

# Staff Report to the Zoning Administrator

Application Number: 171216

Applicant: Arvind Agarwal

Owner: Beach Drive Investors, LLC

APN: 043-152-71

Agenda Date: April 20, 2018

Agenda Item #: 2 Time: After 9:00 a.m.

**Project Description**: Proposal to construct a 3-story, five bedroom single-family dwelling and grade more than 1,000 cubic yards within a Coastal Scenic Area, located in the RB (Single-Family Ocean Beach Residential) district, and a determination that the project will not have a significant adverse effect on the environment with the proposed mitigations.

**Location**: Property located on the north side of Beach Drive about 1 mile southeast of Rio Del Mar Blvd. (at 548 Beach Drive, a vacant parcel).

Supervisorial District: District 2 (District Supervisor: Zach Friend)

**Permits Required:** Requires a Coastal Development Permit, Large Dwelling Permit, Preliminary Grading Approval, a Variance to increase the number of stories to three and to reduce the required 20 foot setback to the entrance of the garage to about 9 feet, Design Review.

Technical Reviews: Requires a combined Geologic/Geotechnical Report Review (REV171087).

#### Staff Recommendation:

- Adopt the Mitigated Negative Declaration prepared pursuant to the California Environmental Quality Act.
- Approval of Application 171216, based on the attached findings and conditions.

#### **Exhibits**

A.	Project Plans	F.	Review of Addendum to
В.	Findings		Geotechnical and Geological Report
C.	Conditions	G.	Assessor's, Location, Zoning and
D.	Mitigated Negative Declaration		General Plan Maps
	(CEQA document submitted for	Н.	Photo Simulations
	permit # 04-0255)	I.	Comments & Correspondence
E.	Addendum to Geotechnical and		
	Geological Report		

County of Santa Cruz Planning Department 701 Ocean Street, 4th Floor, Santa Cruz CA 95060

#### Parcel Information

Parcel Size: 12,888 square feet (determined by survey)

Existing Land Use - Parcel: Vacant land

Existing Land Use - Surrounding: Single-Family Dwellings

Project Access: Beach Drive (a private road at this location)

Planning Area: Aptos

Land Use Designation: R-UL (Urban Low Density Residential)

Zone District: RB (Single-Family Ocean Beach Residential)

Coastal Zone:  $\underline{X}$  Inside \_\_\_ Outside Appealable to Calif. Coastal Comm.  $\underline{X}$  Yes \_\_\_ No

#### **Environmental Information**

Geologic Hazards: FEMA Flood Zone VE (wave run-up hazard zone), landslide

potential at the base of coastal bluff

Soils: Beach sand (soils map index number 109, 133) and Purisima

Foundation sands

Fire Hazard: Not a mapped constraint

Slopes: 50% to over 70% (base of coastal bluff)

Env. Sen. Habitat: Not mapped/no physical evidence on site Grading: Approximately 1.440 cubic yards

Grading: Approximately 1,440 cubic yards
Tree Removal: No trees proposed to be removed

Scenic: Scenic

Drainage: Drainage system reviewed by Department of Public Works

Archeology: Not mapped/no physical evidence on site

#### Services Information

Urban/Rural Services Line: X Inside Outside

Water Supply: Soquel Creek

Sewage Disposal: Santa Cruz County Sanitation District Fire District: Aptos/La Selva Fire Protection District

Drainage District: Flood Zone 6

#### **History**

This project was previously approved by the Board of Supervisors on September 26, 2006 (Application # 04-0255). The project was appealed to the California Coastal Commission on October 17, 2006 and later approved by them on September 6, 2007. The Coastal Commission granted a one year extension to the Coastal Development Permit to expire on September 6, 2012. The owner, Mr. Agarwal, submitted plans for a building permit, but later decided not to develop and sold the land to another entity who continued the building permit process. The building permit was approved, but the new owners never exercised it and the permit expired. The previous owner, Mr. Agarwal, bought back the land, and has submitted almost identical plans for a new coastal permit since the previous one expired.

## **Project Setting**

The project site is located on the bluff side of the private section of Beach Drive in Aptos, between existing residences at 544 Beach Drive and 615 Beach Drive. The property is steeply sloped, with the entire site in excess of 50% slopes. There are mostly one-story homes that exist on the coast side of Beach Drive between the project site and the beach.

## Zoning & General Plan Consistency

The subject property is a parcel of approximately 12,888 square feet, located in the RB (Single-Family Ocean Beach Residential) zone district, a designation which allows residential uses. The proposed single-family home is a principal permitted use within the zone district and the zoning is consistent with the site's R-UL (Urban Low Density Residential) General Plan designation.

Outlined below are the required site standards and what the applicant is proposing:

	RB Site Standards	Proposed
Front yard setback	10 feet*	6 feet
Setback to garage	20 feet	9 feet**
Side yard setbacks	0 feet and 5 feet	24 feet, 5 inches each side
Rear yard setback	10 feet	62 feet, 3 inches
Lot coverage	40%	17.74%
Floor Area Ratio	50%	46.8%
Maximum height	25 feet on bluff side	24 feet, 6 inches
Maximum # of stories	2	3**

<sup>\*</sup>No front yard setback requirements for RB zoned parcels with slopes greater than 25% within 30 feet of the right-of-way per Section 13.10.323(d)(5)(B) of the County Code.

## **Local Coastal Program Consistency**

The subject parcel retains a General Plan/Local Coastal Program Land Use Designation of R-UL (Urban Low Density Residential), implemented by the RB (Single-Family Ocean Beach Residential) zone district. The proposed single-family dwelling complies with the purposes of this Land Use Designation, as the primary use of the site will remain residential.

## Geologic Hazards

General Plan policy 6.2.10 requires all development to be sited and designed to avoid or minimize hazards as determined by geologic or engineering investigations. Due to the location of the parcel adjacent to an open beach at the toe of a coastal bluff, potential coastal flooding and landslide hazards cannot be avoided and therefore must be mitigated. General Plan policy 6.2.15 allows for new development on existing lots of record in areas subject to storm wave inundation or coastal bluff erosion in circumstances where a technical report demonstrates that potential hazards can be mitigated over the 100-year lifetime of the structure. Mitigations can include, but are not limited to, building setbacks, elevation of the structure, foundation design, and recorded deed restrictions that describe the potential hazard and the level of geologic and/or geotechnical investigation conducted.

<sup>\*\*</sup>Variance required.

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If properly constructed and maintained, the project design is expected to provide protection from landslide hazards and flooding during 100-year storm events within a 100-year lifespan of the structure.

The proposed dwelling is located at the base of a coastal bluff where it will be vulnerable to damage or destruction from landslides and slope failure. The original geotechnical and geologic report dated June 21, 2013 was prepared to address these hazards and provided recommendations for the proposed single family home for approved application # 04-0255. The project soils engineer and geologist recommended constructing the dwelling with a reinforced concrete structure designed to withstand the impact of any expected landslides, utilizing a "bunker" style design with a flat roof constructed of reinforced concrete and the sides of the structure designed as retaining walls to prevent damage by landslide flows along the side yards. The structure will be built flush with the face of the slope to minimize impacts to the rear of the dwelling. Finally, the foundation is designed to withstand slope failure and to mitigate for unconsolidated soils. As recommended by the project geologist and soils engineer, deck areas will be covered by an overhang to provide refuge in the event of a landslide. The proposed single family home is almost identical to the home proposed in permit # 04-0255. Addendums to the geotechnical and geological report were submitted to present additional recommendations for the proposed project (Exhibit E). The addendums indicated the previously submitted Geotechnical and Geological Report and recommendations dated June 21, 2013 were still valid with some additional seismic design provisions to comply with the 2013 California Building Code. The County Geologist accepted the submitted addendums with additional requirements (Exhibit F).

The project site is located within FEMA Flood Zone VE, a 100-year coastal flood hazard zone designation area subject to inundation resulting from run-up from waves and storm surges. FEMA regulations and the County Geologic Hazards ordinance (Chapter 16.10) require flood elevation of all new residential structures within 100-year flood zones. FEMA determined the expected 100-year wave impact height to be 22 feet above mean sea level (M.S.L.). The lowest habitable floor of the proposed dwelling is elevated more than one foot above 22 feet M.S.L. to prevent the habitable portions of the dwelling from flooding due to a 100-year storm surge. The garage doors and non-load bearing walls must function as "break-away" walls as required by the FEMA regulations for development in the VE Zone and by Chapter 16.10 of the County Code.

The dwelling at 641 Beach Drive was the first structure approved incorporating this design (permit # 91-0506, approved in 1993). Other dwellings with a similar design have been approved elsewhere on Beach Drive, including at the southeast end of Beach Drive under Coastal Development Permit 99-0354 and 04-0044, and further south at 631 Beach Drive under permit 06-0688.

#### Grading and Erosion Control

General Plan/LCP policy 8.2.2 requires new development to be sited and designed to minimize grading, avoid or provide mitigations for geologic hazards and conform to the physical constraints and topography of the site. The project has been designed to step down the slope to reduce excavation and to conform to the topography of the site to the greatest extent possible while maintaining a dwelling of similar size to neighboring homes on Beach Drive.

The proposed dwelling will not destabilize or exacerbate erosion of the bluff, and when completed

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will act as retaining structures to stabilize the toe of the bluff. The only potential for bluff destabilization will occur during excavation and construction. To minimize the chances of a failure occurring during this period, the project soils engineer has outlined a plan for construction phasing. Following are the key elements of this plan:

- Site grading and retaining wall construction must take place between April 15<sup>th</sup> and October 15<sup>th</sup>, when the site is dry.
- The project soils engineer and geologist must be on site during the work.
- Excavation and construction should begin at the top and work downward, a section at a time.
   Under this plan, a portion of the cliff would be excavated, followed by construction of that portion of the wall. After that section of the wall is completed, the next lower section of the cliff would be excavated.

A detailed work plan following these elements will be submitted with the building permit application. This work plan will detail the height of each individual section to be excavated and retained, and will take into account any concurrent excavation into the bluff for neighboring projects. Furthermore, a Waiver, Indemnification, Bonding and Insurance Agreement will be required, which will include a requirement that the applicant/owner obtain and maintain Comprehensive Personal Liability (or equivalent) or Owner's Landlord and Tenant Liability Insurance coverage (as appropriate) of \$1,000,000 plus an additional \$1,000,000 of excess coverage to insure construction of the retaining structure will be completed in a timely manner (see Condition of Approval I.D). In addition, security bonds will be required to ensure bluff stabilization work can be completed by the County if construction stops prior to completion of all necessary shoring, retaining walls, tie-backs, and any other construction required to stabilize the bluff. One bond will be for 150% of the total construction cost to stabilize the bluff, which will be released after satisfactory completion of all retention structures as determined by the County Geologist. The second bond will be for 50% of the above construction costs, to be released not less than one year after final inspection (see Condition of Approval II.D.7).

## Public Access

The proposed project complies with Policy 7.7.10 of the General Plan/LCP (Protecting Existing Beach Access) in that pedestrian and emergency vehicle access will not be impeded by the proposed dwelling and construction, and no public access easements exist across the subject property. Furthermore, the site is not designated for Primary Public Access in Policy 7.7.15 of the General Plan/LCP, and is not suitable for access due to the steep topography of the site.

#### **Design Review**

The proposed single family home is located within a mapped scenic resource area and must comply with General Plan Objective 5.10b (New Development within Visual Resource Areas). The purpose of this objective is to ensure that new development is appropriately designed and constructed to have minimal to no adverse impact upon identified visual resources. General Plan/LCP policies 5.10.2 and 5.10.3 require that development in scenic areas be evaluated against the context of their environment, utilize natural materials, blend with the area and integrate with the landform and that significant public vistas be protected from inappropriate structure design. General Plan/LCP policy 5.10.7 allows structures to be visible from a public beach when compatible with existing homes.

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The project site is located behind a line of existing one-story homes on the coast side of Beach Drive, and adjacent to existing single-family dwellings constructed in the late 1960s. The upper story of the proposed dwelling will be visible from the open beach at low tides (see photo simulations, Exhibit H). However, the design of the structure will be integrated into the Beach Drive neighborhood in terms of height, bulk, mass, scale, architectural style, colors and materials.

## Large Dwelling Review

The proposed dwelling is 6,035 square feet which includes the ground floor garage and habitable space on the upper floors. Section 13.10.325 states a Large Dwelling Permit is required when residential structures exceed 5,000 square feet.

The size of the residence will be larger than some, but it will be proportional to the size of the lot. The floor area ratio for the proposed project is below what is allowed at 46.8%. Listed in the chart below are other homes in the neighborhood have received discretionary approvals to exceed the allowable floor area ratio:

Permit #	Allowed FAR (%)	Proposed FAR (%)
99-0354	50%	63.7%
05-0200	50%	56%
08-0227	50%	55%
111215	50%	58%

The proposed project complies with the site standards for floor area ratio and lot coverage. The overall mass of the structure will be broken up by stepping back the top (third) level to be flush with the hillside, and by the central clearstory which breaks the structure into three horizontal components. The subject lot is located on the bluff side of Beach Drive within a line of existing and proposed single-family dwellings of a similar height and style. The project will integrate with the built environment along Beach Drive by retaining a similar height, bulk, mass, and scale to existing and recently approved development in the vicinity. The house follows the natural topography by stepping up the hillside, proposes minimal grading considering the topography of the site, and is visually compatible with the character of the surrounding residential neighborhood. The height of the dwelling does not exceed 25 feet in conformance with the height limit for the RB zone district, and is consistent with most of the existing and proposed adjacent residences. The proposed dwelling will use earth-tone colors to blend in with the bluff to the rear.

#### Variance to Allow Three Stories and Reduced Setback to Garage Entry

To construct a house within the limitations placed on the site by flooding hazards, visual compatibility, and General Plan policies to minimize grading, the applicant has requested variances to site standards to increase the maximum number of stories to three from two and to allow a reduced setback to the garage entry from 20 feet to 9 about feet.

The County Code prohibits single-family dwellings greater than two stories within the urban services line without obtaining a variance approval. To compensate for FEMA flood elevation requirements, construct within the constraints of the site, and minimize grading, the applicant has requested a

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variance to construct a three-story single-family dwelling similar to existing homes on the bluff side of Beach Drive. The steep topography of the site (with slopes greater than 70%) and the FEMA flood elevation requirements present special circumstances inherent to the property that would deny the property owner a reasonably sized dwelling as enjoyed by residents of similar structures on the bluff side of Beach Drive. Many homes along the bluff side of Beach Drive already have three stories, including recently approved applications on adjacent lots. For this reason, the granting of a variance to allow three stories will not constitute the granting of a special privilege.

District site standards (County Code 13.10.323) require a 20 foot minimum setback to a garage or carport entrance for all districts, to allow for off street parking and sight distance. The proposal sets the face of the garage at approximately 9 feet from the front property line. The steep slopes and unstable bluff are special circumstances that restrict the garage to the forward part of the property. Any other location would require extensive grading, which is discouraged by Code. The proposal requires 5 off street parking spaces. All five are being provided in the proposed garage. The variance to allow a reduced setback to the garage will not be detrimental to the public health, safety, or welfare, or be injurious to property or improvements in the vicinity. There is approximately 19 feet from the edge of the traveled roadway to the face of the garage. Nine of those feet are located entirely outside of the right-of-way to back out and all of the parking for the home is out of the right of way. The variance is not a grant of special privilege, as construction of any home under similar circumstances would be granted a similar variance.

#### **Environmental Review**

Environmental review was required for this project when it was first proposed under permit # 04-0255 per the requirements of the California Environmental Quality Act (CEQA) because more than 1,000 cubic yards of grading was and is currently being proposed on this submittal. The previous project was reviewed by the County's Environmental Coordinator on December 14, 2005. The mandatory public comment period expired on January 20, 2006, with comments received from the Monterey Bay Air Pollution Control District and the Association of Monterey Bay Area Governments (AMBAG) (Exhibit D). The currently proposed project (Application # 171216) is almost identical to the home proposed under permit # 04-0255). As reports indicate, there are similar physical and ecological conditions today compared to 2006. It is therefore determined that the same mitigations to the project that were proposed under permit # 04-0255 shall apply to this project as well (application 171216).

#### Conclusion

As proposed and conditioned, the project is consistent with all applicable codes and policies of the Zoning Ordinance and General Plan/LCP. Please see Exhibit "B" ("Findings") for a complete listing of findings and evidence related to the above discussion.

#### **Staff Recommendation**

- Adopt the Mitigated Negative Declaration prepared pursuant to the California Environmental Quality Act.
- APPROVE Application Number 171216, based on the attached findings and conditions.

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Supplementary reports and information referred to in this report are on file and available for viewing at the Santa Cruz County Planning Department, and are hereby made a part of the

administrative record for the proposed project.

The County Code and General Plan, as well as hearing agendas and additional information are available online at: <a href="www.co.santa-cruz.ca.us">www.co.santa-cruz.ca.us</a>

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## **Coastal Development Permit Findings**

1. That the project is a use allowed in one of the basic zone districts, other than the Special Use (SU) district, listed in section 13.10.170(D) as consistent with the General Plan and Local Coastal Program LUP designation.

This finding can be made, in that the property is zoned RB (Single-Family Ocean Beach Residential), a designation which allows residential uses. The proposed single-family dwelling is a principal permitted use within the zone district, and the zoning is consistent with the site's R-UL (Urban Low Density Residential) General Plan designation.

2. That the project does not conflict with any existing easement or development restrictions such as public access, utility, or open space easements.

This finding can be made, as the parcel is not encumbered by any open space easements or similar land use contracts. The project will not conflict with any existing right-of-way easement or development restrictions as none exist. The proposed dwelling will not affect public access as none exists down the cliff face at this location, and the project will not impede lateral pedestrian access.

3. That the project is consistent with the design criteria and special use standards and conditions of this chapter pursuant to Section 13.20.130 and Section 13.20.140 et seq.

The proposed single-family dwelling is consistent with the design criterial and special use standards and conditions of County Code 13.20.130 and 13.20.140 et seq. for development in the coastal zone. Specifically, the house follows the natural topography by stepping up the hillside, proposes minimal grading considering the topography of the site, and is visually compatible with the character of the surrounding residential neighborhood, and includes mitigations for the coastal hazards which may occur within its 100 year lifespan (landslides, seismic events and coastal inundation). The project is not on a ridgeline, and does not obstruct any public views to the shoreline. The design and siting of the proposed residence will minimize impacts on the site and the surrounding neighborhood. The house will incorporate earth-tone colors to blend in with the vegetation on the bluff to the rear.

4. That the project conforms with the public access, recreation, and visitor-serving policies, standards and maps of the General Plan and Local Coastal Program land use plan, specifically Chapter 2: figure 2.5 and Chapter 7, and, as to any development between the nearest through public road and the sea or the shoreline of any body of water located within the coastal zone, such development is in conformity with the public access and public recreation policies of Chapter 3 of the Coastal Act commencing with section 30200.

The project site is located in the appealable area between the shoreline and the first through public road. Public access to the beach is located further up Beach Drive at the State Parks parking lot (about 600 feet northwest of the proposed dwelling). The project will not interfere with public access to the beach, ocean, or any other nearby body of water. The project site is not identified as a priority acquisition site in the County Local Coastal Program, and is not designated for public recreation or visitor serving facilities.

## 5. That the proposed development is in conformity with the certified local coastal program.

The proposed single-family dwelling is consistent with the County's certified Local Coastal Program in that a single-family dwelling is a principally permitted use in the RB (Single-Family Ocean Beach Residential) zone district with an approved Coastal Development Permit. General Plan policy 6.2.15 allows for development on existing lots of record in areas subject to storm wave inundation or beach or bluff erosion within existing developed neighborhoods and where technical reports demonstrate that the potential hazards can be mitigated over the 100-year lifetime of the structure. Mitigations can include, but are not limited to, building setbacks, elevation of the structure, friction pier or deep caisson foundation; and where mitigation of the potential hazard is not dependent on shoreline protection structures except on lots where both adjacent parcels are already similarly protected; and where a deed restriction indicating the potential hazards on the site and level of prior investigation conducted is recorded on the property deed with the County Recorder. Amendments to the previously submitted Engineering Geologic and Geotechnical report have prepared for this project evaluating hazards and mitigations. These reports have been reviewed and accepted by the County of Santa Cruz. The proposed structure will be engineered to withstand landslide impacts on a reinforced roof, retaining most of the landslide materials on the roof with any excess flowing over the structure. The project is specifically designed to accommodate natural coastal erosion processes of the bluff face. The dwelling must be constructed flush with the bluff as any exposed rear walls cannot be feasibly designed to withstand the impact of a catastrophic landslide event. Thus, the rear walls must be designed as retaining walls and anchored into the bluff to prevent landslide impacts from displacing the structure. The dwelling will be elevated with no habitable portions under 22 feet above mean sea level, in accordance with FEMA regulations, the County General Plan policies and Chapter 16.10 of the County Code for development within the 100-year wave hazard zone (VEzone). Thus, the proposed development is consistent with this General Plan Policy.

General Plan/LCP policy 5.10.7 allows structures, which would be visible from a public beach, where compatible with existing development. The subject lot is located on the bluff side of Beach Drive within a line of existing and proposed single-family dwellings of a similar height. The project is consistent with General Plan policies for residential infill development as the proposed dwelling will integrate with the built environment along Beach Drive by retaining a similar height, bulk, mass, and scale to existing and recently approved development in the vicinity. The height of the dwelling does not exceed 25 feet in conformance with the height limit for the RB zone district, and is consistent with most of the existing and proposed adjacent residences. The size of the structure is consistent with the lot coverage and floor area ratio of the zone district. The bulk of the residence, though slightly larger than homes in the immediate vicinity, will be broken up by the central clearstory and the stepped design. Dwellings on the beach side of Beach Drive have different site standards and therefore cannot be used to determine compatibility. General Plan/LCP policies 8.6.5 and 8.6.6 require that development be complementary with the natural environment and that the colors and materials chosen blend with the natural landforms. The proposed dwelling will use earth-tone colors to blend in with the bluff to the rear.

## **Development Permit Findings**

1. That the proposed location of the project and the conditions under which it would be operated or maintained will not be detrimental to the health, safety, or welfare of persons residing or working in the neighborhood or the general public, and will not result in inefficient or wasteful use of energy, and will not be materially injurious to properties or improvements in the vicinity.

This finding can be made, in that the project is located in an area designated for residential uses, and the proposed project complies with all development regulations applicable to the site with the exception of the limitation on the maximum number of stories, for which a variance is being sought. The parcel is located within a coastal hazard area and is expected to be subject to wave inundation, landslides and seismic shaking hazards. Engineering Geologic and geotechnical reports have been completed for this project analyzing these hazards and recommending measures to mitigate them. The habitable portions of the dwelling will be constructed above 22 feet mean sea level (M.S.L.), which is the expected height of wave inundation predicted for a 100-year storm event. The garage will incorporate break away garage doors and non-structural walls on the lower level to minimize structural damage from wave action.

Construction will comply with prevailing building technology, the Uniform Building Code, the County Building ordinance, and the recommendations of the Engineering Geologic and Geotechnical report and addendums to insure the optimum in safety and the conservation of energy and resources. The structure will be engineered to withstand landslide impacts by incorporating a flat reinforced concrete roof, retaining most of the landslide materials on the roof with any excess flowing over the structure. The project is specifically designed to accommodate natural coastal erosion processes of the bluff face. The dwelling must be constructed flush with the bluff face and be anchored into the bluff to withstand the impact of a catastrophic landslide event and prevent it from displacing the structure. An engineered foundation is required in order to anchor the dwellings in the event of a landslide impact and to withstand seismic shaking. Adherence to the recommendations of the soils engineer and geologist in the house design and construction will provide an acceptable margin of safety for the occupants of the proposed borne. The project design will not change the existing pattern debris flow and will not adversely affect the adjacent dwellings. The retaining walls incorporated into the design of the dwelling will provide some stability to the toe of the cliff, but will not affect the stability of the upper cliff. A drainage system will be constructed, which the upslope neighbors may use to control his/her drainage on the slope face. Thus, the project will provide a small benefit to the up-slope property, although natural erosion of the upper bluff face is expected to continue.

2. That the proposed location of the project and the conditions under which it would be operated or maintained will be consistent with all pertinent County ordinances and the purpose of the zone district in which the site is located.

The project is located within the RB (Single-Family Ocean Beach Residential) zone district. The proposed dwelling will be consistent with all pertinent County ordinances, site standards, and the purpose of the RB zone district, with the exception of the number of stories, for which a Variance is sought. The increase in the number of stories will not significantly increase the bulk of building

mass and will allow adequate light, air and open space to adjacent neighbors, as the design of the proposed single-family dwelling is consistent with that of the surrounding neighborhood, as it is visually compatible and integrated with the character of surrounding neighborhood (both existing and proposed dwellings), and meets the intent of County Code Section 13.20.130, "Design Criteria for Coastal Zone Developments" and Chapter 13.11 "Site, Architectural and Landscape Design Review." Homes in the area range from one story on the beach side of Beach Drive to three-stories on the bluff side, with a wood or stucco exteriors and large expanses of windows and decks. The majority of houses in the neighborhood have flat roofs. The proposed colors and materials and architecture will harmonize and blend with the other homes in this neighborhood. Thus, the design of the proposed single-family dwelling is consistent with that of the surrounding neighborhood. As discussed in Finding 1, Engineering Geologic and Geotechnical reports have been prepared evaluating the landslide and coastal flooding hazards, which will be mitigated in accordance with the regulations set forth in Chapter 16.10 (Geologic Hazards) of the County Code. As discussed in the Coastal Findings above, the project is consistent with the County's Coastal Regulations (Chapter 13.20).

3. That the proposed use is consistent with all elements of the County General Plan and with any specific plan which has been adopted for the area.

This finding can be made, in that the proposed residential use is consistent with the use and density requirements specified for the R-UL (Urban Low Density Residential) land use designation in the County General Plan.

The project is located in the R-UL (Urban Low Residential) General Plan/Local Coastal Program land use designation. As discussed in Coastal Development Permit Finding 5, all General Plan/LCP policies have been met in the proposed location of the project, the hazard mitigations and with the required conditions of this permit. The design of the single-family dwelling is consistent with that of the surrounding neighborhood on the bluff side of Beach Drive, and is sited and designed to be visually compatible and integrated with the character of surrounding neighborhood and the coastal bluff. The dwelling will not block public vistas to the public beach and will blend with the built environment when viewed from the public beach. The house is designed to step down the slope, requiring minimal grading considering the limitations placed on the site with regards to slope and construction requirements to minimize geologic hazards. For this reason the project conforms with General Plan policies to minimize grading.

A specific plan has not been adopted for this portion of the County.

4. That the proposed use will not overload utilities and will not generate more than the acceptable level of traffic on the streets in the vicinity.

This finding can be made, in that the proposed single-family dwelling is to be constructed on an existing undeveloped lot. The expected level of traffic generated by the proposed project is anticipated to be only 1 peak trip per day (1 peak trip per dwelling unit), such an increase will not adversely impact existing roads or intersections in the surrounding area.

5. That the proposed project will complement and harmonize with the existing and proposed land uses in the vicinity and will be compatible with the physical design aspects, land use intensities, and dwelling unit densities of the neighborhood.

This finding can be made, as the home will not appear significantly different from the existing or proposed development on the bluff side of Beach Drive, which must be designed with the same constraints and limitations resulting in non-habitable lower floors and flat roofs. The proposed project will result in a home of a similar size and mass to other homes on the bluff side of Beach Drive, and will be designed to be visually compatible and integrated with the character of the surrounding neighborhood.

6. The proposed development project is consistent with the Design Standards and Guidelines (sections 13.11.070 through 13.11.076), and any other applicable requirements of this chapter.

This finding can be made, in that the proposed single-family dwelling will be of an appropriate scale and type of design that will enhance the aesthetic qualities of the surrounding properties and will not reduce or visually impact available open space in the surrounding area.

## **Large Dwelling Permit Findings**

1. The proposed structure is compatible with its surroundings given the neighborhood, locational and environmental context and its design is consistent with the large dwelling design guidelines in County Code Section 13.10.325(D).

This finding can be made, in that pursuant to County Code Section 13.10.325, large dwellings are allowed uses within the residential zone district with consideration for siting and design of the proposed home relative to the specific property characteristics and surrounding properties. Situating a large home in a neighborhood with large and smaller homes does not render a large house incompatible with an existing neighborhood by itself. The floor area ratio ordinance regulates the size of the dwelling based on the size of the parcel. The proposed structure provides 46.8% floor area ratio where 50% is allowed. The parcel is larger than many with 12,888 square feet and the proposed structure will be proportional to the size of the lot. The proposed structure will not exceed the allowable height of 25 feet with 24 foot side setbacks. Due to the step-down design of the structure, the house will still meet the maximum 25 foot height limit for the RB zone district despite the increase in the number of stories.

The proposed structure has been designed to minimize impacts to the existing topography by proposing a bunker style home that steps back into the existing slope with minimal grading being proposed. The home is visually compatible with the character of the surrounding residential neighborhood utilizing earth-tone colors to blend in with the bluff to the rear and adjacent homes.

## Variance Findings

2. That because of special circumstances applicable to the property, including size, shape, topography, location, and surrounding existing structures, the strict application of the zoning ordinance deprives such property of privileges enjoyed by other property in the vicinity under identical zoning classification.

This finding can be made, as the subject parcel contains very steep slopes (slopes in excess of 70%) on an unstable coastal bluff, with the only suitable area for development near the base of the bluff within the coastal flood hazard area (Flood Zone-VE). Due to the topography and location within a flood hazard area, the structure must be elevated above the expected 100-year coastal inundation level at 22 feet above (M.S.L) in accordance with the regulations set forth by the Federal Emergency Management Agency (FEMA) and Chapter 16.10 (Geologic Hazards Ordinance) of the County Code. The lower floor area cannot be used as habitable space due to potential flood hazards from wave run-up, so a variance has been requested to increase the maximum number of stories from two to three in order to construct a home comparable to existing and recently approved homes in the vicinity. The majority of homes along the bluff side of Beach Drive are three stories, so a variance to story requirements would not constitute the granting of a special privilege as existing dwellings in the neighborhood already have three stories. Due to the step-down design of the structure, the house will still meet the maximum 25 foot height limit for the RB zone district despite the increase in the number of stories.

3. That the granting of the Variance will be in harmony with the general intent and purpose of zoning objectives and will not be materially detrimental to the public health, safety, or welfare or injurious to property or improvements in the vicinity.

Compliance with the recommendations and construction methods required by the Engineering Geologic and Geotechnical reports accepted by the Planning Department will insure that granting the variance to construct the proposed three-story single family dwelling will not be materially detrimental to the public health, safety and welfare or be materially injurious to property or improvements in the vicinity. The residence is required to be elevated above 22 feet mean sea level with no habitable features on the ground floor and constructed with a break-away garage door and walls (except those used as support structures). No mechanical, electrical or plumbing equipment shall be installed below the base flood elevation. The dwelling will be engineered to withstand landslide impacts upon the roof and to allow slide debris to accumulate upon it. This design allows for the natural pattern of debris flow and minimizes deflection onto the adjacent properties.

4. That the granting of such variances shall not constitute a grant of special privileges inconsistent with the limitations upon other properties in the vicinity and zone in which such is situated.

The granting of variances to increase the maximum number of stories from two to three will not constitute a grant of special privilege, as similar variances have been granted for houses of similar construction on the bluff side of Beach Drive due to FEMA flood elevation requirements. The most recently approved variances, permits 04-0044, 05-0097, and 05-0098, encompass homes on the bluff side of Beach Drive downcoast from the project site.

## **Conditions of Approval**

Exhibit A: Project plans, 10 sheets, prepared by Warren Design, dated 10/23/2017. Engineered drawings, 25 sheets, drawn by Mesiti-Miller Engineering, Inc. dated 10/23/2017.

- I. This permit authorizes the construction of a three-story single-family dwelling as indicated on the approved Exhibit "A" for this permit. This approval does not confer legal status on any existing structure(s) or existing use(s) on the subject property that are not specifically authorized by this permit. Prior to exercising any rights granted by this permit including, without limitation, any construction or site disturbance, the applicant/owner shall:
  - A. Sign, date, and return to the Planning Department one copy of the approval to indicate acceptance and agreement with the conditions thereof.
  - B. Obtain a Building Permit from the Santa Cruz County Building Official.
    - 1. Any outstanding balance due to the Planning Department must be paid prior to making a Building Permit application. Applications for Building Permits will not be accepted or processed while there is an outstanding balance due.
  - C. Obtain a Grading Permit from the Santa Cruz County Building Official.
  - D. The owner shall execute the attached WAIVER, INDEMNIFICATION, BONDING, AND INSURANCE AGREEMENT with the County and meet all requirements therein. This agreement will require the applicant/owner to obtain and maintain Comprehensive Personal Liability (or equivalent) or Owner's Landlord and Tenant Liability Insurance coverage (as appropriate) of \$1,000,000 plus an additional \$1,000,000 of excess coverage per single-family dwelling. Proof of insurance shall be provided.
  - E. Obtain an Encroachment Permit from the Department of Public Works for all off-site work performed in the County road right-of-way.
  - F. Submit proof that these conditions have been recorded in the official records of the County of Santa Cruz (Office of the County Recorder) within 30 days from the effective date of this permit.
- II. Prior to issuance of a Building Permit the applicant/owner shall:
  - A. Submit final architectural plans for review and approval by the Planning Department. The final plans shall be in substantial compliance with the plans marked Exhibit "A" on file with the Planning Department. Any changes from the approved Exhibit "A" for this development permit on the plans submitted for the Building Permit must be clearly called out and labeled by standard architectural methods to indicate such changes. Any changes that are not properly called out and labeled will not be authorized by any Building Permit that is issued for the proposed development. The

final plans shall include the following additional information:

- 1. A copy of the text of these conditions of approval incorporated into the full size sheets of the architectural plan set.
- 2. One elevation shall indicate materials and colors as they were approved by this Discretionary Application. If specific materials and colors have not been approved with this Discretionary Application, in addition to showing the materials and colors on the elevation, the applicant shall supply a color and material sheet in 8 ½ " x 11" format for Planning Department review and approval.
- 3. Grading, drainage, and erosion control plans.
- 4. A site plan showing the location of all site improvements, including, but not limited to, points of ingress and egress, parking areas, sewer laterals and drainage improvements.
- 5. A final landscape plan. This plan shall include the location, size, and species of all existing and proposed trees and plants within the front yard setback and side setbacks and shall meet the following criteria:
  - a. Plant Selection. At least 80% of the plant materials selected for non-turf areas (equivalent to 60% of the total landscaped area) shall be drought tolerant. Native plants are encouraged. Up to 20% of the plant materials in non-turf areas (equivalent to 15% of the total landscaped area), need not be drought tolerant, provided they are grouped together and can be irrigated separately.
  - b. Turf Limitation. Turf area shall not exceed 25% of the total landscaped area. Turf area shall be of low to moderate water-using varieties, such as tall fescue. Turf areas should not be used in areas less than 8 feet in width.
- 6. Final plans shall reference and incorporate all recommendations of the Engineering Geologic and Geotechnical reports prepared for this project, with respect to the construction and other improvements on the site. All pertinent Geotechnical report recommendations shall be included in the construction drawings submitted to the County for a Building Permit. Plan review letters from the soils engineer and geologist shall be submitted with the plans stating that the plans have been reviewed and found to be in compliance with the recommendations of the Geotechnical and Engineering Geologic reports.

- 7. Final plans shall note that Soquel Creek Water District will provide water service and shall meet all requirements of the District including payment of any inspection fees. Final plans shall show the water connection and shall be reviewed and accepted by the District.
- 8. The building plans must include a roof plan and a surveyed contour map of the ground surface, superimposed and extended to allow height measurement of all features. Spot elevations shall be provided at points on the structure that have the greatest difference between ground surface and the highest portion of the structure above. This requirement is in addition to the standard requirement of detailed elevations and cross-sections and the topography of the project site which clearly depict the total height of the proposed structure. Maximum height is 25 feet.
- 9. Details showing compliance with Fire Department requirements.
- B. Meet all requirements of and pay Zone 6 drainage fees to the County Department of Public Works, Stormwater Management. Drainage fees will be assessed on the net increase in impervious area. Comply with all conditions of approval Stormwater Management including:
  - 1. This project is expected to construct the designed & approved detention system as described by Mesiti Miller Engineering (dated 1/23/18).
    - As described in the submitted letter...each tank is required to have a volume of 109 cubic feet, or 812 gallons. Two standard 1,000 gallon storage tanks would be appropriate. To maintain the pre-development 2-year flow rate of 0.008 cubic feet per second, the lower orifices shall have a diameter of 0.4 inches. A 6-inch diameter upper outlet shall be required as an overflow in a large rain event. The 0.4-inch outlet shall be placed about 6 inches above the bottom of the tank. Both outlets shall be piped at 2% minimum to outlets through the front retaining wall. The tanks shall be securely located on a compacted base rock building pad and plumbed and fitted to provide a water tight and resilient drainage system. If the tanks are backfilled, the tanks shall be rated for burial. Occasional cleaning and maintenance of the tanks and piping will be required to maintain function.
    - b. This detention system shall be constructed within the parcel's property boundary and shall not impact the approved bui-filtration system as shown on sheet C 3.0 (dated 10/23/17 by MME) of discretionary application 171216.
  - 2. Please provide cross-section construction details for all proposed permanent stormwater drainage features. Include a maintenance schedule for all features on the future civil plan set. This schedule shall be included as an exhibit when the applicant submits their SWM-25A maintenance agreement to the

## County Recorder's Office.

- 3. Please address and clarify the purpose for the proposed drainage easements. Please submit an official record to the County with all respective parties/parcels that are intended to utilize and maintain any/all features within this easement boundary. (This document should clearly outline financial responsibilities along with any and all necessary maintenance requirements and if applicable inspection frequencies. Runnoff will not be allowed to be concentrated at any point due to the existing steep slopes and potential for erosion).
- 4. Please provide a maintenance schedule establishing the ongoing requirements for maintenance and monitoring of all permanent stormwater management facilities in compliance with County Code 7.79 (this schedule shall also be included in the maintenance agreement as a packet when the applicant records and notarizes their SWM-25A form). It will be the responsibility of the homeowner to inspect and maintain all drainage features.
  - a. A recorded maintenance agreement will be required for the drainage system on this parcel. Please include the following additional information as required by the CDC:
    - i. Statement of the operating requirements to ensure proper performance of the stormwater management facility.
    - ii. Specification of any Best Management Practices that must be implemented and maintained.
  - iii. Specification of any restriction on system use or property use, such as limitations on amount of impervious surface, limits on fertilizer or pesticide use, limits on vehicle parking or maintenance, restrictions on building additions, etc.
  - iv. Notification that County staff may conduct routine inspections of the facility to ensure that the stormwater facilities are functioning properly and being maintained as needed.
  - v. Notification that the property owner may be assessed an annual service charge and/or re-inspection fee to cover the County costs of inspection and oversight. See the current Unified Fee Schedule for Stormwater Management Maintenance inspection and oversight fees.
  - vi. Notification that the property owner may be required to report to the County on the management and maintenance of the stormwater management facility. All large projects are required to report on at least an annual basis regarding system maintenance and are expected to be assessed an annual service charge.

- vii. All large projects shall include an attached exhibit that shows the stormwater management facility location/s on the project site along with delineations of the subwatershed area/s draining to each facility.
- viii. All large projects shall include an attached exhibit that lists at a minimum for each stormwater mitigation: the operation and maintenance requirements, inspection and maintenance intervals, and symptoms of the system failure or not functioning as designed. The annual report shall address each item from the attached exhibit and shall include date/s of inspection, name/s of inspector/s, and a detailed list of maintenance and repairs completed. The annual report shall include photos, as necessary, to document operation, maintenance and repairs completed. See Section B Design References, references j (Appendix H) and I (Chapter 6) for details.
- ix. The maintenance agreements shall be binding on and shall inure to the benefit of the successors, heirs, executors, administrators, and assigns of the owner.
- b. Please contact the County of Santa Cruz Recorder's Office for appropriate recording procedures. The maintenance agreement form can be picked up from the Public Works office or can be found online at <a href="http://dpw.santacruzcounty.us/Portals/19/pdfs/FigureSWM25A.pdf">http://dpw.santacruzcounty.us/Portals/19/pdfs/FigureSWM25A.pdf</a>
- 5. This site receives runoff from upstream/adjacent areas and shall be required to abide with Section C Part G #3 of the CDC. Please provide the Stormwater Section with an applicable/acceptable recorded document on the parcel deed.
  - a. Per Section C Part G #3 of the CDC, "The recorded document shall acknowledge that the parcel does and will continue to receive upstream runoff, that the property owner is responsible for maintenance of the drainage pathway (natural and/or man-made) through the parcel, and that the County and Flood Control Districts(s) are not responsible for the upstream runoff on for the maintenance of the drainage pathway."
- 6. This project is within an established Flood Control District as part of Santa Cruz County and shall be charged a fee based on the total new impervious area created. The current fee is \$1.27 per square foot but is subject to change based on the most updated fee amount applicable at the time of permit issuance. The County of Santa Cruz currently has four Zones with the associated fee rate (Zone 5 established in 1969, Zone 6 established in 1985, Zone 7 established in 1975, and Zone 8 established in 1977).
  - a. This project may be eligible for fee credits for existing impervious areas that may be removed or replaced as part of this permit

application if documentation is presented that demonstrates such areas were permitted or built prior to the zone's creation. Otherwise County staff will utilize 1975 aerial photos to establish credit if no additional information is furnished by the applicant.

- b. A 50% credit is given to all projects that implement semi-pervious surfaces such as: pervious/porous/permeable pavers, porous concrete, porous asphalt, base rock, etc.
- 7. Upon approval of the project, a drainage "Hold" will be placed on the permit and will be cleared once the construction is complete and the stormwater management improvements are constructed per the approved plans: In order to clear the Hold, one of these options has to be exercised:
  - a. The designer must inspect the drainage improvements on the parcel and provide public works with a letter confirming that the work was completed per the plans. The designer's letter shall be specific as to what got inspected whether invert elevations, pipe sizing, the size of the mitigation features and all the relevant design features. Notes of "general conformance to plans" are not sufficient.
  - b. As-built plans stamped by the designer may be submitted in lieu of the letter. The as-built stamp shall be placed on each sheet of the plans where stormwater management improvements were shown.
  - The designer may review as-built plans completed by the contractor c. and provide the county with an approval letter of those plans, in lieu of the above two options. The contractor installing the drainage improvements will provide the designer as-built drawings of the drainage system, including construction materials, invert elevations, pipe sizing and any modifications to the horizontal or vertical alignment of the system. The as-built drawings, for each sheet showing drainage improvements and/or their construction details. must be identified with the stamp (or label affixed to the plan) stating the contractor's name, address, license and phone number. The designer will review the as-built plans for conformance with the design drawings. Upon satisfaction of the designer that the as-built plans meet the design intent and are adequate in detail, the designer shall submit the as-built plans and a review letter, stamped by the designer to the County Public Works Department for review to process the clearance of the drainage Hold, if the submittal is satisfactory.
- 8. This project will be held to the most current Design Criteria requirements implemented by the County of Santa Cruz at the time of application for a building permit. Further comments may be made at the building permit stage if clarification is needed. Contact Forrest Revere if you have questions

regarding these comments: <a href="mailto:dpw172@santacruzcounty.us">dpw172@santacruzcounty.us</a>.

Counter hours: Monday-Friday 8-12pm; Phone: 831-454-2160.

- C. Meet all requirements of the Santa Cruz County Sanitation District. Proof of sanitary sewer service availability is required prior to application for a Building Permit.
  - 1. Additional conditions of approval is that the sewer clean out (and backflow prevention device, if required by code) must be behind the property line, not within the public right-of-way.
- D. Meet all requirements of the Environmental Planning section of the Planning Department including the following added conditions of approval:

  Prior to issuance of a Building Permit, the applicant/owner shall:
  - The final plans shall include a specification that all windows, doors and other
    openings will be designed to resist and hold the force of a landslide as
    specified by the geotechnical engineer. No openings are allowed in the rear of
    the buildings, and all side windows must be approved by the County
    Geologist.
  - 2. The structure shall be engineered to resist and hold the force of a landslide, as specified by the geotechnical engineer. The roof shall be engineered to support the static load of anticipated landslide debris in conformance with the soils engineering report recommendations.
  - 3. Final plans shall reference and incorporate all recommendations of the Engineering Geologic and Geotechnical reports prepared for this project, with respect to the construction and other improvements on the site. All pertinent Geotechnical report recommendations shall be included in the construction drawings submitted to the County for a Building Permit.
  - 4. Plan review letters from the soils engineer and geologist shall be submitted with the plans stating that the plans have been reviewed and found to be in compliance with the recommendations of the Geotechnical and Engineering Geologic reports.
  - 5. The owner shall record a Declaration of Geologic Hazards to be provided by Environmental Planning staff on the property deed. Proof of recordation shall be submitted to Environmental Planning. YOU MAY NOT ALTER THE WORDING OF THIS DECLARATION. Follow the instructions to record and return the form to the Planning Department.
  - 6. Submit a plan review letter from the project structural engineer stating the plans comply with FEMA elevation requirements.
  - 7. The two security bonds (one for 150% of the total construction cost released after completion of all slope stabilization construction, one for 50% released

one year after final inspection) shall be in place prior to issuance of the building permit. Please submit proof indicating if Certificate of Deposits or Letters of Credit will be used to satisfy the bonding requirement.

- 8. Submit an engineer's statement estimating construction costs including earthwork, drainage, all inspections (soils, structural, and civil engineers, etc.), and erosion control associated with the foundation, retaining walls and drainage system for review and approval per the Waiver, Indemnification, Security, and Insurance Agreement. These estimates will be reviewed by the County Geologist and will be used for determining the appropriate amounts for each bond.
- 9. Plans shall show details showing compliance with the following FEMA and County flood regulations:
  - a. The lowest habitable floor and the top of the highest horizontal structural members joist or beam) which provides support directly to the lowest habitable floor and elements that function as a part of the structure such as furnace or hot water heater, etc. shall be elevated above the 100-year wave inundation level. Elevation at this site is a minimum of 22 feet above mean sea level. The building plans must indicate the elevation of the lowest habitable floor area relative to mean sea level and native grade. Locations for furnaces, hot water heaters shall be shown.
  - b. Show that the foundations shall be anchored and the structures attached thereto to prevent flotation, collapse and lateral movement of the structure due to the forces to which they may be subjected during the base flood and wave action.
  - c. The garage doors and non-bearing walls shall function as breakaway walls. The garage doors and front wall shall be certified by a registered civil engineer or architect and meet the following conditions:
    - i. Breakaway wall collapse shall result from a water load less than that which would occur during the base flood, and
    - ii. The elevated portion of the building shall not incur any structural damage due to the effects of wind and water loads acting simultaneously in the event of a base flood.
    - iii. Any walls on the ground floor not designated as breakaway shall be demonstrated to be needed for shear or structural support and approved by Environmental Planning.

## Prior to and during site disturbance and construction:

- 1. Prior to any disturbance on the property the applicant shall convene a preconstruction meeting on the site with the grading contractor supervisor, construction supervisor, project geologist, project geotechnical engineer, Santa Cruz County grading inspector, and any other Environmental Planning staff involved in the review of the project.
- 2. All land clearing, grading and/or excavation shall take place between April15 and October 15. Excavation and/or grading is prohibited before April15 and after October 15. Excavation and/or grading may be required to start later than April 15 depending on site conditions, as determined by Environmental Planning staff. If grading/excavation is not started by August 15 must not commence until after April 15th the following year to allow for adequate time to complete grading prior to October 15th.
- 3. Erosion shall be controlled at all times. Erosion control measures shall be monitored, maintained and replaced as needed. No turbid runoff shall be allowed to leave the immediate construction site.
- 4. Dust suppression techniques shall be included as part of the construction plans and implemented during construction. These techniques shall comply with the requirements of the Monterey Bay Air Pollution Control District.
- 5. All earthwork and retaining wall construction shall be supervised by the project soils engineer and shall conform with the Geotechnical report recommendations.
- 6. All foundation and retaining wall excavations shall be observed and approved in writing by the project soils engineer prior to foundation pour. A copy of the letter shall be kept on file with the Planning Department.
- 7. Prior to sub-floor building inspection, compliance with the elevation requirement shall be certified by a registered professional engineer, architect or surveyor and submitted to the Environmental Planning section of the Planning Department. Construction shall comply with the FEMA flood elevation requirement of 22 feet above mean sea level for all habitable portions of the structure. Failure to submit the elevation certificate may be cause to issue a stop work notice for the project.
- 8. Construction shall only occur between the hours of 8 AM and 5 PM, Monday through Friday, with no construction activity allowed on weekends and holidays.

All construction shall be performed according to the approved plans for the Building Permit. Prior to final building inspection, the applicant/owner must meet the following conditions:

- 1. All site improvements shown on the final approved Building Permit plans shall be installed.
- 2. All inspections required by the building and grading permits shall be completed to the satisfaction of the County Building Official, the County Senior Civil Engineer, and the County Geologist.
- 3. The soils engineer/geologist shall submit a letter to the Planning Department verifying that all construction has been performed according to the recommendations of the accepted geologic and soils report. A hold will be placed on the building permit until such a letter is submitted. A copy of the letter shall be kept in the project file for future reference.
- 4. Final erosion control and drainage measures shall be completed.
- 5. The project must comply with all recommendations of the approved soils reports.
- 6. Pursuant to Sections 16.40.040 and 16.42.080 of the County Code, if at any time during site preparation, excavation, or other ground disturbance associated with this development, any artifact or other evidence of an historic archaeological resource or a Native American cultural site is discovered, the responsible persons shall immediately cease and desist from all further site excavation and notify the Sheriff-Coroner if the discovery contains human remains, or the Planning Director if the discovery contains no human remains. The procedures established in Sections 16.40.040 and 16.42.080, shall be observed.
- 7. Modifications to the architectural elements including but not limited to exterior finishes, window placement, roof design and exterior elevations are prohibited, unless an amendment to this permit is obtained.
- 8. All portions of either structure located below 22 feet mean sea level shall be maintained as non-habitable.
- 9. The ground floor shall not be mechanically heated, cooled, humidified or dehumidified.
- 10. The structure may be inspected for condition compliance twelve months after approval and at any time thereafter at the discretion of the Planning Director.
- 11. This permit prohibits the use of the roof, side yards and rear yard except for the purpose of maintenance and/or repair.
- 12. The home must be maintained at all times. In the event of a significant slope failure, the owner must remove the debris from the roof within 48 hours

under the direction of a civil engineer.

- E. Meet all requirements and pay any applicable plan check fee of the Aptos/La Selva Fire Protection District.
- F. Pay the current fees for Parks and Child Care mitigation for six (6) bedrooms. Currently, these fees are, respectively, \$1,000 and \$109 per bedroom.
- G. Pay the current fees for Roadside and Transportation improvements for six (6) bedrooms. Currently, these fees are, respectively, \$3,000 per unit for each-\$6,000 total.
- H. Pay the current Affordable Housing Impact Fee. The fees are based on unit size and the current fee for a dwelling over 4,100 square feet is \$15 per habitable square foot.
- I. Provide required off-street parking for 5 cars. Parking spaces must be 8.5 feet wide by 18 feet long and must be located entirely outside vehicular rights-of way. Parking must be clearly designated on the plot plan.
- J. Submit a written statement signed by an authorized representative of the school district in which the project is located confirming payment in full of all applicable developer fees and other requirements lawfully imposed by the school district.
- III. All construction shall be performed according to the approved plans for the Building Permit. Prior to final building inspection, the applicant/owner must meet the following conditions:
  - A. All site improvements shown on the final approved Building Permit plans shall be installed.
  - B. All inspections required by the building permit shall be completed to the satisfaction of the County Building Official.
  - C. The project must comply with all recommendations of the approved soils reports.

## IV. Operational Conditions

- A. In the event that future County inspections of the subject property disclose noncompliance with any Conditions of this approval or any violation of the County Code, the owner shall pay to the County the full cost of such County inspections, including any follow-up inspections and/or necessary enforcement actions, up to and including permit revocation.
- V. As a condition of this development approval, the holder of this development approval ("Development Approval Holder"), is required to defend, indemnify, and hold harmless the COUNTY, its officers, employees, and agents, from and against any claim (including attorneys' fees), against the COUNTY, it officers, employees, and agents to attack, set aside, void, or annul this development approval of the COUNTY or any subsequent amendment of

this development approval which is requested by the Development Approval Holder.

- A. COUNTY shall promptly notify the Development Approval Holder of any claim, action, or proceeding against which the COUNTY seeks to be defended, indemnified, or held harmless. COUNTY shall cooperate fully in such defense. If COUNTY fails to notify the Development Approval Holder within sixty (60) days of any such claim, action, or proceeding, or fails to cooperate fully in the defense thereof, the Development Approval Holder shall not thereafter be responsible to defend, indemnify, or hold harmless the COUNTY if such failure to notify or cooperate was significantly prejudicial to the Development Approval Holder.
- B. Nothing contained herein shall prohibit the COUNTY from participating in the defense of any claim, action, or proceeding if both of the following occur:
  - 1. COUNTY bears its own attorney's fees and costs; and
  - 2. COUNTY defends the action in good faith.
- C. <u>Settlement</u>. The Development Approval Holder shall not be required to pay or perform any settlement unless such Development Approval Holder has approved the settlement. When representing the County, the Development Approval Holder shall not enter into any stipulation or settlement modifying or affecting the interpretation or validity of any of the terms or conditions of the development approval without the prior written consent of the County.
- D. <u>Successors Bound</u>. "Development Approval Holder" shall include the applicant and the successor'(s) in interest, transferee(s), and assign(s) of the applicant.
- VI. Mitigation Monitoring. The mitigation measures listed under this heading have been incorporated into the conditions of approval for this project in order to mitigate or avoid significant effects on the environment. As required by Section 21081.6 of the California public Resources Code, a monitoring and reporting program for the above mitigations is hereby adopted as a condition of approval for this project. This monitoring program is specifically described following each mitigation measure listed below. The purpose of this monitoring is to ensure compliance with the environmental mitigations during project implementation and operation. Failure to comply with the conditions of approval, including the terms of the adopted monitoring program, may result in permit revocation pursuant to Section 18.10.462 of the Santa Cruz County Code.
  - A. Pre-construction site meeting: Prior to any disturbance on the property, the applicant shall convene a pre-construction meeting on site with the applicant, grading contractor supervisor, project geologist, project geotechnical engineer, and the Santa Cruz County grading inspector. NO inspections by Environmental Planning staff shall occur until this meeting is convened, and failure to conduct this meeting prior to the start of construction will be in violation of this permit and will result in a Stop Work order from the Building Department.
  - B. <u>Plan review letters</u>: Prior to building permit approval by Environmental Planning, the

applicant shall provide plan review letters from the project geologist and project geotechnical engineer indicating they have reviewed the site plans and preliminary improvement plans, and that the design meets the recommendations of their reports and the review letter from the County Geologist (J. Hanna, letter dated November 22, 2017). A plan review letter shall also be submitted from the project structural engineer that the FEMA elevation requirements for non-habitable and break away construction below 22 feet MSL has been met.

- C. <u>Construction plan</u>: Prior to approval of the building and/or grading permit by Environmental Planning, the applicant shall submit a detailed construction plan, prepared by a Civil Engineer, indicating how the earthwork will proceed. The plan shall indicate the shoring plan, the phases of excavation, five foot maximum height for temporarily unsupported cuts, plan to work from the top down, and requirements for the project geotechnical engineer to be on site during excavation. The construction plan shall not be submitted without an accompanying letter from the project geotechnical engineer approving the plan.
- D. Restriction on winter grading: Grading shall not occur between October 15 and April 15. Further, if grading has not started before August 1, it cannot start until April 15 of the following year. Environmental Planning will not issue a winter grading permit, and any grading during this time period will be in violation of the conditions of this permit and will be referred to Code Compliance.
- E. <u>Declaration of Geologic Hazards</u>: Prior to approval of the building permit application by Environmental Planning, a Declaration of Geologic Hazards must be recorded which identifies the hazards on the site, references the technical reports, and identifies the required mitigation measures and maintenance required to maintain the original level of risk.
- F. <u>Drainage plan</u>: Prior to approval of the building permit application by both Environmental Planning and the Department of Public Works, Drainage, the applicant shall submit a drainage plan prepared by the project Civil Engineer, presented on an accurate topographic base, for review and approval by the Department of Public Works Drainage staff, the project geotechnical engineer, and the County Geologist.
- G. <u>Erosion control plan</u>: Prior to approval of the building permit by Environmental Planning, the applicant shall submit an erosion control plan for review and approval. Plans shall indicate that the destination of excess fill is either the municipal landfill or a receiving site with a valid permit.
- H. <u>Visual impacts</u>: Prior to approval of the building permit by Development Review, the applicant shall submit a color board (in an 8 ½ " x 11" format, not to exceed ¼ " in thickness) and indicate on the plans the exterior colors and materials. These colors and materials shall be earth tone within the brown to green range, trim and accent colors will be subdued, and exterior materials will blend in with the colors and forms of the coastal bluff.

Minor variations to this permit which do not affect the overall concept or density may be approved by the Planning Director at the request of the applicant or staff in accordance with Chapter 18.10 of the County Code.

Please note: This permit expires three years from the effective date listed below unless a building permit (or permits) is obtained for the primary structure described in the development permit (does not include demolition, temporary power pole or other site preparation permits, or accessory structures unless these are the primary subject of the development permit). Failure to exercise the building permit and to complete all of the construction under the building permit, resulting in the expiration of the building permit, will void the development permit, unless there are special circumstances as determined by the Planning Director.

Approval Date:	
Effective Date:	
Expiration Date:	

Appeals: Any property owner, or other person aggrieved, or any other person whose interests are adversely affected by any act or determination of the Zoning Administrator, may appeal the act or determination to the Planning Commission in accordance with chapter 18.10 of the Santa Cruz County Code.



## COUNTY OF SANTA CRUZ

## PLANNING DEPARTMENT

701 OCEAN STREET, 4<sup>™</sup> FLOOR, SANTA CRUZ, CA 95060 (831) 454-2580 FAX: (831) 454-2131 TDD: (831) 454-2123 TOM BURNS, PLANNING DIRECTOR

## NOTICE OF ENVIRONMENTAL REVIEW PERIOD

## SANTA CRUZ COUNTY

APPLICANT: Jim Mosgrove, Architect, for Michael & Deborah Collins

APPLICATION NO.: 04-0255

APN: 043-152-71 (formerly 043-152-56)

The Environmental Coordinator has reviewed the Initial Study for your application and made the following preliminary 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.
\$2. T	Environmental Impact Report (Your project may have a significant effect on the environment. An EIR must be prepared to address the potential impacts.)

As part of the environmental review process required by the California Environmental Quality Act (CEQA), this is your opportunity to respond to the preliminary determination before it is finalized. Please contact Paia Levine, Environmental Coordinator at (831) 454-3178, if you wish to comment on the preliminary determination. Written comments will be received until 5:00 p.m. on the last day of the review period.

Review Period Ends: January 20, 2006

David Keyon Staff Planner

Phone: 454-3561

Date: December 14, 2005

Declaration of Geologic Hazard onto the deed which identifies the hazards on the site, references the technical reports, and identifies the required mitigation measures and maintenance required to maintain the original level of mitigation.

- C. Prior to scheduling the public hearing, the applicant shall submit a drainage plan prepared by the project Civil Engineer, presented on an accurate topographic base, for review and approval by the Department of Public Works drainage staff, the project geotechnical engineer and the County Geologist. The plan shall meet the requirements of the County Geologist and Department of Public Works, specifically: show control of all drainage and the drainage path through the outlet point onto the beach; detail pipes, inlets and outlets; show control of drainage originating upslope, indicate five foot drainage easement on both side property lines to accommodate drainage originating upslope, and calculations and sizing for all pipes.
- D. In order to avoid impacts from flooding and wave run up, prior to public hearing applicant shall revise the plans to clearly indicate that the elevation of the bottom of the lowest structural member of the lowest finished floor is above 21 feet MSL and that enclosed areas below that level are designed to "breakaway" under pressure, pursuant to FEMA regulations.
- E. In order to minimize impacts from accelerated erosion, winter grading shall not be approved. In addition, prior to issuing building or grading permits the applicant shall submit a detailed erosion control plan for review and approval of Environmental Planning Staff. Plans shall indicate that the destination of excess fill is either the municipal landfill or a receiving site with valid permit.
- F. To mitigate the visual impacts of the new home to the public beach the applicant shall revise the plans to indicate that exterior colors of the structure shall be earth tones in the brown-green range, trim and accent colors shall be subdued, and exterior materials shall be chosen to blend with the colors and form of the coastal bluff.

NAME: Mosgrove for Collins

APPLICATION: 04-0255 A.P.N: 043-152-71

## NEGATIVE DECLARATION MITIGATIONS

- A. In order to ensure that the mitigation measures B F (below) are communicated to the various parties responsible for constructing the project, prior to any disturbance on the property the applicant shall convene a pre-construction meeting on the site. The following parties shall attend: applicant, grading contractor supervisor, construction supervisor, project geologist, project geotechnical engineer, Santa Cruz County grading inspector and /or other Environmental Planning staff. The permit conditions and work plan shall be reaffirmed by all parties and the destination for the excess fill shall be identified at that time.
- B. In order to avoid impacts from potential geologic and geotechnical hazards on the property, specifically potential for landslide and liquefaction:
  - 1. The project shall be fully engineered and designed for the site conditions in accordance with the approved geologic report (Nielsen and Associates, February 2004), the approved geotechnical report (Haro, Kasunich, Associates, dated March, 2004) and the review letter from the County Geologist detailing additional recommendations (J. Hanna, letter dated October 5, 2005).

Prior to scheduling the public hearing the applicant shall provide a letter from the project geologist and project geotechnical engineer indicating that they have reviewed the site plans and preliminary improvement plans (M. Beautz, October 2004) that the design meets the recommendations of their reports and the review letter from the County Geologist cited above.

- Prior to approval of a building or grading permit, the applicant shall submit a detailed construction plan, prepared by a Civil Engineer, indicating how the earthwork will proceed. The plan shall indicate the shoring plan, the phases of excavation, five foot maximum height for temporarily unsupported cuts, plan to work from the top down, project geotechnical engineer on site during excavation, etc. The construction plan shall not be submitted without an accompanying letter from the project geotechnical engineer approving the plan.
- Grading shall not occur between October 15 and April 15. Further, if grading has not started before August 1 it cannot be started until April 15 of the following year;
- Prior to approval of any building or grading permit, the applicant shall submit a plan check letter from the project geologist and project geotechnical engineer indicating that they have reviewed the plans and that they meet the recommendations of their reports, and from the project structural engineer that the FEMA elevation requirements and requirement for non habitable break away construction below 21 feet M.S.L. has been met:
- 6. Prior to approval of any building or grading permit, the applicant shall record a



Environmental Review Initial Study Page 2

## DISCRETIONARY APPROVAL(S) BEING CONSIDERED

General Plan Amendment	Use Permit
Land Division	X Grading Permit
Rezoning	Riparian Exception
Development Permit	
X Coastal Development Permit	X Other: Variance
NON-LOCAL APPROVALS Other agencies that must issue nematic	
California Coastal Commission.	or authorizations: Project is appealable to the
20	7
ENVIRONMENTAL REVIEW ACTION	
On the basis of this Initial Study and sup	porting documents:
I find that the proposed project COU environment, and a NEGATIVE DECLAR	JLD NOT have a significant effect on the RATION will be prepared.
X I find that although the proposed p	roject could have a significant effect on the
I find that the proposed project MAY and an ENVIRONMENTAL IMPACT REF	have a significant effect on the environment, PORT is required.
faller	12/16/05
Pala Levine	Date

For: Ken Hart

**Environmental Coordinator** 





# **Environmental Review Initial Study**

Application Number: 04-0255

Date: 8/22/05

Staff Planner: David Keyon

## I. OVERVIEW AND ENVIRONMENTAL DETERMINATION

APPLICANT: Jim Mosgrove, Architect

**APN**: 043-152-71 (formerly 043-152-56)

OWNER: Michael and Deborah Collins

SUPERVISORAL DISTRICT: 2<sup>nd</sup> District

**LOCATION**: Northeast side of Beach Drive, about one mile southeast of Rio del Mar Boulevard on the bluff side, 650 feet past the entry gate to the private road.

## SUMMARY PROJECT DESCRIPTION:

The proposed project consists of the construction of a three-story, five bedroom single-family dwelling, requiring about 1,250 cubic yards of grading within a Coastal Scenic Area. The proposal requires a Coastal Development Permit, Preliminary Grading Approval, A Variance to increase the number of stories to three, Design Review, Soils Report Review, and a Geologic Report Review.

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.

_X_	Geology/Soils		Noise.	7	
	Hydrology/Water Supply/Water Quality		Air Quality		
	Energy & Natural Resources		Public Services & Utilities		
_X_	Visual Resources & Aesthetics		Land Use, Population & Housi	na	
.——	Cultural Resources		Cumulative Impacts		
	Hazards & Hazardous Materials		Growth Inducement		
	Transportation/Traffic		Mandatory Findings of Significa	ance	
		. —	. 0		

County of Santa Cruz Planning Department 701 Ocean Street, 4th Floor, Santa Cruz CA 95060

**Environmental Review Initial Study** Page 3

## II. BACKGROUND INFORMATION

**EXISTING SITE CONDITIONS** 

Parcel Size: About 12,888 square feet

Existing Land Use: Vacant Vegetation: Coastal shrubs

Slope in area affected by project: \_\_\_ 0 - 30% \_X 31 - 100%

Nearby Watercourse: Pacific Ocean

Distance To: About 300 feet

**ENVIRONMENTAL RESOURCES AND CONSTRAINTS** 

Groundwater Supply: N/A Water Supply Watershed: N/A

Groundwater Recharge: N/A

Timber or Mineral: N/A Agricultural Resource: N/A

Biologically Sensitive Habitat: N/A

Fire Hazard: N/A

Floodplain: Property subject to Coastal

Flooding and wave action

Erosion: Coastal erosion & landsliding

Solar Access: Adequate

Landslide: Landslide hazard area

Solar Orientation: South Hazardous Materials: None

Electric Power Lines: None

Liquefaction: High probability

Scenic Corridor: Coastal scenic

Fault Zone: N/A

Archaeology: N/A

Noise Constraint: None

Historic: N/A

area

SERVICES

Fire Protection: Aptos/La Selva

School District: Pajaro Valley Unified Sewage Disposal: SC County Sanitation -Drainage District: Zone 6 ---

Project Access: Beach Drive (private) Water Supply: Soquel Creek Water Dist.

**PLANNING POLICIES** 

Zone District: RB (Ocean Beach Res.)

General Plan: R-UL (Urban Low Res.)

**Urban Services Line:** Coastal Zone:

X Inside X Inside Special Designation: None Outside

Outside

PROJECT SETTING AND BACKGROUND:

The project site is located on the bluff side of the private section of Beach Drive in Aptos, between existing residences at 544 Beach Drive and 615 Beach Drive. The property is steeply sloped, with the entire site in excess of 50% slope. A line of mostly one-story homes already exists on the coast side of Beach Drive, between the project site and the beach.

The project site is located within a Federal Emergency Management Act (FEMA) designated Coastal Hazard Zone due to potential storm surges and wave action. This Environmental Review Initial Study Page 4

designation requires all habitable space to be located at least one foot above the 100-year flood line, which in this case is 21 feet above sea level.

Previous Coastal Development Permits have been approved for the construction of a single-family dwelling on site (notably Coastal Development Permits 96-0159 and 98-0161, but none have been exercised.

## **DETAILED PROJECT DESCRIPTION:**

The proposed single-family will be constructed along the face and toe of the coastal bluff on Beach Drive. The proposed house consists of three stories, with the lowest level being non-habitable due to Federal Emergency Management Agency (FEMA) regulations applying to wave run up areas (Flood Zone-V), which require all habitable space to be raised above the 100-year wave run up zone. The house is about 5,800 square feet in size, including five bedrooms and three and a half bathrooms, with a five-car garage on the 1<sup>st</sup> level. The house is larger than recently approved homes of similar construction on Beach Drive due to the size of the parcel, which is about twice the size of most parcels down coast from the project site. Despite the size, the amount of grading will be comparable or less than that done for recently approved homes of similar construction due to the angle of the slope on site. Visibility of the house from the beach will be minimal, due to the existing line of houses on the coast side of Beach Drive, and the incorporation of earth-tone colors accented by teak veneer to better complement the surrounding environment. Finally, the height of the house will match the existing and proposed development on the bluff side of Beach Drive.

The construction will be of a "bunker" style design as recommended in the Soils and Engineering Geologic Report prepared for the site. Due to landslide hazards on site, the house is specially designed to withstand the impact of landslide debris on and around the structure and to withstand the weight of the debris on the roof. The house will be excavated into the bluff, with the rear and side walls functioning as retaining structures. Construction will be of reinforced concrete, specially designed glass to withstand impact by debris, and a foundation of drilled concrete piers founded in bedrock. To protect occupants from landslide debris, the third-story deck will be entirely covered, and the second-story deck will be covered for the first three feet to comply with the recommendations of the project's geotechnical report.

A lot line adjustment (permit 04-0037 approved in 2004), resulted in the transfer of about 4,500 square feet from the subject parcel to the adjacent up coast parcel, resulting in a change in parcel numbers from APN 043-152-56 to APN 043-152-71.

04-0255 Environmental Review Initial Study Page 5

Significant
Or
Potentially
Significant
Impact

Lers than
Significant
with
Mitigation
Incorporation

Less than Significant Or No Impact

Not Applicable

## III. ENVIRONMENTAL REVIEW CHECKLIST

### A. Geology and Soils

Does the project have the potential to:

- Expose people or structures to potential adverse effects, including the risk of material loss, injury, or death 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 as identified by other substantial evidence?

\_\_\_\_\_

B. Seismic ground shaking?

\_\_X\_\_\_\_

C. Seismic-related ground failure, including liquefaction?

X

A geologic investigation for the project was prepared by Nielsen and Associates, dated February, 2004 (Attachment 9), and a geotechnical investigation was prepared by Haro, Kasunich, and Associates, dated March 17, 2004 (Attachment 10). These reports have been reviewed and accepted by the Environmental Planning Section of the Planning Department (Attachment 8). The reports conclude that fault rupture will not be a potential threat to the proposed development, and that seismic shaking can be managed by following the recommendations in the geologic and geotechnical reports referenced above.

D. Landslides?

<u>X</u>

A structure on the base of the coastal bluff will be vulnerable to damage or destruction from the landsliding and slope failure characteristic of coastal bluffs. Consequently, the Engineering Geologic and Geotechnical Reports (Attachments 9 and 10) prepared for the proposed residence address these hazards and propose mitigations to reduce the risk posed by landslides. The project soils engineer and geologist recommend constructing the dwelling as a reinforced concrete structure and flat roof designed to withstand the impact and resultant dead loads of any expected landslides. To comply with these recommendations, a "bunker" style design is proposed with the roof constructed of reinforced concrete and the sides of the structure designed as retaining walls to prevent damage by landslide flows along the side

04 Pag	-0255 Environmental Review Initial Study ge 6	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
witi rea miti stai with	ds. The flat roof and location of the house in the oris from being deflected into neighboring residenth the face of the slope with minimal projection about of the dwelling. Finally, the foundation is designing at a for unconsolidated soils. The soils engineer it ways be covered with a 3 foot roof extension and stand landslide impacts and dead loads to minimate the foundation of the choical Plan Review Letter from Haro, Kasunion	ces. More ove the slo ned to with recomme d that all s	pover, the hole ope to minimi estand slope t ends that all of ide windows	prevent la me will be ze impact t ailure and lecks and e be designe	ndslide built flush to the to exterior ed to
2.	Subject people or improvements to damage from soil instability as a result of on- or off-site landslide, lateral spreading, to subsidence, liquefaction, or structural collapse?		X	20	120
Geor roof, even	project site is located in an area subject to soil insion processes. The design of the structure along technical and Engineering Geologic Reports required covered decks, and impact resistant side windown to fallandslide by allowing landslide debris to flowaring significant structural damage (As discussed	the recom ires the us vs to minin	mendations of se of reinforce mize harm to	of the ed concret	e, a flat
3.	Develop land with a slope exceeding 30%?		X		
	proposed project site will be located on slopes of a structure will mitigate potential hazards resulting responses 1. and 2., above).	70% and g from slop	greater. How he instability a	ever, the c and landsli	lesign des
4.	Result in soil erosion or the substantial loss of topsoil?		X		7
22.70	ailed erosion control plan will be required to be su mentation of this plan, once approved, combined ober 15), will minimize the erosion impacts to a le	ruith ambi-	<b></b>		ril 15
5.	Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code(1994), creating substantial risks to property?		20 20 20 20 20 20 20 20 20 20 20 20 20 2		Х
The ge	eotechnical report for the project did not identify ar sive soils.	ny elevate	d risk associ	ated with	¥
6.	Place sewage disposal systems in			9 a	X

	04-0255 Environmental Review Initial S Page 7	Study	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or. No Impact	Not Applicable
	areas dependent upon soil of adequately supporting the	he tise of				
	septic tanks, leach fields, o waste water disposal syste	or alternative ems?	(i)	31.5		
	No septic systems are proposed. The District, and the applicant will be required that fund sanitation improvements with					
	<ol> <li>Result in coastal cliff erosic</li> </ol>	on?		X	955	
	The proposed single-family dwelling was not de-stabilize the coastal bluff by exunsupported face to 5' at a time, and October 15), all pursuant to the reconfiguration of the second coologic reports.	evaliliy il Offi evavatina onli	ıne top∙aow ਪਲੇਪਾina tha	n, limiting th	ne area of	
	g 91e		Vi			
	<ul> <li>B. Hydrology, Water Supply and Does the project have the potential</li> <li>1. Place development within a flood hazard area?</li> </ul>	l to:	<u>tty</u>	X		
	The house will be located on a parcel Federal Emergency Management Age indicate that the expected wave height mean sea level. The area of a structur constructed of break-away partitions the rest of the structure. Prior to issuarchitect or civil engineer stating compassional to wave inundation. Prior to surprofessional engineer, architect, or surrequirement is met. Prior to building personal engineer with flood elevation	TICY (FEMA) 110 y  To during a 100 y  To below this he  Total collapse  The propertion of the propertion  The propertion of the propertion  The propertion of the propertion of the propertion  The propertion of the properties of	rear storm of the property of	cone maps ( ould be up a could be up a count of the count	attachment to 21 feet a able and vithout dan om an lice tions for du istered	nt 14) above nage to nsed wellings
				500	· ·	e 1
	<ol> <li>Place development within the resulting in impedance or red flood flows?</li> </ol>	e floodway lirection of				Х
		81				
		8				
3	Be inundated by a seiche or t	sunami?		_X	3	
7 ts	The location of the proposed dwelling or sunami. However, the reinforced concr	n a beach leave ete constructio	es little prote n and eleva	ection from a tion above	a seiche oi	100-

EXHIBIT D

04-0255 Environmental Review Initial Study Page 8	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
year wave run up level will minimize potential haza be subject to the same risk as existing beach deve	rds for small lopment in a	l-scale even larger even	ts. The ho	ouse will
<ol> <li>Deplete groundwater supplies or interfere substantially with</li> </ol>			87	
groundwater recharge such that there would be a net deficit, or a significant	(4)			
contribution to an existing net deficit in		12 22	×	
available supply, or a significant lowering of the local groundwater				
The project will obtain water from the Soquel Creek well water. Although the project will increase at the	7000		X	
well water. Although the project will incrementally in Water District has indicated that adequate supplies (Attachment 12). The project is not located in a maj				i Oreek
<ol> <li>Degrade a public or private water supply? (Including the contribution of</li> </ol>	5.			
urban contaminants, nutrient enrichments, or other agricultural		8		
chemicals or seawater intrusion).				X
Runoff from this project may contain small amounts of contaminants. No commercial or industrial activities significant amount of contaminants to a public or privithe proposed project will be mitigated through implent	are propose	d that would	l contribut	e a
6. Degrade septic system functioning?	ža.			<u>X</u>
7. Alter the existing drainage pattern of				
the site or area, including the alteration of the course of a stream or river, in a manner which could result in flooding,		E.		
erosion, or siltation on or off-site?	1		X	£ .
Construction of a new dwelling on an exposed bluff factor to handle runoff from the top of the bluff, the Geotechia concrete V-ditch on top of the uppermost retaining was	かたつし ロヘハヘイ	existing drain recommend	nage patte ds constru	erns. ction of

Public Works, Drainage Division, must approve the final drainage plan. Control of uphill

a concrete V-ditch on top of the uppermost retaining wall to collect runoff and direct it to the proposed drainage system. This system will direct both the runoff from the bluff above and the dwelling onto the beach. Prior to approval of the building permit, the Project Engineering Geologist, the Project Geotechnical Engineer, Environmental Planning, and the Department of

04- Page	0255 Environmental Review Initial Study e 9	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
,	nage will reduce existing erosion problems on to for maintenance of the drainage system will be plogic Hazards" to be recorded on the property o	reallized of	from uphills part of the	developm "Declarati	
8.	Create or contribute runoff which would exceed the capacity of existing or planned storm water drainage systems, or create additional source(s) of polluted runoff?	- E	14	X	2
9.	Contribute to flood levels or erosion in natural water courses by discharges of newly collected runoff?		<u> </u>	X	*
10.	Othoniciae aubatentinii				
10.	Otherwise substantially degrade water supply or quality?		* 37	X	977
			0.00		
C B	iological Resources	81			
	the project have the potential to:				
1.	Have an adverse effect on any species identified as a candidate, sensitive, or special status species, in local or		12 12		
	regional plans, policies, or regulations, or by the California Department of Fish and Game, or U.S. Fish and Wildlife Service?		Y	9	
		10	<del></del> -	X	
	ding to the California Natural Diversity Data Bas tment of Fish and Game, there are no known sp e vicinity, and there were no special status spec	anticto leinar	niont or on	i	alifornia ies in
2.	Have an adverse effect on a sensitive biotic community (riparian corridor), wetland, native grassland, special forests, intertidal zame, etc. 20				
	forests, intertidal zone, etc.)?	_	<u> </u>	_X	
There a	are no mapped or designated sensitive biotic co	ommunities (	on or adjace	ent to the p	oroject

04-02 Page :	255 Environmental Review Initial Study 10	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
3.	Interfere with the movement of any native resident or migratory fish or wildlife species, or with established				8
	native resident or migratory wildlife				
	corridors, or impede the use of native				
	or migratory wildlife nursery sites?			X	99
	proposed project does not involve any activities grations of fish or wildlife, or impede use of a k				vements
4.	Produce nighttime lighting that will				
	illuminate animal habitats?			X	
There	e are no sensitive animal habitats within or adja	acent to th	e project site	<del>)</del> .	
5.	Make a significant contribution to the				
	reduction of the number of species of				
	plants or animals?			X	
			740		
6.	Conflict with any local policies or	70			
	ordinances protecting biological			80	
	resources (such as the Significant				
	Tree Protection Ordinance, SensitiveHabitat Ordinance, provisions			*	
	of the Design Review ordinance				S
	protecting trees with trunk sizes of 6				
	inch diameters or greater)?		1	· · · · ·	X
No tr	ees in excess of 6 inches in diameter will be re	emoved as	part of this p	oroject.	
7.	Conflict with the provisions of an				
	adopted Habitat Conservation Plan.				
	Biotic Conservation Easement, or				
	other approved local, regional, or state		50		
	habitat conservation plan?				X

## D. Energy and Natural Resources

04-02 Page 1	255 Environmental Review Initial Study 11	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
Does	the project have the potential to:				
1.	Affect or be affected by land designated as "Timber Resources" by the General Plan?				X
2.	Affect or be affected by lands currently utilized for agriculture, or designated in the General Plan for agricultural use?		\$ 0	5)	X
3.	Encourage activities that result in the use of large amounts of fuel, water, or energy, or use of these in a wasteful manner?			X	
4.	Have a substantial effect on the potential use, extraction, or depletion of a natural resource (i.e., minerals or energy resources)?				X
E. Vis	sual Resources and Aesthetics the project have the potential to:	3			
1.	Have an adverse effect on a scenic resource, including visual obstruction of that resource?	<u> </u>	X		<del></del>

The proposed house will be visible from the public beach. However, the public viewshed is not pristine at this location, as it includes development on Beach Drive in the foreground, the coastal bluff above, and development along the top of the bluff on Bay View Drive. Rows of single-family dwellings already exist along the toe of the bluff 140 feet upcoast and 60 feet downcoast of the project site, and the proposed dwelling will be of similar height to this existing development (See attachment 16 for a photo-simulation of the project).

The visual impact of the house on the beach will be limited as houses along the coast side of Beach Drive partially block views of the proposed house from the public beach, except during very low tides when the upper floors of the residence become visible to beach goers. When visible, the subdued coloration, use of teak veneer, and limitations in building height will

37

		a ( ) =		- /			
Page	12	mental Review Init		Significant Or Potentially Significant Impact	Less than Significant with Mittgation Incorporation	Less than Significant Or No Impact	Not Applicable
integ mass	rate the dw of the stru	relling into the sur acture.	rrounding built an	d natural env	vironment ar	nd break up	the _
view: sidin is on	shed as the g that will b file with the	rent Toj. The pro ry will blend with t lend in with the n e Planning Depar	simulation, showing posed colors and the natural colors attural elements of the	f materials w of the site, u f the site. A condition wil	ill not degra Ising earth-t Color versio	de the pub one colors n of attach poing Door	lic and teak
2.	Substar	ntially damage s	cenic				
	resourc	es, within a des	ignated scenic	100			
	corridor	or public view s	shed area				
	includin	g, but not limite	d to, trees, rock				
	outcrop	pings, and histo	ric buildings?			Χ	
3.	Degrade or qualit	e the existing vis y of the site and dings, including	d its	surrounaing	g natural and	d built envi	ronment.
	change	in topography o	r ground				
	surface	relief features, a	and/or				
	develop	ment on a ridge	line?		X		
surro	sual impac unding the	l on ine beach (a.	ing will use teak vo s discussed in E.1 No cuts will be v	f shovel a	nd will hat a	Hartha and	عقرياط اسخم
4.	Create a	new source of	light or glare				
	which w	ould adversely a	affect day or	÷			
	nighttime	e views in the a	rea?			Χ	
buildir	ie use di na	vhich must be rev	astal Permit will re A lighting plan viewed and appro	vill be requir	ed prior to a	innroval of	tho

The proposed residence will be notched into a coastal bluff, but will only cover a small portion

Destroy, cover, or modify any unique geologic or physical feature?

5.

Page	13	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
of the	e existing bluff face.		8		-
F. C	s the project have the potential to:				
1.	Cause an adverse change in the significance of a historical resource as defined in CEQA Guidelines 15064.5?	27		12	. X
The e feder	existing structure(s) on the property is not designal, State or local inventory.	nated as a	historic rese	ource on a	ny
2.	Cause an adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines 15064.5?		8		X
distur Native discov	cheological resources have been identified in to on 16.40.040, if at any time in the preparation for bing the ground, any human remains of any ag e American cultural site which reasonably appe wered, the responsible persons shall immediate wation and comply with the notification procedures.	or or proce e, or any a ars to exce ly ceaso a	ss of excava artifact or oth eed 100 year	ating or oth per evidence rs of age a	erwise e of a ere
3.	Disturb any human remains, including those interred outside of formal cemeteries?	1			Х
remail furthei detern prepai Disturi	eant to Section 16.40.040 of the Santa Cruz Couration, excavation, or other ground disturbance as are discovered, the responsible persons shar site excavation and notify the sheriff-coroner as a site excavation and not remains are not of recent origin, a site excavation and representatives of the local Native California and representatives of the significance of the significance of the propriate mitigations to preserve the resource	associated all immedia and the Pla a full arche fornia India the arche	d with this protely cease a nning Directeological rep an group sha	roject, hum and desist a tor. If the ort shall be all be conta	ite nan from all coroner
4.	Directly or indirectly destroy a unique paleontological resource or site?	12	_	X	
			793		

04-02 Page	255 Environmental Review Initial Study 14	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
<u>G.</u> H	lazards and Hazardous Materials				
Does	the project have the potential to:			10	
1.	Create a significant hazard to the				
	nublic or the environment on a record of				
	public or the environment as a result of	!			
	the routine transport, storage, use, or				
	disposal of hazardous materials, not				
	including gasoline or other motor fuels?				
	14013			X	
No ha	azardous materials howard household at anti-				
signifi	azardous materials beyond household chemic icant hazard to the environment.	cais and m	iaterials will	be used,	posing no
					2.
2.	Be located on a site which is included				
	on a list of hazardous materials sites				36
	compiled pursuant to Government			60	
	Code Section 65962.5 and, as a				
	result, would it create a significant				
	hazard to the public or the				26
	environment?			Χ	
					<u></u>
3.	Create a safety hazard for people				
0.	residing or working in the project				a 50
	residing or working in the project area as a result of dangers from aircraft	27			
	using a public or private circum the attack				
	using a public or private airport located				
	within two miles of the project site?			:3	X
4.	Expose people to electro-magnetic				
	fields associated with electrical		- 3		
	transmission lines?				
	a anti-mission in 100:				X
5.	Create a potential fire hazard?			×	
	, ····································				
The pro	oject design incorporates all applicable fire sai	fety code r	equirements	and will is	nclude fire
protect	ion devices as required by the local fire agenc	у.	, <i></i>	IIII II	,5.446 1/16

90 1		Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
6.	Release bio-engineered organisms or chemicals into the air outside of project buildings?			•	търгасион
					X
					15
H Te	anchoristics IT.				
Does	ansportation/Traffic				
0000	the project have the potential to:				
1.== *	Cause an increase in the state				
•	Cause an increase in traffic that is				
	substantial in relation to the existing				
	traffic load and capacity of the street				
	system (i.e., substantial increase in				
	either the number of vehicle trips, the				
	volume to capacity ratio on roads or				
	congestion at intersections)?			Х	
imited Conditio	w five-bedroom dwelling will result in a minima modated by Beach Drive and the road system to the hours of 8am to 5pm Monday through F on of Approval to minimize traffic impacts for r	iri ine vicir	nty. Constru	uction traffic	c will be s) as a
imited Condition	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for r  Cause an increase in parking demand which cannot be accommodated by	iri ine vicir	nty. Constru	uction traffic	c will be s) as a
imited Condition	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for r  Cause an increase in parking demand	iri ine vicir	nty. Constru	uction traffic	c will be s) as a
imited ( Condition	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for r  Cause an increase in parking demand which cannot be accommodated by	In the vicir Friday (excl residents a	onty. Construited	uction traffic nal holiday: ers. X	c will be s) as a
imited in Condition  The project a five	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recase an increase in parking demand which cannot be accommodated by existing parking facilities?  Ject meets the code requirements for the requirements of	In the vicir Friday (excl residents a	onty. Construited	uction traffic nal holiday: ers. X	c will be s) as a
mited Condition The project a five	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recase an increase in parking demand which cannot be accommodated by existing parking facilities?  Ject meets the code requirements for the requirements are the code requirements for the requirements are the code requirements.	In the vicir Friday (excl residents a	onty. Construited	uction traffic nal holiday: ers. X	c will be s) as a
imited Condition The proj or a five	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recase an increase in parking demand which cannot be accommodated by existing parking facilities?  Ject meets the code requirements for the requirements of	In the vicir Friday (excl residents a	onty. Construited	uction traffic nal holiday: ers. X	c will be s) as a
imited in Condition  The project a five the project in the project	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recommodated by existing parking facilities?  Ject meets the code requirements for the requirements for the requirements in the requirements for the r	in the vicir riday (excl residents a rired numb	nty. Construction of the c	uction traffic nal holidays ers. X et parking	c will be s) as a spaces
mited Condition The project The project	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recause an increase in parking demand which cannot be accommodated by existing parking facilities?  Ject meets the code requirements for the requirements for the requirements in the requirements of the requirements in the requirements for the requirements in the requirements for the requirements for the requirements in the requirements for the requirements for the requirements in the requirements for the requirements fo	in the vicir riday (excl residents a rired numb	nty. Construction of the c	uction traffic nal holidays ers. X et parking	c will be s) as a spaces
imited Condition The proper a five the proper motor	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recommodated by Cause an increase in parking demand which cannot be accommodated by existing parking facilities?  Ject meets the code requirements for the requirements for the requirements in the requirements for the requirements in the requirements for t	in the vicir riday (excl residents a rired numb	nty. Construction of the c	uction traffic nal holidays ers. X et parking	c will be s) as a spaces
imited in Condition  The proper a five in the proper motor in the proper	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recommodated by Cause an increase in parking demand which cannot be accommodated by existing parking facilities?  Ject meets the code requirements for the requirements for the requirements and the code requirements for the requirements have been single-family dwelling.  Increase hazards to motorists, Dicyclists, or pedestrians?  Dosed project will comply with current road regists, bicyclists, and/or pedestrians.	in the vicir riday (excl residents a rired numb	nty. Construction of the c	uction traffic nal holidays ers. X et parking	c will be s) as a spaces
imited in Condition  The property a five in the property in th	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recase an increase in parking demand which cannot be accommodated by existing parking facilities?  ject meets the code requirements for the requirements for the requirements and the code requirements for the requirements have been single-family dwelling.  Increase hazards to motorists, pricyclists, or pedestrians?  Dosed project will comply with current road recists, bicyclists, and/or pedestrians.  Exceed, either individually (the project allone) or cumulatively (the project	in the vicir riday (excl residents a rired numb	nty. Construction of the c	uction traffic nal holidays ers. X et parking	c will be s) as a spaces
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mited Condition Condition The property Motory Motory E	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recommodated by Cause an increase in parking demand which cannot be accommodated by existing parking facilities?  Ject meets the code requirements for the requirements for the requirements and the code requirements for the requirements have been single-family dwelling.  Increase hazards to motorists, Dicyclists, or pedestrians?  Dosed project will comply with current road regists, bicyclists, and/or pedestrians.  Exceed, either individually (the project alone) or cumulatively (the project combined with other development), a sevel of service standard established.	in the vicir riday (excl residents a rired numb	nty. Construction of the c	uction traffic nal holidays ers. X et parking	c will be s) as a spaces
mited Condition  he proper a five the proper a five the proper the	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recase an increase in parking demand which cannot be accommodated by existing parking facilities?  ject meets the code requirements for the requirements for the requirements for the requirements are single-family dwelling.  Increase hazards to motorists, poicyclists, or pedestrians?  Josed project will comply with current road recisits, bicyclists, and/or pedestrians.  Exceed, either individually (the project sidne) or cumulatively (the project combined with other development), a level of service standard established by the county congestion management.	in the vicir riday (excl residents a rired numb	nty. Construction of the c	uction traffic nal holidays ers. X et parking	c will be s) as a spaces
imited in Condition  The proper a five in the proper in th	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recommodated by Cause an increase in parking demand which cannot be accommodated by existing parking facilities?  Jiect meets the code requirements for the requirements for the requirements are the code requirements for the requirements have been single-family dwelling.  Increase hazards to motorists, Dicyclists, or pedestrians?  Josed project will comply with current road regists, bicyclists, and/or pedestrians.  Exceed, either individually (the project sombined with other development), a level of service standard established by the county congestion management gency for designated intersections	in the vicir riday (excl residents a rired numb	nty. Construction of the c	uction traffic nal holidays ers. X et parking	c will be s) as a spaces
mited Condition The property of the property The property of the property of t	to the hours of 8am to 5pm Monday through Fon of Approval to minimize traffic impacts for recommodated by Cause an increase in parking demand which cannot be accommodated by existing parking facilities?  Ject meets the code requirements for the requirements for the requirements and the code requirements for the requirements have been single-family dwelling.  Increase hazards to motorists, Dicyclists, or pedestrians?  Dosed project will comply with current road regists, bicyclists, and/or pedestrians.  Exceed, either individually (the project alone) or cumulatively (the project combined with other development), a sevel of service standard established.	in the vicir riday (excl residents a rired numb	nty. Construction of the c	uction traffic nal holidays ers. X et parking	c will be s) as a spaces

The level of traffic generated by one single-family dwelling (about 10 trip-ends) will not present

04-02 Page 1	55 Environmental Review Initial Study 6	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
a sign	ificant impact.				
<u>I. No</u> Does	ise the project have the potential to:		*		
1.	Generate a permanent increase in ambient noise levels in the project vicinity above levels existing without the project?			X	
Any no reside	oise generated on site will be consistent with ntial uses.	ambient no	ise levels froi	m surrour	nding
2.	Expose people to noise levels in excess of standards established in the General Plan, or applicable standards of other agencies?	E E	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		X
3.	Generate a temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	3).		X	
Constr	construction, neighboring properties will be s ruction will be confined to the hours of 8am to al holidays) so the impact to residents and we	5pm Mond	lav through F	riday (exc	cept
Does (Wher establ	Cuality the project have the potential to: the available, the significance criteria ished by the MBUAPCD may be relied to make the following determinations).	39			
1.	Violate any air quality standard or contribute substantially to an existing or projected air quality violation?			X	
22	- W				
2.	Conflict with or obstruct implementation of an adopted air quality plan?			æ X	

48 m

04-0: Page	255   17	Environmental Review Initial Study	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
3.	E:	xpose sensitive receptors to ubstantial pollutant concentrations?		<u> </u>	X	<del></del>
4.	C sı	reate objectionable odors affecting a ubstantial number of people?			X	
K. P Does	<u>ubli</u> the	c Services and Utilities project have the potential to:				
1.	ph co sig	esult in the need for new or hysically altered public facilities, the enstruction of which could cause gnificant environmental impacts, in der to maintain acceptable service			¥.	
8	ra pe pu	tios, response times, or other erformance objectives for any of the ablic services:				
\$1. \$1.	a.	Fire protection?			X	:
	b.	Police protection?	_ 5 . 		X	20.83
	C.	Schools?		ri	X	
	d.	Parks or other recreational activities?			X	
	e.	Other public facilities; including the maintenance of roads?		2	X	12 THE

04-02 Page 1	55 Environmental Review Initial Study 8	Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
by the	the project represents an incremental contributed minimal. Moreover, the project meets all of the local fire agency or California Department of lansportation fees to be paid by the applicant was in demand for school and recreational facili	ne standaro Forestry, a. vill be used	ds and requi s applicable, to offset the	rements id and schol	entified
2.	Result in the need for construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause				
	significant environmental effects?			Х	
appro	o project approval, a drainage plan prepared b ved by the Department of Public Works draina e County Geologist (see mitigation measure C	ge staff, thi	ect Civil Engi e project ged	neer shall otechnical	be engineer,
3.	Result in the need for construction of new water or wastewater treatment facilities or expansion of existing		- B		
	facilities, the construction of which could cause significant environmental effects?	Ø		X	
DISITIC	roject will connect to an existing municipal wate t has determined that adequate supplies are a priate mitigation measures (Attachment 12).	er supply. vailable to	The Soquel serve the pr	Creek Wa oject with	ter
4.	Cause a violation of wastewater				
	treatment standards of the Regional Water Quality Control Board?			Х	
The pr	oject's wastewater flows will not violate any wa	astewater t	reatment sta	andards.	<del></del>
5.	Create a situation in which water supplies are inadequate to serve the				
The wa	project or provide fire protection?	,		X	
the pro	eter mains serving the project site provide adec ssion. Additionally, Aptos/La Selva Fire Prote Ject plans, assuring conformity with fire protec ements for water supply for fire protection.	ction Distri	ct has revie	wed and a	pproved um
6.	Result in inadequate access for fire protection?		18	X	11

	= 02				
04-02 Page 1	255 Environmental Review Initial Study 19	Significant Or Potentially Significant Impact	Less then Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
increr emerg To off the Ap	roject's road access meets County standards Fire Protection District. Construction of a hounental increase in the need for all emergency gency crews may not be able to access the artiset this, the applicants shall consult with the Cotos-La Selva Fire District to establish a contintrophe.	ise in a ha: services. I ea due to d County Offic	zard prone a During and a lebris and/or ce of Emeroe	rea will res fter a catas landslide i ency Servic	sult in an strophe, material.
7.	Make a significant contribution to a cumulative reduction of landfill capacity or ability to properly dispose of refuse?	<u>-</u>	_	X	8
Howe create gradir	roject will make an incremental contribution to ver, this contribution will be relatively small and by existing land uses around the project. England building permit which shall indicate the ure E).	d will be of rosion con	similar mag trol plans su	nitude to ti bmitted for	nat the
8.	Result in a breach of federal, state, and local statutes and regulations related to solid waste management?				X
		A		E)	
	and Use, Population, and Housing the project have the potential to:		(8 - 1 ) (8 )		
1.	Conflict with any policy of the County adopted for the purpose of avoiding or mitigating an environmental effect?		X		
inunda be mil	ral Plan/LCP policy 6.2.15(a) requires that for ation or beach or bluff erosion, technical repor igated over the expected 100 year lifespan of liscussion under B.1. above)	ts must de	monstrate th	at the haz	ards can

General Plan/LCP policy 6.3.9 requires that site grading be minimized by requiring foundations to be designed to minimize cuts and fills and requiring avoidance of particularly erodible areas, and General Plan/LCP policy 8.2.2 requires new development to be sited and designed to minimize grading, avoid or provide mitigations for geologic hazards and conform to the physical constraints and topography of the site. The project meets this policy in that the design is a "bunker" style structure that fully considers the physical hazards on the site.

The "bunker" style construction recommended by the Geotechnical Report requires the rear of the house to be flush with the coastal bluff to serve as a retaining wall. This requires excavation into the bluff. The proposed 1,250 cubic yards of grading is not excessive for a house constructed in this style, as the amount of grading is similar to recently approved homes

04-0255 Environmental Review Initial Study Page 20 Significant
Or
Potentially
Significant
Impact

Less than
Significant
with
Mitigation
Incorporation

Less than Significant Or No Impact

Not Applicable

of a similar design at the southern end of Beach Drive. Furthermore, the proposed residence steps up the bluff to minimize excavation.

The County Geologist has determined that the cumulative effects of a number of excavations into the bluff on overall stability of that bluff will be insignificant as long as each operation is carried out per the guidelines of Geologic and Geotechnical reports as well as under the supervision of the report's authors, as outlined in the Geotechnical Report Review Letter; Attachment 8.

General Plan/LCP policies 5.10.2 & 5.10.3 require that development in scenic areas be evaluated against the context of their environment, utilize natural materials, blend with the area and integrate with the landform and that significant public vistas be protected from inappropriate structure design. The County's Urban Designer evaluated the proposed house for conformance with the County's Coastal Zone Design Criteria (County Code Section 13.20.130) and for compliance with the County's Design Review Ordinance (County Code Section 13.11). The proposed location and design of the dwelling has been determined by the Urban Designer to comply with all applicable provisions of these ordinances (attachment 15).

General Plan/LCP policy 5.10.7 allows structures which would be visible from a public beach, where compatible with existing development. Subsequent to Design Review the proposed dwelling has been determined to be compatible with the existing development along Beach Drive in terms of bulk, mass, scale, color, and materials. Furthermore, the visual impact of the proposed house on the beach will be minimized by the presence of existing development on the coast side of Beach Drive, with only the top story visible from the beach during low tides.

General Plan/LCP policies 8.6.5 and 8.6.6 require that development be complementary with the natural environment and that the colors and materials chosen blend with the natural landforms. The proposed dwelling complies with this policy by incorporating earth-tone colored concrete and teak wood siding to blend in with the colors of the bluff to the rear (attachment 16, color versions of this photosimulation are on file).

2.	Conflict with any County Code				
	regulation adopted for the purpose of				
	avoiding or mitigating an				
	environmental effect?		X		
				<del></del>	

Development on the subject parcel could potentially conflict with County Code Section 13.20.130(d)2ii, requiring that the design of permitted structures shall minimize visual intrusion, and shall incorporate materials and finishes which harmonize with the character of the area. To minimize potential conflicts, the architect proposes earth-tone colored stucco to match the bluff, subdued window and door trim, and horizontal wood siding with a natural finish as an accent. Furthermore, the height, bulk, and scale of the house will be consistent with the existing house at 641 Beach Drive and the two proposed bluff-toe residences approved under 99-0354.

3.	Physically divide an established	 -	X	
	and the second s			

		:			
04-02 Page 2		Significant Or Potentially Significant Impact	Less than Significant with Mitigation Incorporation	Less than Significant Or No Impact	Not Applicable
	community?		(4)	-	
The p comn	project will not include any element that volunity.	vill physicall	y divide an	establish	∍d
4.	Have a potentially significant growth inducing effect, either directly (for example, by proposing new homes				2 S
	and businesses) or indirectly (for example, through extension of roads or other infrastructure)?			X	100 100
extens	roposed project is designed at the density as al Plan and zoning designations for the parc sions of utilities (e.g., water, sewer, or new ro d. Consequently, it is not expected to have a	Cel. Additions	ally, the proje	ect does no	

5. Displace substantial numbers of people, or amount of existing housing, necessitating the construction of replacement housing elsewhere?

X

The proposed project will occur on a vacant parcel.

## M. Non-Local Approvals

Doe: or re	s the project require approval of federal, state, gional agencies?	Yes X	No
This appro	project is located within the appeal jurisdiction of the Ca oved is subject to the Coastal Commission's appeal prod	alifornia Coastal Cor cess.	nmission, and if
N. N	landatory Findings of Significance	36	
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, substantially reduce the number or restrict the range of a rare or endangered plant, animal, or natural community, or eliminate important examples of the major		
2.	periods of California history or prehistory?  Does the project have the potential to achieve short term, to the disadvantage of long term environmental goals? (A short term impact on the environment is one which occurs in a relatively brief, definitive period of time while long term impacts endure well into the future)	Yes	No X
3.	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, and the effects of reasonably foreseeable future projects which have entered the Environmental Review stage)?	Yes	No X
i.	Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	Yes	
			No X

#### TECHNICAL REVIEW CHECKLIST

REQUIRED	COMPLETED*	<u>N/A</u>
		X
		_X_
1/4	. <del> </del>	<u>X</u>
	iii.	
	<u>2/04</u>	
	. 2/04	
	9.	<u>X</u> .
		<u> </u>
4	-	
27		
	REQUIRED	2/04

#### Attachments:

- 1. Vicinity Map
- 2. Map of Zoning Districts
- 3. Map of General Plan Designations
- 4. Project Plans (reduced)
- 5. Assessors Parcel Map
- 6. Geotechnical Review Letter prepared by Haro, Kasunich, and Associates, dated May 26, 2005.
- 7. Geologic Review Letter, prepared by Joe Hanna, County geologist, dated August 9, 2004
- 8. Engineering Geologic and Geotechnical Report Acceptence Letter, prepared by Joe Hanna, County geologist, dated October 5, 2005.
- 9. Engineering Geologic Investigation (Report Summary, Conclusions, Recommendations, Map & Cross Sections) prepared by Nielsen and Associates, dated February 2004.
- 10. Geotechnical Investigation (Conclusions and Recommendations) prepared by Haro, Kasunich, and Associates, dated February 2004.
- 11. Discretionary Application Comments, dated September 2, 2005.
- 12. Letter from Soquel Creek Water District, dated June 11, 2004
- 13. Memo from Department of Public Works, Sanitation.
- 14. FEMA Flood Plain Map
- 15. Urban Designer's Comments, dated November 22, 2004
- 16. Photo-simulations of proposed project.



## CMAG ENGINEERING, INC.

P.O. BOX 640, APTOS, CALIFORNIA 95001 PH: 831.475.1411 WWW.CMAGENGINEERING.COM

> August 18, 2017 Project No. 13-110-SC

Arvind Agarwal 11487 Lindy Place Cupertino, California 95014

SUBJECT:

**ADDENDUM TO GEOTECHNICAL REPORT** 

Proposed Single Family Residence

548 Beach Drive, Rio Del Mar, Santa Cruz County, California

APN 043-152-71

REFERENCE:

CMAG Engineering, Inc. (June 21, 2013). Geotechnical and Geologic Investigation, Proposed Single Family Residence, 548 Beach Drive, Rio Del Mar, Santa Cruz County, California, APN 043-152-71. Project

No. 13-110-SC.

#### Dear Mr. Agarwal:

In accordance with your authorization, we have completed an addendum to the existing geotechnical investigation for the subject project. This addendum presents additional geotechnical recommendations based on the field exploration and laboratory testing presented in the referenced report. It is a pleasure being associated with you on this project. If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office.

Sincerely,

**CMAG ENGINEERING, INC.** 

Adrian L. Garner, PE, GE Principal Engineer C 66087, GE 2814 Expires 6/30/18 No. 2814

EAP. 1/80/18

OF CALIFORNIA

TO FOR CALIFORNIA

Distribution: Addressee (Electronic Copy)

August 18, 2017 Project No. 13-110-SC Page 2

#### 1.0 2013 CALIFORNIA BUILDING CODE SEISMIC PROVISIONS

The County of Santa Cruz has adopted the seismic provisions set forth in the 2013 California Building Code (2013 CBC) to address seismic shaking. The seismic provisions in the 2013 CBC are minimum load requirements for the seismic design for the proposed structure. The provisions set forth in the 2013 CBC will not prevent structural and nonstructural damage from direct fault ground surface rupture, coseismic ground cracking, liquefaction and lateral spreading, seismically induced differential compaction, or seismically induced landsliding.

Table 1 has been constructed based on the 2013 CBC requirements for the seismic design of the proposed structure. The Site Class has been determined based on our field investigation and laboratory testing.

Table 1. Seismic Design Parameters - 2013 CBC

Ss	S <sub>1</sub>	Site Class	Fa	F,	S <sub>MS</sub>	S <sub>M1</sub>	S <sub>DS</sub>	S <sub>D1</sub>	PGA <sub>M</sub>
1.522g	0.602g	D	1.0	1.5	1.522g	0.903g	1.015g	0.602g	0.574g

#### 2.0 LIMITATIONS

Our addendum was performed in accordance with the usual and current standards of the profession, as they relate to this and similar localities. No other warranty, expressed or implied, is provided as to the conclusions and professional advice presented in this report.

Soil and geologic conditions can vary significantly between sample locations.

As in most projects, conditions revealed during construction excavation may be at variance with preliminary findings. If this occurs, the changed conditions must be evaluated by the Project Geotechnical Engineer and the Geologist, and revised recommendations be provided as required.

This addendum is issued with the understanding that it is the responsibility of the Owner, or of his Representative, to ensure that the information and recommendations contained herein are brought to the attention of the Architect and Engineer for the project and incorporated into the plans, and that it is ensured that the Contractor and Subcontractors implement such recommendations in the field.

Addendum to Geotechnical Report 548 Beach Drive Santa Cruz County, California August 18, 2017 Project No. 13-110-SC Page 3

This firm does not practice or consult in the field of safety engineering. We do not direct the Contractor's operations, and we are not responsible for other than our own personnel on the site; therefore, the safety of others is the responsibility of the Contractor. The Contractor should notify the Owner if he considers any of the recommended actions presented herein to be unsafe.

The findings of this addendum are considered valid as of the present date. However, changes in the conditions of a site can occur with the passage of time, whether they be due to natural events or to human activities on this or adjacent sites. In addition, changes in applicable or appropriate codes and standards may occur, whether they result from legislation or the broadening of knowledge.

Accordingly, this addendum may become invalidated wholly or partially by changes outside our control. Therefore, this addendum is subject to review and revision as changed conditions are identified.



## CMAG ENGINEERING, INC.

P.O. BOX 640 APTOS, CALIFORNIA 95001 PHONE: 831.475.1411 WWW.CMAGENGINEERING.COM

> May 22, 2017 Project No. 13-110-SC

Arvind Agarwal 11487 Lindy Place Cupertino, California 95014

SUBJECT:

**GEOTECHNICAL UPDATE** 

Proposed Single Family Residence

548 Beach Drive, Rio Del Mar, Santa Cruz County, California

APN 043-152-71

REFERENCE:

CMAG Engineering, Inc. (June 21, 2013). Geotechnical and Geologic Investigation, Proposed Single Family Residence, 548 Beach Drive, Rio Del Mar, Santa Cruz County, California, APN 043-152-71. Project

No. 13-110-SC.

Dear Mr. Agarwal:

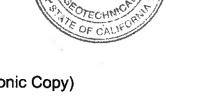
It is our opinion that no substantial geotechnical changes have occurred to the subject site since the production of the referenced report. Therefore, it is our opinion that the report is still valid and all recommendations should be adhered to. It is a pleasure being associated with you on this project. If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office.

Sincerely,

**CMAG ENGINEERING, INC.** 

Adrian L. Garner, CE, GE Principal Engineer CE 66087, GE 2814 Expires 6/30/18

Distribution: Addressee (Electronic Copy)





## CMAG ENGINEERING, INC.

P.O. BOX 640 APTOS, CALIFORNIA 95001 PHONE: 831.475.1411 WWW.CMAGENGINEERING.COM

> September 25, 2017 Project No. 13-110-SC

Arvind Agarwal 11487 Lindy Place Cupertino, California 95014

SUBJECT:

**GEOLOGIC UPDATE** 

**Proposed Single Family Residence** 

548 Beach Drive, Rio Del Mar, Santa Cruz County, California

APN 043-152-71

REFERENCE:

CMAG Engineering, Inc. (June 21, 2013). Geotechnical and Geologic Investigation, Proposed Single Family Residence, 548 Beach Drive, Rio Del Mar, Santa Cruz County, California, APN 043-152-71. Project

No. 13-110-SC.

Dear Mr. Agarwal:

It is our opinion that no substantial geological changes have occurred to the subject site since the production of the referenced report. Therefore, it is our opinion that the report is still valid and all recommendations should be adhered to. It is a pleasure being associated with you on this project. If you have any questions, or if we may be of further assistance, please do not hesitate to contact our office.

Sincerely,

**CMAG ENGINEERING, INC.** 

James A. Olson, PG, CEG Senior Engineering Geologist PG 7244, CEG 2267

**GEOLOGIST** 

E OF CALIF

Distribution: Addressee (Electronic Copy)



## COUNTY OF SANTA CRUZ

#### **PLANNING DEPARTMENT**

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

November 22, 2017

Arvind Agarwal 11487 Lindy Place Cupertino, CA 95014

Subject:

Review of Addendum to Geotechnical and Engineering Geology Investigation / Report By CMAG Engineering, dated August 18, 201; and Geotehcnical Update by CMAG Engineering, dated May 22, 2017 and Geologic Update by CMAG Engineering dated September 25, 2017: Project: 13-110-SC

APN 043-152-71, Application #: REV171087

Dear Mr. Agarwal,

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

- All construction shall comply with the recommendations of the report.
- 2. Final plans shall reference the reports and include a statement that the project shall conform to the report's recommendations.
- Prior to building permit issuance a plan review letter shall be submitted to Environmental Planning. After plans are prepared that are acceptable to all reviewing agencies, please submit a geotechnical and geologic plan review letter that states the project plans conform to the recommendations of the geotechnical report. Please note that the plan review letter must reference the final plan set by last revision date. The author of the report shall write the plan review letter.
- 4. A declaration of geologic hazards (attached) must be recorded before the final inspection on this project.

After building permit issuance the soils engineer and geologist *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 note that this determination may be appealed within 14 calendar days of the date of service. Additional information regarding the appeals process may be found online at: http://www.sccoplanning.com/html/devrev/plnappeal\_bldg.htm

Please call the undersigned at (831) 454-3175 or by email at <a href="mailto:pln829@co.santa-cruz.ca.us">pln829@co.santa-cruz.ca.us</a> if we can be of any further assistance.

(over)

Review of Geotechnical and Ingineering Geology, Project: 13-110-9

APN: 043-152-71 Page 2 of 6

Sincerely

Joe Hanna

County Geologist

Cc:

Jessica deGrassi, Environmental Planning CMAG Engineering owner (if different from applicant)

## 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.
- 2. **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.

(over)

Return recorded form to: Planning Department County of Santa Cruz 701 Ocean Street, 4th Floor

Attention:

Joe Hanna County Geologist 831-454-3175

## **Notice**

THIS PAGE ADDED TO PROVIDE ADEQUATE SPACE FOR RECORDING INFORMATION (CALIFORNIA GOVERNMENT CODE §27361.6)

(over)

EXHIBIT F

## RECORDED AT REQUEST OF: County of Santa Cruz

#### WHEN RECORDED MAIL TO:

Santa Cruz County Planning 701 Ocean St. Santa Cruz, CA 95060

(Space above this line for Recorder's use only)

#### Note to County Recorder:

Please return to the staff geologist in the Planning Department when completed.

## DECLARATION REGARDING THE ISSUANCE OF A DEVELOPMENT PERMIT IN AN AREA SUBJECT TO GEOLOGIC HAZARDS

The undersigned	d
(names of prope	erty owners) (does) (do) hereby certify to be the owner(s) of the real property located in
the County of Sa	anta Cruz, State of California, commonly known as
	(Street address); legally described in that certain deed recorded in Document
Number	of the official records of the Santa Cruz County Recorder on
<u> </u>	(deed recordation date); Assessor's Parcel Number 043-152-71.
And, acknowled	ge that records and reports, filed with the Santa Cruz County Planning Department, a above described property is located within an area that is subject to geologic hazards
la wit	

The home has been constructed at the bases of the coastal bluff in an area of potential flooding and erosion.

Please read the Geotechnical and Engineering Geology Investigation / Report by CMAG Engineering; Dated June 21, 2013, updated August 18, 2017: Project: 13-110-SC for more information about these hazards and their mitigation.

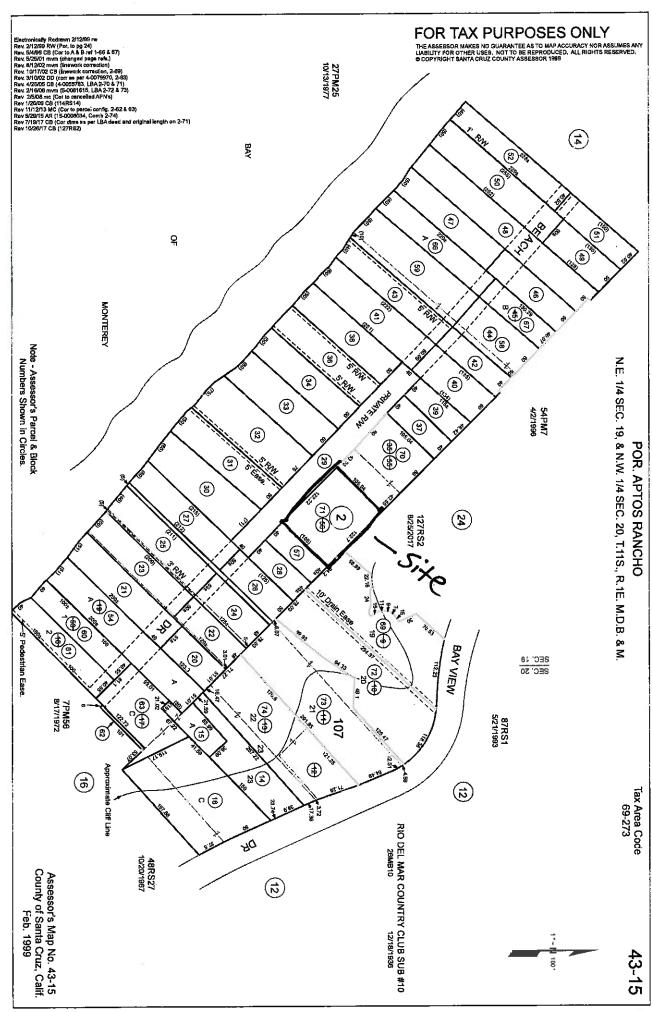
This report is in the files for APN 043-152-71, Application #: B-134364.

The site may be subject to intense seismic shaking and tsunami.

In addition, having full understanding of said hazards and the proposed mitigation of these hazards, we elect to pursue development activities in an area subject to geologic hazards and do hereby agree to release the County from any liability and consequences arising from the issuance of the development permit.

This declaration shall run with the land and shall be binding upon the undersigned, any future owners encumbrancers, their successors, heirs, or assignees. This document should be disclosed to the forgoing individuals. This declaration may not be altered or removed from the records of the County Recorder without the prior consent of the Planning Director of the County of Santa Cruz.

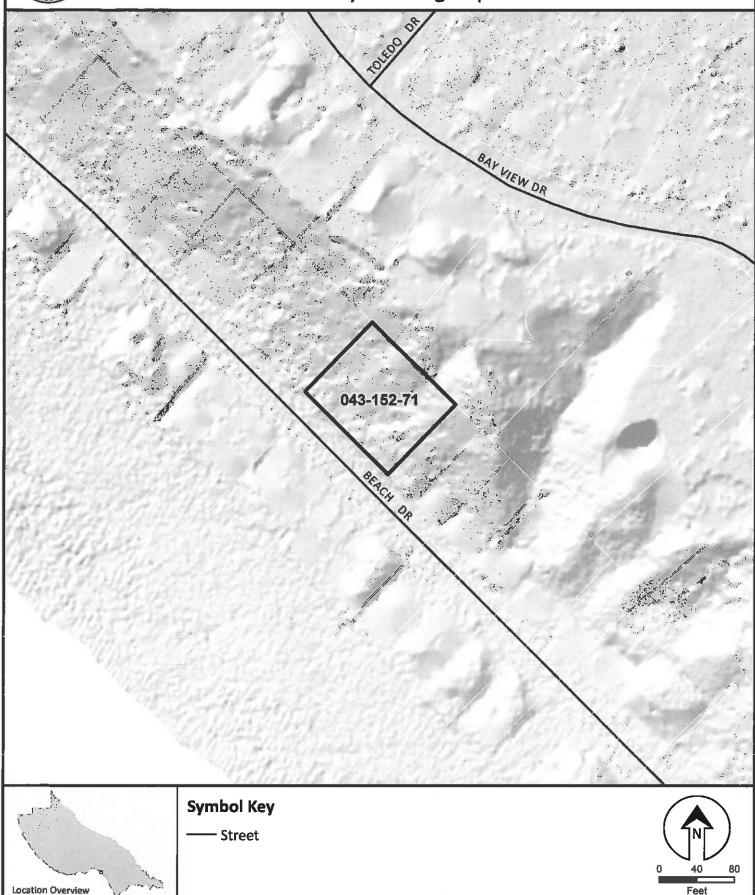
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This form must be after notarization a	reviewed and approve	d by a County Planni	ng Departmer	nt staff person
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COUNTY OF SAN	TA CRUZ			Ý
By:				
Planning De	epartment Staff			



# **Parcel Location Map**

**Santa Cruz County Planning Department** 

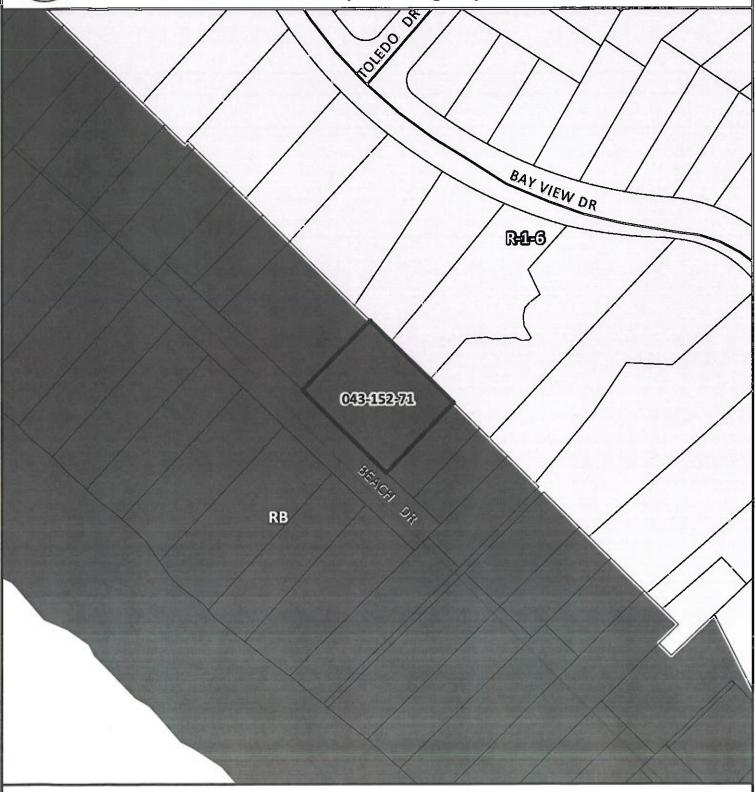
Parcel Number 043-152-71 Feb. 15, 2018



# **Parcel Zoning Map**

Santa Cruz County Planning Department

Parcel Number **043-152-71** Feb. 15, 2018



### Zoning

(R-1) Single-Family Residential

(RB) Single-Family Ocean Beach Residential





# Parcel General Plan Map

Santa Cruz County Planning Department

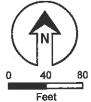
Parcel Number 043-152-71 Feb. 15, 2018

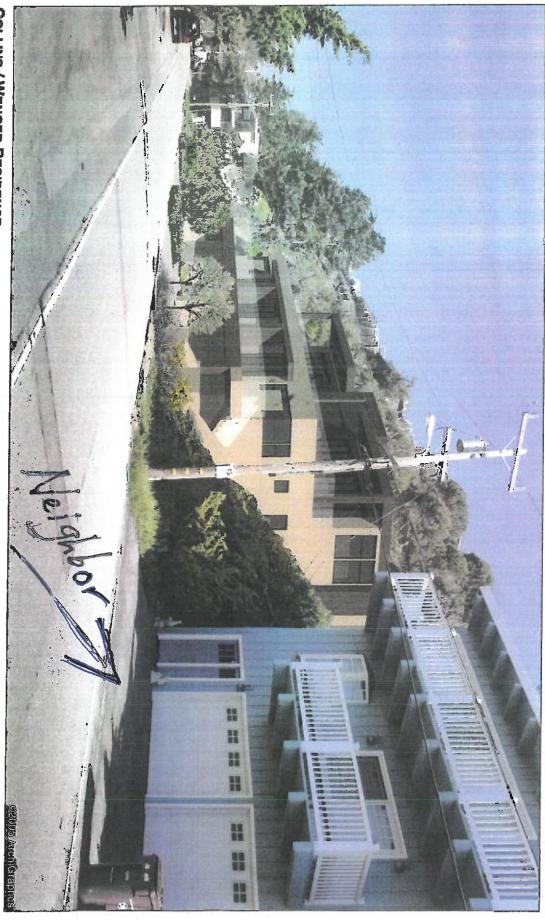


#### **General Plan**

O-R - Parks and Recreation

R-UL - Residential - Urban Low Density





COLLINS / WENGER RESIDENCE
548 Beach Drive, Aptos CA
Jim Mosgrove, Architect
Rendering: Architgraphics

