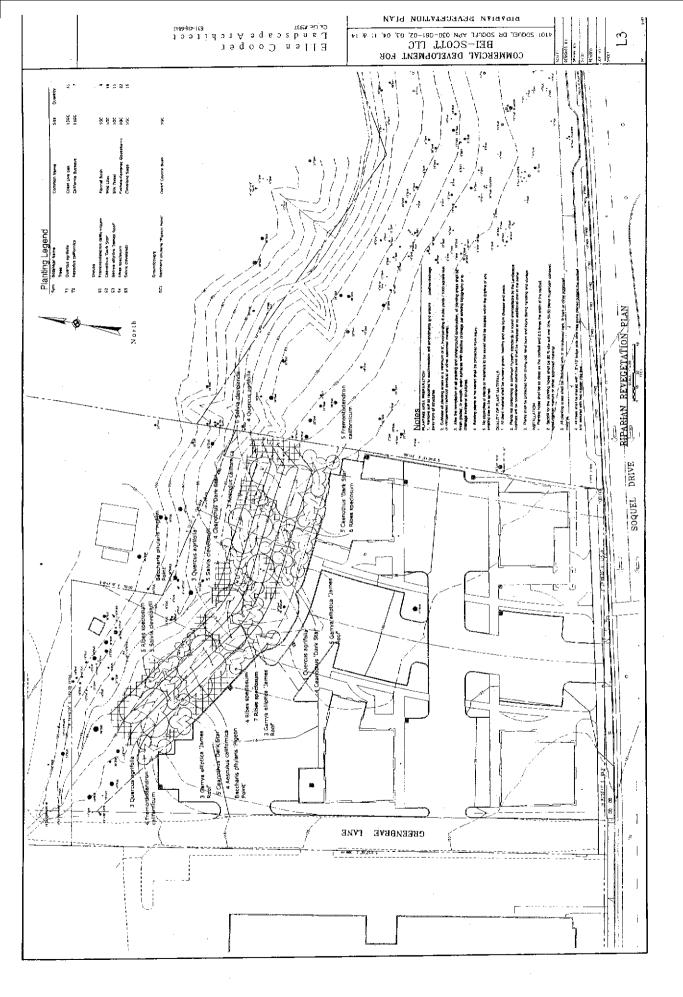
Jeff Roper













March 12, 2009

Mr. Norm Bei Bei-Scott, LLC 410-1 May Avenue Santa Cruz, CA 95060

Re: 4101 Soquel Drive at 41st Avenue Commercial Building, Santa Cruz County, CA Parking Layout Evaluation

Dear Mr. Bei,

Based upon our discussion with Mr. Steve Elmore, the architect for your project, we understand that the County of Santa Cruz (County) has requested an evaluation of the parking lot layout of your project with regards to the proposed extension of 41st Avenue just north of Soquel Drive. The proposed commercial project consists of multiple land uses as mentioned in the trip generation and distribution letter prepared by Hatch Mott MacDonald, formerly known as Higgins Associates, October 3, 2005. It should be noted that any land usage that is not permitted on the project site, as listed in the trip generation and distribution letter, is deemed to be deleted by this letter (i.e. auto repair shop storage). The following paragraphs summarize the conclusions determined from our parking lot evaluation for the project site plan provided by Mr. Elmore on March 6, 2009.

The proposed project parking lot layout includes build and no-build alternatives for the future extension of 41st Avenue. The no-build parking layout option is the short-term alternative, which would be the primary access into the site. However, the second alternative, the build alternative, allows for the ultimate extension of 41st Avenue, which would travel through the middle proposed project site.

Upon review of the project site plan, included as Attachment 1, we believe that the project site plan can accommodate an extension of 41st Avenue extension should it occur. Currently, the intersection of Soquel Drive and 41st Avenue is a signalized T-intersection with northound, eastbound and westbound approaches. The project driveway will form the fourth leg, the southbound approach, of the intersection. Construction of the project will require minor striping improvements and signal modification at the Soquel Drive / 41st Avenue intersection.

The project site plan allows for approximately 74° of right-of-way for the future roadway extension. This right-of-way width is estimated based on the roadway geometry shown on the site plan (2-12° southbound thru lanes, 1-12° left turn lane with a 4° median, 1-12° northbound thru lane, and 6° bike/shoulder and 5° sidewalk on both sides). Prior to the extension, the project proposes to utilize this area as a parking aisle with perpendicular parking spaces on both sides.

1300-8 First Street, Gilroy, CA 95020 * Phone: 408-648-3122 * Fax: 408-846-2202 * www.hatchmott.com

Mr. Norm Bei March 12, 2009 Page 2

Should the 41st Avenue extension be constructed, the parking spaces in this location will be replaced with angled parking on Greenbrae Lane. The lane geometry shown on the site plan for the 41st Avenue extension should be able to accommodate a daily volume of approximately 22,000 vehicles, which would be more than sufficient to accommodate the future traffic demand. The allotted right-of-way width would be sufficient to accommodate the future roadway extension.

If you have any questions regarding this analysis, please do not hesitate to contact me at (408) 848-3122.

Respectfully Jubinitted,

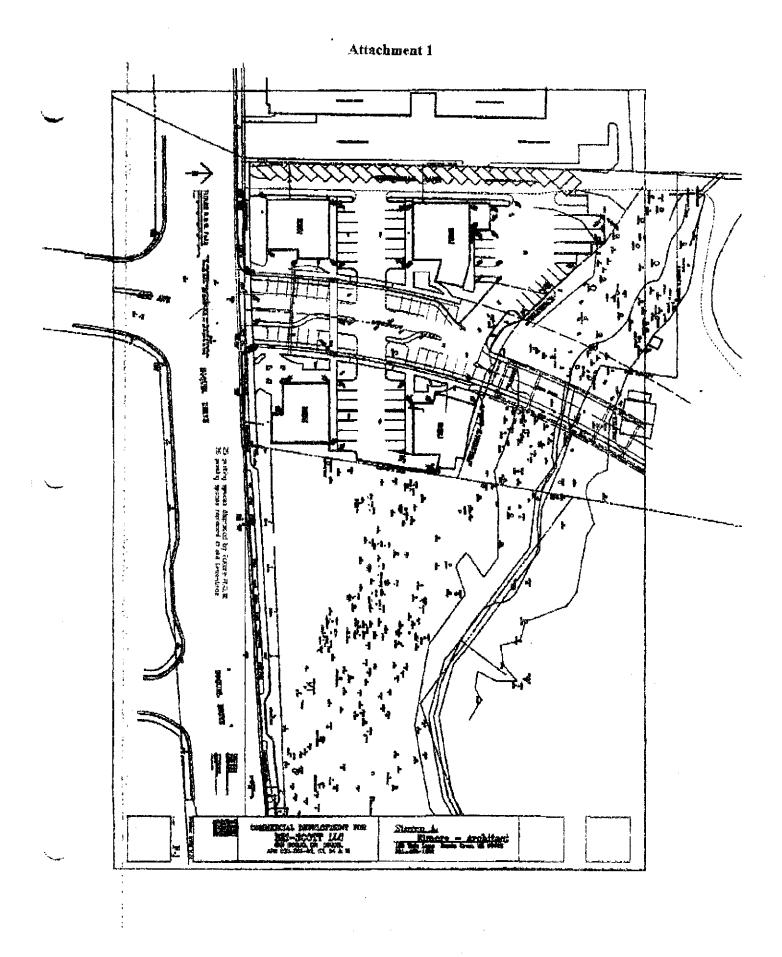
Keith B. Higgins, CE, TE

Vice President

jw:cl

encl.

7-089 Letter2.doc





1300-8 First Street Gilroy, CA 95020 T 408-848-3122 www.hatchmott.com

February 2, 2009

Mr. Norm Bei Bei-Scott, LLC 410-1 May Avenue Santa Cruz, CA 95060

Re: 4101 Soquel Drive Commercial Project, Soquel, California - Status of 41st Avenue Improvements

Dear Mr. Bei,

Hatch Mott MacDonald (formerly Higgins Associates) has prepared this letter regarding your proposed commercial development at 4101 Soquel Drive, at the intersection of 41st Avenue and Soquel Drive, in Soquel, Santa Cruz County, California. This letter addresses the recent implementation of a series of intersection improvements to the 41st Avenue corridor. These improvements were intended to improve operations and lessen impants of other approved developments along the corridor.

Hatch Mott MacDonald has previously prepared multiple traffic analyses for this project, including a trip generation and traffic analysis in October 2005, and an analysis of the 41st Avenue corridor with the re-opening of the Safeway supermarket in July 2007.

Subsequent to the release of the July 2007 analysis, Santa Cruz County indicated that three improvements were proposed along the corridor. These improvements consisted of the following:

- 1. A new traffic signal at the main entrance to the new Safeway and Home Depot stores on 41st Avenue north of Highway 1;
- 2. Reconfiguration of the 41st Avenue bridge over Highway 1 to accommodate three southbound through lanes, through median narrowing and lane restriping; and
- 3. Coordination of the traffic signals at the 41st Avenue intersections with the Highway I southbound ramps and Gross Road.

All of the above improvements would improve operations along 41st Avenue and its intersections, by increasing traffic capacity and efficiency.

As of this writing, all of the aforementioned roadway improvements have been completed and opened to traffic. The traffic signal at the entry to the Home Depot/Safeway shopping center on 41st Avenue has been operational since 2008. The reconfiguration of the 41st Avenue bridge was completed within the past couple of months. Finally, the coordination of the two 41st Avenue traffic signals has been completed since 2007, in conjunction with a widening of the Gross Road approach to 41st Avenue to accommodate a second eastbound left turn lane. These roadway and intersection improvements have enhanced traffic flow along the 41st Avenue corridor.

In summary, a series of roadway and intersection improvements have been implemented to the 41st Avenue corridor. These improvements have improved traffic operations by increasing traffic capacity and efficiency, both at the corridor and intersection levels.

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If you have any questions regarding this letter, please do not hesitate to contact me or Jeff Waller at your convenience. Thank you for the opportunity to assist you with this project.

Sideefely yours,

Keith B. Higgins, CE, T

Vice President

T 408.848.3122 F 408.848.2207 keith.higgins@hatchmott.com

kbh:jmw

Cc: Steve Elmore, Steven A. Elmore Architect

Norm Bei Page 2 01/12/09 E\2009\Jobs\257664 - 4101 41st Avenus\257665 Letter2.doc

1300-B First Street Cilroy, CA 95020 T 408-848-3122 www.hatchmott.com

August 26, 2009

Mr. Norm Bei Bei-Scott, LLC 410-1 May Avenue Santa Cruz, CA 95060

Re: 4101 Soquel Drive Commercial Development – Intersection Analysis and Conceptual Layout Plan, Santa Cruz County, California

Dear Mr. Bei,

Hatch Mott MacDonald has provided additional professional traffic engineering services related to your proposed commercial development at 4101 Soquel Drive in Soquel, Santa Cruz County, California. The Santa Cruz County Public Works Department recently has asked for traffic analysis of the 41st Avenue/Soquel Drive intersection, at which the study project would add a fourth leg to the intersection, in order to provide vehicular access to the project site. The objective of this work is to identify the necessary changes to the intersection, if any, associated with the opening of the study project. The following letter describes the results of this analysis and design.

A. Existing Conditions

Existing traffic volumes at the 41st Avenue/Soquel Drive intersection are depicted in **Exhibit 1**. These volumes are from two sources – 1) April 2008 AM and PM traffic counts provided by Santa Cruz County, and 2) estimated existing traffic entering and exiting the project site. These latter trips were not included within the traffic counts provided by Santa Cruz County. The source for the existing project site trips is the letter report addressed to Mr. S. Elmore, "4101 Soquel Drive Trip Generation, Santa Cruz County, California," Higgins Associates, October 3, 2005.

Exhibit 2 contains the levels of service at the study intersection. **Attachment 1** contains the level of service calculations for the study intersection. Under Existing conditions, the intersection operates at an acceptable LOS C during both the AM and PM peak hours. This is within the Santa Cruz County level of service standard of LOS C.

B. Background Conditions

Traffic volumes under Background conditions were derived based upon the projected Background traffic growth within the traffic report *Ocean Honda and Store More America Traffic Impact Analysis*, Higgins Associates, December 12, 2005. This growth was adjusted to account for the fact that two of the largest approved projects that would generate that growth – the Safeway supermarket expansion and a new Home Depot – were already open in April 2008, when the existing traffic counts were collected. The adjusted Background growth was added to the Existing traffic volumes to create Background traffic volumes.



Exhibit 2 contains the levels of service at the study intersection. Under Background conditions, the intersection would continue to operate at an acceptable LOS C during both the AM and PM peak hours, and thus remain within the Santa Cruz County level of service standard of LOS C.

C. Background Plus Project Conditions

The aforementioned October 2005 letter report by Higgins Associates also documented both the project trip generation and trip distribution for the project. The trip generation for the study project is repeated here within **Exhibit 3A**, along with the aforementioned estimated existing project site traffic activity, while the project trip distribution is repeated as **Exhibit 3B**.

Note that the project site plan proposes to eliminate the existing Greenbrae Lane access to Soquel Drive. This roadway serves 14 residential units north and west of the project site, as well as serves as an exit to the parking lot of various existing automotive repair businesses bordering the project site to the west. **Exhibit 4** contains the estimated trip activity of these uses. With the closure of the Greenbrae Lane access to Soquel Drive, these trips would instead utilize the study project driveway to access Soquel Drive.

The project trip assignment and reassigned Greenbrae Lane traffic was added to the Background condition volumes, and the existing site traffic was removed from said volumes, to create the Background Plus Project traffic volumes shown within **Exhibit 1**.

Exhibit 2 contains the levels of service at the study intersection. Under Background Plus Project conditions, the intersection would continue to operate at an acceptable LOS C during both the AM and PM peak hours, and therefore remain within the Santa Cruz County level of service standard.

D. Cumulative Plus Project Conditions

Traffic volumes under Cumulative Plus Project conditions were derived based upon the projected Cumulative traffic growth within the aforementioned December 2005 Ocean Honda traffic report by Higgins Associates. This growth was adjusted to take into account that one of the larger cumulative projects – the Ocean Honda car dealership – has been approved and is open. The adjusted Cumulative growth was added to the Background Plus Project traffic volumes to create Cumulative Plus Project traffic volumes; said traffic volumes are depicted in **Exhibit 1**.

Exhibit 2 contains the levels of service at the study intersection. Under Cumulative Plus Project conditions, the intersection would continue to operate at an acceptable LOS C during both the AM and PM peak hours, again remaining within the Santa Cruz County level of service standard.



E. Intersection Conceptual Layout Plan

Currently, the project frontage along Soquel Drive is primarily bare ground, level with the street pavement. Vehicles entering and exiting the site do so over much of this frontage. The study project will be adding a more formal fourth leg to the 41st Avenue/Soquel Drive intersection, which will channelize traffic entering and exiting the project site into a single driveway.

Although this analysis found that study project would not change the intersection levels of service, the formal establishment of this fourth leg will trigger the need for various improvements at the 41st Avenue/Soquel Drive intersection. **Attachment 2** graphically depicts a conceptual layout plan of the proposed intersection upgrades, which are itemized below:

- 1. Restripe the eastbound Soquel Drive median to provide a 50-foot eastbound left turn lane into the project site;
- 2. Install two missing backplates to two existing signal heads facing the westbound left turn lane, in order to improve signal visibility;
- 3. Add new pedestrian signal heads for pedestrians crossing the project driveway;
- 4. Replace the existing three-section signal head at the northwest corner of the intersection with an upgraded three-section signal head;
- 5. Replace the existing signal pole, mast arm, and signal heads at the southeast corner of the intersection, in order to provide new signal heads for the eastbound left turn and all southbound traffic movements;
- 6. Replace existing sign pole within the median of 41st Avenue with a new signal pole and four-section signal head, facing southbound traffic. Re-install the existing signs onto the new signal pole;
- 7. Install new four-section signal head at the northeast corner of the intersection. This new signal head will require a new signal pole.
- 8. Add a new three-section signal head and signal pole, facing southbound traffic, near the new project driveway. The preferred location for this signal pole would be behind the sidewalk on the study project property, which may require an encroachment easement by Santa Cruz County onto the property;
- 9. Add a new three-section signal head on an existing signal pole at the southwestern corner of the intersection;
- Add eastbound Soquel Drive protected left turn phase to the signal operations;
 and

Norm Bei Page 3 08/26/09



11. Convert northbound and southbound 41st Avenue-Project Driveway to split signal phasing operations.

These improvements will formalize access to the project, provide the minimum required signal improvements to the intersection, improve signal visibility, and improve traffic flow through the intersection.

Note that additional improvements may be necessary at this intersection, in order to meet state and federal standards. The specific design, placement, and timing of these improvements would need to be finalized during a formal design of the intersection. These improvements include the following:

- 12. Although a curb return ramp does exist at the southwest corner of the intersection, its size and location may not be compliant with the American Disabilities Act (ADA). Future upgrading of this corner to ADA compliance may require acquiring additional right-of-way from the adjacent property owner;
- 13. Curb returns be constructed at the project driveway, with ADA-compliant ramps, versus the proposed driveway apron shown on the project site plan. Use of driveway aprons at a signalized intersection can lead to vehicles "bottoming out," or scraping the undercarriage of the vehicle on the apron, as they pass through the intersection;
- 14. With the introduction of the new eastbound Soquel Drive left turn lane at the intersection, it is recommended that westbound left turns into the driveway for the King's Paint and Paper business, located at the southeast corner of the intersection, be prohibited. This will keep vehicles bound for this business from blocking either the left turn lane into the site or the adjacent westbound through lane on Soquel Drive; and
- 15. The conceptual layout plan within Attachment 2 does not include the establishment of a crosswalk across the western Soquel Drive leg of the intersection. Due to the lack of pedestrian activity in this area, a crosswalk at this location is not deemed necessary at this time. However, County staff has expressed a desire to add this crosswalk in the future, in conjunction with a potential northerly extension of 41st Avenue through the project site. The conceptual layout plan within Attachment 2 does not preclude the future establishment of either said crosswalk or an associated pedestrian signal phase.

Implementation of these improvements would further improve traffic and pedestrian circulation at the intersection.

76/85

Hatch Mott MacDonald

F. Conclusion

In summary, operations of the 41st Avenue/Soquel Drive intersection currently operate within acceptable levels of service, and will remain there through Cumulative conditions. The study project will not shift intersection traffic operations into a deficient level of service. Despite this, the formalizing of the fourth leg of this intersection will trigger the need for various signal and roadway restriping improvements, including a new eastbound left turn lane and various signal pole and head upgrades. Additional curb improvements and turning restrictions are also recommended.

If you have any questions regarding this letter or need additional information, please contact me at your convenience. Thank you for the opportunity to assist you with this project.

Very truly yours,

Hatch/Mott MacDonald

Keith B. Higgins, CE, TE

Vice President

T 408.848.3122 F 408.848.2202 keith,higgins@hatchmott.com

kbh:jmw enclosures

cc:

Steve Elmore, Steve Elmore Architect

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EXISTING	SOQUET 121 4 151 24 250 2 1 250 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	41ST 41ST 6455 41ST 41ST 6015 41ST 41ST 6015 4	
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CUMULATIVE PLUS PROJECT	AVENUE 772 + 109 PAVENUE 772 + 120 PAVENUE 772 + 120 PAVENUE 772 + 120 PAVENUE 772 PAVENUE	SOQUEL 4 485 SOQUEL 4 7 127 DRIVE 4 7 681 7 681 7 7 681 7 7 681	

EXHIBIT 1 INTERSECTION TRAFFIC VOLUMES



1300-8 First Street Cilroy, CA 95020 T 408-848-3122 www.hatchmott.com

February 2, 2009

Mr. Norm Bei Bei-Scott, LLC 410-1 May Avenue Santa Cruz, CA 95060

Re: 4101 Soquel Drive Commercial Project, Soquel, California – Status of 41st Avenue Improvements

Dear Mr. Bei,

Hatch Mott MacDonald (formerly Higgins Associates) has prepared this letter regarding your proposed commercial development at 4101 Soquel Drive, at the intersection of 41st Avenue and Soquel Drive, in Soquel, Santa Cruz County, California. This letter addresses the recent implementation of a series of intersection improvements to the 41st Avenue corridor. These improvements were intended to improve operations and lessen impacts of other approved developments along the corridor.

Hatch Mott MacDonald has previously prepared multiple traffic analyses for this project, including a trip generation and traffic analysis in October 2005, and an analysis of the 41st Avenue corridor with the re-opening of the Safeway supermarket in July 2007.

Subsequent to the release of the July 2007 analysis, Santa Cruz County indicated that three improvements were proposed along the corridor. These improvements consisted of the following:

- 1. A new traffic signal at the main entrance to the new Safeway and Home Depot stores on 41st Avenue north of Highway 1;
- 2. Reconfiguration of the 41st Avenue bridge over Highway 1 to accommodate three southbound through lanes, through median narrowing and lane restriping; and
- 3. Coordination of the traffic signals at the 41st Avenue intersections with the Highway 1 southbound ramps and Gross Road.

All of the above improvements would improve operations along 41st Avenue and its intersections, by increasing traffic capacity and efficiency.

As of this writing, all of the aforementioned roadway improvements have been completed and opened to traffic. The traffic signal at the entry to the Home Depot/Safeway shopping center on 41th Avenue has been operational since 2008. The reconfiguration of the 41th Avenue bridge was completed within the past couple of months. Finally, the coordination of the two 41th Avenue traffic signals has been completed since 2007, in conjunction with a widening of the Gross Road approach to 41th Avenue to accommodate a second eastbound left turn lane. These readway and intersection improvements have enhanced traffic flow along the 41th Avenue corridor.

In summary, a series of roadway and intersection improvements have been implemented to the 41" Avenue corridor. These improvements have improved traffic operations by increasing traffic capacity and efficiency, both at the corridor and intersection levels.

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If you have any questions regarding this letter, please do not hesitate to contact me or Jeff Waller at your convenience. Thank you for the opportunity to assist you with this project.

Sidestely yours

Keith B. Higgins, CE, T

Vice President

T 408.848.3122 F 408.848.2207 keith.higgins@hatchmott.com

kbh:jn:w

Cc: Steve Elmore, Steven A. Elmore Architect

Norm Bei Page 2 01/12/09 E\2009\\055\Z57664 - 4101 41st Avenue\257665 Letter2.doc October 3, 2005

Mr. Steve Elmore 780 Volz Lane Santa Cruz, CA 95062

Re: 4101 Soquel Drive Trip Generation, Santa Cruz County, California

Dear Steve,

Higgins Associates has compiled the estimated trip generation and distribution for the proposed commercial development to be constructed on Soquel Drive at 41st Avenue in Santa Cruz County, California. Per the standard criteria of the Santa Cruz County Public Works Department for new development, Higgins Associates has first prepared the estimated trip generation and distribution for the project, as a precursor to the traffic analysis for the project. This letter report contains the trip generation estimate for the project, and our anticipated project trip distribution within the greater Capitola/Soquel area.

A. Trip Generation:

Trip generation for the study project, has been estimated by Higgins Associates, based in part upon the previous study trip generation estimate and our discussions. Exhibit 1 contains the trip generation estimate for the study project. The project would construct a 16,710 square foot retail/office center, with 13,080 square feet of retail, 3,630 square feet of professional office space, and a caretaker's apartment unit. The project site is made up of five existing and adjacent parcels that are currently occupied by a vacuum cleaner repair shop and associated storage sheds, two single-family homes, storage space for an auto repair shop located adjacent to the project site, a painting contractor's storage area, and a tree-trimming business yard.

The trip generation for the future use was based upon trip generation rates published in the Institute of Transportation Engineers' (ITE) *Trip Generation*, 7th Edition, 2003.

A reduction was taken to account for the trips currently generated on the project site by existing uses. Subtractions were made for trips generated by the site's current uses. The trip generation for these existing uses was estimated based upon the ITE trip rates for all but one of the uses. Trip generation for the tree-trimming business was estimated based upon the assumptions that each of the business' four employees generate 6 daily trips, and that the business hours of operation begin during the AM peak hour and end during the PM peak hour. Those traffic volumes were subtracted from the project trips to estimate the net increase in trip generation at the project site due to the proposed project.

Mr. Steve Elmore October 3, 2005 Page 2

In total, the project would generate a net 498 daily trips, with a net 12 trips (9 in, 3 out) during the AM peak hour, and a net 26 trips (10 in, 16 out) during the PM peak hour.

B. Trip Distribution:

The anticipated project trip distribution is shown on Exhibit 2, and repeated below:

	•	AM	PM
Direction	Percent	Peak	Peak
		Hour	Hour
To/From the North:	. 5%	1	1
via Porter St/San Jose-Soquel Rd – 5%		1	1
To/From the South:	35%	4	9
via 41 st Avenue – 25%		2	7
via Bay Avenue/Porter Street – 5%		1	1
via Robertson Street/Wharf Road - 5%		1	1
To/From the East:	25%	3	7
via Highway 1 – 15%	2370	2	4
via Soquel Drive – 10%	••	1	3
via Soquei Drive - 1070		1	
To/From the West:	35%	4	9
via Highway 1 – 20%		2	5
via Soquel Avenue/Soquel Drive – 10%		1	3
via Thurber/Winkle/Dover Neighborhoods -	- 5%	1	1
TOTAL:	100%	18	39

This distribution is based upon the proposed land use, and the likely areas from which it would attract visitors. The project is a small retail/office center, with many smaller-sized shops and offices. These types of businesses, being small, would primarily attract customers from the local area, i.e. Capitola, Soquel, and, to a lesser extent, Live Oak, rather than more regionally. The trip distribution is based upon the relative size of the residential neighborhoods accessible via the arterial and state highway street network in the project vicinity.

Mr. Steve Elmore October 3, 2005 Page 3

C. Conclusion:

In summary, the study project is estimated to generate a net 498 daily trips, over and above the estimated existing site trip generation. The project trip distribution also has been derived.

Thank you for the opportunity to assist you with this analysis. If you have any questions, please contact either myself or Jeff Waller at (408) 848-3122.

Sincerely yours

Keith B. Higgins, CE, TE

kbh:jmw

Attachments

84/85

Notes:

- Trip generation for based upon rates published in institute of Transportation Engineers (ITE) Trip Generation, 7th Edition, 2003, unless otherwise noted
 - ITE does not provide AM peak hour trip generation rates for Specialty Retail land use. Trip generation uses rates provided in Brief Guide of Vehicular Traffic Generation Rates for the San Diego Region, San Diego Association of Governments, July 1998.
 - Vaccuum Repair Business square footage includes accessory storage buildings currently used for inventory storage. Trip generation for auto repair shop storage estimated as warehousing.
 - Trip generation for painting contractor's shed estimated as light industrial land use.

ATTACHMENT 9

Trip generation for tree-trimming business is estimated based upon assumptions of 6 daily trips per employee, and operating hours that begin during the AM peak hour and end during the PM peak hour. **Project Trip Generation**

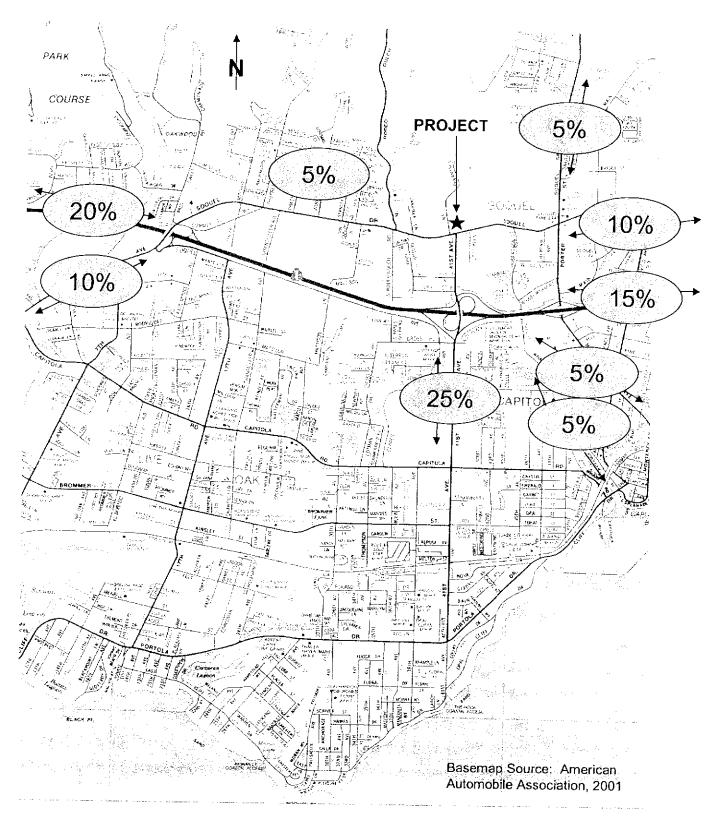




EXHIBIT 2 – PROJECT TRIP DISTRIBUTION