Exhibit A

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DRAFT RESOLUTION

Before the Housing and Community Development in and for the County of Monterey, State of California

In the matter of the application of: BERRELLEZA OCTAVIO & IRMA TRS RESOLUTION NO. 25-

Resolution by the Monterey County HCD Chief of Planning:

- Finding that the project qualifies as a Class 3 Categorical Exemption pursuant to CEQA guidelines section 15303, and there are no exceptions pursuant to Section 15300.2 of the CEQA guidelines; and
- Approving a Coastal Administrative Permit to allow demolition of an existing 1,152 square foot two-story single-family dwelling and construction of a one-story 5,234 square foot single-family dwelling with an attached 968 square foot garage; and a Coastal Administrative Permit to allow construction of a 425 square foot guesthouse.

[BERRELLEZA OCTAVIO & IRMA TRS, 543 Pini Road, Royal Oaks (Assessor's Parcel Number 412-012-055-000), North County Land Use Plan, Coastal Zone.]

The Berrelleza application (PLN190440) came before the Monterey County HCD Chief of Planning on January 15, 2025. Having considered all the written and documentary evidence, the administrative record, and the staff report, the HCD Chief of Planning finds and decides as follows:

FINDINGS

- 1. **FINDING: CONSISTENCY** The proposed project and use, as conditioned, is consistent with the applicable plans and policies which designate this area as appropriate for development.
 - **EVIDENCE:** a) The project has been reviewed for consistency with the text, policies, and regulations in:
 - 1982 Monterey County General Plan (General Plan);
 - North County Land Use Plan (NC LUP);
 - Monterey County Coastal Implementation Plan, Part 2 (NC CIP); and
 - Monterey County Coastal Zoning Ordinance (Title 20). No conflicts were found to exist. The subject property is located within the Coastal Zone; therefore, the 2010 Monterey County General Plan does not apply.
 - b) <u>Proposed Project</u>. The subject property is currently developed with a 1,152-square-foot single-family dwelling. A portion (727 square feet) of this existing residence will be demolished, and the remaining 425

BERRELLEZA (PLN190440)

square foot portion of the structure will be remodeled into a guesthouse. However, because more than 50 percent of the walls will be demolished, it is considered demolition of the existing dwelling and new construction of a guesthouse. Additionally, the proposed project involves the construction of a 5,234 square-foot single-family dwelling with an attached 968 square foot garage, and 1,649 square feet of covered decks.

- c) <u>Allowed Use.</u> The property is located at 543 Pini Road, Royal Oaks, North County Land Use Plan, Coastal Zone (Assessor's Parcel Number [APN]: 412-012-055-000). The subject property is zoned Rural Density Residential (RDR), with 5 acres per unit, Coastal Zone or "RDR/5(CZ)." Pursuant to Title 20 sections 20.16.040.A & B, the RDR zoning allows for the establishment of the first family dwelling per legal lot of record and a guesthouse as a principally allowed use subject to a Coastal Administrative Permit in each case. The project involves construction of a single-family dwelling and a detached guesthouse. Therefore, the project involves an allowed use.
- d) <u>Lot Legality.</u> The subject property (5.4 acres), APN: 412-012-055-000 is shown in its current configuration and under separate ownership in both the 1964 and 1972 Assessors Maps. Therefore, the County recognizes the subject property as a legal lot of record.
- Cultural Resources. NC CIP Section 20.144.110.B.1.b states that an e) archaeological survey report shall be required for any development project within a low or moderate archaeological sensitivity zone which would require environment assessment and within 750 feet of a known archaeological resource. According to the Monterey County Geographic Informational System (GIS), the subject property has a low archaeological sensitivity and is not within 750 of a known archeological resource. As demonstrated in Finding No. 6 and supporting evidence, the project is exempt from environmental review. Therefore, an archaeological report was not required in this case. The potential for inadvertent impacts to cultural resources is limited. The County has applied a standard project condition of approval (Condition No. 3) which requires the contractor to stop work if previously unidentified resources are accidentally discovered during construction.
- f) <u>Design and Visual Resources.</u> The single-family dwelling and guesthouse will include colors and materials consisting of tan and beige cement plaster, tile roofing, and natural wood trim. The proposed project is consistent with the rural neighborhood character and will not detract from the surrounding environment. Further, the proposed project is not visible from Highway One, Molera Road, Struve Road, public beaches, or Elkhorn Slough due to location and distance, and therefore will have no visual impact.
- g) <u>Review of Development Standards.</u> Title 20 section 20.16.060 identifies site development standards for the RDR district. Required setbacks for main structures are 30 feet (front), 20 feet (sides) and 20 feet (rear). Required setbacks for non-habitable structures, such as guesthouses, are 50 feet (front), 6 feet (front one-half side), 1 foot (rear one-half side), and 1 foot (rear). As illustrated on the attached plans, the proposed residence and the existing residence to be

BERRELLEZA (PLN190440)

partially demolished and remodeled into a guesthouse comply with these setback requirements.

The proposed main structure will have a height of 18 feet 9 inches, which is below the 30 feet maximum allowed for main structures in the RDR zoning district. The proposed guesthouse will have a height of 11 feet 11 inches, which is consistent with the 12 feet maximum height allowed for guesthouses pursuant to Title 20 section 20.64.020.

Pursuant to Title 20 section 20.16.060.E, the maximum allowed site coverage for RDR is 25 percent. The proposed development will result in a site coverage of 8 percent. Therefore, the proposed project complies with all applicable site development standards.

- h) <u>Guesthouse.</u> The proposed project includes a Coastal Administrative Permit to allow the establishment of a guesthouse. As demonstrated in Finding No. 7 and supporting evidence, the proposed guesthouse complies with guesthouse standards identified in Title 20 section 20.64.020.
- i) The application, plans, and supporting materials, submitted by the project applicant to Monterey County HCD-Planning found in Project File PLN190440.

2. **FINDING:** SITE SUITABILITY – The site is physically suitable for use proposed.

- **EVIDENCE:** a) The project has been reviewed for site suitability by the following departments and agencies: HCD-Planning, HCD-Environmental Services, North County Fire Protection District, HCD-Engineering Services, and Environmental Health Bureau. There has been no indication from these departments/agencies that the site is not suitable for the proposed development. Recommended conditions from these departments/agencies have been incorporated.
 - b) The following technical report has been prepared:
 - Soil Investigation Report (Design Phase) (LIB230117) prepared by Geronimo Daliva, GMD Engineers, Salinas, California, December 1, 2019.

Upon independent review, staff concurs with conclusions of the report. There are no physical or environmental constraints that would render the site unsuitable for the use proposed.

- c) Staff conducted a site inspection on February 21, 2023 and confirmed the site is suitable for implementation of the proposed development.
- d) The application, plans and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN190440.

3. FINDING: HEALTH AND SAFETY – The establishment, maintenance, or operation of the project applied for will not under the circumstances of this particular case be detrimental to the health, safety, peace, morals, comfort, and general welfare of persons residing or working in the neighborhood of such proposed use, or be detrimental or

injurious to property and improvements in the neighborhood or to the general welfare of the County.

- **EVIDENE:** a) The project was reviewed by the HCD-Planning, North County Fire Protection District, HCD-Engineering Services, HCD-Environmental Services, and Environmental Health Bureau (EHB). The respective agencies have recommended conditions, where appropriate, to ensure that the project will not have an adverse effect on the health, safety, and welfare of persons either residing or working in the neighborhood.
 - b) All necessary public facilities are currently available to the subject property. The subject property and proposed development will continue to utilize Pini Road Water System #07, which produced acceptable water quality results in July 2020. An existing on-site wastewater treatment system (OWTS) serves the existing residence. This OWTS will be demolished and replaced with an Alternative OWTS, which has been designed to serve both the proposed main residence and the guesthouse. EHB reviewed and approved the Alternative OWTS and applied no conditions of approval.
 - c) The application, plans and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN190440.
- 4. **FINDING: NO VIOLATIONS -** The subject property is in compliance with all rules and regulations pertaining to zoning uses, subdivision, and any other applicable provisions of the County's zoning ordinance. No violations exist on the property.
 - **EVIDENCE:** a) Staff reviewed Monterey County HCD Planning and HCD-Building Services Department records and conducted a site overview to verify there are no violations existing on the subject property.
 - b) The application, plans and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN190440.

5. FINDING: PUBLIC ACCESS - The project is in conformance with the public access and recreation policies of the Coastal Act (specifically Chapter 3 of the Coastal Act of 1976, commencing with Section 30200 of the Public Resources Code) and applicable Local Coastal Program, and does not interfere with any form of historic public use or trust rights.

- **EVIDENCE:** a) The subject project site is not described as an area where the Local Coastal Program requires public access (Figure 4, Local Coastal Program Public Access, in the North County Land Use Plan).
 - b) No access is required as part of the project as no substantial adverse impact on access, either individually or cumulatively, as described in Section 20.144.150 of the North County Coastal Implementation Plan can be demonstrated.
 - c) No evidence or documentation has been submitted or found showing the existence of historic public use or trust rights over this property.
 - d) The application, plans and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN190440.

- 6. **FINDING: CEQA (Exempt)** The project is categorically exempt from environmental review and no unusual circumstances were identified to exist for the proposed project.
 - **EVIDENCE:** a) California Environmental Quality Act (CEQA) Guidelines Section 15303 categorically exempts the construction of the first single-family dwelling and accessory structures and the conversion of structures from one use to the other.
 - b) A portion (727 square feet) of an existing 1,152-square-foot single-family dwelling will be demolished, and the remaining 425 square foot portion will be converted into a guesthouse. Only minor exterior improvements will occur to the 425 square foot portion the residence. Additionally, the proposed project involves the construction of a 5,234 square-foot single-family dwelling with an attached 968 square-foot garage, and 1,649 square feet of covered decks. Therefore, the proposed project qualifies for a Class 3 Categorical Exemption.
 - c) No adverse environmental effects were identified during HCD Staff review of the development application or during a site overview.
 - d) The property is fairly ordinary in its location and environment. It is located adjacent to farmlands (to the south) and several rural residential lots with developed single-family dwellings on the east, west and north. There are some trees along Pini Road that will remain and open, non-native grasslands where the home will be constructed.
 - e) None of the exceptions under CEQA Guidelines Section 15300.2 apply to this project. The project does not involve a designated historical resource, a hazardous waste site, development located near or within view of a scenic highway, unusual circumstances that would result in a significant effect or development that would result in a cumulative significant impact.
 - f) The application, plans and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the proposed development found in Project File PLN190440.
- 7. **FINDING: GUESTHOUSE** The project meets the established regulations and standards as identified in Title 20 section 20.64.020.
 - a) Title 20 section 20.64.020 establishes regulations and standards for which a guesthouse may be permitted. The project includes the construction of a 425 square foot guesthouse with no cooking facilities.
 - b) The proposed guesthouse is the only guesthouse on the property and it will not be separately rented from the main house. Staff has applied the standard coastal guesthouse deed restriction as Condition No. 5 which reflects the limitations on the use of the guesthouse.
 - c) As defined in Title 20 section 20.58.040, the guesthouse requires one parking space. Consistent with this requirement, the guesthouse will have one parking space located along the existing driveway, which will serve the guesthouse.
 - d) The guesthouse meets the required site development standards and design criteria as defined in Title 20 section 20.12.060 (see Finding No. 1, Evidence "f"). The guesthouse has been designed to be visually consistent and compatible with the main residence (see Finding No. 1, Evidence "e").

EVIDENCE:

- e) The application was reviewed by the Environmental Health Bureau (EHB) to ensure adequate sewage disposal and water supply facilities exist and are readily available to serve the guesthouse. Although the guesthouse will be sited approximately 400 feet from the proposed residence, the guesthouse will share the same utilities with the main residence. EHB made the determination that the property has adequate water facilities and proposes adequate wastewater facilities, and no further comments or conditions were provided (see Finding No. 3 and supporting evidence).
- f) The application, plans and supporting materials submitted by the project applicant to Monterey County HCD-Planning for the development are found in Project File PLN190440.

8. **FINDING: APPEALABILITY -** The decision on this project may be appealed to the Board of Supervisors and not to the Coastal Commission.

- **EVIDENCE:** a) <u>Board of Supervisors.</u> In accordance with Section 20.86.030.A of the Monterey County Zoning Ordinance (Title 20), an appeal may be made to the Board of Supervisors by any public agency or person aggrieved by a decision of an Appropriate Authority other than the Board of Supervisors.
 - b) <u>Coastal Commission</u>. Pursuant to Title 20 section 20.86.080.A, the project is not subject to appeal by/to the California Coastal Commission because it does not involve development between the sea and the first through public road paralleling the sea. The project site is not located within 300 feet of the inland extent of any beach or of the mean high tide line of the sea, or located on tidelands, submerged lands, public trust lands, within 100 feet of any wetland, estuary, stream or within 300 feet of the top of the seaward face of any coastal bluff. The project also does not include development that is permitted in the underlying zone as a conditional use.

DECISION

NOW, THEREFORE, based on the above findings and evidence, the HCD Chief of Planning does hereby:

- 1) Find that the project qualifies as a Class 3 Categorical Exemption pursuant to CEQA guidelines section 15303, and there are no exceptions pursuant to Section 15300.2 of the CEQA guidelines; and
- Approve a Coastal Administrative Permit to allow demolition of an existing 1,152 square foot two-story single-family dwelling and construction of a one-story 5,234 square foot single-family dwelling with an attached 968 square foot garage; and a Coastal Administrative Permit to allow construction of a 425 square foot guesthouse.

All of which are in general conformance with the Plan Set and subject to five (5) conditions of approval, all being attached hereto, and incorporated herein, by reference.

PASSED AND ADOPTED this 15th day of January 2025 by:

Melanie Beretti, AICP, Chief of Planning

COPY OF THIS DECISION MAILED TO APPLICANT ON _____.

THIS APPLICATION IS APPEALABLE TO THE BOARD OF SUPERVISORS.

IF ANYONE WISHES TO APPEAL THIS DECISION, AN APPEAL FORM MUST BE COMPLETED AND SUBMITTED TO THE CLERK OF THE BOARD ON OR BEFORE _____.

THIS PROJECT IS LOCATED IN THE COASTAL ZONE AND IS APPEALABLE TO THE COASTAL COMMISSION. UPON RECEIPT OF NOTIFICATION OF THE FINAL LOCAL ACTION NOTICE (FLAN) STATING THE DECISION BY THE FINAL DECISION MAKING BODY, THE COMMISSION ESTABLISHES A 10 WORKING DAY APPEAL PERIOD. AN APPEAL FORM MUST BE FILED WITH THE COASTAL COMMISSION. FOR FURTHER INFORMATION, CONTACT THE COASTAL COMMISSION AT (831) 427-4863 OR AT 725 FRONT STREET, SUITE 300, SANTA CRUZ, CA.

This decision, if this is the final administrative decision, is subject to judicial review pursuant to California Code of Civil Procedure Sections 1094.5 and 1094.6. Any Petition for Writ of Mandate must be filed with the Court no later than the 90th day following the date on which this decision becomes final.

<u>NOTES</u>

1. You will need a building permit and must comply with the Monterey County Building Ordinance in every respect.

Additionally, the Zoning Ordinance provides that no building permit shall be issued, nor any use conducted, otherwise than in accordance with the conditions and terms of the permit granted or until ten days after the mailing of notice of the granting of the permit by the appropriate authority, or after granting of the permit by the Board of Supervisors in the event of appeal.

Do not start any construction or occupy any building until you have obtained the necessary permits and use clearances from Monterey County HCD-Planning and HCD-Building Services office in Salinas.

2. This permit expires 3 years after the above date of granting thereof unless construction or use is started within this period.

County of Monterey HCD Planning

DRAFT Conditions of Approval/Implementation Plan/Mitigation Monitoring and Reporting Plan

PLN190440

1. PD001 - SPECIFIC USES ONLY

Responsible Department: Planning

Condition/Mitigation This Coastal Administrative Permit (PLN190440) allows demolition of an existing 1,152 **Monitoring Measure:** square foot two-story single-family dwelling and construction of a one-story 5,234 square foot single-family dwelling with an attached 968 square foot garage and a detached 425 square foot guesthouse. The property is located at 543 Pini Road, Royal Oaks (Assessor's Parcel Number 412-012-055-000), North County Land Use Plan, Coastal Zone. This permit was approved in accordance with County ordinances and land use regulations subject to the terms and conditions described in the project file. Neither the uses nor the construction allowed by this permit shall commence unless and until all of the conditions of this permit are met to the satisfaction of the Director of RMA - Planning. Any use or construction not in substantial conformance with the terms and conditions of this permit is a violation of County regulations and may result in modification or revocation of this permit and subsequent legal action. No use or construction other than that specified by this permit is allowed unless additional permits are approved by the appropriate authorities. To the extent that the County has delegated any condition compliance or mitigation monitoring to the Monterey County Water Resources Agency, the Water Resources Agency shall provide all information requested by the County and the County shall bear ultimate responsibility to ensure that conditions and mitigation measures are properly fulfilled. (RMA - Planning)

Compliance or Monitoring Action to be Performed: Compliance or Output Output Compliance or Output Output Compliance or Compliance or Output Compliance or Compliance o

2. PD002 - NOTICE PERMIT APPROVAL

Responsible Department: Planning

Condition/Mitigation Monitoring Measure:

"Two Coastal Administrative Permits (Resolution Number were approved by the **HCD-Chief** of Planning for Assessor's Parcel Number 412-012-055-000 on January 15, 2025. The permit was granted subject to 5 conditions of approval which run with the land. A copy of the permit is on file with Monterey County RMA - Planning."

Proof of recordation of this notice shall be furnished to the Director of RMA - Planning prior to issuance of grading and building permits, Certificates of Compliance, or commencement of use, whichever occurs first and as applicable. (RMA - Planning)

Compliance or Monitoring Action to be Performed: Prior to the issuance of grading and building permits, certificates of compliance, or commencement of use, whichever occurs first and as applicable, the Owner/Applicant shall provide proof of recordation of this notice to the RMA - Planning.

3. PD003(A) - CULTURAL RESOURCES NEGATIVE ARCHAEOLOGICAL REPORT

Responsible Department: Planning

Condition/Mitigation lf, during the course of construction, cultural, archaeological, historical or **Monitoring Measure:** paleontological resources are uncovered at the site (surface or subsurface resources) work shall be halted immediately within 50 meters (165 feet) of the find until a qualified professional archaeologist can evaluate it. Monterey County RMA - Planning and a archaeologist (i.e., an archaeologist registered the Register qualified with of immediately Professional Archaeologists) shall be contacted by the responsible individual present on-site. When contacted, the project planner and the archaeologist shall immediately visit the site to determine the extent of the resources and to develop proper mitigation measures required for recovery. (RMA - Planning)

Compliance or The Owner/Applicant shall adhere to this condition on an on-going basis.

Action to be

Performed: Prior to the issuance of grading or building permits and/or prior to the recordation of the final/parcel map, whichever occurs first, the Owner/Applicant shall include requirements of this condition as a note on all grading and building plans. The note shall state "Stop work within 50 meters (165 feet) of uncovered resource and contact Monterey County RMA - Planning and a qualified archaeologist immediately if cultural, archaeological, historical or paleontological resources are uncovered."

When contacted, the project planner and the archaeologist shall immediately visit the site to determine the extent of the resources and to develop proper mitigation measures required for the discovery.

4. PD014(A) - LIGHTING - EXTERIOR LIGHTING PLAN

Responsible Department: Planning

- Condition/Mitigation Monitoring Measure: All exterior lighting shall be unobtrusive, down-lit, harmonious with the local area, and constructed or located so that only the intended area is illuminated and off-site glare is fully controlled. The lighting source shall be shielded and recessed into the fixture. The applicant shall submit three (3) copies of an exterior lighting plan which shall indicate the location, type, and wattage of all light fixtures and include catalog sheets for each fixture. The lighting shall comply with the requirements of the California Energy Code set forth in California Code of Regulations Title 24 Part 6. The exterior lighting plan shall be subject to approval by the Director of HCD - Planning, prior to the issuance of building permits. (HCD - Planning)
 - **Compliance or Monitoring Action to be Performed:**Prior to the issuance of building permits, the Owner/Applicant shall submit three copies of the lighting plans to HCD - Planning for review and approval. Approved lighting plans shall be incorporated into final building plans.

Prior to final/occupancy, the Owner/Applicant/Contractor shall submit written and photographic evidence demonstrating that the lighting has been installed according to the approved plan.

On an on-going basis, the Owner/Applicant shall ensure that the lighting is installed and maintained in accordance with the approved plan.

5. PD019(B) - DEED RESTRICTION-GUESTHOUSE (COASTAL)

Responsible Department: Planning

Condition/Mitigation Monitoring Measure:

ⁿ The applicant shall record a deed restriction stating the regulations applicable to a ^{e:} Guesthouse (Coastal) as follows:

- Only 1 guesthouse shall be allowed per lot.

- Detached guesthouses shall be located in close proximity to the principal residence.

- Guesthouses shall share the same utilities with the main residence, unless prohibited by public health requirements.

- The guesthouse shall not have cooking or kitchen facilities, including but not limited to microwave ovens, hot plates and toaster ovens.

- The guesthouse shall have a maximum of 6 linear feet of counter space, excluding counter space in a bathroom. There shall be a maximum of 8 square feet of cabinet space, excluding clothes closets.

- The guesthouse shall not exceed 425 square feet of livable floor area.

- The guesthouse shall not be separately rented, let or leased from the main residence whether compensation be direct or indirect.

- Subsequent subdivisions which divide a main residence from a guesthouse shall be prohibited.

- The guesthouse shall be designed in such a manner as to be visually consistent and compatible with the main residence on site and other residences in the area.

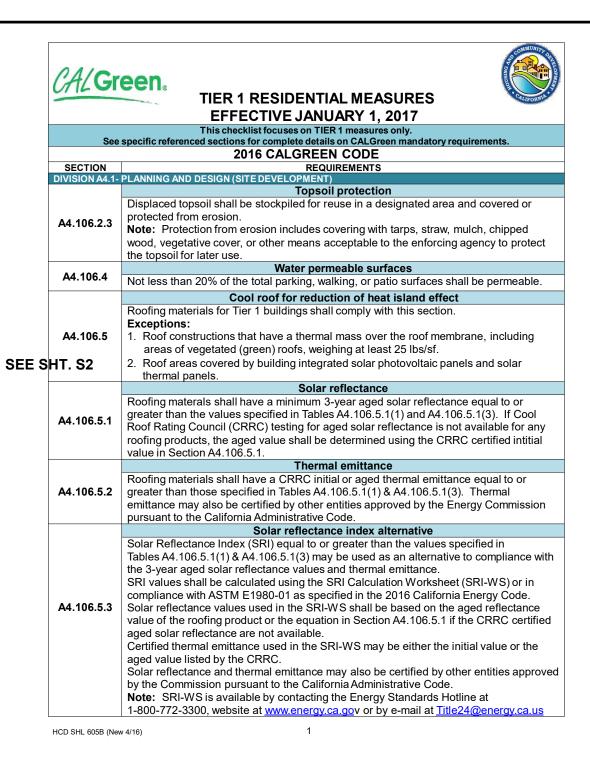
- The guesthouse height shall not exceed 12 feet nor be more than one story.

(HCD - Planning)

Compliance or Monitoring Action to be Performed:

Prior to the issuance of grading or building permits, the Owner/Applicant shall submit a signed and notarized document to the Director of HCD-Planning for review and signature by the County.

Prior to occupancy or commencement of use, the Owner/Applicant shall submit proof of recordation of the document to the Director of the HCD-Planning.



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TIER 1 RESIDENTIAL MEASURES EFFECTIVE JANUARY 1, 2017

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This checklist focuses on TIER 1 measures only. See specific referenced sections for complete details on CALGreen mandatory requireme					
366	2016 CALGREEN CODE				
SECTION	REQUIREMENTS				
	Verification				
A4.106.5.4	Inspection shall be conducted to ensure roofing materials meet cool roof aged solar reflectance and thermal emittance or SRI values.				
	Electric vehicle (EV) charging for new construction				
A4.106.8	New construction shall comply with Sections A4.106.8.1 and A4.106.8.2 to facilitate future installation and use of electric vehicle chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the California Electrical Code, Article 625.				
	1 & 2-family dwellings and townhouses with attached private garages				
A4.106.8.1	For each dwelling unit, a dedicated 208/240-volt branch circuit shall be installed in the raceway required by Section 4.106.4.1. The branch circuit and associated overcurrent protective device shall be rated at 40 amperes minimum. Other electrical components, including a receptacle or blank cover, related to this section shall be installed in accordance with the California Electrical Code.				
	New multifamily dwellings				
A4.106.8.2	 Applies to sites with 17 or more multifamily dwelling units constructed on the site. 5% of the total number of parking spaces provided for all types of parking facilities, but in no case less than 1, shall be electric vehicle charging spaces (EV spaces) capable of supporting future EVSE. Calculations for EV spaces shall be rounded up to the nearest whole number. See Section 4.106.4.2 for additional requirements related to EVCS for multifamily dwellings. Notes: See CALGreen Section A4.106.8.2, Notes, for referenced documents. 				
	Required elective measures				
A4.601.4.2	Comply with at least 2 elective measures selected from Division A4.1.				
DIVISION A4.2-	ENERGY EFFICIENCY				
	Prerequisites				
A4.203.1.1	 Each of the following efficiency measures is required for all applicable components of the project. A4.203.1.1.1 An energy design rating for the Proposed Design Building shall be computed by Compliance Software certified by the Commission and this rating shall be included in the Certificate of Compliance documentation. A4.203.1.1.2 Complete Quality Insulation Installation procedures specified in the Building Energy Efficiency Standards Reference Residential Appendix RA3.5. 				
	Performance standards				
A4.203.1.2.1	showing a 15% or greater reduction in its Energy Budget Component compared to the Standard Design Building, as calculated by the CEC Compliance Software.				
	Prerequisites				
A5.203.1.1 SHT. E1	Newly installed outdoor lighting power shall be no greater than 90% Allowed Outdoor Lighting Power.				
HCD SHL 605B (New	x 4/16) 2				

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	CALG	CONTRACTOR OF THE AND
		EFFECTIVE JANUARY 1, 2017
		This checklist focuses on TIER 1 measures only.
	See	specific referenced sections for complete details on CALGreen mandatory requirements.
		2016 CALGREEN CODE
	SECTION	REQUIREMENTS
	A5.203.1.1	The Allowed Outdoor Lighting Power calculation is specified in the 2016 CEC, Section
F	continued	140.7 "Requirements For Outdoor Light.
		Performance standards Buildings complying with the first level of advanced energy efficiency shall have an
SEE	A5.203.1.2 SHT. A2	 Energy Budget no greater than indicated below, depending on the type of energy systems included in the building project. If the newly constructed building or addition does not include indoor lighting or mechanical systems, no additional performance requirements above the Energy Code are required. Building projects that include indoor lighting or mechanical systems, but not both: No greater than 95% of the CEC Energy Budget for the Standard Design Building as calculated by Compliance Software certified by the Energy Commission.
SEE	301. AZ	 Building projects that include indoor lighting and mechanical systems: No greater than 90% of the CEC Energy Budget for the Standard Design Building as calculated by Compliance Software certified by the Energy Commission.
	DIVISION A4.3 -	WATER EFFICIENCY AND CONSERVATION
	A4.601.4.2	Required elective measures
-		Comply with at least 2 elective measures selected from Division A4.3.
	DIVISION A4.4-	Reduction in cement use
	A4.403.2	As allowed by the enforcing agency, cement used in foundation mix design shall be reduced to not less than 20%. Examples of products commonly used to replace cement in concrete mix designs: fly
0		ash, slag, silica fume, rice hull ash.
SEE	SHT. A2	Recycled content Use materials, equivalent in performance to virgin materials, with a total (combined)
	A4.405.3 A4.405.3.1	recycled content value (RCV) of not less than 10% per Section A4.405.3.1. Note: Interactive forms for calculation of RCV are available at http://www.hcd.ca.gov/calgreen.html
F		Enhanced construction waste reduction 65%
	A4.408.1	 Nonhazardous construction and demolition debris generated at the site is diverted to recycle or salvage in compliance with the following: At least a 65% reduction. Any mixed recyclables sent to mixed-waste recycling facilities shall include a qualified third party verified facility average diversion rate. Verification of diversion rates shall meet minimum certification eligibility guidelines, acceptable to the local enforcing agency. Exceptions: Equivalent or alternative waste reduction methods are developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. The enforcing agency may make exceptions to the requirements of this section
	HCD SHL 605B (New	when jobsites are located in areas beyond the haul boundaries of the diversion facility.

	PAIC-	0.010
	<u>CAL</u> Gr	TIER 1 RESIDENTIAL MEASURES EFFECTIVE JANUARY 1, 2017
		This checklist focuses on TIER 1 measures only.
	See	specific referenced sections for complete details on CALGreen mandatory require 2016 CALGREEN CODE
	SECTION	REQUIREMENTS
	A4.601.4.2	Required elective measures
	A4.601.4.2	Comply with at least 2 elective measures selected from Division A4.4.
	DIVISION A4.5 -	ENVIRONMENTAL QUALITY
SEE	SHT. A7 A4.504.2	Resilient flooring systems At least 90% of the total area of resilient flooring systems installed in the comply with the VOC emission limits defined in at least 1 of the following 1. Products compliant with the California Department of Public Health, Method for the Testing and Evaluation of Volatile Organic Chemical Indoor Sources Using Environmental Chambers," Version 1.1, Febr known as Specification 01350), certified as a CHPS Low-Emitting M Collaborative for High Performance Schools (CHPS) High Performane Database. 2. Products certified UL GREENGUARD GOLD (formerly the Greengua Schools program). 3. Certification under the Resilient Floor Covering Institute (RFCI) Floo 4. Meet the California Department of Public Health, "Standard Method 1 and Evaluation of Volatile Organic Chemical Emissions from Indoor Environmental Chambers," Version 1.1, February 2010 (also known Specification 01350). Note: Documentation must be provided that verifies that finish material meet the pollutant emission limits in this section.
		Thermal insulation
SEE	A4.504.3 SHT. A7	Install thermal insulation in compliance with the California Department or "Standard Method for the Testing and Evaluation of Volatile Organic Che Emissions from Indoor Sources Using Environmental Chambers," Version February 2010 (also known as Specification 01350), certified as a CHPS Material in the Collaborative for High Performance Schools (CHPS) High Products Database; products certified under the UL GREENGUARD Go Greenguard Children & Schools program); or meet California Departme Health, "Standard Method for the Testing and Evaluation of Volatile Orga Emissions from Indoor Sources Using Environmental Chambers," Version February 2010 (also known as Specification 01350). Note: Documentation must be provided that verifies the materials are of the pollutant emission limits in this section.
	A4.601.4.2	Required elective measures
		Comply with at least 1 elective measures selected from Division A4.5.

Gerl Martin Daliva Engineers Foundation Engineering -11 W Laurel Dr Suite 225, Salinas CA 93906-(831)800-7371

June 10, 2020

Inna Berrellesa 537 Pini Rd Royal Oaks, CA 95076

SUBJECT: REVIEW OF FOUNDATION PLAN AND SPECIFICATIONS

Dear Sir:

In accordance with your request, we reviewed and confirmed that latest site and foundation plan, details, specifications, and structural calculations substantially confirm to all applicable recommendations in the soils investigation report for the proposed project.

We provided review on the following: A1 Site Plan

S1 Foundation Plan, & Details

Based on our review, the site and foundation plan, including specifications appear to be in general conformance with the recommendations for the subject project.

The plans are reviewed with respect to soil considerations. We make no representation as to the accuracy of the dimension, or other portion of the design.

We appreciate the opportunity to have been of service. Please feel free to contact us at your convenience if you have any questions or require additional information.

Very truly yours,



RMA-ENVIRONMENTAL SERVICES

PRIOR TO ISSUANCE OF THE CONSTRUCTION PERMIT: The applicant shall submit (3) copies of an erosion control plan in conformance with the requirements of Monterey County Code Chapter 16.12. The erosion control plan shall be clearly identified and shall include stockpile area(s), material storage area(s), portable sanitation facilities and waste collection area(s), where appropriate.

PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE: The applicant shall schedule an inspection (300-Environmental Services Initial Inspection) with RMA-Environmental Services to ensure all necessary sediment controls are in place and the project is compliant with Monterey County regulations.

DURING CONSTRUCTION:

HCD SHL 605B (New 4/16)

The applicant shall schedule an inspection (305-Environmental Services Active Construction) with RMA-Environmental to inspect drainage device installation, review the maintenance and effectiveness of BMPs installed, and to verify that pollutants of concern are not discharged from the site. At the time of the inspection, the applicant shall provide certification that all necessary geotechnical inspections have been completed to that point.

PRIOR TO FINAL BUILDING

The applcant shall schedule an inspection (310-Environmental Services Hold Final Inspection) with RMA-Environmental Services to ensure that all disturbed areas have been stabilized and That all temporary erosion and sediment control measures, that are no longer needed, have been removed.

FIRE NOTES:



FIRE DEPARTMENT NOTES

The following paragraphs must be printed on the project plans under "FIRE DEPARTMENT NOTES".

- Fire sprinklers are required. Place the following note on the project plans: Fire Sprinklers Required - The residence(s) shall be protected with automatic fire sprinkler system(s). Fire sprinklers are required in attached garages. Installation, approval, and maintenance shall be in compliance with applicable National Fire Protection Association Standard 13D and local amendments, the edition(s) of which shall be determined by the enforcing jurisdiction. Plans for fire sprinkler system(s) must be submitted and approved prior to installation. Rough-in inspections must be completed prior to requesting a framing inspection from the Building Inspection Dept.
 - When fire sprinklers are required, place the following note on the project plans:
- Fire Alarm Flow Switch shall be wired to the kitchen refrigerator circuit. Any deviations require approval from the fire department.
- 3. Address numbers shall be posted pursuant to the note that follows. Place the following note on project plans. Address Numbers to be Posted - Before construction begins, temporary or permanent address numbers shall be posted. Permanent address numbers shall be posted prior to request of a final inspection. All address numbers (permanent or temporary) shall be posted on the property so as to be clearly visible from the road. Where visibility cannot be provided, a post or sign bearing the address numbers shall be set adjacent to the driveway or access road to the property. Address numbers posted shall be "Arabic" (1, 2, 3, etc.), not "Roman" (I, VI, X, etc.) or written out in words (Thirteen, Seventy-six, etc.). Address numbers posted shall be a minimum number height of 3 inches, 3/8 inch wide stroke, and contrasting with the background colors of the sign. NOTE: If numbers are not posted, Building/Fire Inspectors will not grant a final inspection.
 - Separate addresses shall be obtained pursuant to the note that follows for caretaker's units, senior citizen units and "granny houses". Also, place the following note on the project plans.
- Separate Address Required Caretaker's Units, Senior Citizen Units and "Granny Houses" shall be issued addresses separate from the main residence. Contact the Monterey County Public Works Dept. at 755-4936. Show the type and class of roof on the project plans.
- 5. <u>Roofing Class "A" or "B" Required</u> Roof construction shall be a Class A or Class B buildup, as defined by Uniform Building Code Standard 15-2. This requirement shall apply to all new construction and when 50 percent or more of an existing roof is replaced within a one-year period.
- Vegetation shall be cleared pursuant to the note that follows. Place the note on the project plans:
 <u>Clear Vegetation</u> All flammable vegetation or other combustible growth shall at all times maintain clear distance of not less than 30 feet on each side from structures or buildings. This shall not apply to single specimens of trees, ornamental shrubbery or similar plants used as ground covers, provided that they do not form a means of rapidly transmitting fire from the native growth to any structure. Additional fire protection or firebreak may be required when, because of extra hazardous conditions, a firebreak of only 30 feet around such structure is not sufficient to provide reasonable fire safety. Environmentally sensitive area may require alternative fire protection, to be determined by the Fire Chief and Director of Planning and Building. This project requires ______ feet clearance.
- Monterey County Fire Prevention Officers Association Form # 2 revised February 1, 1997
- PUBLIC EDUCATION FIRE SERVICE TRAINING CODES & ENFORCEMENT

FIRE DEPARTMENT NOTES

- Show the width, length, slope percentage, and type of surface of the access roadway on the project plans.
- <u>Access Driveways</u> General Access driveways shall be all-weather driving surface capable of supporting fire apparatus (22 tons) not less than 12 feet of unobstructed width, a minimum of 13'6" or 15'0" vertical clearance, and a maximum 15 percent grade. On driveways and access roads having a slope of 8 percent or more the finish surface shall be A/C pavement or concrete. EXCEPTION: When buildings are protected by an approved automatic fire sprinkler system, the provisions of this section may be modified, subject to the approval of the Local Jurisdiction.
 If the access road is over 250 feet long and less than 20 feet wide, place the following note on the project plans: (for diagram, see attached Example "A")
- <u>B.</u> Driveways Turn-Out Required Driveways shall not be less than 12 feet wide unobstructed. All driveways exceeding 250 feet in length, but less than 800 feet in length, shall provide a turnout near the midpoint of the driveway. Where the driveway exceeds 800 feet, turnouts shall be provided at no greater than 400 foot intervals.
- If the access road has a dead-end and is more than 150 feet long, add a turn around to the access road drawing on the project plans (see attached diagram labeled Example B). Also, add the following note to the project plans:
- Access Roadways Turn Around Required All dead-end access roads in excess of 150 feet in length shall be provided with approved provision for the turning around of fire apparatus.
- If the access road has turns, indicate the turning radius of the turns (see attached diagram labeled Example C).
 Show gate(s) on the plans. Also, place the following note on the project plans.
- <u>10.</u> <u>Privacy Gates</u> Electric gates shall be provided with a keyed switch meeting fire department specifications. Manual gates shall be provided with fire department padlocks meeting fire department specifications. Gate entrances shall be at least the width of the traffic lane, but in no case less than 12 feet wide. Unobstructed vertical clearance shall be not less than 15 feet.
- Show bridge(s) on plans.
 - <u>Bridges</u> All new and reconstructed bridges shall be at least the width of the existing roadbed and berms but in no case less than 12 feet wide. Bridge width on all roads exceeding tertiary standards shall nt be less than the width of two lanes with berms. All bridges shall be designed for HS 20-44 loading (standard specification for highway bridges) and have guard rails.
- Show defensible space on plans.
- <u>12.</u> <u>Setback for Structure Defensible Space (30 Foot)</u> All parcels 1 acre and larger shall provide a minimum 30-foot setback for buildings and accessory buildings from all property lines and/or the center of the road. For parcels less than 1 acre, or when a 30 foot minimum setback cannot be reached, alternate fuel modification standards may be imposed by the local fire jurisdiction to provide the same practical effect.

Monterey County Fire Prevention Officers Association Form # 2

revised February 1, 1997

ne building shall ng: , "Standard

al Emissions from bruary 2010 (also Material in the nance Products uard Children & porScore program.

I for the Testing r Sources Using n as als are certified to

t of Public Health, hemical sion 1.1, PS Low-Emitting igh Performance Gold (formerly hent of Public ganic Chemical sion 1.1,

certified to meet

	543 Pini Road Pini Rd	
Pini Rd	Pini Rd	ENRIQUE ECKHAUS GIL. ENRIQUE ECKHAUS GIL. P.O. BOX 783 - SALINAS,CA 93902 PH. (831) 794 - 2461 FX. (831) 287 - 0121 eeckhaus@pacbell.net eeeckhaus@gmail.com
PROJECT DATA: ZONINGRDR/5(CZ) DESCRIPTION OF USERESIDENTIAL OCCUPANCYR-3 / U NUMBER OF STORIES1 TYPE OF CONSTRUCTIONV-B SPRINKLER SYSTEMSNO	SCOPE OF WORK: PROPOSE:	OWNER. IRMA BERRELLEZA PROJECT. 543 PINI RD
<e> MAIN RESIDENCE1152 SQ.F. TO BE DEMO. <n> GUESTHOUSE425 SF <n> NEW RESIDENCE5234 SQ.F <n> FRONT PORCH859 SF. <n> REAR PORCH790 SF. <n> GARAGE968 SQ.F MAX HIGHT20'-9" LOT AREA5,403 AC OPEN SPACENA. LOT COVERAGE ALLOWED25 % LOT COVERAGE8 %</n></n></n></n></n></e>	EXISTING 2 STORY HOUSE 803 SF @ 1ST. FLOOR TO BE DEMO. 349 SF @ 2ND. FLOOR TO BE DEMO. (UNDER A SEPARATE DEMOLITION PERMIT) NEW GUESTHOUSE 425 SF. TO BUILD A NEW 5,234 SF. SINGLE STORY RESIDENCE PLUS FRONT COVER DECK 859 SF. REAR COVER DECK 790 SF AND 4 CAR GARAGE 968 SF. ATTACHED	ROYAL OAKS, CA 95076 APN 412-012-055-000 CODES. 2022 California Building Standards Code (Cal. Code Regs., Tit. 24)
GREEN BUILDING NOTE: THIS PROJECT SHALL COMPLY WITH THE CALIFORNIA GREEN BUILDING STANDAF CODE (CGBSC) AND CURRENT EDITION THIS PROJECT SHALL COMPLY WITH TIT CALIFORNIA RESIDENTIAL CODE (CRC), O CODE (CBC), CALIFORNIA MECHANICAL O CALIFORNIA PLUMBING CODE (CPC), CA CODE (CEC), AND CALIFORNIA ENERGY O [§ R106.1.1 CRC]	E 2016 RDS LE 24 AND 2016 CALIFORNIA BUILDING CODE (CMC), LLIFORNIA ELECTRICAL	California Administrative Code • Part 2 – California Building Code • Part 2.5 – California Residential Code • Part 3 – California Electrical Code • Part 4 – California Plumbing Code • Part 5 – California Plumbing Code • Part 6 – California Energy Code • Part 8 – California Fire Code • Part 9 – California Existing Building Code • Part 10 – California Existing Building Code • Part 11 – California Referenced Standards Code
MONTEREY COUNTY RESOURCE MANAGEMENT AGEN Carl P. Holm, AICP, Director LAND USE & COMMUNITY DEVELOPMENT PUBLIC WORKS & 1441 Schilling Place, South 2 nd Floor		A0 GENERAL NOTES A1 SITE PLAN A2 EXISTING BUILDING FLOOR PLAN
Salinas, California 93901-4527 WV Construction Waste Management Plan Project Name: <u>NEW RESIDENCE</u> Project Location: <u>543 PINI RD. ROYAL OAKS, CA. 95076</u>	n (CWMP) – CW 1	A2 EXISTING BUILDING ELEVATIONS A3 PROPOSED FLOOR PLAN NEW GUEST HOUSE A3 PROPOSED ELEVATIONS NEW GUEST HOUSE
Building Permit No.:Project Sq. IContractors Name:Phone:Fax:Email:Owners Name:Phone:	Ft.: <u>7,920</u>	NEW RESIDENCE A4 PROPOSED FLOOR PLAN A5 PROPOSED ELEVATIONS
Fax: Email: This construction waste management plan is hereby submitted the 2016 California Green Building Standards Code. The purpose of this plan is to identify and outline the method requirements for a construction waste management ordinance 1. The method of waste tracking to be used on this project w □ Volume □ Weight □ 4 Lbs. per Sq 2. Construction waste generated on this project for transport □ Site Sorted/Source Separated □ Name of Facility: Address:	Is to be used as the minimum e per Section 4.408.2. will be: (Check one box) I. Ft. Recycling Facility t to a recycling facility will be: Mixed (Commingled) material will be taken is:	A6 PROPOSED ELEVATIONS A7 PROPOSED. INTERIOR ELEVATIONS A8 SITE SECTIONS T1 TOPO SURVEY C-1 STORM DRAINAGE PLAN C-2 SECTIONS C-2 DETAILS REVISIONS 1 DATE MARCH 22 23
Phone:	ce the amount of waste generated: e designed to available material sizes	MARCH-22-23 DRAWN E.ECKHAUS/F.BALDERAS/A.ALONSO JOB 2023-024 SHEET.
Updated 6/20/17		

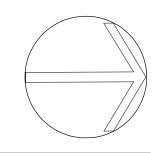


SITE PLAN

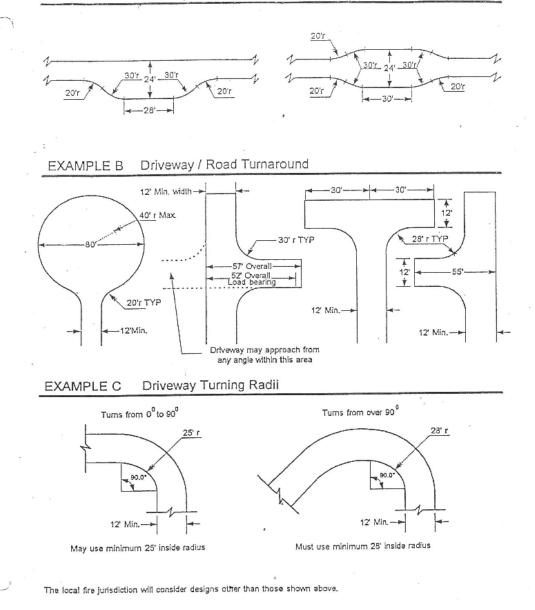
DEMOLITION OF EXISITING RESIDENCE TO BE UNDER A SEPARATED PERMIT.

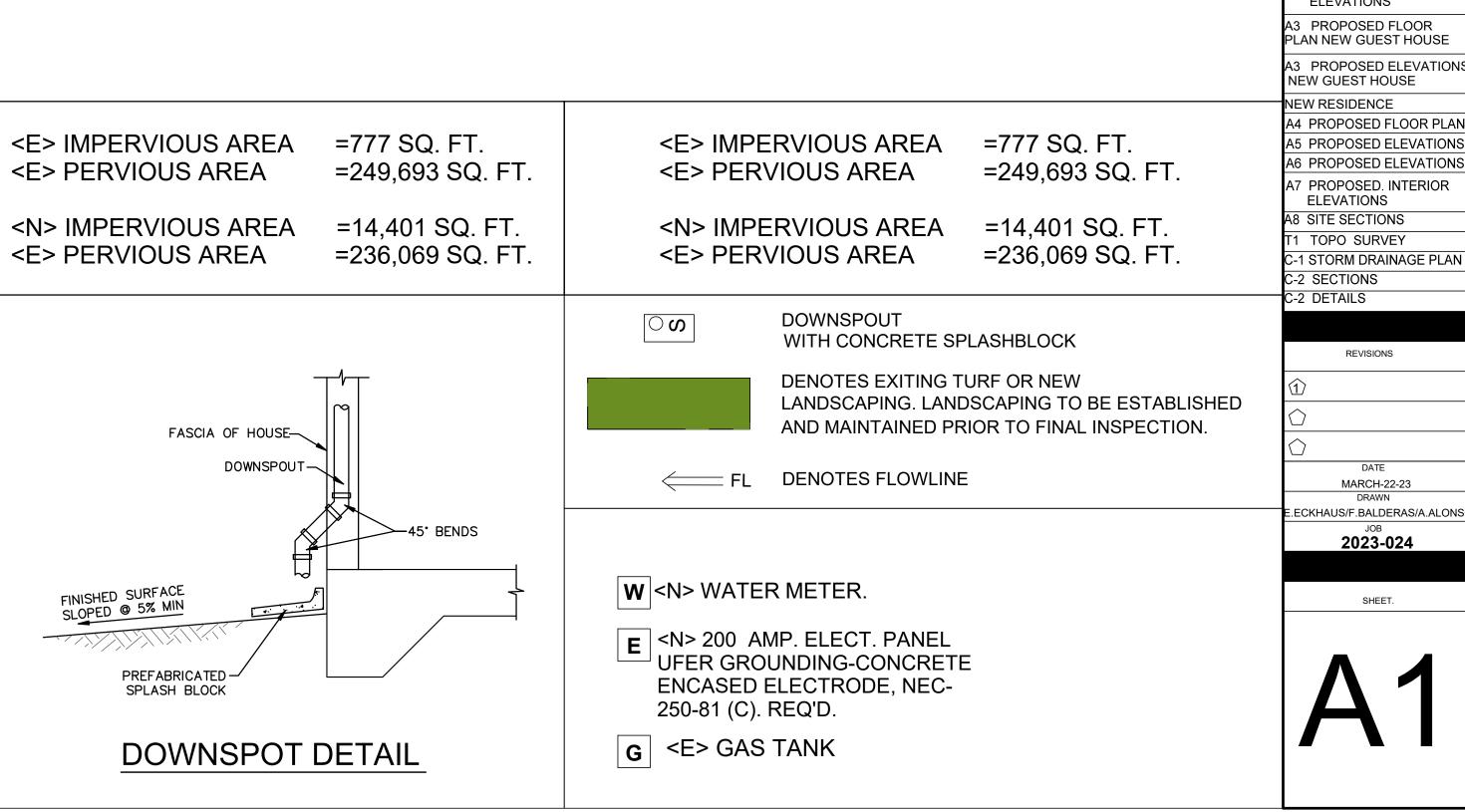
DRAINAGE SHALL NOT NEGATIVELY IMPACT ADJACENT PROPERTIES PROVIDE POSITIVE DRAINAGE TOWARDS STREET (TYP)

FINISH GRADE AROUND THE ADDITION SHALL SLOPE AWAY FROM THE FOUNDATION A MINIMUM OF 6 INCHES OVER 10 FEET. IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED 2% MINIMUM AWAY FROM THE BUILDING. INCLUDE A NOTE ON THE SITE PLAN [§ R401.3 CRC]



SCALE: 1/32" = 1'-0"







NEW CONSTRUCTION SHALL COMPLY WITH <u>SECTION 4.106.4.1</u>, <u>4.106.4.2</u>, OR <u>4.106.4.3</u>, TO FACILITATE FUTURE INSTALLATION AND USE OF EV CHARGERS. <u>ELECTRIC VEHICLE SUPPLY</u> <u>EQUIPMENT</u> (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE *CALIFORNIA ELECTRICAL CODE*, ARTICLE 625.

4.106.4.1 NEW ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES WITH ATTACHED PRIVATE GARAGES

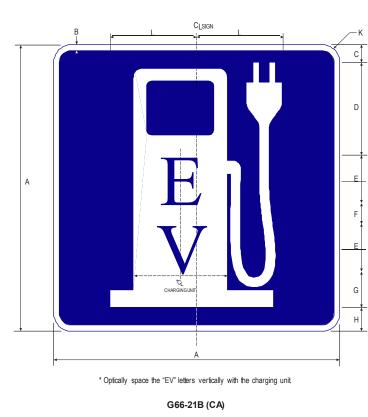
FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE.

4.106.4.1.1 IDENTIFICATION

THE SERVICE PANEL OR SUBPANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

4.106.4.2.2 ELECTRIC VEHICLE CHARGING SPACE (EV SPACE) DIMENSIONS THE EV SPACES SHALL BE DESIGNED TO COMPLY WITH THE FOLLOWING:

THE MINIMUM LENGTH OF EACH EV SPACE SHALL BE 18 FEET (5486 MM). THE MINIMUM WIDTH OF EACH EV SPACE SHALL BE 9 FEET (2743 MM).

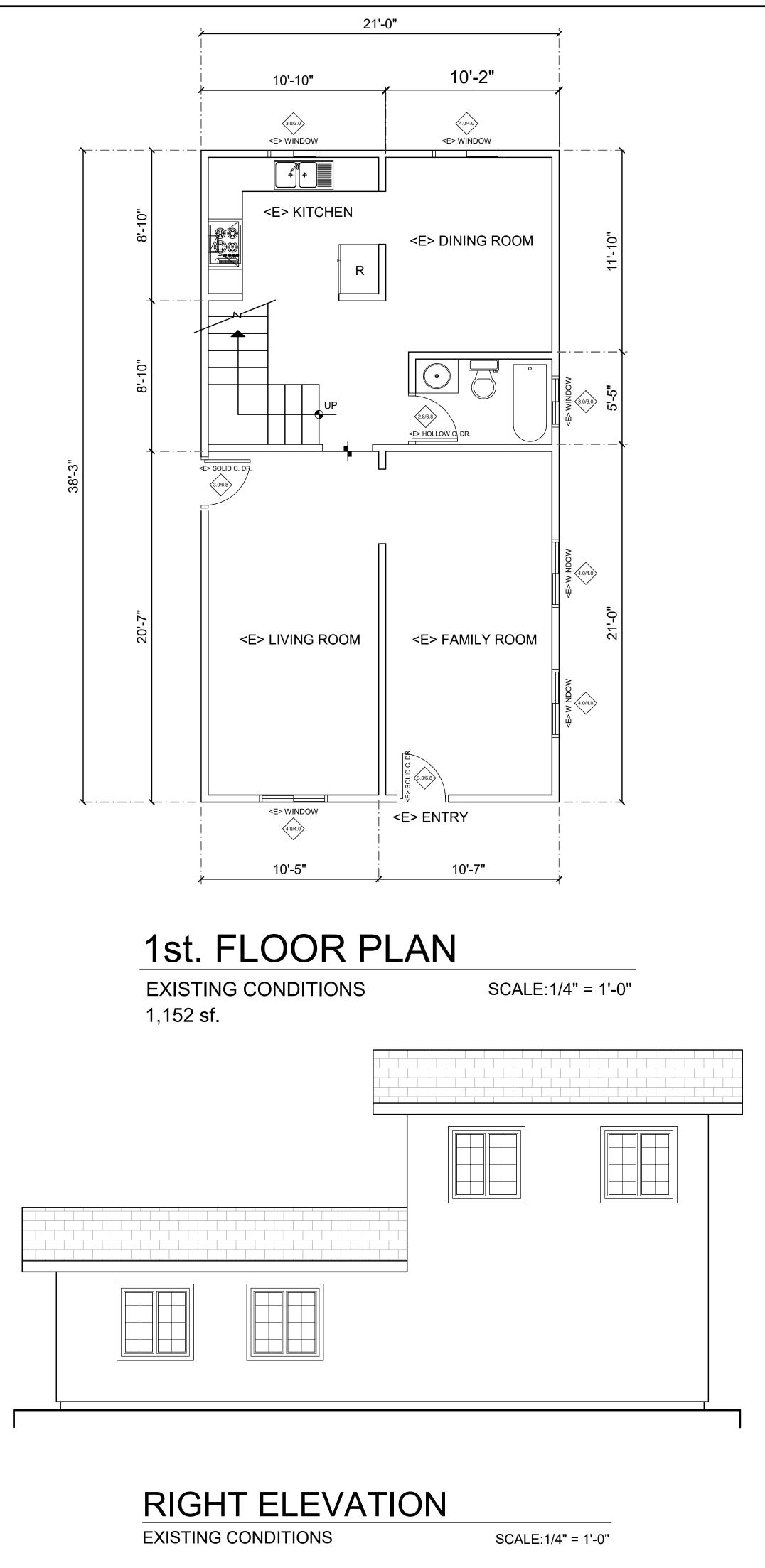


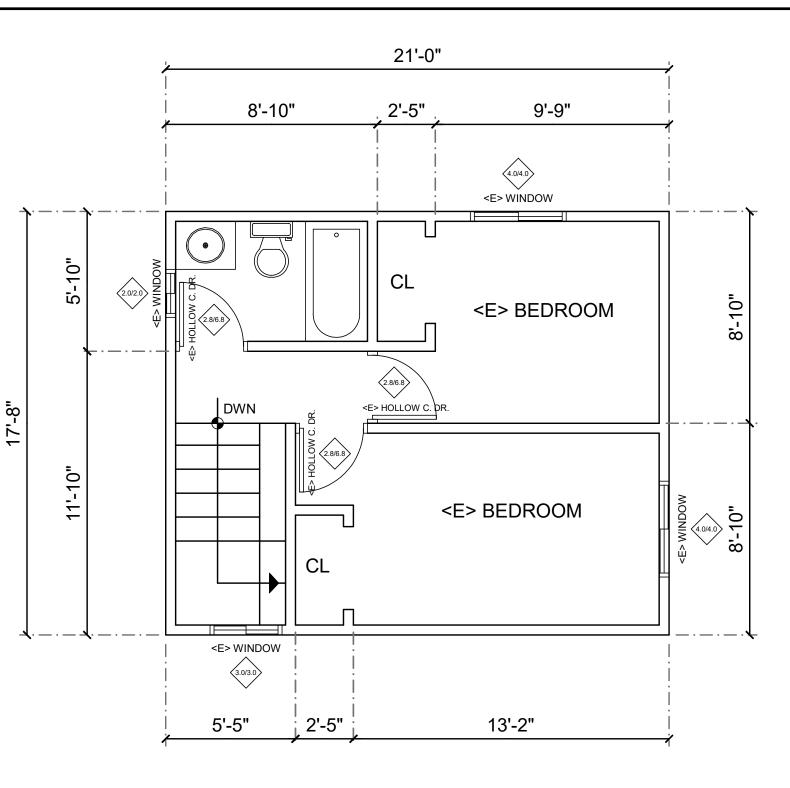
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18	.375	1.125	5.75	3EM	1.375	2.25	1.5	15.375	1.5	5.1625
24	.5	1.5	7.75	4EM	1.75	3	2	20.5	1.5	7.25
30	.75	1.875	9.625	5EM	2	4	2.5	25.625	1.875	9.063
COLORS: BORDER & SYMBOL - WHITE (RETROREFLECTIVE)										

DRS: BORDER & SYMBOL - WHITE (RETROREFLECTIVE) LEGEND & BACKGROUND - BLUE (RETROREFLECTIVE)

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ENRIQUE ECKHAUS GIL. P.O. BOX 783 - SALINAS, CA 93902 P.M. (831) 794 - 2461 FX. (831) 287 - 0121 eeckhaus@pacibell.net eeckhaus@pacibell.net	
OWNER. IRMA BERRELLEZA PROJECT. 543 PINI RD ROYAL OAKS, CA 95076 APN 412-012-055-000	
CODES. 2022 California Building Standards Code (Cal. Code Regs., Tit. 24) • Part 1 – California Administrative Code • Part 2 – California Building Code • Part 2 5 – California Residential Code • Part 3 – California Electrical Code • Part 4 – California Mechanical Code • Part 5 – California Plumbing Code • Part 6 – California Energy Code • Part 8 – California Historical Building Code • Part 9 – California Fire Code • Part 10 – California Green Building Standards Code (CALGreen) • Part 12 – California Referenced Standards Code	
INDEX PLANS.A0GENERAL NOTESA1SITE PLANA2EXISTING BUILDING FLOOR PLANA2EXISTING BUILDING ELEVATIONSA3PROPOSED FLOOR PLAN NEW GUEST HOUSEA3PROPOSED ELEVATIONS NEW GUEST HOUSEA3PROPOSED ELEVATIONS NEW GUEST HOUSEA4PROPOSED FLOOR PLAN A5A5PROPOSED ELEVATIONS A6A6PROPOSED ELEVATIONS A7A7PROPOSED ELEVATIONS A8A8SITE SECTIONST1TOPO SURVEY C-1 STORM DRAINAGE PLAN C-2 SECTIONS	
C-2 DETAILS REVISIONS ① ① DATE MARCH-22-23	
DRAWN E.ECKHAUS/F.BALDERAS/A.ALONSO JOB 2023-024 SHEET.	







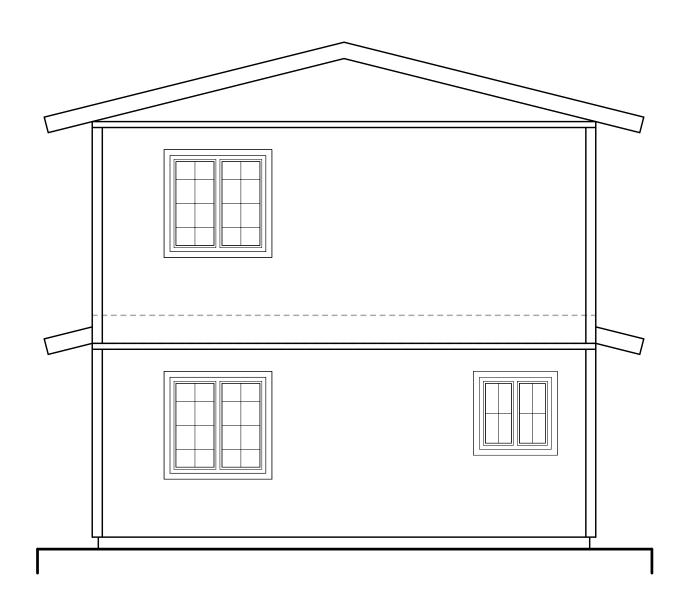
FRONT ELEVATION **EXISTING CONDITIONS**

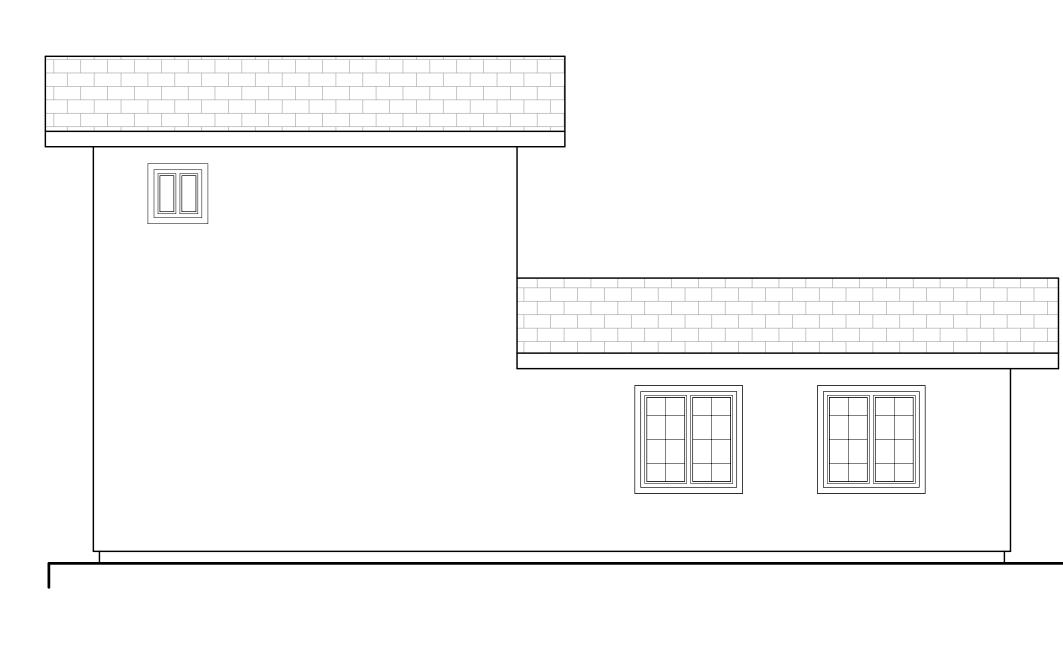
2nd. FLOOR PLAN

EXISTING CONDITIONS

SCALE:1/4" = 1'-0"

NOTE: **EXISTING BUILDING** TO BE DEMO.







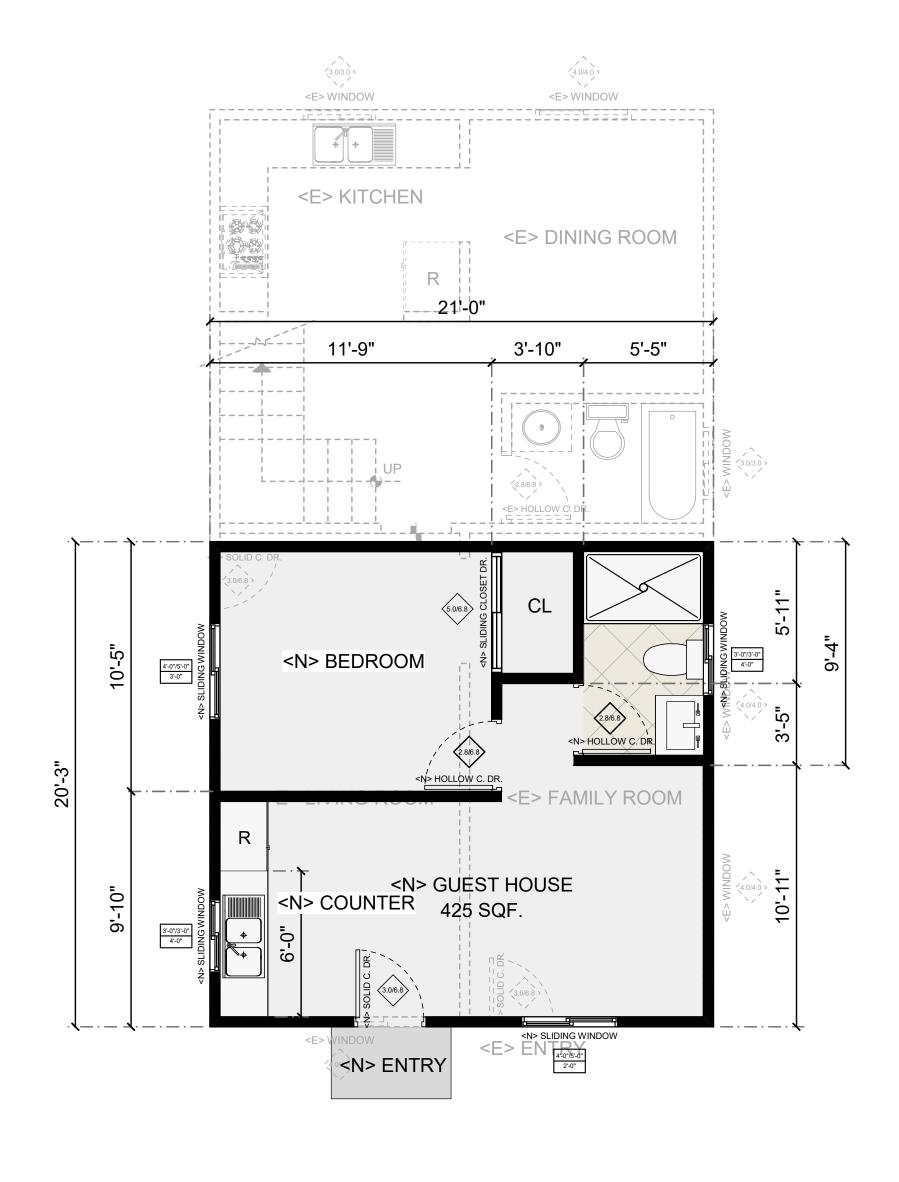
REAR ELEVATION EXISTING CONDITIONS

SCALE:1/4" = 1'-0"

SCALE:1/4" = 1'-0"

SCALE:1/4" = 1'-0"

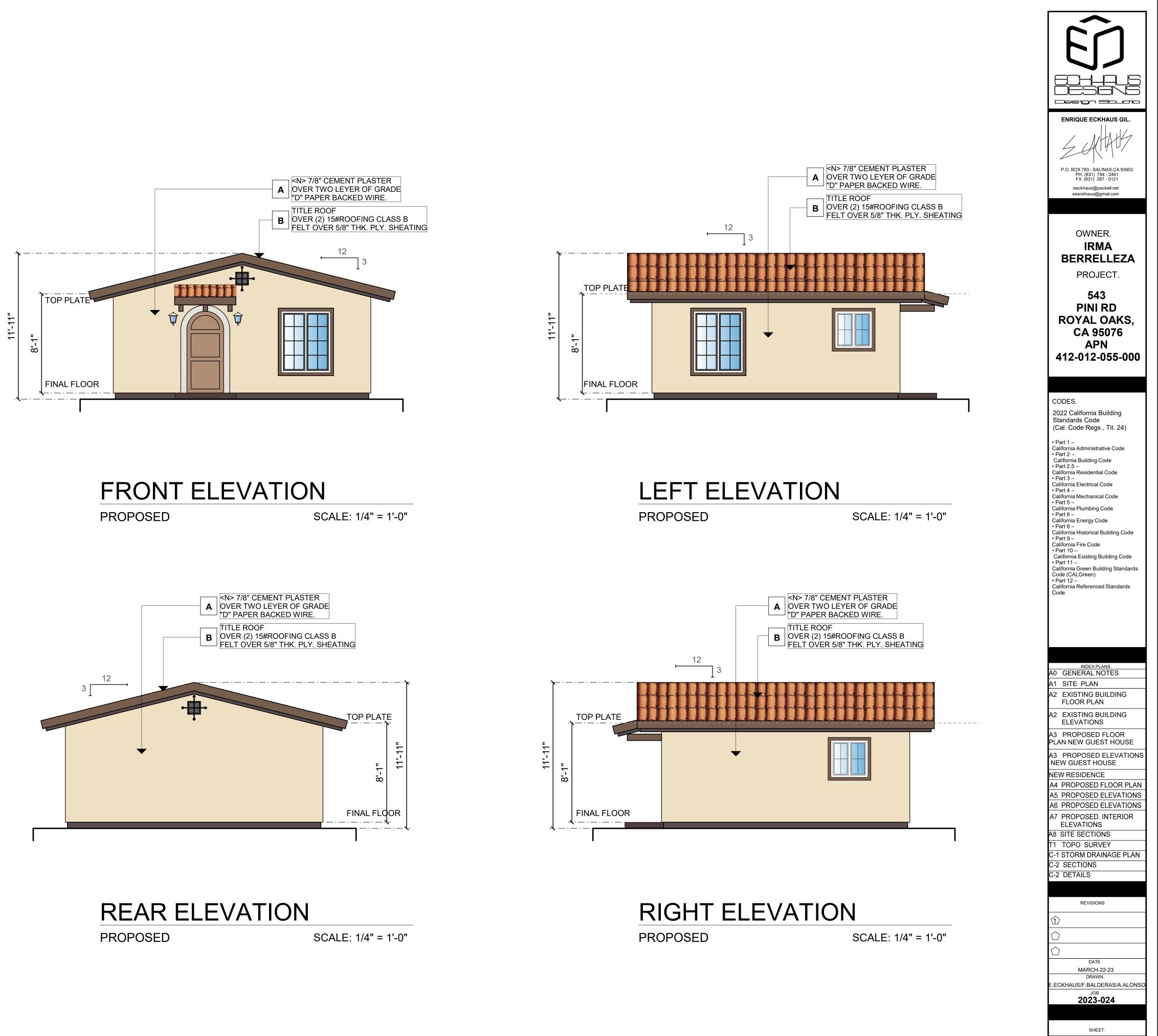
F
ENRIQUE ECKHAUS GIL.
ZARAIT
P.O. BOX 783 - SALINAS,CA 93902 PH. (831) 794 - 2461 FX. (831) 287 - 0121 eeckhaus@pacbell.net
eeeckhaus@gmail.com
OWNER.
IRMA BERRELLEZA
PROJECT. 543
PINI RD ROYAL OAKS,
CA 95076 APN
412-012-055-000
CODES.
2022 California Building Standards Code (Cal. Code Regs., Tit. 24)
Part 1 – California Administrative Code Part 2 –
California Building Code • Part 2.5 – California Residential Code • Part 3 –
California Electrical Code • Part 4 – California Mechanical Code • Part 5 –
California Plumbing Code • Part 6 – California Energy Code • Part 8 –
California Historical Building Code • Part 9 – California Fire Code • Part 10 – California Existing Building Code
Part 11 – California Green Building Standards Code (CALGreen) Part 12 –
California Referenced Standards Code
A1 SITE PLAN A2 EXISTING BUILDING FLOOR PLAN
A2 EXISTING BUILDING
ELEVATIONS A3 PROPOSED FLOOR PLAN NEW GUEST HOUSE
A3 PROPOSED ELEVATIONS NEW GUEST HOUSE
NEW RESIDENCE A4 PROPOSED FLOOR PLAN A5 PROPOSED ELEVATIONS
A4 PROPOSED FLOOR PLANA5 PROPOSED ELEVATIONSA6 PROPOSED ELEVATIONSA7 PROPOSED. INTERIOR
A4 PROPOSED FLOOR PLANA5 PROPOSED ELEVATIONSA6 PROPOSED ELEVATIONS
 A4 PROPOSED FLOOR PLAN A5 PROPOSED ELEVATIONS A6 PROPOSED ELEVATIONS A7 PROPOSED. INTERIOR ELEVATIONS T1 TOPO SURVEY
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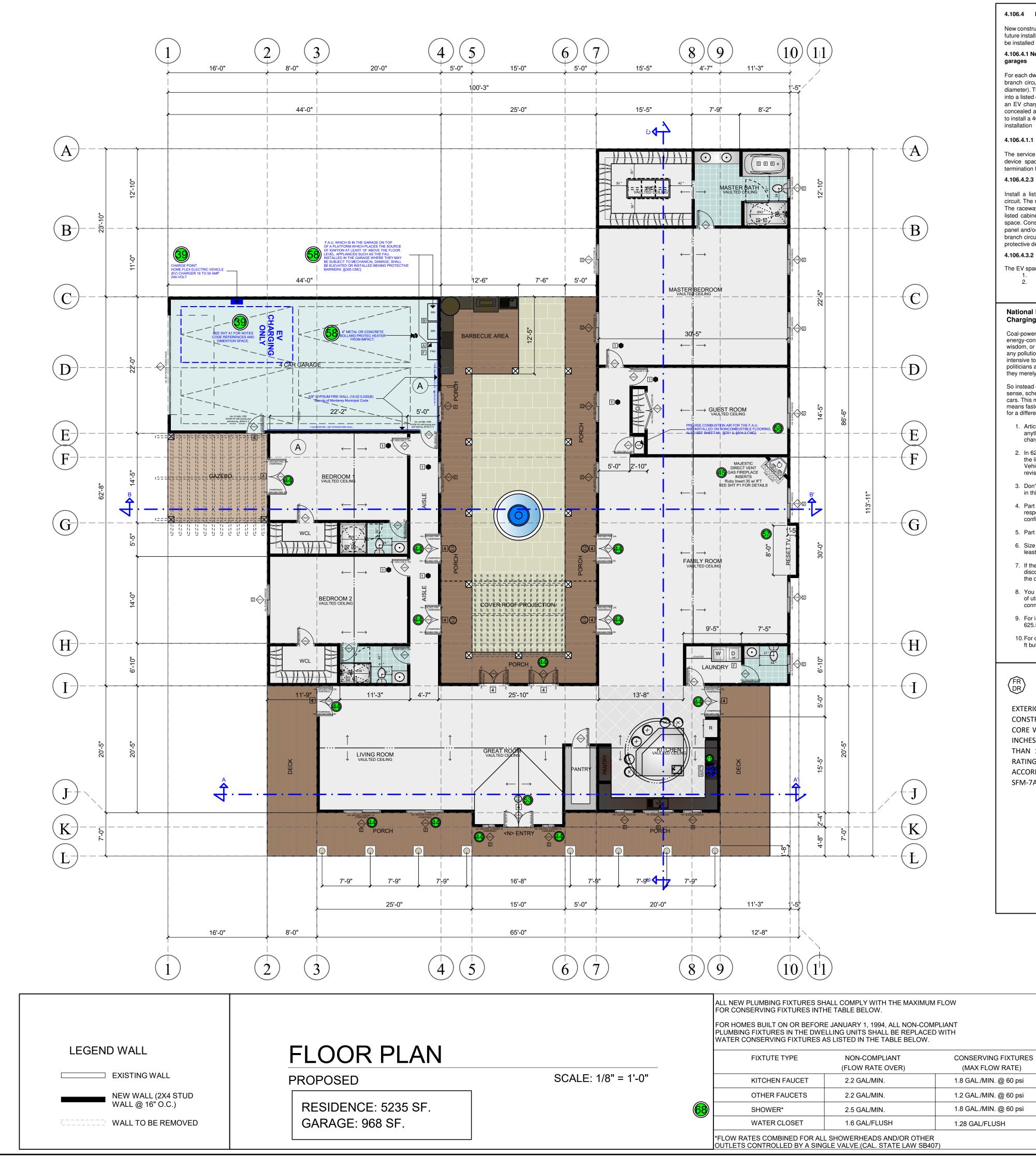
1st. FLOOR PLAN

GUEST HOUSE SCALE:1/4" = 1'-0"

PROPOSED #1 03-22-23







4.106.4	Electric	vehicle	(EV)	charging	for	new	с
future inst	allation and	use of EV ch	nargers.	<u>4.106.4.1, 4.1</u> Electric vehicle nia Electrical C	supply	equipme	ent
4.106.4.1 garages	New one- a	nd two-fam	ily dwell	ings and tow	nhouse	es with a	ttac

For each dwelling unit, install a listed raceway to accommodate a dedicated branch circuit. The raceway shall not be less than trade size 1 (nominal diameter). The raceway shall originate at the main service or subpanel and sh into a listed cabinet, box or other enclosure in close proximity to the propose an EV charger. Raceways are required to be continuous at enclosed, ina concealed areas and spaces. The service panel and/or subpanel shall prov to install a 40-ampere minimum dedicated branch circuit and space(s) reserv installation of a branch circuit overcurrent protective

4.106.4.1.1

The service panel or subpanel circuit directory shall identify the overcurre device space(s) reserved for future EV charging as "EV CAPABLE". termination location shall be permanently and visibly marked as "EV CAPAB 4.106.4.2.3 EV Single space

Install a listed raceway capable of accommodating a 208/240-volt dedic circuit. The raceway shall not be less than trade size 1 (nominal 1-inch insid The raceway shall originate at the main service or subpanel and shall tern listed cabinet, box or enclosure in close proximity to the proposed locatio space. Construction documents shall identify the raceway termination point. panel and/or subpanel shall provide capacity to install a 40-ampere minimu branch circuit and space(s) reserved to permit installation of a branch circuit protective device.

4.106.4.3.2 Electric vehicle charging space (EV space) The EV spaces shall be designed to comply with the following:

The minimum length of each EV space shall be 18 feet The minimum width of each EV space shall be 9 feet (2

National Electrical Code Top Ten Tips: Article 625, Electrica Charging System

Coal-powered cars, commonly called "EV" or electric vehicles, are the dirtie energy-consuming form of personal transportation in existence today. The c wisdom, or lack thereof, is that somehow electric power is free and is generative any pollution whatsoever, if it's stored in toxic batteries (the lithium for which intensive to obtain) and then used to power a vehicle. Due to this utter nons politicians are touting electric vehicles as some sort of solution to a host of they merely exacerbate.

So instead of using electric vehicles only in the limited applications for which sense, schemes are now underway to use them in place of internal combus cars. This means more electrical vehicle charging system work for electricia means faster depletion of worldwide oil reserves and more pollution, but that for a different Website. Here are your ten tips:

- 1. Article 625 covers the charging equipment external to the vehicle. It anything you will install or wire up, if it connects the vehicle to premis charging the vehicle or to export or transfer power [625.1].
- 2. In 625.2, Article 625 used today it is for on the road vehicles, not gol the like for off road use, and not for hybrids. That was in the definitio Vehicle". In the 2017 revision, the definition was still in 625.2. With the revision, that definition moved to Article 100.
- 3. Don't "invent" or "design" connectors, enclosures, or other equipment in this installation. It must be listed and labeled, or it can't be used [6
- 4. Part II addresses the permissible wiring methods. They are essential responsibility of the manufacturer. The installer needs to observe plu configurations and connector kit instructions to ensure compliance.
- 5. Part III provides the equipment installation requirements. They are the
- 6. Size the overcurrent protection for continuous duty. Ensure it has a r least 125% of the maximum load of the EV supply equipment [625.4
- 7. If the charger is 60A or larger or more than 150V (to ground), you mu disconnect in a readily accessible location. It must be capable of beir the open position [625.43].
- 8. You must provide a means to prevent back feed to the utility, in the of utility power. This should be included in the charger kit; ensure it's connected [625.46].
- 9. For indoor installations, you'll find the minimum ventilation requirement 625.52(B)(1)(a) and .625.52(B)(1)(b).
- 10. For outdoor installations, the coupling means must be stored or locate ft but not more than 4 ft above the parking surface [625.50].

(FR DR

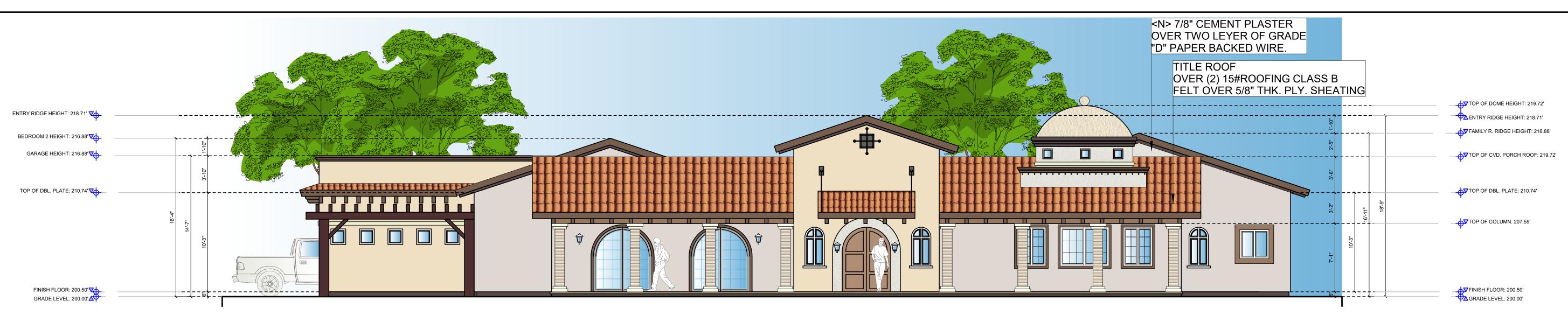
EXTERIOR DOORS SHALL BE OF APPROVED NONCOMBL CONSTRUCTION OR IGNITION-RESISTANT MATERIAL, CORE WOOD HAVING STILES AND RAILS NOT LESS THAN INCHES THICK WITH INTERIOR FIELD PANEL THICKNESS THAN 1-1/4 INCHES THICK, SHALL HAVE A FIRE-RESIS RATING OF NOT LESS THAN 20 MINUTES WHEN ACCORDING TO NFPA 252 OR MEET THE REQUIREMENT SFM-7A-1. [§R337.8.3 CRC]

> ()**Hour Fire-Rated Constructio** Loadb onstruction Detail Desc • 5/8" or 5/ or 5/8 - 2x4 – 3" mir - RC-

or new construction		PLAN NOTES:	
<u>.4.2</u> , or <u>4.106.4.3</u> , to facilitate <u>upply equipment</u> (EVSE) shall le, Article 625 buses with attached private	DUAL CARBON/ SMOKE	 CARBON MONOXIDE ALARMS SHALL BE INSTALLED IN NEW AND EXISTING DWELLING UNITS AND SLEEPING UNITS WHICH HAVE FUEL-BURNING APPLIANCES INSTALLED OR HAVE ATTACHED GARAGES: [§ R315.1 CRC] WHERE ALTERATIONS, REPAIRS, OR ADDITIONS TO EXISTING DWELLINGS OCCUR THAT 	
late a dedicated 208/240-volt size 1 (nominal 1-inch inside subpanel and shall terminate		 REQUIRE A PERMIT AND EXCEED \$1000, THE INDIVIDUAL DWELLING UNIT SHALL BE EQUIPPED WITH CARBON MONOXIDE ALARMS LOCATED AS REQUIRED FOR NEW DWELLINGS. [§ R315.2 CRC] NOTE THE REQUIREMENTS FOR CARBON MONOXIDE ALARM/DETECTION SYSTEMS AND INSTALLATION ON THE PLANS. SINGLE- AND MULTIPLE-STATION CARBON MONOXIDE ALARMS SHALL BE LISTED TO COMPLY WITH UL 2034. CARBON MONOXIDE DETECTORS SHALL BE 	
ty to the proposed location of at enclosed, inaccessible or opanel shall provide capacity		 LISTED TO COMPLY WITH UL 2075. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 720 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. [§ R315.3 CRC] IN EXISTING DWELLING UNITS, THE CARBON MONOXIDE ALARMS MAY BE SOLELY BATTERY- OPERATED AND ARE NOT REQUIRED TO BE INTERCONNECTED WHERE REPAIRS OR 	ENRIQUE ECKHAUS GIL.
d space(s) reserved to permit ent protective device.		ALTERATIONS DO NOT RESULT IN THE REMOVAL OF WALL AND CEILING FINISHES OR THERE IS NO ACCESS BY MEANS OF ATTIC BASEMENT OR CRAWL SPACE, AND WHERE NO PREVIOUS METHOD FOR INTERCONNECTION EXISTED. [§ R315.1.1, 315.1.2 CRC EXCEPTIONS] CARBON MONOXIDE ALARMS SHALL BE INSTALLED OUTSIDE OF EACH SEPARATE SLEEPING	6 MATH
fy the overcurrent protective / CAPABLE". The raceway d as "EV CAPABLE".	<n> SMOKE ALARMS:</n>	AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS, AND ON EVERY LEVEL OF A DWELLING UNIT INCLUDING BASEMENTS. SHOW ALARM LOCATIONS ON THE PLANS. [§ R315.3 CRC] SMOKE ALARMS SHALL BE HARD-WIRED AND EQUIPPED WITH A BATTERY BACKUP. IN EXISTING DWELLING UNITS, THE SMOKE ALARMS MAY BE SOLELY BATTERY-OPERATED AND	P.O. BOX 783 - SALINAS, CA 93902 PH. (831) 794 - 2461
space required 8/240-volt dedicated branch	DUAL CARBON/	ARE NOT REQUIRED TO BE INTERCONNECTED WHERE REPAIRS OR ALTERATIONS DO NOT RESULT IN THE REMOVAL OF INTERIOR WALLS OR CEILING FINISHES EXPOSING THE STRUCTURE UNLESS THERE IS AN ATTIC, CRAWL SPACE, OR BASEMENT WHICH COULD PROVIDE ACCESS FOR BUILDING WIRING WITHOUT REMOVAL OF INTERIOR FINISHES. [§ R314.4 CRC EXCEPTION]	FX. (831) 287 - 0121 eeckhaus@pacbell.net eeeckhaus@gmail.com
ninal 1-inch inside diameter). el and shall terminate into a proposed location of the EV ermination point. The service -ampere minimum dedicated	SMOKE	 SMOKE ALARMS SHALL BE INTERCONNECTED. IN EXISTING DWELLING UNITS, THE SMOKE ALARMS MAY BE SOLELY BATTERY-OPERATED AND ARE NOT REQUIRED TO BE INTERCONNECTED WHERE REPAIRS OR ALTERATIONS DO NOT RESULT IN THE REMOVAL OF INTERIOR WALLS OR CEILING FINISHES EXPOSING THE STRUCTURE UNLESS THERE IS AN ATTIC, CRAWL SPACE, OR BASEMENT WHICH COULD PROVIDE ACCESS FOR INTERCONNECTION WITHOUT REMOVAL OF INTERIOR FINISHES. [§ R314.5 CRC EXCEPTION] 	OWNER.
f a branch circuit overcurrent EV space) dimensions	2 WINDOWS:	 WINDOWS TO BE DOUBLE PANE, WITHE VINYL WINDOWS. WINDOW SILL SHALL BE OF MATERIALS NOT ADVERSELY AFFECTED BY MOISTURE. SILL HEIGHT SHALL NOT EXCEED 44" ABOVE THE FLR. 	IRMA BERRELLEZA
ng: shall be 18 feet (5486mm). shall be 9 feet (2743mm).	3 BATHROOM	 ALL 2X4 WINDOW SILL WHERE OCCURS 2-2X4 (SILL AT OPENING WIDER THAN 4'-0"). INSTALL NEW FIBER GLASS TUB & SHOWER TUB UNIT 3-PIECE COMPLETE W/TUB SPOUT DIVERTER VALVE & LOW-FLOW SHOWER HEAD INDIVIDUAL CONTROL CONTROL VALVES OF 	PROJECT. 543
625, Electrical Vehicle		 THE PRESSURE BALANCE ON THE THERMOSTATIC MIXING VALVE TYPE. AT THE SHOWER . SHOWER FLOORS AND WALLS SHALL BE FINISHED WITH A NONABSORBENT SURFACE. SUCH SURFACE SHALL EXTEND UP THE WALLS A MINIMUM HEIGHT OF 6 FEET (72 INCHES). NOTE ON PLANS. [§ R307.2 CRC] NEW FLUOR LIGHT FIXT. AND PROVIDE NEW 50 C.F.M. 5 AIR FAN SWITCHES TO LIGHT @ <n> BATH.</n> 	PINI RD ROYAL OAKS, CA 95076
les, are the dirtiest, most nce today. The common ree and is generated without lithium for which is energy- to this utter nonsense, tion to a host of problems		 WATER CLOSETS SHALL HAVE AN AVERAGE WATER CONSUMPTION OF NOT MORE THAN 1.28 GALLONS PER FLUSH. SHOWERHEADS SHALL NOT EXCEED 2.0 GALLONS PER MINUTE AT 80 PSI. LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI." [CPC 411.2 & 408.2 & 407.2.1.2. OPTIONAL BATHTUB WALL COVERING SHALL BE CEMENT PLASTER, TILE OR APPROVED EQUAL TO 72" ABOVE DRAIN AT SHOWERS OR TUBS WITH SHOWERS. MATERIAL OTHER THAN STRUCTURAL ELEMENTS TO BE MOISTURE RESISTANT. 	APN 412-012-055-000
ications for which they make internal combustion engine vork for electricians. It also pollution, but that's a subject		 CONTROL VALVES AND SHOWERHEADS SHALL BE LOCATED ON THE SIDEWALL OF SHOWER COMPARTMENTS OR OTHERWISE ARRANGED SO THAT THE SHOWERHEAD DOES NOT DISCHARGE DIRECTLY AT THE ENTRANCE TO THE COMPARTMENT SO THAT THE BATHER CAN ADJUST THE VALVES PRIOR TO STEPPING INTO THE SHOWER SPRAY. 2016 CPC SECTION 408.9. 	CODES. 2022 California Building
o the vehicle. It covers vehicle to premises wiring for 25.1].	4 DOORS	 GLAZING USED IN DOORS AND PANELS OF SHOWER AND TUB ENCLOSURES SHALL BE FULLY TEMPERED GLASS, LAMINATED SAFETY GLASS OR APPROVED PLASTIC OF A SHATTER- RESISTENT. ALL SLIDING DOORS AT SHOWERS OR BATHTUB SHALL BE SAFETY . 	Standards Code (Cal. Code Regs., Tit. 24) • Part 1 –
vehicles, not golf carts and s in the definition of "Electric in 625.2. With the 2020		 GLAZING IN AZARDOUS LOCATION INDICATED ON PLANS. ALL EXTERIOR DOORS SHALL HAVE A 1" MAXIMUM THRESHOLD ABOVE LANDING. 	California Administrative Code • Part 2 – California Building Code • Part 2.5 – California Residential Code • Part 3 –
r other equipment or devices can't be used [625.5]. hey are essentially the ds to observe plug re compliance. ents. They are the installer. Ensure it has a rating of at quipment [625.41]. ground), you must install a e capable of being locked in he utility, in the event of loss er kit; ensure it's properly	A B C	<n> ON DEMAND HEATER <n> 85,000 CENTRAL FURNACE, OR EQUAL. ALL WIRNG SHALL COMPLY WITH THE NATIONALELECTRICAL CODE. AFCI-PROTECTION FOR KITCHENS AND LAUNDRY ROOMS. ALL ELECTRICAL SYSTEMS GROUND TO BE PROVIDED PER NEC, ART, ALL HOSE BIBS MUST BE PROTECTED BY AN ANTI-SIPHON DEVICE UPC.603.3.7. ALL 120-VOLT, SINGLE PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY ALISTED COMBINATION-TYPE AFCI. [ART. 210.12(B) CEC] KITCHEN TO HAVE 2-20 AMP SMALL APPLIANCE DEDICATED BRANCH CIRCUITS (CEC SECTION 210.52 B.3), AND LAUNDRY AND BATHROOM FACILITIES SHALL HAVE AT_LEAST 1-20 AMP DEDICATED BRANCH CIRCUIT (CEC SECTION)</n></n>	California Electrical Code • Part 4 – California Mechanical Code • Part 5 – California Plumbing Code • Part 6 – California Energy Code • Part 8 – California Historical Building Code • Part 9 – California Fire Code • Part 10 – California Existing Building Code • Part 11 – California Green Building Standards Code (CALGreen) • Part 12 – California Referenced Standards Code
ilation requirements in Tables be stored or located at least 2 525.50].		 210.52D&F). RECEPTACLES SHALL BE INSTALLED SO THAT NO POINT MEASURED HORIZONTALLY ALONG THE FLOOR LINE IN ANY WALL SPACE IS MORE THAN 6' FROM AN OUTLET. CEC SECTION 210.52(A)(1) ALL 125-VOLT, 15 AND 20 AMP OUTLETS SHALL BE TAMPER-RESISTANT AS PER CEC SECTION 210.52. A RECEPTACLE OUTLET SHALL BE INSTALLED AT EACH WALL COUNTERTOP SPACE 12 INCHES OR WIDER SO THAT NO POINT IS MORE THAN 24 INCHES FROM AN OUTLET. CEC SECTION 210.52(C)(1-5) 	
NONCOMBUSTIBLE		KITCHEN TO HAVE 2-20 AMP SMALL APPLIANCE DEDICATED BRANCH CIRCUITS (<i>CEC SECTION 210.52 B,3</i>), AND LAUNDRY AND BATHROOM FACILITIES SHALL HAVE AT LEAST 1-20 AMP DEDICATED BRANCH CIRCUIT (<i>CEC SECTION 210.52D&F</i>). THE OPENING AROUND GAS VENTS, DUCTS, AND PIPES AT CEILING SHALL HAVE FIREBLOCKINGPER UBC 708.2.1. <n> 22"X30" ATTIC ACCESS, TIGHT-FITTING WETHER STRIP 1-3/8" MIN.</n>	INDEX PLANS. A1 SITE PLAN A2 EXISTING BUILDING FLOOR PLAN
MATERIAL, SOLID DT LESS THAN 1-3/8 THICKNESS NO LESS	D E F.	CLOTHES CLOSET LAMPS SHALL BE ENCLOSED IF INCASED TYPE. LIGHT FIXTURE CLEARANCES SHALL CONFORM TO CEC 410-8. AIR EXHAUST AND INTAKE OPENINGS THAT TERMINATE OUTDOORS SHALL BE PROTECTED WITH CORROSION-RESISTANT SCREENS, LOUVERS, OR GRILLES	A2 EXISTING BUILDING ELEVATIONS A3 PROPOSED FLOOR PLAN NEW GUEST HOUSE
A FIRE-RESISTANCE ES WHEN TESTED REQUIREMENTS OF	G	WITH 1/4" MINIMUM- AND ½" MAXIMUM-SIZED OPENINGS IN ANY DIMENSION. OPENINGS SHALL BE PROTECTED AGAINST LOCAL WEATHER CONDITIONS. [§ R303.5 CRC] ALL THE NEWLY INSTALLED INTERIOR LIGHTING TO BE HIGH EFFICACY PER	A3 PROPOSED ELEVATIONS NEW GUEST HOUSE
		CENC 150.0(K)(1)(A). ALL THE NEWLY INSTALLED EXTERIOR LIGHTING TO BE HIGH EFFICACY AND BE CONTROLLED BY A MANUAL ON AND OFF SWITCH THAT DOES NOT OVERRIDE THE AUTOMATIC ACTIONS OF ITEMS SHOWN ON CENC 150(K)(3)(II) OR CENC 150.0(K)(3)(III).	NEW RESIDENCE A4 PROPOSED FLOOR PLAN A5 PROPOSED ELEVATIONS A6 PROPOSED ELEVATIONS
	_	AT LEAST ONE LIGHT FIXTURE IN THE BATHROOM TO BE CONTROLLED BY VACANCY SENSOR PER CENC 150.0(K)(2)(J).	A7 PROPOSED. INTERIOR ELEVATIONS
	н	KITCHEN HOODS SHALL HAVE A MINIMUM VENTILATION RATE OF 100 CFM INTERMITTENT OR 25 CFM CONTINUOUS. BATHROOMS SHALL HAVE A MECHANICAL EXHAUST CAPACITY OF 50 CFM INTERMITTENT OR 20 CFM CONTINUOUS. <i>IRC TABLE M1507.3</i> * COOKING APPLIANCES SHALL HAVE A CLEARANCE ABOVE THE COOKING TOP OF NOT LESS THAN 30". A MINIMUM CLEARANCE OF 24" IS PERMITTED WHEN A VENTILATING HOOD CONSTRUCTED OF SHEET METAL NOT LESS THAN 0.0122" THICK IS INSTALLED ABOVE THE COOKING TOP WITH A CLEARANCE OF NOT	T1 TOPO SURVEY C-1 STORM DRAINAGE PLAN C-2 SECTIONS C-2 DETAILS
Wood Frame	ed	LESS THAN ¼" BETWEEN THE HOOD AND UNDERSIDE OF CABINET. CMC SECTION 916.1 & 916.2.	
\wedge			\bigcirc

FIRE WALL SECTION DETAIL "A"

dbearing		Aco	ustical Performance	Reference	DATE MARCH-22-23
cription	Test Number	STC	Test Number	Index	DRAWN E.ECKHAUS/F.BALDERAS/A.ALONSO
" Sheetrock Firecode core panels, 5/8" Sheetrock UltraLIght Panels Firecode X 5/8" Fiberock panels 4 wood studs 16" o.c. or 24" o.c.	UL Des 327	46	RAL-TL11-082 Based on 5/8" Sheetrock UltraLight Panels Firecode X	A-66	JOB 2023-000
mineral fiber or fiberglass insulation C-1 channel or equivalent		48	RAL-TL11-083 Based on 5/8" Sheetrock Firecode core panels		SHEET.
		50	BBN-760903 Based on 5/8" Sheetrock Firecode C Core panels		A4
		51	RAL-TL11-174 Based on 5/8" double layer Sheetrock UltraLight Panels Firecode X same side as RC-1 channel		





SECTION R902 FIRE CLASSIFICATION

R902.1 ROOFING COVERING MATERIALS

ROOFS SHALL BE COVERED WITH MATERIALS AS SET FORTH IN SECTIONS <u>R904</u> AND <u>R905</u>. A MINIMUM CLASS A, B OR C ROOFING SHALL BE INSTALLED IN AREAS DESIGNATED BY THIS SECTION OR WHERE THE EDGE OF THE ROOF IS LESS THAN 3 FEET (914 MM) FROM A <u>LOT LINE</u>. CLASS A, B AND C ROOFING REQUIRED BY THIS SECTION TO BE LISTED SHALL BE TESTED IN ACCORDANCE WITH UL 790 OR ASTM E108. SECTION R905 REQUIREMENTS FOR ROOF COVERINGS

R905.1 ROOF COVERING APPLICATION

ROOF COVERINGS SHALL BE APPLIED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THIS SECTION AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. UNLESS OTHERWISE SPECIFIED IN THIS SECTION, ROOF COVERINGS SHALL BE INSTALLED TO RESIST THE COMPONENT AND <u>CLADDING</u> LOADS SPECIFIED IN <u>TABLE R301.2(2)</u>, ADJUSTED FOR HEIGHT AND EXPOSURE IN ACCORDANCE WITH <u>TABLE R301.2(3)</u>.

R905.1.1 UNDERLAYMENT

UNDERLAYMENT FOR ASPHALT SHINGLES, CLAY AND CONCRETE TILE, METAL ROOF SHINGLES, MINERAL-SURFACED ROLL ROOFING, SLATE AND SLATE-TYPE SHINGLES, WOOD SHINGLES, WOOD SHAKES AND METAL ROOF PANELS SHALL CONFORM TO THE APPLICABLE STANDARDS LISTED IN THIS CHAPTER. UNDERLAYMENT MATERIALS REQUIRED TO COMPLY WITH ASTM D226, D1970, D4869 AND D6757 SHALL BEAR A LABEL INDICATING COMPLIANCE TO THE STANDARD DESIGNATION AND, IF APPLICABLE, TYPE CLASSIFICATION INDICATED IN TABLE R905.1.1(1). UNDERLAYMENT SHALL BE APPLIED IN ACCORDANCE WITH TABLE R905.1.1(2). UNDERLAYMENT SHALL BE ATTACHED IN ACCORDANCE WITH TABLE R905.1.1(3).

R905.3 CLAY AND CONCRETE TILE

THE INSTALLATION OF <u>CLAY</u> AND <u>CONCRETE</u> TILE SHALL COMPLY WITH THE PROVISIONS OF THIS SECTION. **R905.3.1 DECK REQUIREMENTS**

CONCRETE AND CLAY TILE SHALL BE INSTALLED ONLY OVER SOLID SHEATHING OR SPACED STRUCTURAL SHEATHING BOARDS.

R905.3.2 DECK SLOPE

<u>CLAY</u> AND <u>CONCRETE</u> ROOF TILE SHALL BE INSTALLED ON ROOF SLOPES OF TWO AND ONE-HALF UNITS VERTICAL IN 12 UNITS HORIZONTAL (2¹/₂:12) OR GREATER. FOR ROOF SLOPES FROM TWO AND ONE-HALF UNITS VERTICAL IN 12 UNITS HORIZONTAL (2¹/₂:12) TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (4:12), DOUBLE <u>UNDERLAYMENT</u> APPLICATION IS REQUIRED IN ACCORDANCE WITH <u>SECTION R905.3.3</u>.

R905.3.3 UNDERLAYMENT

UNDERLAYMENT SHALL COMPLY WITH SECTION R905.1.1.

R905.3.4 CLAY TILE

CLAY ROOF TILE SHALL COMPLY WITH ASTM C1167.

R905.3.5 CONCRETE TILE

CONCRETE ROOF TILE SHALL COMPLY WITH ASTM C1492.

TABLE R905.1.1(1)

IABLE R905.1.1(1) UNDERLAYMENT TYPES					
ROOF COVERING	SECTION	MAXIMUM ULTIMATE DESIGN WIND SPEED, <i>V_{ult}</i> < 140 MPH	MAXIMUM ULTIMATE DESIGN WIND SPEED, <i>V_{ult}</i> ≥ 140 MPH		
		ASTM D226 Type I	ASTM D226 Type II		
Asphalt shingles	<u>R905.2</u>	ASTM D4869 Type I, II, III or IV	ASTM D4869 Type IV		
		ASTM D6757	ASTM D6757		
		ASTM D226 Type II	ASTM D226 Type II		
<u>Clay</u> and <u>concrete</u> tile	<u>R905.3</u>	ASTM D2626 Type I	ASTM D2626 Type I		
		ASTM D6380 Class M mineral-surfaced roll roofing	ASTM D6380 Class M mineral-surfaced roll roofing		
Metal roof shingles	R905.4	ASTM D226 Type I or II	ASTM D226 Type II		
Metar roor shingles		ASTM D4869 Type I, II, III or IV	ASTM D4869 Type IV		
Mineral-surfaced roll	R905.5	ASTM D226 Type I or II	ASTM D226 Type II		
roofing		ASTM D4869 Type I, II, III or IV	ASTM D4869 Type IV		
Slate and slate-type	<u>R905.6</u>	ASTM D226 Type I	ASTM D226 Type II		
shingles		ASTM D4869 Type I, II, III or IV	ASTM D4869 Type IV		
Wood shingles	R905.7	ASTM D226 Type I or II	ASTM D226 Type II		
wood shingles		ASTM D4869 Type I, II, III or IV	ASTM D4869 Type IV		
Wood shakes	R905.8	ASTM D226 Type I or II	ASTM D226 Type II		
		ASTM D4869 Type I, II, III or IV	ASTM D4869 Type IV		
Motol popolo	D005 10	Manufacturer's instructions	ASTM D226 Type II		
Metal panels	<u>nguo.10</u>		ASTM D4869 Type IV		

FRONT ELEVATION

PROPOSED

SCALE: 1/4" = 1'-0"

REAR ELEVATION

PROPOSED

SCALE: 1/4" = 1'-0"

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm.

TABLE R905.1.1(2) UNDERLAYMENT APPLICATION
 ROOF COVERING
 MAXIMUM ULTIMATE DESIGN WIND
 MAXIMUM ULTIMATE DESIGN WIND

 SECTION
 SPEED, Vult < 140 MPH</td>
 SPEED, Vult > 140 MPH
 For roof slopes from two units vertical in 12 units horizontal (2:12), up to four units vertical in 12 units horizontal (4:12), <u>underlayment</u> shall be two layers applied in the following manner: apply a 19inch strip of <u>underlayment</u> felt parallel to and starting at the eaves. Starting at the eave, apply 36-inch-wide sheets of underlayment overlapping successive sheets 19 inches. Distortions in the <u>underlayment</u> shall not interfere with the ability of the shingles to Same as Maximum Ultimate Design Wind seal. Asphalt shingles R905.2 Speed, V_{ult} < 140 mph except all laps shall be not less than 4 inches. For roof slopes of four units vertical in 12 units horizontal (4:12) or greater, <u>underlayment</u> shall be one layer applied in the following manner: <u>underlayment</u> shall be applied <u>shingle fashion</u>, parallel to and starting from the eave and lapped 2 inches Distortions in the <u>underlayment</u> shall not interfere with the ability of the shingles to seal. End laps shall be 4 inches and shall be offset by 6 feet. For roof slopes from two and one-half units vertical in 12 units horizontal (2¹/₂:12), up to four units vertical in 12 units horizontal (4:12), <u>underlayment</u> shall be a minimum of two layers applied as follows: starting at the eave, apply a 19-inch strip nt parallel with the eave. Starting at the eave, apply 36-inch-wide Same as Maximum Ultimate Design Wind Speed, V_{ult} < 140 mph except all laps shall be not less than 4 inches. strips of underlay ent felt, overlapping 3 successive sheets 19 inches. y and <u>concrete</u> tile <mark>R9</mark> For roof slopes of four units vertical in 12 units horizontal (4:12) or greater, uno ent shall be a minimum of one layer of un avment felt applied <u>shingle fashion</u>, parallel to and starting from the eaves and lapped 2 inches. End laps shall be 4 inches and shall be offset by 6 feet. For roof slopes from two units vertical in 12 tal roof shingles R905.4 Mineral-surfaced roll R905.5 units horizontal (2:12), up to four units vertical in 12 units horizontal roofing Slate and slate-type R905.6 (4:12), <u>underlayment</u> shall be two layers applied in the following manner: apply a 19shingles inch strip of underlayment felt parallel to and Wood shingles starting at the eaves. Starting at the eave, 2905 8 Wood shakes apply 36-inch-wide sheets of underlayment overlapping successive sheets 19 inches, Apply in accordance with the manufacturer's and fastened sufficiently to hold in place. installation instructions. For roof slopes of four units vertical in 12 units horizontal (4:12) or greater, <u>underlayment</u> shall be one layer applied in the following Metal panels <u>R905.10</u>

manner: <u>underlayment</u> shall be applied <u>shingle fashion</u>, parallel to and starting from the eave and lapped 4 inches. End laps shall be 4 inches and shall be offset by 6 feet.

UNDERLAYMENT AT	-	МАХІМИМ	
ROOF COVERING	SECTION	ULTIMATE DESIGN WIND SPEED, <i>V_{ult}</i> < 140 MPH	MAXIMUM ULTIMATE DESIGN WIND SPEED, $V_{ult} \ge 140$ MPH
Asphalt shingles	R905.2		The underlayment shall be attached with corrosion-resistant
<u>Clay</u> and <u>concrete</u> tile	<u>R905.3</u>	Fastened sufficiently to hold in place	fasteners in a grid pattern of 12 inches between side laps with a 6- inch spacing at the side laps. <u>Underlayment</u> shall be attached using metal or plastic cap nails or cap staples with a nominal cap <u>diameter</u> of not less than 1 inch. Metal caps shall have a thickness of not less than 32-gage sheet metal. Power-driven metal caps shall have a minimum thickness o 0.010 inch. Minimum thickness of the outside edge of plastic caps shall be 0.035 inch. The cap nail shank shall be not less than 0.08 inch for ring shank cap nails and 0.091 inch for smooth shank cap nails. Staples shall be not less than 21 gage. Cap nail shank and cap staple legs shall have a length sufficient to penetrate through the roof sheathing or not less than 3/4 inch into the roof sheathing.
Metal roof shingles	<u>R905.4</u>		The <u>underlayment</u> shall be attached with corrosion-resistant
rooling	<u>R905.5</u>		fasteners in a grid pattern of 12 inches between side laps with a 6 inch spacing at the side laps.
sningles	<u>R905.6</u>		Underlayment shall be attached using metal or plastic cap nails or
Wood shingles	<u>R905.7</u>	Manufacturer's	cap staples with a nominal cap <u>diameter</u> of not less than 1 inch.
Wood shakes	<u>R905.8</u>	installation	Metal caps shall have a thickness of at least 32-gage sheet metal.
Metal panels	<u>R905.10</u>	instructions.	Power-driven metal caps shall have a minimum thickness of 0.010 inch. Minimum thickness of the outside edge of plastic caps shall be 0.035 inch. The cap nail shank shall be not less than 0.083 incl for ring shank cap nails and 0.091 inch for smooth shank cap nails Staples shall be not less than 21 gage. Cap nail shank and cap staple legs shall have a length sufficient to penetrate through the roof sheathing or not less than ³ / ₄ inch into the roof sheathing.

TABLE R905.3.7 CLAY AND CONCRETE	TILE
SHEATHING	
Solid without battens	
Spaced or <u>solid</u> with batt	iens a
Spaced sheathing withou	ut bat

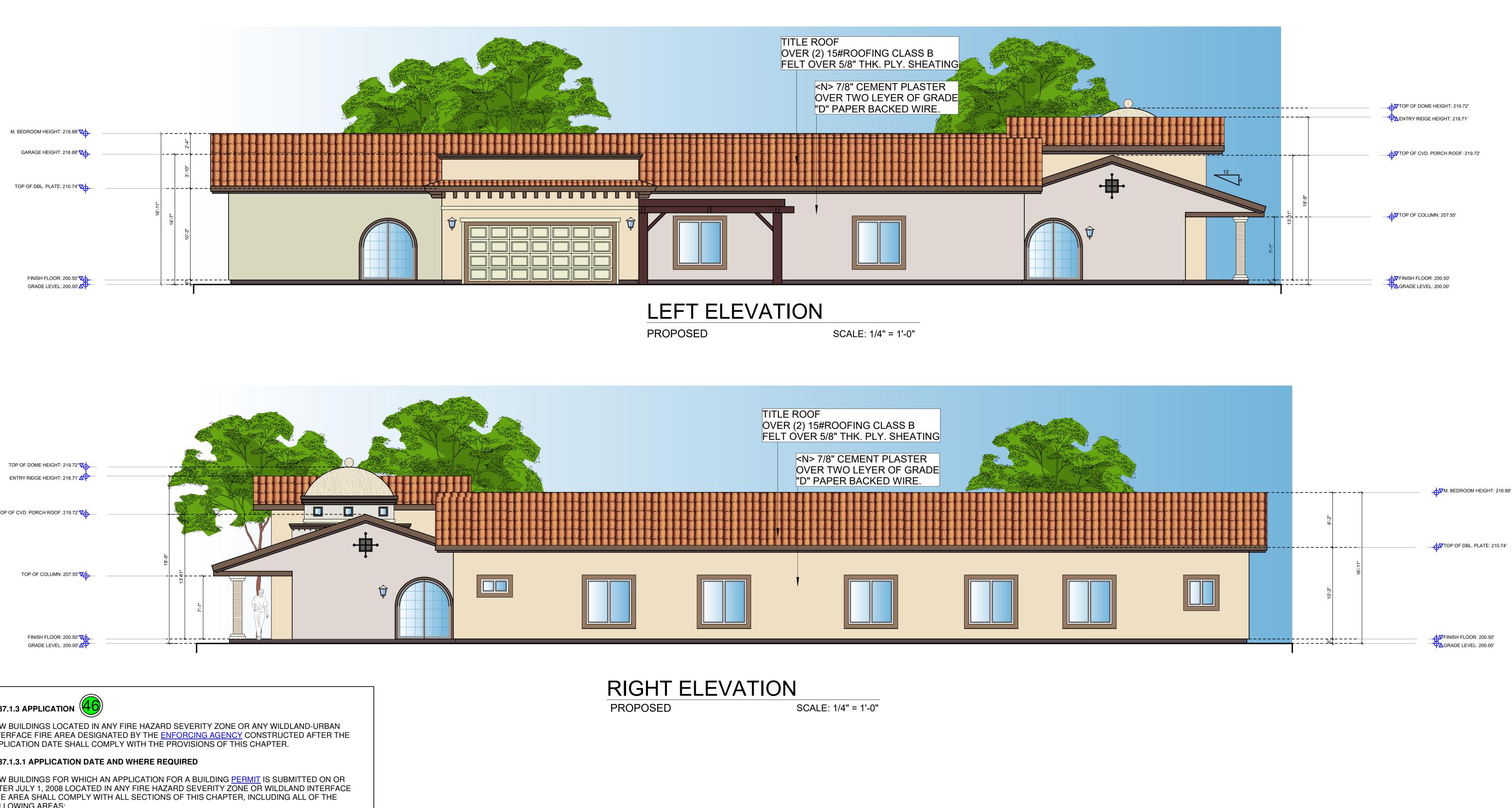
BEDROOM 2 HEIGHT: 216.88'

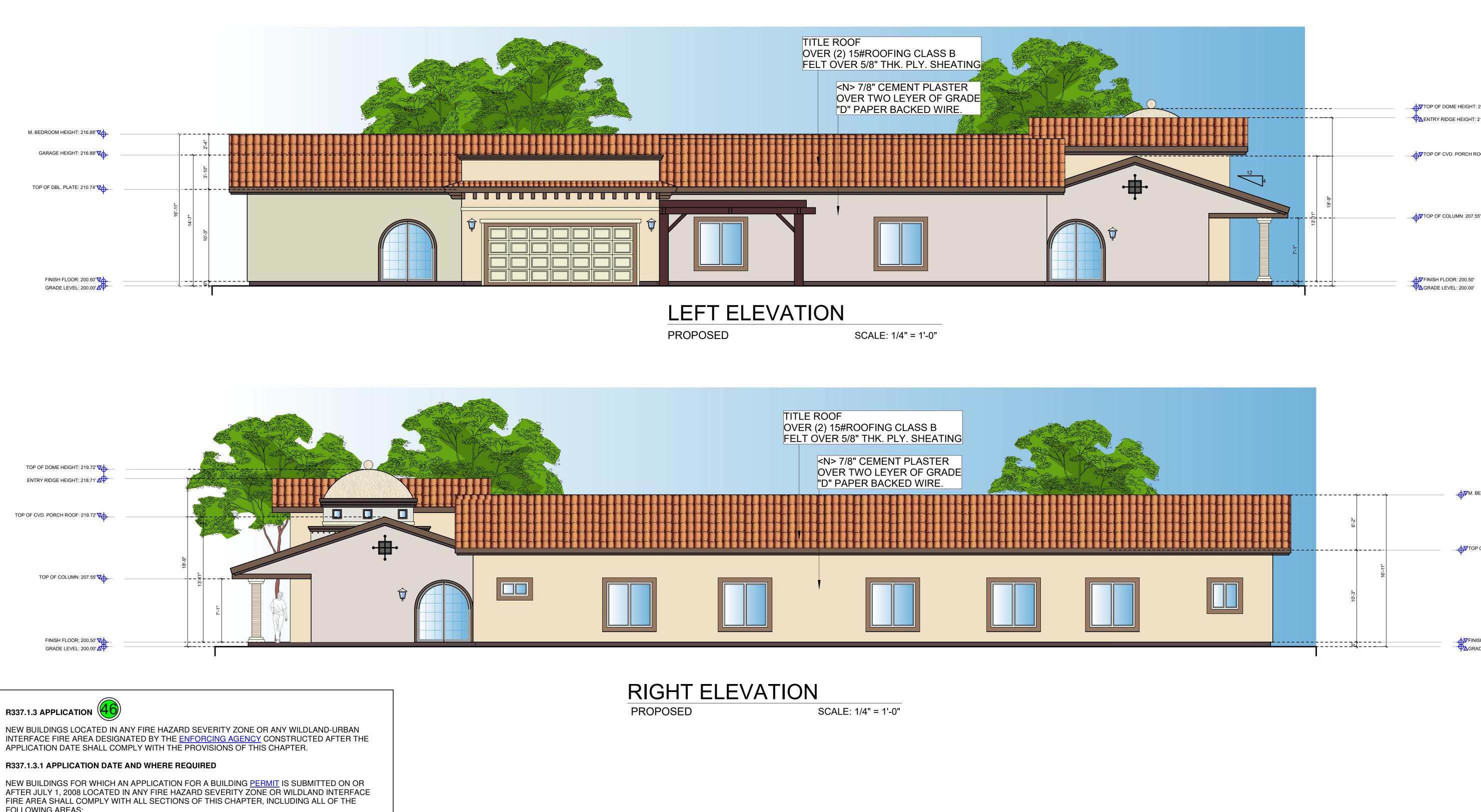
TOP OF DBL. PLATE: 210.74

FINISH FLOOR: 200.50'

ITTACHMENT				
	ROOF SLOPE	NUMBER OF FASTENERS		
	All	One per tile		
d slope < 5:12	Fasteners not required			
	5:12 ≤ slope < 12:12	One per tile/ every other row		
INS	12:12 ≤ slope < 24:12	One per tile		

INDEXPLANS A PROPOSED FLOOR PATE PARA POBER PLUE PROJECT PROJ	
P. D. BOX 783 - SALINAS CA 03902 PH (83) 794 - 2461 REX (83) 287 - 021 eeckhaus@gmat.com OWNER. IRMA BERRELLEZA PROJECT. 543 PINI RD ROYAL OAKS, CA 95076 APN 412-012-055-0000 CODES. 2022 California Building Standards Code (Cal. Code Regs., Tit. 24) • Part 1 - California Administrative Code • Part 2 - California Residential Code • Part 2 - California Residential Code • Part 2 - California Building Code • Part 3 - California Building Code • Part 4 - California Hechanical Code • Part 5 - California Historical Building Code • Part 6 - California Historical Building Code • Part 7 - California Historical Building Code • Part 9 - California Historical Building Code • Part 9 - California Resensuiding Standards Code NDEX PLANS. A1 SITE PLAN A2 EXISTING BUILDING FLOOR PLAN A3 PROPOSED FLOOR PLAN NEW GUEST HOUSE A3 PROPOSED FLOOR PLAN A5 PROPOSED FLOOR PLAN BECKHAUS/F.BALDERAS/AALONSO JOB 2023-000	
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	SHEET.







NEW BUILDINGS LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR ANY WILDLAND-URBAN INTERFACE FIRE AREA DESIGNATED BY THE ENFORCING AGENCY CONSTRUCTED AFTER THE APPLICATION DATE SHALL COMPLY WITH THE PROVISIONS OF THIS CHAPTER.

R337.1.3.1 APPLICATION DATE AND WHERE REQUIRED

NEW BUILDINGS FOR WHICH AN APPLICATION FOR A BUILDING PERMIT IS SUBMITTED ON OR AFTER JULY 1, 2008 LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR WILDLAND INTERFACE FIRE AREA SHALL COMPLY WITH ALL SECTIONS OF THIS CHAPTER, INCLUDING ALL OF THE FOLLOWING AREAS:

ALL UNINCORPORATED LANDS DESIGNATED BY THE STATE BOARD OF FORESTRY AND FIRE PROTECTION AS STATE RESPONSIBILITY AREA (SRA) INCLUDING:

- 1. 1.1. MODERATE FIRE HAZARD SEVERITY ZONES
- 2. 1.2. HIGH FIRE HAZARD SEVERITY ZONES 3. 1.3. VERY-HIGH FIRE HAZARD SEVERITY ZONES

LAND DESIGNATED AS VERY-HIGH FIRE HAZARD SEVERITY ZONE BY CITIES AND OTHER LOCAL AGENCIES.

LAND DESIGNATED AS WILDLAND INTERFACE FIRE AREA BY CITIES AND OTHER LOCAL AGENCIES.

FIRE HAZARD SEVERITY ZONES

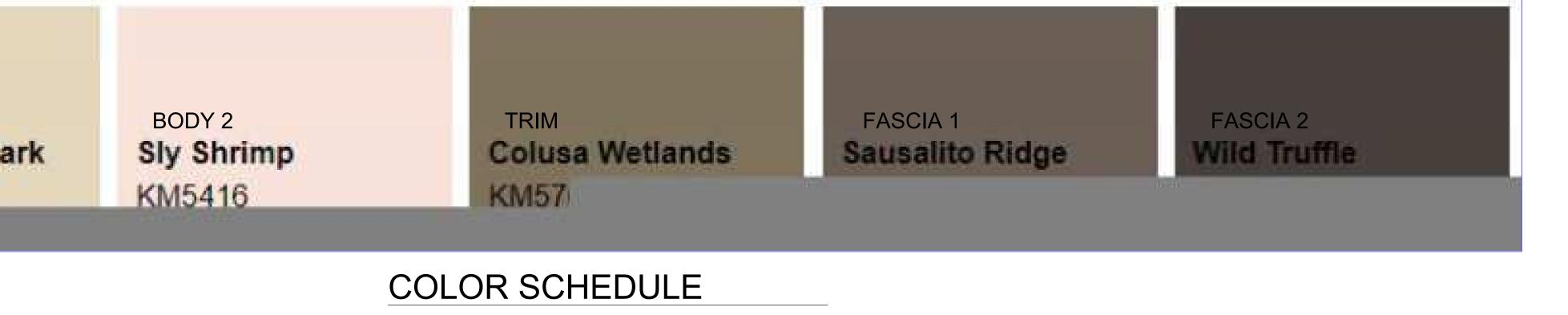
ARE GEOGRAPHICAL AREAS DESIGNATED PURSUANT TO CALIFORNIA PUBLIC RESOURCES CODES SECTIONS 4201 THROUGH 4204 AND CLASSIFIED AS VERY-HIGH, HIGH, OR MODERATE IN STATE RESPONSIBILITY AREAS OR AS LOCAL AGENCY VERY-HIGH FIRE HAZARD SEVERITY ZONES DESIGNATED PURSUANT TO CALIFORNIA GOVERNMENT CODE SECTIONS 51175 THROUGH 51189. SEE CALIFORNIA FIRE CODE ARTICLE 86. THE CALIFORNIA CODE OF REGULATIONS, TITLE 14, SECTION 1280 ENTITLES THE MAPS OF

THESE GEOGRAPHICAL AREAS AS "MAPS OF THE FIRE HAZARD SEVERITY ZONES IN THE STATE RESPONSIBILITY AREA OF CALIFORNIA."

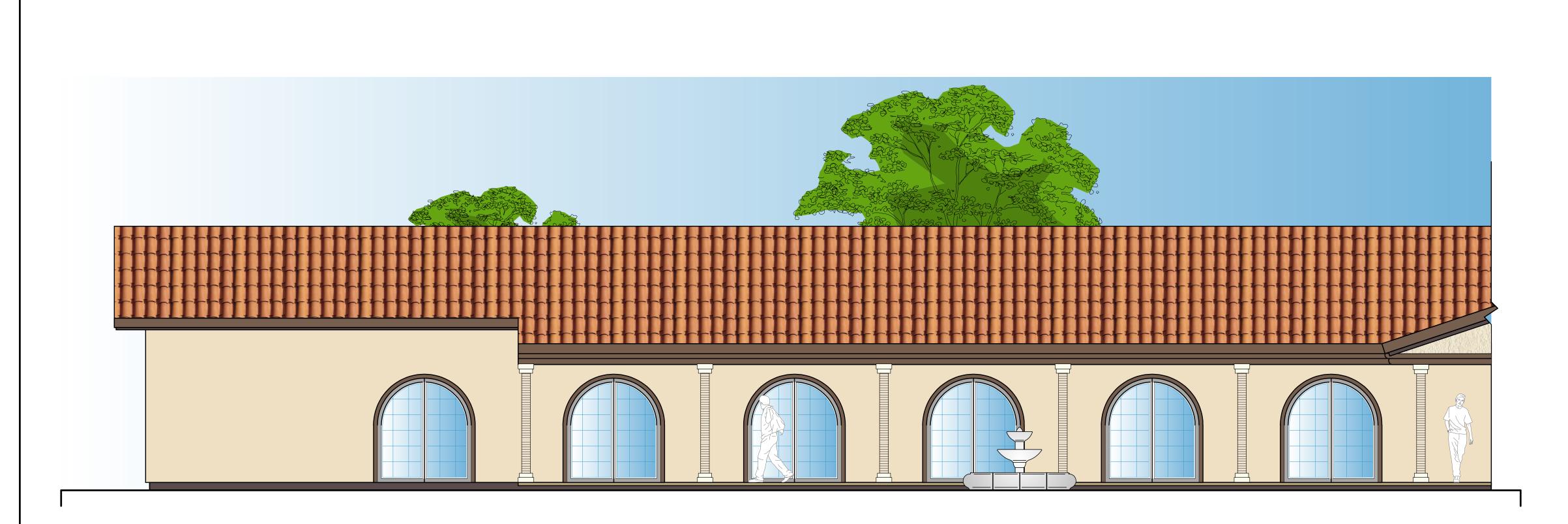
HEAVY TIMBER.

A TYPE OF CONSTRUCTION CLASSIFICATION SPECIFIED IN <u>SECTION R602</u>. FOR USE IN THIS CHAPTER, HEAVY TIMBER SHALL BE SAWN LUMBER OR GLUE LAMINATED WOOD WITH THE SMALLEST MINIMUM NOMINAL DIMENSION OF 4 INCHES (102 MM). HEAVY TIMBER WALLS OR FLOORS SHALL BE SAWN OR GLUE-LAMINATED PLANKS SPLINED, TONGUE-AND-GROVE, OR SET CLOSE TOGETHER AND WELL SPIKED.

BODY 1 Yellow Stone Park KM4682

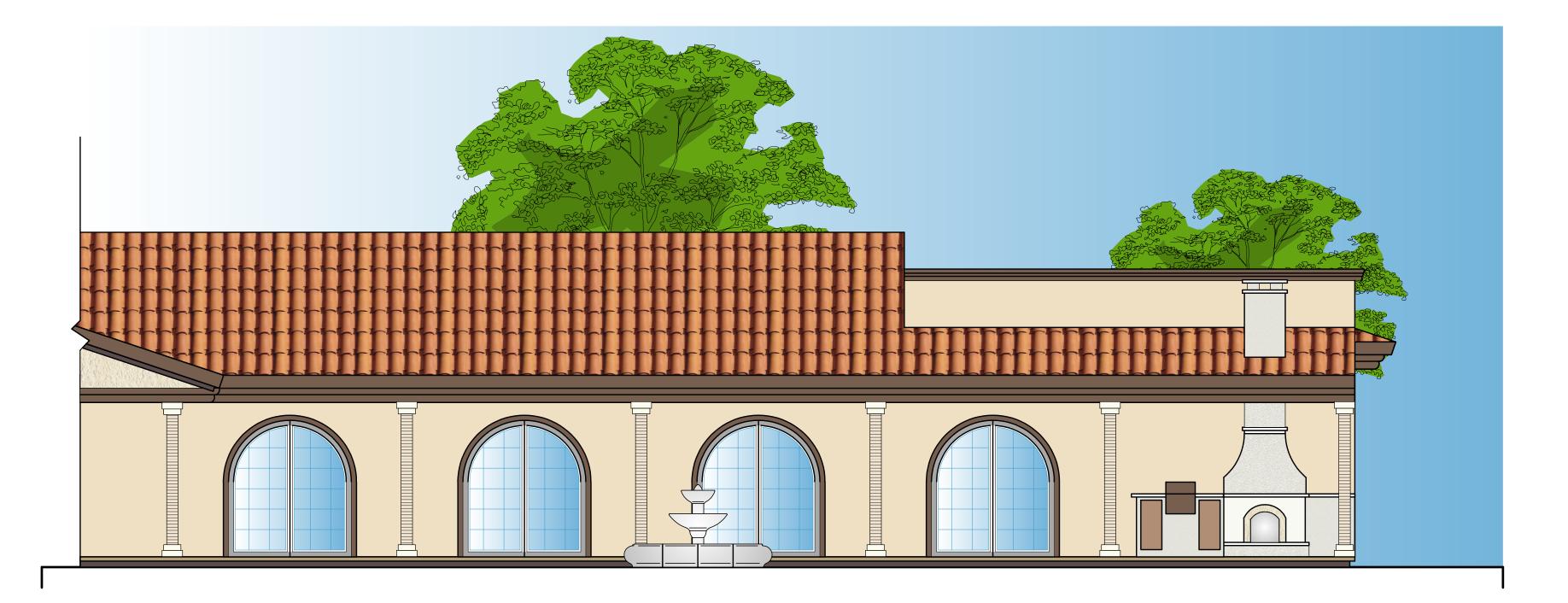


ENRIQUE ECKHAUS GIL.
P.O. BOX 783 - SALINAS,CA 93902 PH. (831) 794 - 2461 FX. (831) 287 - 0121 eeckhaus@pacbell.net eeeckhaus@gmail.com
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T1 TOPO SURVEY C-1 STORM DRAINAGE PLAN
C-2 SECTIONS C-2 DETAILS
REVISIONS
DATE
MARCH-22-23 DRAWN E.ECKHAUS/F.BALDERAS/A.ALONSO
JOB 2023-000
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INTERIOR ELEVATION

PROPOSED



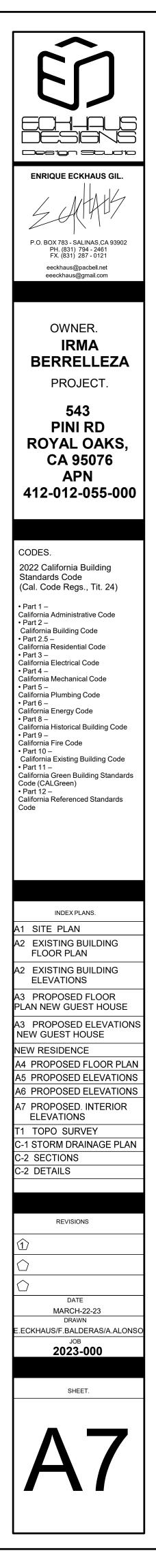
INTERIOR ELEVATION PROPOSED

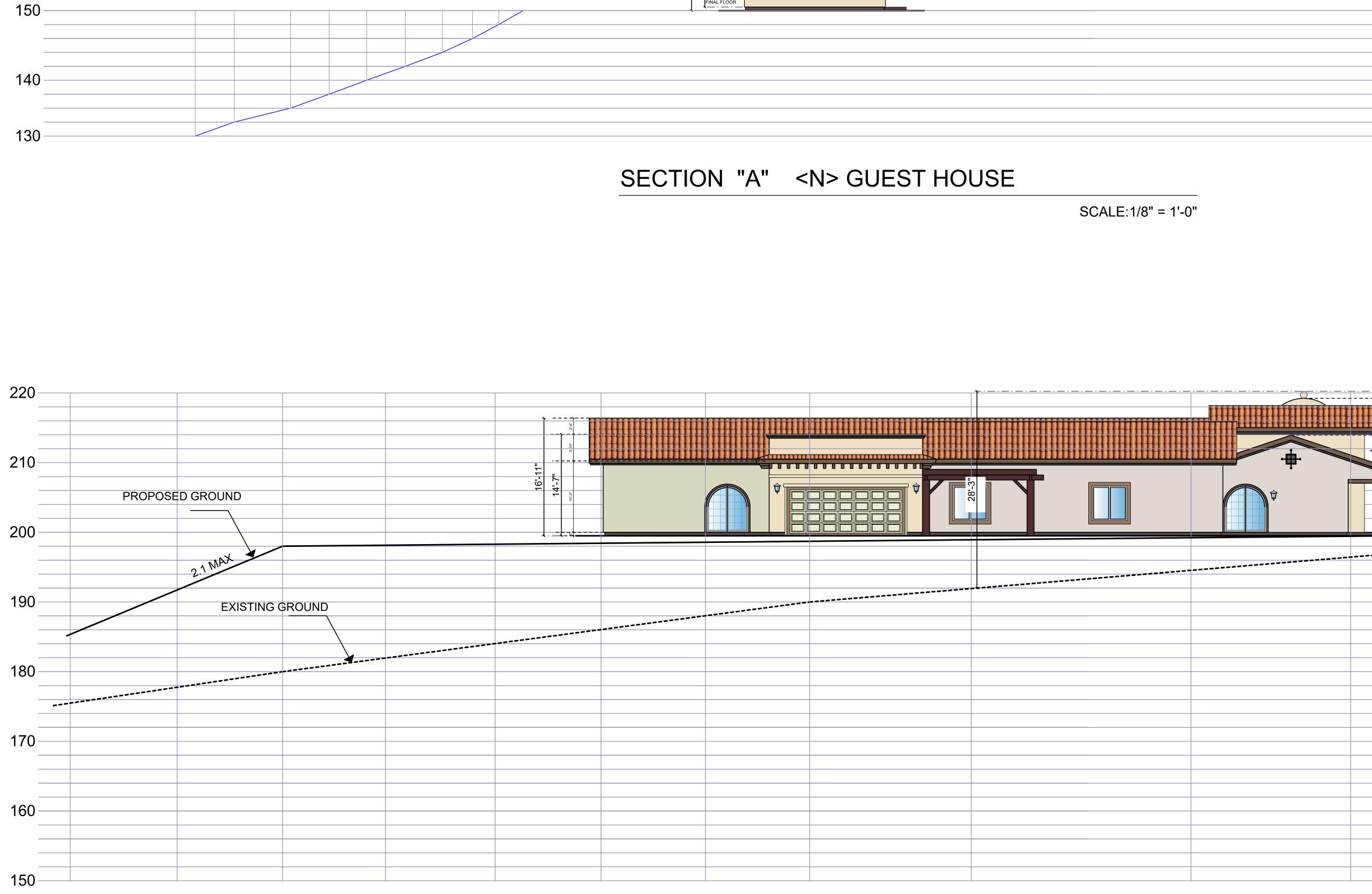
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SCALE: 1/4" = 1'-0"



Weight Per Piece: Standard: 4.8





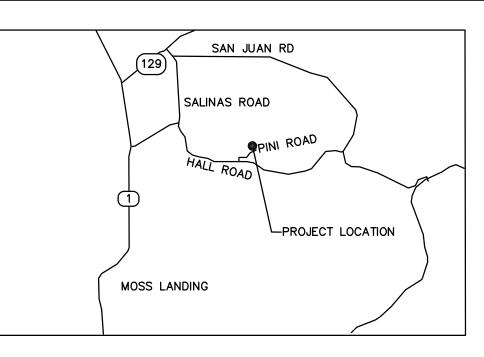
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SECTION "B" <N> RESIDENCE

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		DATE MARCH-22-23 DRAWN E.ECKHAUS/F.BALDERAS/A.ALONSO JOB 2023-024

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VICINITY MAP - NOT TO SCALE

STORM DRAINAGE SPECIFICATIONS

1. ALL INLETS SHALL BE CONCRETE OLDCASTLE CHRISTY PRODUCTS OR APPROVED EQUAL. #4 REBAR @ 18" OC (EACH WAY) 2. ALL STORM DRAIN PIPES SHALL BE SDR-26, HDPE SCHEDULE 40 OR APPROVED EQUAL

DISCLAIMER

THE DATA SET FORTH ON THIS SHEET IS THE PROPERTY OF CORNERSTONE CIVIL INC. IT IS AN INSTRUMENT OF SERVICE AND MAY NOT BE REPRODUCED. ALTERED OR USED WITHOUT THE CONSENT OF THE ENGINEER. THE PROPER TRANSFER OF ELECTRONIC DATA SHALL BE THE USER'S RESPONSIBILITY WITHOUT LIABILITY TO THE ENGINEER. UNAUTHORIZED USE IS PROHIBITED.

ENGINEER'S NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OR RECORD OR NOT SHOWN ON THESE DRAWINGS. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CALL U.S.A. DIG ALERT TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. 1(800)624-1444

GENERAL NOTES

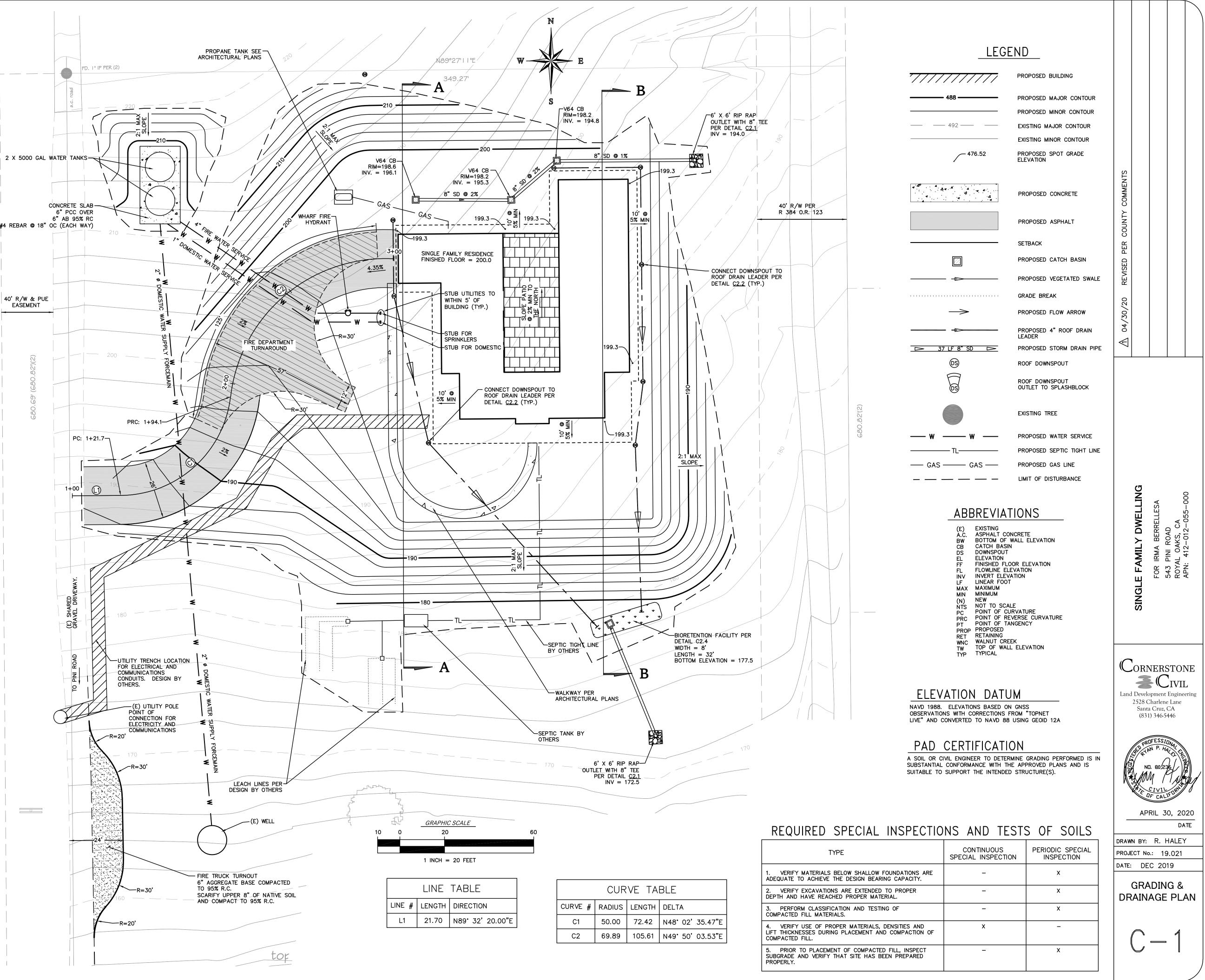
- 1. OWNER: IRMA BERRELLESA 543 PINI ROAD ROYAL OAKS, CA
- 2. ARCHITECTURAL PLANS: ENRIQUE ECKHAUS PO BOX 783 SALINAS, CA 93902
- REFERENCE IS MADE TO THE GEOTECHNICAL INVESTIGATIONS BY GMD ENGINEERS, DATED DECEMBER 1, 2019. THE CONTRACTOR SHALL MAKE A THOROUGH REVIEW OF THIS REPORT AND SHALL FOLLOW ALL RECOMMENDATIONS THEREIN. THE CONTRACTOR SHALL CONTACT GERONIMO DALIVA, PE (833)800-4284. FOR ANY CLARIFICATIONS NECESSARY PRIOR TO PROCEEDING WITH THE WORK.
- 4. ALL GRADING OPERATIONS SHALL CONFORM TO SECTION 19 OF THE CALTRANS STANDARD SPECIFICATIONS, AND SHALL ALSO BE DONE IN CONFORMANCE WITH THE REQUIREMENTS OF THE COUNTY OF MONTEREY AND THE AFOREMENTIONED GEOTECHNICAL INVESTIGATION.
- 5. THE CONTRACTOR SHALL NOTIFY THE COUNTY GRADING INSPECTOR AND THE GEOTECHNICAL ENGINEER AT LEAST 48 HOURS PRIOR TO TO THE START OF CONSTRUCTION.
- 6. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY DISCREPANCY OCCURRING ON THE DRAWINGS OR FOUND IN HIS COORDINATION WORK. NO CHANGES IN APPROVED PLANS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE PROJECT ENGINEER AND THE COUNTY OF MONTEREY.
- WORK SHALL BE LIMITED TO 8:00 A.M. TO 5:00 PM WEEKDAYS. NON-NOISE PRODUCING ACTIVITIES, SUCH AS INTERIOR PAINTING, SHALL NOT BE SUBJECT TO THIS RESTRICTION.
- 8. NO LAND CLEARING, GRADING OR EXCAVATING SHALL TAKE PLACE BETWEEN OCTOBER 15 AND APRIL 15 UNLESS THE PLANNING DIRECTOR APPROVES A SEPARATE WINTER EROSION CONTROL PLAN.
- 9. BETWEEN OCTOBER 15 AND APRIL 15, EXPOSED SOIL SHALL BE PROTECTED FROM EROSION AT ALL TIMES. DURING CONSTRUCTION SUCH PROTECTION MAY CONSIST OF MULCHING AND/OR PLANTING OF NATIVE VEGETATION OF ADEQUATE DENSITY. BEFORE COMPLÉTION OF THE PROJECT, ANY EXPOSED SOIL ON DISTURBED SLOPES SHALL BE PERMANENTLY PROTECTED FROM EROSION.
- 10. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO, OR USES OF, THESE PLANS. ALL CHANGES MUST BE IN WRITING AND MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 11. ALL WATER STORAGE TANKS AND PLUMBING INTENDED FOR THE DISTRIBUTION OF DRINKING WATER SHALL COMPLY WITH THE NATIONAL SANITATION FOUNDATION (NSF) 61 STANDARDS.
- 12. TANKS USED FOR POTABLE WATER SHALL BE TIGHTLY COVERED AND VENTED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH VENT SHALL BE SCREENED WITH A CORROSION-RESISTANT MATERIAL OF NOT LESS THAN NUMBER 24 MESH.
- 13. TANKS SHALL HAVE NOT LESS THAN A 16 SQUARE INCH (0.01 M2) OVERFLOW THAT IS SCREENED WITH A CORROSION-RESISTANT MATERIAL OF NOT LESS THAN NUMBER 24 MESH.

IMPERVIOUS SUMMARY

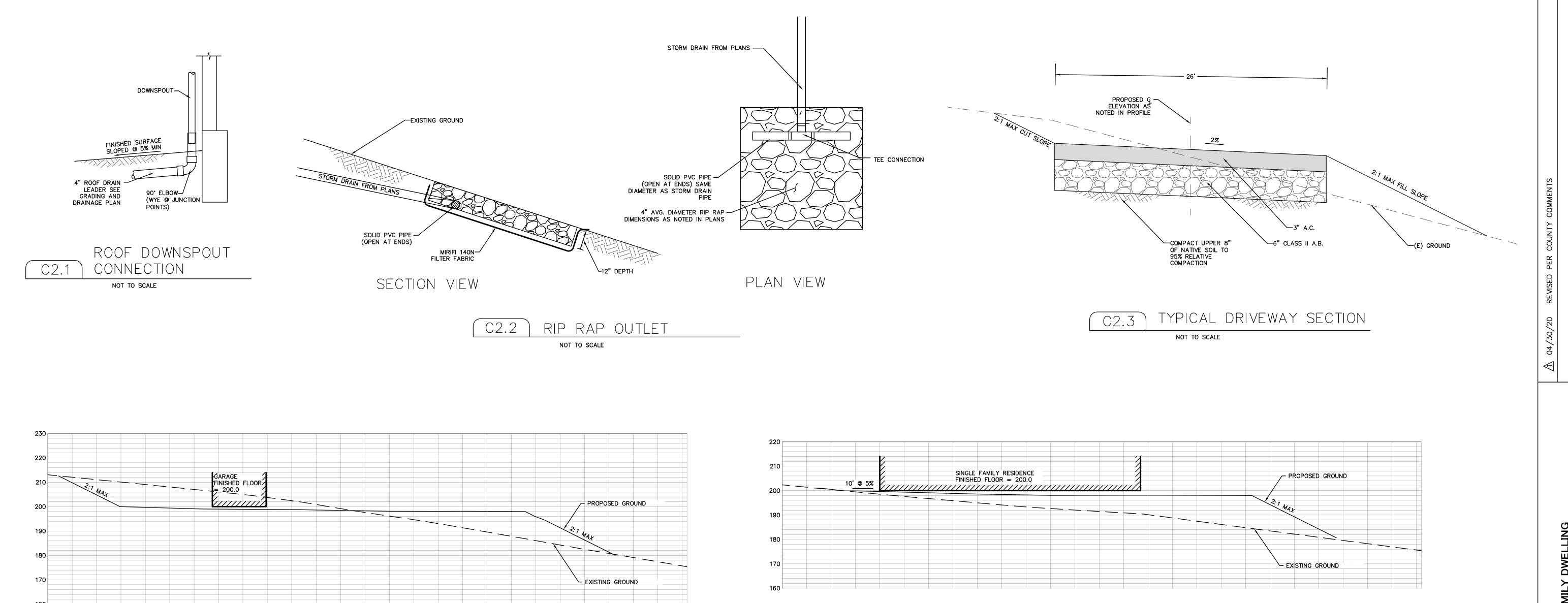
ITEM	EXISTING	PROPOSED	
		CREATED	REPLACED
BUILDING	1,269	6,247	0
ASPHALT	0	5,977	0
CONCRETE	0	628	0
TOTAL	12,852 SF	CREATED (DR REPLACED

EARTHWORK SUMMARY

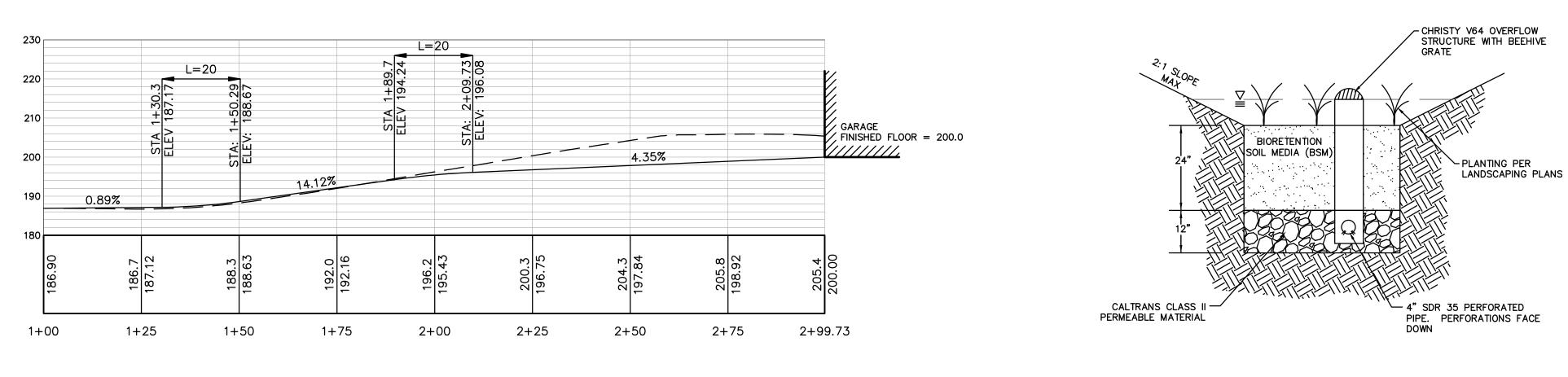
ITEM	CUT (CY)	FILL (CY)
SITE GRADING	2700	5300
DRIVEWAY	480	45
SUB-TOTAL	3180	5345
TOTAL	2165 C	Y (IMPORT)



1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	x
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	_	×
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	×
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	x	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	_	x







DRIVEWAY PROFILE

SCALE: 1" = 20' H AND V

220		
210	SINGLE FAMILY RESIDENCE FINISHED FLOOR = 200.0	PROPOSED GROUND
200		
		2:1 MAX
190		
180	1 1	
	Image:	
170	1 1	
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160		

SECTION B-B SCALE: 1" = 20'

1. MULCH DEPTH 2-3", USE OF MULCH BELOW PONDING HIGH WATER MARK IS OPTIONAL. PREFERRED MULCH TYPE: AGED, STABILIZED, NON-FLOATING. 2. MINIMUM CURB DEPTH ALONG CITY RIGHT-OF-WAY SHALL BE 24". STEEL REINFORCEMENT IS REQUIRED FOR PLANTER WALLS INSTALLED ALONG CITY RIGHT-OF-WAY. 3. BIORETENTION SOIL MEDIA (BSM): MINIMUM INFILTRATION RATE 5 IN/HR. USE CONCRETE SAND (60–70%) MEETING ASTM C33 SPECIFICATIONS AND STABLE, WEED-FREE COMPOST (30–40%) MIXTURE. 4. SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM. 5. USE MIN. 4" DIA. PVC SDR36 PERFORATED PIPE. INSTALL NEAR THE TOP OF AGGREGATE LAYER WITH HOLES FACING DOWN. 6. UNDERDRAIN DISCHARGE SHALL BE NO LOWER THAN THE TOP OF THE AGGREGATE LAYER. UNDERDRAIN SLOPE MAY BE FLAT. 7. PROVIDE 4" MIN. DIAMETER CAPPED AND THREADED PVC CLEANOUT FOR UNDERDRAIN, WITH SWEEP BEND.

BIORETENTION FACILITY

NOT TO SCALE

C2.4

ELLING INI ROAD - OAKS, CA 412-012-0 DV FAMILY FOR 543 ROYI APN: ш SINGL Land Development Engineering 2528 Charlene Lane Santa Cruz, CA (831) 346-5446 APRIL 30, 2020 DATE DRAWN BY: R. HALEY PROJECT No.: 19.021 DATE: DEC 2019 DETAILS C-2

SITE HOUSEKEEPING REQUIREMENTS

- CONSTRUCTION MATERIALS 1. ALL LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E. SOIL, SPOILS, AGGREGATE, FLY-ASH, STUCCO, HYDRATED LIME, ETC.) SHALL BE COVERED AND BERMED.
- 2. ALL CHEMICALS SHALL BE STORED IN WATERTIGHT CONTAINERS (WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT ANY SPILLAGE OR LEAKAGE) OR IN A STORAGE SHED (COMPLETELY ENCLOSED). 3. EXPOSURE OF CONSTRUCTION MATERIALS TO PRECIPITATION SHALL BE
- MINIMIZED. THIS DOES NOT INCLUDE MATERIALS AND EQUIPMENT THAT ARE DESIGNED TO BE OUTDOORS AND EXPOSED TO ENVIRONMENTAL CONDITIONS (I.E. POLES, EQUIPMENT PADS, CABINETS, CONDUCTORS, INSULATORS, BRICKS, ETC.).
- 4. BEST MANAGEMENT PRACTICES TO PREVENT THE OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS SHALL BE IMPLEMENTED.

LANDSCAPE MATERIALS

- CONTAIN STOCKPILED MATERIALS SUCH AS MULCHES AND TOPSOIL WHEN THEY ARE NOT ACTIVELY BEING USED. 2. CONTAIN FERTILIZERS AND OTHER LANDSCAPE MATERIALS WHEN THEY ARE NOT ACTIVELY BEING USED.
- 3. DISCONTINUE THE APPLICATION OF ANY ERODABLE LANDSCAPE MATERIAL WITHIN 2 DAYS BEFORE A FORECASTED RAIN EVENT OR DURING PERIOD
- OF PRECIPITATION. 4. APPLY ERODABLE LANDSCAPE MATERIAL AT QUANTITIES AND APPLICATION RATES ACCORDING TO MANUFACTURE RECOMMENDATIONS OR BASED ON WRITTEN SPECIFICATIONS BY KNOWLEDGEABLE AND EXPERIENCED FIELD PERSONNEL.
- 5. STACK ERODABLE LANDSCAPE MATERIAL ON PALLETS AND COVERING OR STORING SUCH MATERIALS WHEN NOT BEING USED OR APPLIED.

VEHICLE STORAGE AND MAINTENANCE 1. MEASURES SHALL BE TAKEN TO PREVENT OIL, GREASE, OR FUEL TO

- LEAK IN TO THE GROUND, STORM DRAINS OR SURFACES WATERS. 2. ALL EQUIPMENT OR VEHICLES, WHICH ARE THE BE FUELED, MAINTAINED AND STORED ONSITE SHALL BE IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMP'S.
- 3. LEAKS SHALL BE IMMEDIATELY CLEANED AND LEAKED MATERIALS SHALL BE DISPOSED OF PROPERLY. WASTE MANAGEMENT
- 1. DISPOSAL OF ANY RINSE OR WASH WATERS OR MATERIALS ON IMPERVIOUS OR PERVIOUS SITE SURFACES OR INTO THE STORM DRAIN SYSTEM SHALL BE PREVENTED. 2. SANITATION FACILITIES SHALL BE CONTAINED (E.G., PORTABLE TOILETS)
- TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER, AND SHALL BE LOCATED A MINIMUM OF 20 FEET AWAY FROM AN INLET, STREET OR DRIVEWAY,
- STREAM, RIPARIAN AREA OR OTHER DRAINAGE FACILITY. 3. SANITATION FACILITIES SHALL BE INSPECTED REGULARLY FOR LEAKS AND SPILLS AND CLEANED OR REPLACED AS NECESSARY. 4. COVER WASTE DISPOSAL CONTAINERS AT THE END OF EVERY BUSINESS
- DAY AND DURING A RAIN EVENT. 5. DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE STORM WATER
- DRAINAGE SYSTEM OR RECEIVING WATER SHALL BE PREVENTED. 6. STOCKPILED WASTE MATERIAL SHALL BE CONTAINED AND SECURELY PROTECTED FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING
- USED. 7. PROCEDURES THAT EFFECTIVELY ADDRESS HAZARDOUS AND NON-HAZARDOUS SPILLS SHALL BE IMPLEMENTED.
- 8. EQUIPMENT AND MATERIALS FOR CLEANUP OF SPILLS SHALL BE AVAILABLE ON SITE AND THAT SPILLS AND LEAKS SHALL BE CLEANED
- UP IMMEDIATELY AND DISPOSED OR PROPERLY; AND 9. CONCRETE WASHOUT AREAS AND OTHER WASHOUT AREAS THAT MAY CONTAIN ADDITIONAL POLLUTANTS SHALL BE CONTAINED SO THERE IS NO DISCHARGE INTO THE UNDERLYING SOIL AND ONTO THE SURROUNDING AREAS.

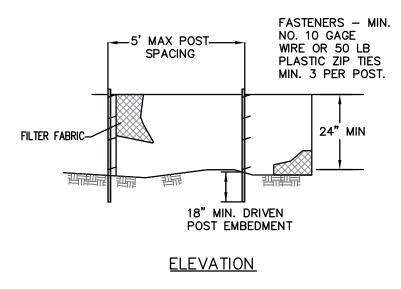
EROSION CONTROL MEASURES

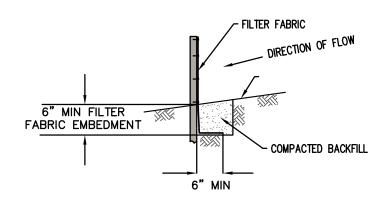
- EROSION IS TO BE CONTROLLED AT ALL TIMES ALTHOUGH SPECIFIC MEASURES SHOWN ARE TO BE IMPLEMENTED AT A MINIMUM BY OCTOBER 15.
- UNLESS SPECIFIC MEASURES ARE SHOWN OR NOTED ON 2. THIS PLAN, ALL COLLECTED RUNOFF SHALL BE CARRIED TO DRAINAGE COURSES IN LINED CONDUITS. DISCHARGE SHALL BE IN THE LOCATIONS SHOWN ON THE PLANS.
- 3. THE DESIRED END RESULT OF THESE MEASURES IS TO CONTROL SITE EROSION AND PREVENT SEDIMENT TRANSPORT OFF THE SITE. IT SHALL BE THE DEVELOPER'S RESPONSIBILITY TO SEE THAT ANY ADDITIONAL MEASURES NECESSARY TO MEET THIS GOAL ARE IMPLEMENTED. IF FAILED INSPECTIONS BY COUNTY STAFF SHOW THIS GOAL IS NOT BEING MET, ADDITIONAL MEASURES MAY BE REQUIRED.
- 4. ALL DISTURBED AREAS NOT CURRENTLY BEING USED FOR CONSTRUCTION SHALL BE SEEDED WITH THE FOLLOWING SEED MIXTURE:
 - WINTER BARLEY 25#/ACRE
- 5. AFTER SEEDING, STRAW MULCH WILL BE APPLIED IN 4" (AVG.) LAYERS.
- 6. AMMONIUM PHOSPHATE FERTILIZER, 6-3-3, SHALL BE APPLIED AT A RATE OF 30 LBS. PER ACRE. ON SLOPES GREATER THAN 20% EROSION CONTROL BLANKET (NORTH AMERICAN GREEN) SHALL BE APPLIED.
- 7. SILT BARRIERS SHALL BE PLACED END TO END AND STAKED DOWN ALONG THE BOTTOM OF ALL GRADED SLOPES.
- 8. DURING DRY AND WINDY PERIODS, DISTURBED SOIL SHALL BE SPRINKLED WITH WATER UNTIL DAMPENED AND REPEATED AS NEEDED TO PREVENT DUST GENERATION.

ALL EROSION CONTROL MEASURES INCLUDING BUT NOT LIMITED TO SILT FENCES, FIBER ROLLS AND SLOPE PROTECTION SHALL BE IN PLACE BY OCTOBER 15TH. THE ENGINEER OF RECORD SHALL INSPECT ONCE EROSION CONTROL MEASURES HAVE BEEN INSTALLED.

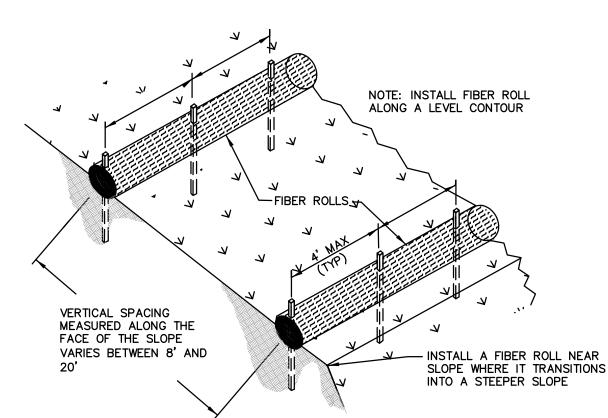
EXPOSED SLOPE MEASURES

- 1. COVER ALL EXPOSED SLOPES
- 2. STRAW 2 TONS/ACRE ON SLOPES \leq 20% WITH SOIL BINDER
- 3. USE NORTH AMERICAN GREEN C125 OR EQUAL ON SLOPES >20%.

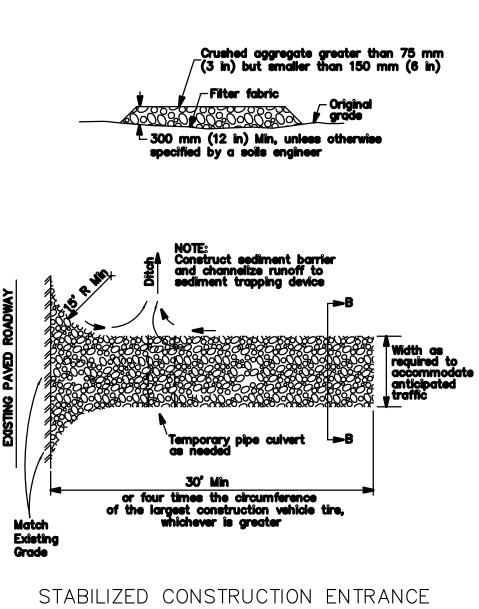




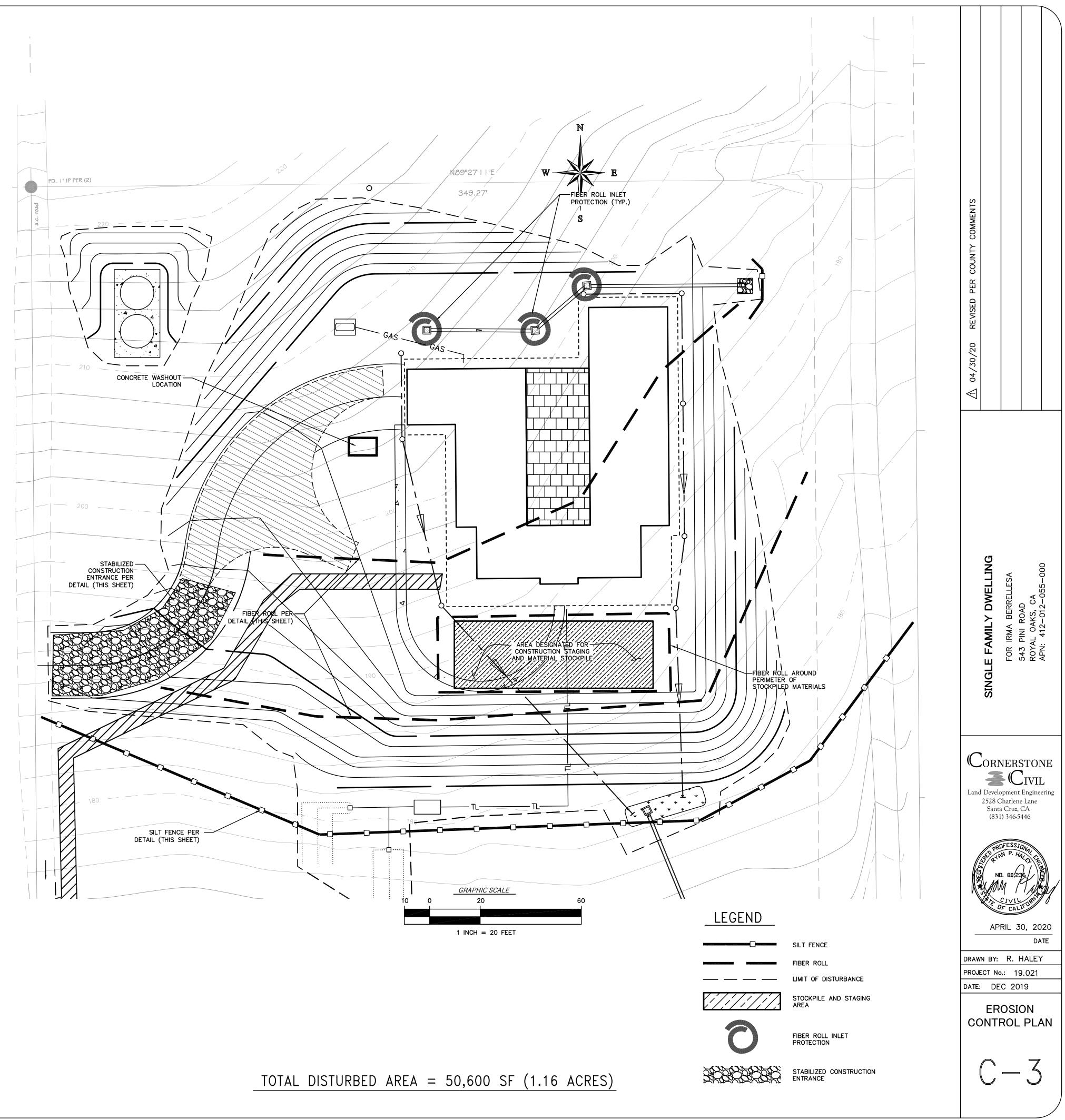
SILT FENCE DETAIL



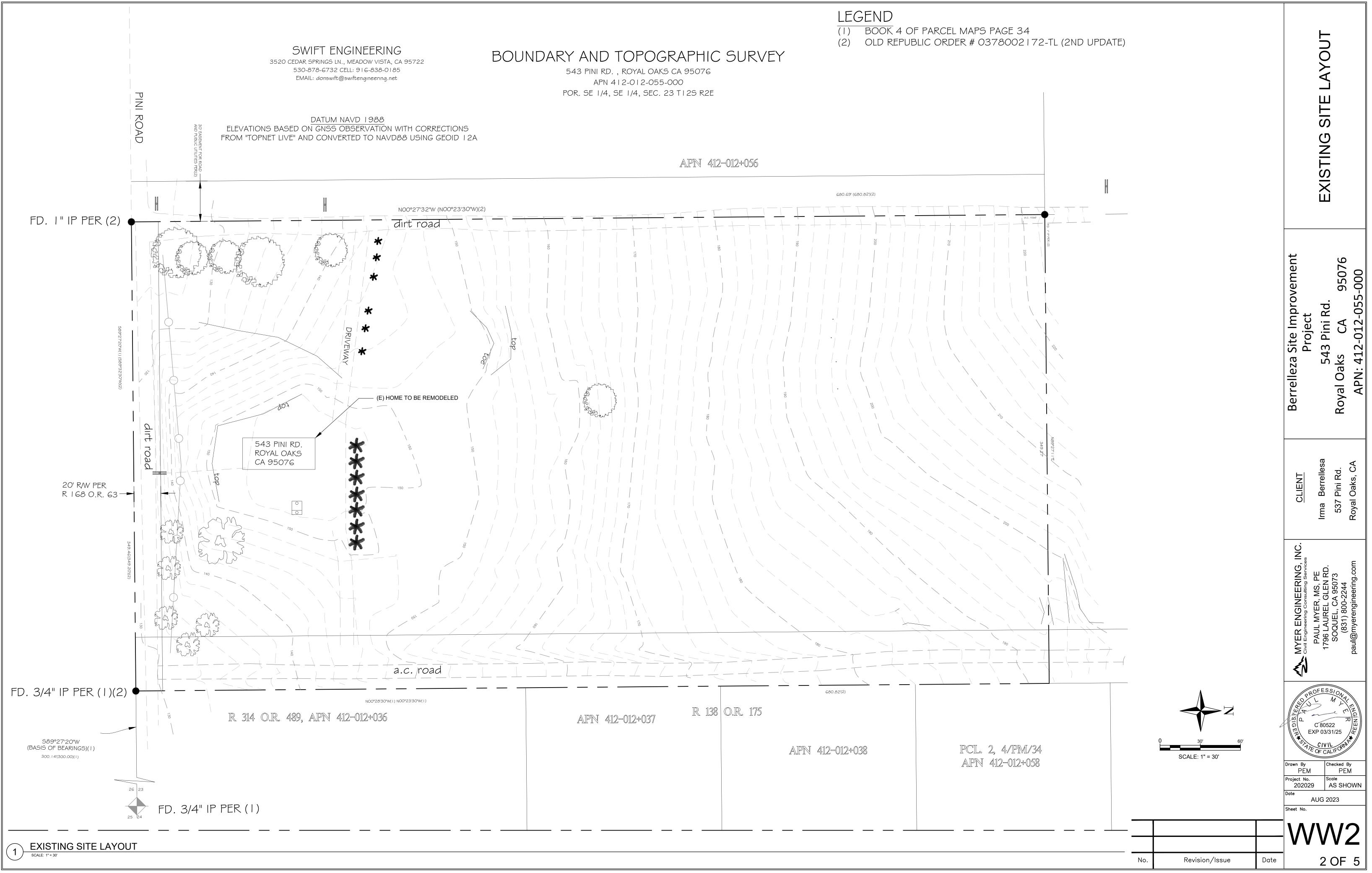
TYPICAL FIBER ROLL INSTALLATION NTS

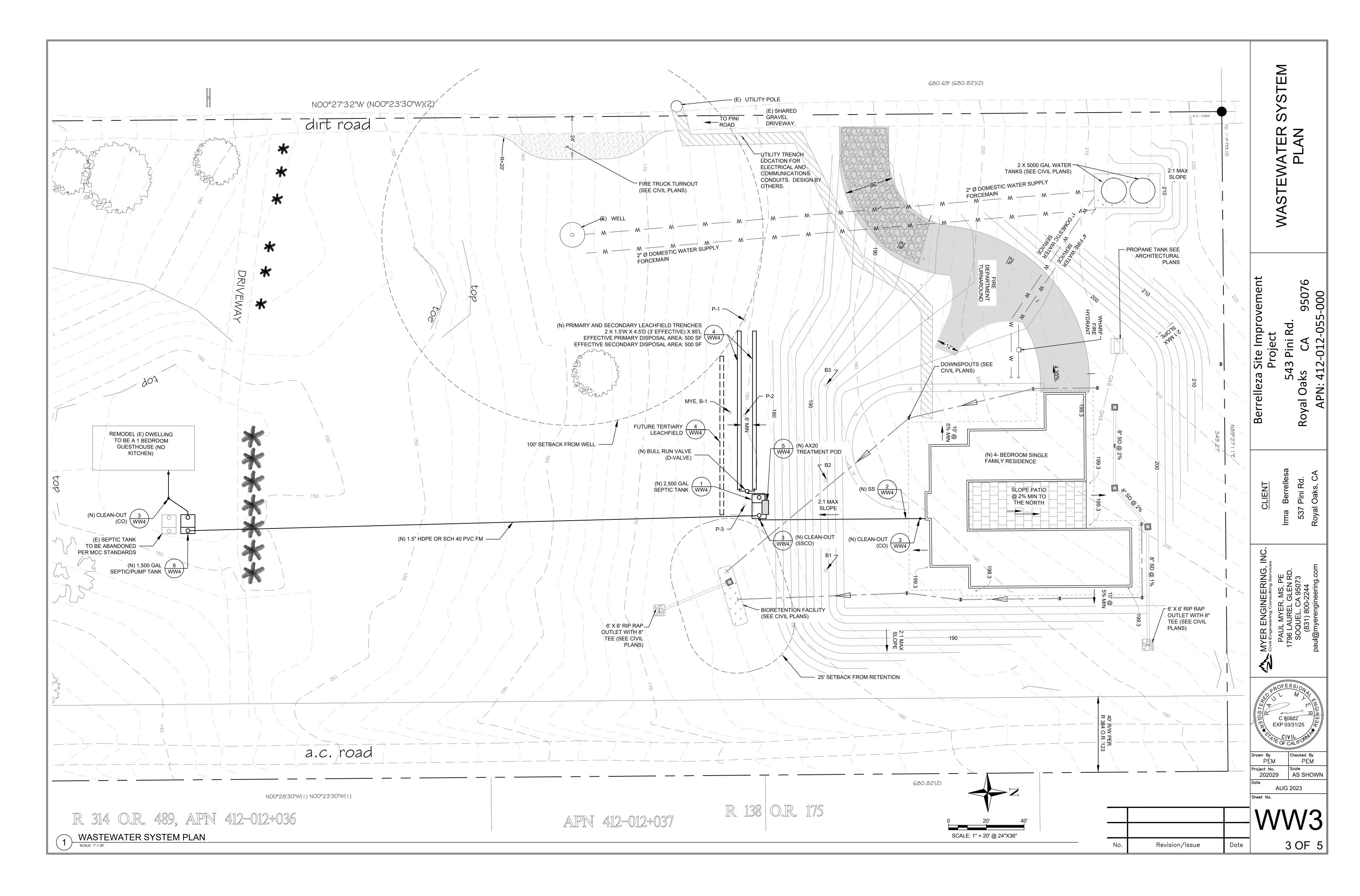


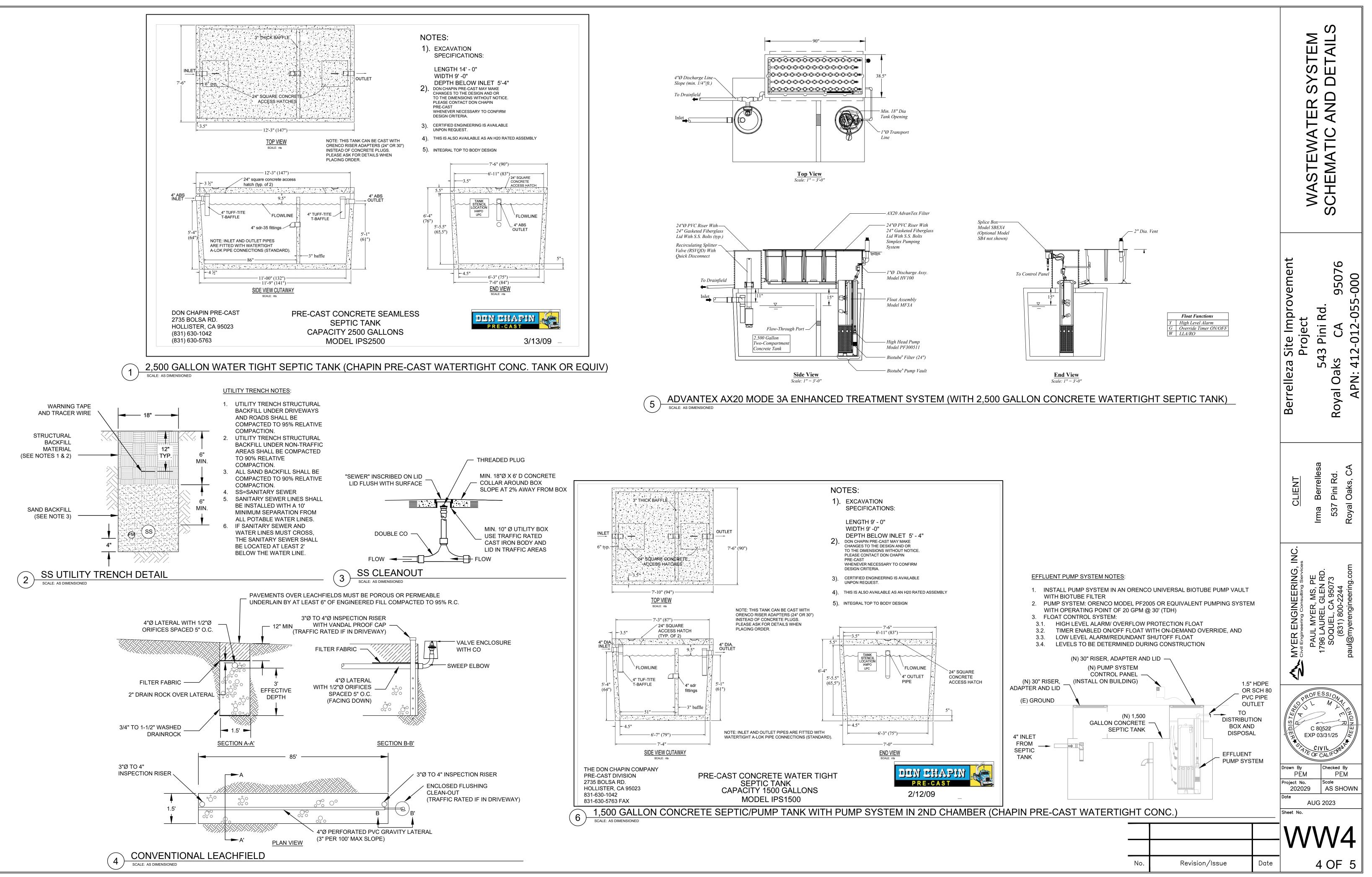
NTS



ABBREVIATIONS		CIVIL SYMBOLS LEGEND		GENERAL SHEET NOTES	
DIAMETER	MAX MAXIMUM	SURVEY TOPO AND SITE IMPROVEMENTS	ANNOTATION	1. ABBREVIATIONS AND SYMBOLS ON THIS SHEET APPLY ONLY TO THE	_
AGGREGATE BASE	MEP MECHANICAL/ELECTRICAL/PLUMBING MH MANHOLE			CIVIL DRAWINGS, REFER TO OTHER DISCIPLINES FOR APPLICABLE ABBREVIATIONS AND SYMBOLS NOT PROVIDED HERE.	
ABANDONED ACRE, ASPHALT CONCRETE	MIN MINIMUM MIPT MALE IRON PIPE THREAD	6" CURB & GUTTER SDLO STORM DRAIN CLEANOUT		 THIS IS A STANDARD ABBREVIATION AND LEGEND SHEET, THEREFORE, SOMEABBREVIATIONS AND LEGEND SYMBOLS MAY APPEAR ON THIS 	
ASBESTOS CEMENT PIPE ASBESTOS CONTAINING MATERIAL	MJ MECHANICAL JOINT MPVC MIDPOINT OF VERTICAL CURVE	EDGE OF AC PAVEMENT	1 DEMOLITION NOTE	SHEET AND MAY NOT BE UTILIZED ON THIS PROJECT. 3. DO NOT SCALE DRAWINGS.	
AREA DRAIN AGGREGATE	MON MONUMENT	6" VERTICAL CURB		4. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE	<u>්</u>
ALIGNMENT	N NORTHING COORDINATE	DW DOMESTIC WATER MAIN HVE HIGH VOLTAGE ELECTRIC	C DETAIL NUMBER	CURRENTLY REQUIRED VERSION OF THE FOLLOWING CODE: 4.1. CALIFORNIA BUILDING CODE	L C
AIR RELEASE VALVE AGGREGATE SUBBASE	(N) NEW NC NORMALLY CLOSED	E ELECTRIC LINE (T) TELEPHONE MANHOLE	$\begin{pmatrix} 1 \\ 0.501 \end{pmatrix}$	 4.2. CALIFORNIA PLUMBING CODE 4.3. CALIFORNIA MECHANICAL CODE 	
ASPHALT	NIC NOT IN CONTRACT NO NUMBER	FL FLUSH LINE Ø POWER POLE		4.4. CALIFORNIA ELECTRICAL CODE4.5. ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND	
BEGIN CURVE BEGIN	NTS NOT TO SCALE	FM	SHEET NUMBER ON WHICH SHEET NUMBER ON WHICH DETAIL APPEARS SECTION APPEARS	ORDINANCES 5. NOTHING ON THE ENCLOSED DRAWINGS IS TO BE CONSTRUED AS	
BACK FLOW PREVENTER BUILDING CORNER	OHE OVERHEAD ELECTRIC		DETAIL INDICATOR SECTION INDICATOR	REQUIRING OR PERMITTING WORK THAT IS CONTRARY TO THE CODES, ORDINANCES, OR REGULATIONS DESCRIBED ABOVE.	U U
BUILDING BEST MANAGEMENT PRACTICES	O.R. OFFICIAL RECORDS			6. ANY DEVIATIONS FROM THE PROPOSED PLANS SHALL BE DISCUSSED WITH THE PROJECT ENGINEER PRIOR TO MAKING CHANGES IN THE	
BOTTOM OF DOCK	(P) PROPOSED P PAVEMENT ELEVATION	OH ──── OVERHEAD WIRES → ELECTROLIER	SITE VICINITY	FIELD.	
BOLLARD BACK OF SIDEWALK	PA PLANTER AREA		Corner		
BEGIN VERTICAL CURVE FINISHED GRADE AT BOTTOM OF WALL	PB PULL BOX PCC POINT OF COMPOUND CURVATURE		1 Watsonville (129)	INDEX	
CONCRETE OR CIVIL	PORTLAND CEMENT CONCRETE PE PLAIN END			gan	
CATCH BASIN CURB AND GUTTER	PED PEDESTRIAN PERF PERFORATED		ort		
CURB, GUTTER & SIDEWALK CAST IRON OR CURB INLET	PH POTHOLE PID POINT ID	SANITARY SEWER LINE CI PEDESTRIAN PUSH BUTTO	ON phylle Aromas	WASTEWATER SHEETS	lt
CAST IRON PIPE	PIV POST INDICATOR VALVE	SD STORM DRAIN LINE O DET CROSSWALK DETECTOR		NO. SHEET TITLE	ler
CENTERLINE CLEAR	PL PROPERTY LINE PM PARKING METER	SL STREET LIGHT CONDUIT SL STREET LIGHT PULLBOX			
CONTROLLED LOW-STRENGTH MATERIAL COMMUNICATION	PMH POWER MANHOLE PO PUSH-ON	c TELECOMMUNICATIONS SIGN (AS NOTED)	Las Lomas	1 WW 1 COVER SHEET	
CORRUGATED METAL PIPE CLEAN OUT	POC POINT ON CURVE POI POINT OF INTERSECTION	TEL TELEPHONE LINE THRUST BLOCK	PROJECT		prc.
CONCRETE CONSTRUCTION OR CONSTRUCT	PP POWER POLE PRC POINT OF REVERSE CURVATURE	TV TELEVISION LINE	N SITE	2 WW 2 EXISTING SITE LAYOUT	i R
CONFORM TO EXISTING	PRV PRESSURE REDUCING VALVE	GATE VALVE		3 WW 3 WASTEWATER SYSTEM PLAN	e ll oje
CITY OF SANTA CLARA CUBIC	PRUE PRIVATE UTILITY EASEMENT PT POINT OF TANGENCY	UNDERGROUND ELECTRIC BUTTERFLY VALVE	Elkhorn	§	
CUBIC YARD	PUEPUBLIC UTILITY EASEMENTPVCPOLYVINYL CHLORIDE PIPE	Image: State intervision of the state intervisio		4 WW 4 WASTEWATER SYSTEM SCHEMATIC AND DETAILS	a Si P
DELTA (CURVE) DOUBLE CHECK DETECTOR ASSEMBLY	R RIGHT			E WASTEWATER SYSTEM SPECIFICATIONS	6 S
DEMOLISH DEPARTMENT	R= RADIUS (CURVE) RC RELATIVE COMPACTION			5 WWV 5 (AND EROSION CONTROL NOTES)	elle
DETAIL DROP INLET, DUCTILE IRON	RCP REINFORCED CONCRETE PIPE RJ RESTRAINED JOINT		SITE LOCATION		
DIAMETER	RP RADIUS POINT	- × - CHAIN LINK FENCE BALL VALVE			Be
DUCTILE IRON PIPE DOMESTIC	RPBFPREDUCED PRESSURE BACKFLOW PREVENTERRPPA REDUCED PRESSURE PRINCIPLE ASSEMBLYRPAEDUCED PRESSURE PRINCIPLE ASSEMBLY			PROJECT DESIGN AND OPERATION NOTES	
DOMESTIC WATER DRAWING	RSC RECEIVING AND SUPPORT CENTER RW RECYCLED WATER	# CONTOUR ELEVATION LINE 🕅 SOLENOID VALVE		DESIGN FLOWS, VOLUMES, AND TREATMENT FACILITY TYPE: RESIDENTIAL	
EASTING COORDINATE, ELECTRIC	R/W, ROW RIGHT OF WAY	CENTER LINE		UNIT FLOW BASIS: # OF BEDROOMS # OF UNITS: NEW 4 BEDROOM SFD AND REMODELED 1 BEDROOM GUESTHOUSE	
END CURVE EXISTING GRADE	S SOUTH, SLOPE S.A.D. SEE ARCHITECTURAL DRAWINGS	PROPERTY LINE PRESSURE REGULATOR	P	DESIGN FLOWS: 600 GPD TREATMENT CATEGORY: ALTERNATIVE (AX20 TREATMENT POD)	-
ELEVATION ELECTRICAL	SD STORM DRAIN SDCB STORM DRAIN CATCH BASIN		Pin	NEW SEPTIC TANK VOLUMES: 1,500 & 2,500 GALLONS WASTEWATER STRENGTH: DOMESTIC RESIDENTIAL STRENGTH	esse .
EDGE OF PAVEMENT EMERGENCY VEHICLE ACCESS	SDI STORM DRAIN OATOTTDAOIN SDI STORM DRAIN INLET SDMH STORM DRAIN MANHOLE	EASEMENT LINE ISOLATION VALVE	N	DOMESTIC STRENGTH DEFINITION: <220 MG/L BOD, <60 MG/L TSS, <60 MG/L TN	
, EXISTING	SDCO STORM DRAIN CLEANOUT	$- \frac{\frac{TC 24.52}{FG}}{FG}$ FINISH GRADE $\rightarrow \bigcirc$ CHECK VALVE		SOIL TESTING RESULTS AND DISPOSAL DESIGN THE FOLLOWING SOILS INFORMATION WAS EXTRACTED FROM THE "SOIL INVESTIGATION REPORT" PREPARED BY GMD ENGINEERS, DATED DECEMBER 1, 2019 (GMD 2019034). LOCATIONS AND BORING LOGS FOR THE SOIL	Bei E
	S.E.D. SEE ELECTRICAL DRAWINGS SF SILT FENCE	2.0% SURFACE DRAINAGE SLOPE SLOPE	SITE	BORINGS ARE PROVIDED IN THE SOIL INVESTIGATION REPORT: BORINGS ARE PROVIDED IN THE SOIL INVESTIGATION REPORT:	ية O
FUTURE FIRE ALARM	SG SUBGRADE SHLDR SHOULDER			6" TO 12" = ORGANIC SOILS AND ROOTS 2' TO 9' = DARK BROWN CLAYEY SAND, DENSE	
FACE OF CURB FOUND	SHT SHEET SL STREETLIGHT			9' TO 15' = DARK BROWN CLAYEY SAND, VERY DENSE 15' TO 18' = SANDSTONE-GRAY TO ORANGE STAINING, FRACTURE, VERY DENSE	
FIRE DEPARTMENT CONNECTION FINISHED FLOOR ELEVATION	S.L.D. SEE LANDSCAPE DRAWINGS SMH SIGNAL MANHOLE		Pini Rd	BORING B-2: 6" TO 12" = ORGANIC SOILS AND ROOTS	
FINISH GRADE FIRE HYDRANT	S.M.D SEE MECHANICAL DRAWINGS S.P.D SEE PLUMBING DRAWINGS	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	F	2' TO 9' = DARK BROWN CLAYEY SAND, DENSE 9' TO 15' = DARK BROWN CLAYEY SAND, DENSE 15' TO 18' = SANDSTONE-GRAY TO ORANGE STAINING, FRACTURE, VERY DENSE	
FEMALE IRON PIPE THREAD FLOW LINE, FLANGE	SS SANITARY SEWER		G12	15' TO 18' = SANDSTONE-GRAY TO ORANGE STAINING, FRACTURE, VERY DENSE GROUNDWATER WAS NOT ENCOUNTERED TO A DEPTH OF 20', BUT GROUNDWATER INDICATORS ARE PRESENT AT 15'.	
FLANGE	SSD SUBSURFACE DRIP	GM GAS METER		THE FOLLOWING PERCOLATION TEST RESULTS WERE EXTRACTED FROM PERCOLATION TEST RESULTS PROVIDED BY GMD ENGINEERS:	RIN Been PE
FLOWMETER/FORCE MAIN FOUNDATION	SSCO SANITARY SEWER CLEANOUT SSFM SANITARY SEWER FORCE MAIN			TEST HOLE #1 (B1): DEPTH = 3.0', RATE = 9.23 MPI TEST HOLE #2 (B2): DEPTH = 5.0', RATE = 13.25 MPI	EEI sultin MS
FINISHED SURFACE FOOT, FEET	SSMH SANITARY SEWER MANHOLE SSPS SANITARY SEWER PUMP STATION		PROJECT DESCRIPTION	TEST HOLE #3 (B3): DEPTH = 7.0', RATE = 19.5 MPI AVERAGE RATE = 13.99 MPI	GINI GONI SEL (C
FIRE WATER	STA STATION STD STANDARD	WATER VALVE	GENERAL: NEW SEPTIC SYSTEM	MYER ENGINEERING OBSERVED THE SOIL CHARACTERISTICS OF A SOIL TEST BORING TO A DEPTH OF 9' BELOW	
GAS, GROUND ELEVATION GRADE BREAK	STL STEEL S/W SIDEWALK	WATER METER OR BFP		GROUND LEVEL (BGL). THE LOCATION OF THE BORING IS PROVIDED ON THE PROJECT DESIGN PLANS. THE FOLLOWING SOIL PROFILE WAS OBSERVED: MYE BORING B-1	NLA E
GALVANIZED IRON GROUND	SVP SILICON VALLEY POWER		BASIS: NEW SFD	MYE BORING B-1 6" TO 12" = ORGANIC SOILS AND ROOTS 1' TO 3' = TAN/BROWN SILTY SAND	
GATE VALVE	T TELEPHONE	FIRE DEPARTMENT CONNECTION		3' TO 5' = TAN/BROWN SILTY SAND 3' TO 5' = TAN/BROWN SILTY SAND WITH SOME CLAY 5' TO 9' = TAN/BROWN SILTY CLAYEY SAND, VERY DENSE, INCREASING DENSITY WITH DEPTH	
HOT MIX ASPHALT	TC TOP OF CURB TD TRENCH DRAIN	WATER TAPPING SADDLE		MYER ENGINEERING PREPARED 3 PERCOLATION TEST HOLES AT THE SITE. THE LOCATION OF THE TEST HOLES	<n< td=""></n<>
HORIZONTAL HEIGHT	TEL TELEPHONE TEMP TEMPORARY	SEWER MANHOLE		IS SHOWN ON THE DESIGN PLANS. THE PERCOLATION TEST WAS PERFORMED USING THE PROCEDURE OUTLINED IN THE MONTEREY COUNTY LOCAL AGENCY MANAGEMENT PROGRAM FOR ONSITE WASTEWATER TREATMENT	
HIGH POINT	TFC TOP FACE OF CURB THK THICK	SSMH SEWER CLEANOUT		SYSTEMS (MC LAMP) SOILS OBSERVED IN EACH OF THE PERCOLATION TEST HOLES WERE CONSISTENT WITH THE TEST BORINGS,	PROFES
INVERT INSTALL	TOD TOP OF DOCK TOE TOE OF SLOPE	 SEWER CLEANOUT SEWER LAMP HOLE 		INDICATING CONSISTENT SOIL TYPES IN THE PROPOSED DISPOSAL AREA. THE PERCOLATION TEST DATA IS ENCLOSED AS ATTACHMENT 1. THE RESULTS OF THE PERCOLATION TESTS ARE AS FOLLOWS:	
IRRIGATION	TW,TOW TOP OF WALL TS TOP OF SLAB			TEST HOLE #1 (P-1): DEPTH = 5', RATE = 3.95 MPI TEST HOLE #2 (P-2): DEPTH = 7', RATE = >120 MPI	11×
JOINT POLE JOINT TRENCH	TYP TYPICAL			TEST HOLE #2 (P-2). DEPTH = 7', RATE = 2120 MPI TEST HOLE #3 (P-3): DEPTH = 3', RATE = 3.18 MPI	C 805 EXP 03/3
	UON UNLESS OTHERWISE NOTED	SDMH STORM DRAIN MANHOLE		DESIGN AREA APPLICATION RATE: 1.2 GPD/SF REQUIRED EFFECTIVE LEACHING AREA: 500 SF	STATE CIVI
LEFT LENGTH (CURVE)	U/G UNDERGROUND	CATCH BASIN		DESIGN PRIMARY EFFECTIVE LEACHING AREA: 500 SF DESIGN SECONDARY EFFECTIVE LEACHING AREA: 500 SF	TE OF CH
LINEAR FEET LATERAL	VC VERTICAL CURVE			WATER SUPPLY: PRIVATE WELL	Drawn By C PEM
LIP OF GUTTER LIGHT POLE, LOW POINT	W WEST, WATER WM WATER METER			OWNER IS RESPONSIBLE FOR GENERAL OPERATION AND MAINTENANCE OF THE WASTEWATER/SEPTIC SYSTEM	Project No. S
FIRE HYDRANT LANDSCAPE	WV WATER VALVE			THE SEPTIC/WASTEWATER SYSTEM SHALL BE INSTALLED BY A QUALIFIED PROFESSIONAL.	202029 Date
LANDSCAPE LANDSCAPE ARCHITECT	WWF WELDED WIRE FABRIC W/ WITH				AUG 2 Sheet No.
MEDICAL AIR	YDS YARDS				







GENERAL SPECIFICATIONS

THE FOLLOWING SPECIFICATIONS ARE FOR THE INSTALLATION OF THE ENHANCED WASTEWATER TREATMENT SYSTEM AT THE LOCATION SPECIFIED IN THE BORDER OF THESE DESIGN PLANS. THE ACCOMPANIED PLANS PRESENT THE GENERAL LAYOUT, PLUMBING CONFIGURATION, AND CONSTRUCTION DETAILS.

MATERIAL SPECIFICATIONS

THE FOLLOWING ARE MATERIAL SPECIFICATIONS FOR THE WASTEWATER SYSTEM COMPONENTS. ALL MATERIALS USED FOR THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS AND AS DESCRIBED IN THE ACCOMPANIED PLANS OR AN ENGINEER APPROVED EQUIVALENT.

1. SUBSURFACE TANKS

THE SUBSURFACE TANKS INCLUDE THE 2,500 GALLON CONCRETE WATER-TIGHT SEPTIC TANK, 1,500 GALLON CONCRETE WATER-TIGHT SEPTIC/PUMP TANK AND THE ORENCO ADVANTEX AX20 TREATMENT POD.

- 1.1. 2,500 GALLON CONCRETE WATER-TIGHT SEPTIC TANK AND AX20 TREATMENT POD. THE SYSTEM SHALL BE CAPABLE OF TREATING DESIGN FLOW OF AT LEAST 600 GPD. DIMENSIONS, FITTING SIZES AND LOCATIONS, AND OPTIONAL ACCESSORIES SHALL BE INCLUDED AS SHOWN ON TANK DRAWINGS. THE TANK SHALL BE WATERTIGHT AND TESTED IN THE FIELD AFTER INSTALLATION.
- 1.2. PRODUCT STORAGE. THE SUBSURFACE TANKS SHALL BE CAPABLE OF STORING SEPTAGE LIMITED TO THE COLLECTION AND STORAGE OF HUMAN SOLID OR LIQUID ORGANIC WASTE.
- 1.3. PIPING. SDR35 PVC PIPE, SCHEDULE 40 PVC PIPE, OR ABS PIPE SHALL BE USED FOR INLET AND OUTLET PIPING AS SHOWN ON DRAWINGS. ALL PIPING SHALL BE FACTORY SEALED TO ENABLE FIELD TIGHTNESS TESTING WITH AT LEAST ONE PIPE OPENING PROVIDED WITH A THREADED FITTING FOR CONNECTING A PRESSURE TEST MANIFOLD.
- 1.4. ACCESS OPENINGS. ALL ACCESS OPENINGS SHALL BE 30 INCHES IN DIAMETER OR LARGER AS SHOWN ON THE PLANS, SHALL BE MANUFACTURED OF FIBERGLASS, CONCRETE OR CAST IRON WITH RESPECT TO SPECIFIED TRAFFIC RATING. LOCATIONS SHALL BE AS SHOWN ON TANK DRAWINGS. EACH MANHOLE SHALL HAVE A WATERTIGHT RISER TO FINISH GRADE.
- 1.5. RISERS. RISERS SHALL BE REQUIRED FOR ACCESS TO INTERNAL VAULTS AND ACCESS INTO THE TANKS FOR SEPTAGE PUMPING. ALL RISERS SHALL BE CONSTRUCTED WITH WATERTIGHT SEALS PROVIDED. RISERS SHALL BE A MINIMUM OF 30" IN NOMINAL DIAMETER WHEN THE DEPTH OF BURY IS 36" OR GREATER. TO ENSURE PRODUCT COMPATIBILITY, RISERS, LIDS, AND ATTACHMENT COMPONENTS SHALL BE SUPPLIED BY A SINGLE MANUFACTURER AND, WHERE APPLICABLE, SHALL BE FACTORY EQUIPPED WITH THE FOLLOWING:
 - 1.5.1. ADHESIVE. WHEN BONDING TO THE RISER RINGS, AN EPOXY PROVIDED BY THE MANUFACTURER SHALL BE USED. ADHESIVES AND SEALANTS SHALL BE WATERPROOF, CORROSION RESISTANT, AND APPROVED FOR THE INTENDED APPLICATION. THE RISER-TO-TANK CONNECTION SHALL BE WATERTIGHT AND STRUCTURALLY SOUND. THE RISER-TO-TANK CONNECTION SHALL BE CAPABLE OF WITHSTANDING A VERTICAL UPLIFT OF 5,000 POUNDS TO PREVENT RISER SEPARATION DUE TO TANK SETTLEMENT, FROST HEAVE, AND VEHICLE TRAFFIC OVER THE TANK.
 - 1.5.2. LIDS. ONE LID SHALL BE FURNISHED WITH EACH ACCESS RISER. LIDS SHALL BE WATERPROOF, CORROSION RESISTANT, AND UV RESISTANT. LIDS SHALL BE FLAT, WITH NO NOTICEABLE UPWARD DOME. LIDS SHALL NOT ALLOW WATER TO POND ON THEM. LIDS SHALL FORM A WATERTIGHT SEAL WITH THE TOP OF RISER. TRAFFIC-RATED LIDS SHALL BE CAPABLE OF WITHSTANDING A TRUCK WHEEL LOAD (36 SQUARE INCHES) OF 2500 POUNDS FOR 60 MINUTES WITH A MAXIMUM VERTICAL DEFLECTION OF 1-1/2". LIDS SHALL BE PROVIDED WITH TAMPER-RESISTANT STAINLESS STEEL FASTENERS AND A TOOL FOR FASTENER REMOVAL. TAMPER-RESISTANT FASTENERS INCLUDE RECESSED DRIVES, SUCH AS HEX, TORX, AND SOUARE, FASTENERS THAT CAN BE REMOVED WITH COMMON SCREWDRIVERS, SUCH AS SLOTTED AND PHILLIPS, OR FASTENERS THAT CAN BE REMOVED WITH STANDARD TOOLS. SUCH AS PLIERS OR CRESCENT WRENCHES, ARE NOT CONSIDERED TAMPER-RESISTANT. TO PREVENT A TRIPPING HAZARD, FASTENERS SHALL NOT EXTEND ABOVE THE SURFACE OF THE LID.
 - 1.5.3. RISER INSTALLATION. RISER INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

2. PIPING AND FITTINGS

THE TYPE OF PIPE MATERIALS AND FITTINGS SHALL BE AS DESIGNATED ON THE PLANS AND SHALL COMPLY WITH THE FOLLOWING:

2.1. FITTINGS AND COUPLINGS THE FITTINGS AND COUPLINGS FOR PVC PIPES SHALL BE THREADED OR SLIP-FITTED TAPERED SOCKET SOLVENT WELD. THREADED ADAPTERS SHALL BE PROVIDED WITH SOCKET PIPE FOR CONNECTIONS TO THREADED PIPE.

VALVES

3.1. GENERAL VALVES SHALL BE OF THE SIZE, TYPE, AND CAPACITY DESIGNATED ON THE PLANS OR IN THE SPECIFICATIONS AND SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED HEREIN. ALL VALVES ON PRESSURIZED PORTIONS OF THE SYSTEM SHALL BE CAPABLE OF SATISFACTORY PERFORMANCE AT WORKING PRESSURE OF 150 PSI. ALL VALVES ON GRAVITY PORTIONS OF THE SYSTEM SHALL BE RATED FOR AT LEAST TWICE THE ESTIMATED STATIC HEAD ABOVE THE VALVE. VALVES SHALL BE DESIGNED TO PERMIT DISASSEMBLY TO REPLACE SEALING COMPONENTS WITHOUT REMOVAL OF THE VALVE BODY FROM THE PIPELINE, SUCH AS TRUE UNION BALL VALVES AND CHECK VALVES.

4. ADDITIONAL COMPONENTS

ALL COMPONENTS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. IF THERE IS A CONFLICT BETWEEN MANUFACTURER RECOMMENDATIONS, AND THE DESIGN PLANS, THE PROJECT ENGINEER SHALL BE CONTACTED FOR APPROVAL OF INSTALLATION CONFIGURATION.

5. LEACHFIELDS

THE LEACHFIELD SYSTEM SHALL PROVIDE ADDITIONAL TREATMENT AND DISPOSAL OF THE WASTEWATER. THE SYSTEM SHALL BE CONSTRUCTED AS SHOWN ON PLANS.

5.1. CLEAN DRAIN ROCK THE DRAIN ROCK SHALL BE LOCATED AS SHOWN IN THE ACCOMPANYING PLANS. THE ROCK SHALL BE CLEAN, DOUBLE WASHED GRAVEL RANGING FROM 3/4"Ø TO 1-½"Ø WITH FINES LESS THAN 1%.

5.2. FILTER FABRIC

THE FILTER FABRIC SHALL BE PLACED ON TOP OF THE GRAVEL ROCK BED. THE FABRIC SHALL BE A GEOTEXTILE SYNTHETIC FILTER FABRIC SUCH AS MIRAFI 1100N, DUPONT TYPAR (4 OR 6 OZ/SQ YD), OR APPROVED EQUIVALENT. THE FABRIC SHALL COVER AN AREA SUCH THAT IT EXTENDS 1 FOOT BEYOND THE TRENCH IN EACH DIRECTION.

5.3. SOIL COVER

THE SOIL COVER SHALL BE PLACED OVER THE LEACHFIELDS TO REDUCE EROSION AND SLOPE INSTABILITY. THE SOIL SHALL BE A SANDY LOAM TO INCREASE THE POTENTIAL FOR AIR THROUGH THE DEPTH OF THE SOIL. THE SOIL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION IN LANDSCAPE AREAS AND 95% RELATIVE COMPACTION IN DRIVEWAYS AND ROADWAYS.

CONSTRUCTION SPECIFICATIONS

THE CONSTRUCTION OF THE PROJECT SHALL CONFORM TO THE PLANS AND FOLLOWING SPECIFICATIONS. ALL NECESSARY CONSTRUCTION PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ALL SITE WORK.

1. PRECONSTRUCTION CONFERENCE

THE CONTRACTOR SHALL HAVE A PRECONSTRUCTION MEETING WITH THE ENGINEER AND OWNER AT LEAST ONE WEEK PRIOR TO COMMENCEMENT OF SITE WORK. THE ENGINEER SHALL BE CONTACTED 48 HOURS PRIOR TO THE MEETING CONFERENCE. THE MEETING SHOULD BE CONDUCTED TO REVIEW THE DESIGN, MATERIAL, AND CONSTRUCTION SPECIFICATIONS. ALL CONTRACTOR PROPOSED REVISIONS IN THE DESIGN SHALL BE APPROVED BY THE ENGINEER. THE INSTALLATION MUST BE INSPECTED BY THE ENGINEER FOR CONFORMANCE TO THE DESIGN.

2. STAKING

THE CONTRACTOR WILL PROVIDE SUFFICIENT HORIZONTAL AND VERTICAL CONTROL FOR INSTALLATION OF THE WORK AT DATUM POINTS NECESSARY TO ESTABLISH ALIGNMENT AND GRADE. THE PROTECTION AND

3. EXCAVATION

THE CONTRACTOR SHALL TAKE EXTRA PRECAUTION WHERE EXCAVATION EQUIPMENT MAY ENCOUNTER EXISTING UNDERGROUND UTILITIES AND OTHER FACILITIES OF ANY NATURE. CONTRACTOR SHALL PERSON HIS OPERATION IN SUCH A MANNER AND SHALL EXERCISE THE GREATEST OF CARE SO AS NOT TO INJURE IN ANY MANNER EXISTING UNDERGROUND UTILITIES, MAINS OR FACILITIES OF ANY NATURE. SHOULD THE CONTRACTOR INJURE. BREAK OR DAMAGE EXISTING UNDERGROUND UTILITIES, MAINS, OR FACILITIES OF ANY NATURE IN ANY MANNER, THEY SHALL REPAIR THE SAME AT THEIR OWN EXPENSE. IF IT DOES NOT APPEAR FEASIBLE THAT THE CONTRACTOR CAN MAKE NEEDED REPAIRS, THEN SUCH REPAIRS SHALL BE MADE BY THE OWNER AND THE CONTRACTOR SHALL BE CHARGED FOR SUCH REPAIRS.

4. POLLUTION CONTROL

4.1. WATER POLLUTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL PERMITTING REQUIREMENTS RELEVANT TO THE CONSTRUCTION OF THE PROJECT ARE MET AT ALL TIMES. ACTIONS BY THE CONTRACTOR, THE SUBCONTRACTORS OR EMPLOYEES THEREOF RESULTING IN NONCOMPLIANCE OF PERMITTING REQUIREMENTS MAY BE GROUNDS FOR TERMINATION OF THIS CONTRACT.

4.2. NOISE POLLUTION ACTIVITIES, AS LOW AS POSSIBLE.

4.3. SOIL CONTAMINATION THE CONTRACTOR SHALL NOT ALLOW REGULATED MATERIALS TO SPILL ON THE PROJECT SITE. ANY SPILLAGE OR REGULATED MATERIALS RESULTING FROM THE CONTRACTOR'S OPERATION SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

4.4. STORAGE OF REGULATED MATERIALS THE STORAGE AND USE OF ANY REGULATED MATERIALS SHALL MEET ALL REQUIREMENTS OF LOCAL, STATE. AND FEDERAL REGULATORY AGENCIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SATISFY THE REQUIREMENTS OF ANY REGULATORY AGENCY FOR THE STORAGE, MONITORING, USAGE, TRANSPORTATION, SAFETY, REPORTING, OR ANY OTHER REQUIREMENTS REGARDING THE MANAGEMENT OF REGULATED MATERIALS ON AND OFF THE PROJECT SITE.

5. SITE WORK

5.1. MOBILIZATION THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PREPARATORY WORK AND PLACEMENT OF MATERIALS IN A STAGING AREA REQUIRED FOR CONSTRUCTION OPERATIONS INCLUDING, BUT NOT LIMITED TO, THOSE NECESSARY FOR THE MOVEMENT OF PERSONNEL, EQUIPMENT, SUPPLIES, AND INCIDENTALS TO THE PROJECT SITE: FOR THE ESTABLISHMENT OF FACILITIES NECESSARY FOR WORK ON THE PROJECT: PROVIDING POLLUTION CONTROL MEASURES; AND FOR ALL OTHER WORK AND OPERATIONS WHICH MUST BE PERFORMED.

APPROVAL OF THE COUNTY.

5.2. CLEARING AND GRUBBING CLEAR THE SITE AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN THIS SECTION. CLEARING AND GRUBBING SHALL CONSIST OF ALL WORK INCLUDING, BUT NOT LIMITED TO, SALVAGED MATERIALS REMOVAL. PROVIDING AND INSTALLING TEMPORARY EROSION CONTROL, AND PLACEMENT OF TREES, TREE BRANCHES, TREE STUMPS, BRUSH, ROOTS, BOULDERS, SHRUBS, SEDIMENT, AND ALL OBJECTIONABLE MATERIALS IN AN AGREED UPON LOCATION ADJACENT TO THE WORK SITE.

EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE WORK OF THIS SECTION WILL BE PERFORMED. CORRECT CONDITIONS DETRIMENTAL TO TIMELY AND PROPER COMPLETION OF THE WORK. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS ARE CORRECTED.

ALL WASTES DISPOSAL SHALL BE CONDUCTED AS FOLLOWS: A. REMOVE WASTE FROM CLEARING OPERATIONS. B. DISPOSE OF AWAY FROM THE SITE IN A LEGAL MANNER. C. DO NOT STORE OR PERMIT DEBRIS TO ACCUMULATE ON THE JOB SITE. D. DO NOT BURN DEBRIS AT THE SITE.

6. DELETERIOUS MATERIALS

MATERIALS CONTAINING AN EXCESS OF 5% (BY WEIGHT) OF VEGETATION OR OTHER DELETERIOUS MATTER MAY BE UTILIZED IN AREAS OF LANDSCAPING OR OTHER NON-STRUCTURAL FILLS. DELETERIOUS MATERIAL INCLUDES ALL VEGETATIVE AND NON-MINERAL MATTER, AND ALL NON-REDUCIBLE STONE, RUBBLE AND/OR MINERAL MATTER OF GREATER THAN 6 INCHES.

7. UTILITY TRENCHES

A. A SELECT, NONCORROSIVE, GRANULAR, EASILY COMPACTED MATERIAL SHOULD BE USED AS BEDDING AND SHADING IMMEDIATELY AROUND UTILITY PIPES. THE SITE SOILS MAY BE USED FOR TRENCH BACKFILL ABOVE THE SELECT MATERIAL. IF OBTAINING COMPACTION IS DIFFICULT WITH THE SITE SOILS, USE OF A MORE EASILY COMPACTED SAND MAY BE DESIRABLE. THE UPPER FOOT OF BACKFILL IN LANDSCAPED OR OTHER OPEN AREAS SHOULD CONSIST OF NATIVE MATERIAL TO REDUCE THE POTENTIAL FOR SEEPAGE

OF WATER INTO THE BACKFILI

8. PIPE INSTALLATION

8.1. GENERA

PIPE SHALL BE JOINED BY SOCKET TYPE SOLVENT-WELDED FITTINGS OR THREADED FITTINGS. PLASTIC PIPE SHALL BE CUT SQUARE, EXTERNALLY CHAMFERED APPROXIMATELY 10 TO 15 DEGREES, AND ALL BURRS AND FINS REMOVED. SOLVENT-WELDED JOINTS SHALL BE MADE IN ACCORDANCE WITH ASTM D 2855. THE SOLVENT RECOMMENDED BY THE MANUFACTURER SHALL BE USED.

PREVIOUSLY MADE JOINTS IS AVOIDED. HANDLING OF THE PIPES FOLLOWING JOINTING, SUCH AS LOWERING MANUFACTURER.

THREADED PIPE JOINTS SHALL BE MADE USING TEFLON TAPE OR OTHER APPROVED JOINTING MATERIAL SOLVENT SHALL NOT BE USED WITH THREADED JOINTS. PLASTIC PIPE WHICH HAS BEEN NICKED, SCARRED, OR OTHERWISE DAMAGED SHALL BE REMOVED AND REPLACED. PLASTIC PIPE SHALL BE SNAKED FROM SIDE TO SIDE IN THE TRENCH TO ALLOW 1 FOOT OF EXPANSION AND CONTRACTION PER 100 FEET OF STRAIGHT RUN. THE PIPELINE SHALL NOT BE EXPOSED TO WATER FOR 24 HOURS AFTER THE LAST SOLVENT-WELDED JOINT IS

8.2 GRAVITY PIPE GRAVITY PIPE FOR WASTEWATER SHALL PROVIDE 2 FT VERTICAL AND 10 FT HORIZONTAL CLEARANCE FROM WATER LINES, AND SHALL CROSS SUCH LINES AS NEARLY AS POSSIBLE TO 90 DEGREES, IF CROSSING CAN NOT BE AVOIDED.

NOT ALLOWED.

MADE.

8.3 GENERAL TRENCHING EXCAVATION OF PIPE TRENCHES SHALL FOLLOW NEAT AND PARALLEL LINES, WITH TRENCH WIDTH, IN GENERAL, TO BE ONE FOOT, WITH SUCH WIDENING, AS REQUIRED TO PLACE VALVES AND FITTINGS WITH A MINIMUM OF 4 INCH CLEARANCE TO TRENCH WALL. THE TRENCH SHALL BE NO LESS THAN 24 INCHES DEEP, EXCEPT WHEN IT IS NECESSARY, TO AVOID UNDERGROUND OBSTRUCTIONS OR ROCKY CONDITIONS. IN ALL CASES, THE PIPE SHALL BE PLACED ON A BEDDING OF IMPORTED OR NATIVE MATERIAL PROVIDING CONTINUOUS SUPPORT THROUGHOUT ITS LENGTH.

BACKFILL FOR THE PIPE TO THE TOP OF THE PIPE PLUS 4 INCHES SHALL BE SELECTED OR IMPORTED SANDY

ALL EXCAVATION WORK SHALL BE MADE TO THE LINES, GRADES AND DIMENSIONS SHOWN IN THE ACCOMPANIED PLANS. EXCAVATIONS SHALL BE PERFORMED IN THE DAY AND IN A MANNER THAT MINIMIZES EROSION. FLOODING AND SEDIMENTATION. EXCAVATED SOILS THAT ARE TO BE STOCKPILED ON-SITE SHALL BE PLACED IN A LOCATION AND MANNER THAT MINIMIZES EROSION AND CONTROLS SEDIMENTATION.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP NOISE POLLUTION, DUE TO THESE CONSTRUCTION

THE CONTRACTOR SHALL PROVIDE MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR PROPER COMPLETION OF THE WORK OF THIS SECTION, AS SELECTED BY THE CONTRACTOR SUBJECT TO THE

B. TRENCH BACKFILL IN THE UPPER 12 INCHES OF SUBGRADE BENEATH AREAS TO RECEIVE PAVEMENT SHOULD BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY. TRENCH BACKFILL IN OTHER AREAS SHOULD BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY. JETTING OF UTILITY TRENCH BACKFILL SHOULD NOT BE ALLOWED.

CARE SHALL BE EXERCISED IN ASSEMBLING A PIPELINE WITH SOLVENT WELDED JOINTS SO THAT STRESS ON

THE ASSEMBLED PIPELINE INTO THE TRENCH, SHALL NOT OCCUR PRIOR TO THE SET TIMES SPECIFIED BY THE SOLVENTS SHALL BE APPLIED TO PIPE ENDS IN SUCH A MANNER THAT NO MATERIAL IS DEPOSITED ON THE

INTERIOR SURFACE OF THE PIPE OR EXTRUDED INTO THE INTERIOR OF THE PIPE DURING JOINTING. EXCESS CEMENT ON THE EXTERIOR OF THE JOINT SHALL BE WIPED CLEAN IMMEDIATELY AFTER ASSEMBLY.

PIPE SLOPES SHALL NOT BE LESS THAN 2% FOR 4"Ø PIPE. PIPES SHALL ENTER AND LEAVE CONNECTIONS AS CLOSE TO PARALLEL AS POSSIBLE, BUT IN NO WAY TO EXCEED AN ANGLE OF 45°. 90° TEE CONNECTIONS ARE

MATERIAL, FREE OF STONE, CLAY, LIMBS OR OTHER DELETERIOUS MATERIALS IN EXCESS OF 1/2 INCH MAXIMUM DIMENSION, PLACED AND TAMPED AND/OR PADDLED ABOUT THE PIPE TO ENSURE PROPER BEDDING PRIOR TO COMPLETION OF TRENCH FILL. THE REMAINING BACKFILL SHALL BE PLACED AT 90% RELATIVE COMPACTION.

9. FLUSHING AND TESTING

AFTER COMPLETION, ALL PIPELINES SHALL BE THOROUGHLY FLUSHED TO REMOVE DIRT, SCALE, OR OTHER MATERIAL. AFTER FLUSHING, THE LINE SHALL BE PRESSURE TESTED. ALL EQUIPMENT, MATERIALS AND LABOR NECESSARY TO PERFORM THE TESTS SHALL BE FURNISHED BY THE CONTRACTOR AND ALL TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE OWNER OR ENGINEER.

THE CONTRACTOR SHALL PERFORM A TEST TO DEMONSTRATE THAT THE TANKS AND BASINS ARE WATER TIGHT. THE INLET AND OUTLET PIPES OF THE TANKS SHALL BE CAPPED AND THE TANKS SHALL BE COMPLETELY FILLED WITH WATER. THE WATER LEVEL SHALL REMAIN CONSTANT FOR MORE THAN 24 HOURS, OR DURATION BY THE REVIEWING AGENCY JURISDICTION, WHICHEVER IS GREATER, TO DETERMINE IF IT IS WATER TIGHT.

10. OPERATIONAL TEST

THE PERFORMANCE OF ALL COMPONENTS OF THE SYSTEMS SHALL BE EVALUATED BY THE CONTRACTOR.

DURING THE TEST PERIOD AND AT LEAST 15 DAYS PRIOR TO FINAL INSPECTION, THE SYSTEM SHALL OPERATE SATISFACTORILY DURING SUCH PERIOD. ALL NECESSARY REPAIRS, REPLACEMENTS, AND ADJUSTMENTS SHALL BE MADE UNTIL ALL EQUIPMENT, ELECTRICAL WORK, CONTROLS, AND INSTRUMENTATION ARE FUNCTIONING IN ACCORDANCE WITH THE CONTRACTORS DOCUMENTS OR MANUFACTURER SPECIFICATIONS.

11. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A SET OF AS-BUILT DRAWINGS OF THE LAYOUT AND CONSTRUCTION OF THE SYSTEM.

12. OTHER ITEMS

ANY PROCEDURES NOT NOTED OR INCLUDED IN THE ENGINEERING PLANS OR SPECIFICATIONS SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO IMPLEMENTATION.

EROSION CONTROL NOTES: GENERAL THE CONTRACTOR SHALL INSTALL, MAINTAIN AND INSPECT EROSION CONTROL AND TEMPORARY STORMWATER CONTROL MEASURES TO CONTROL SEDIMENT AND RUNOFF IN ACCORDANCE WITH THESE PLANS AND THE LOCAL JURISDICTION. 1.1. THE CONSTRUCTION OF THIS PROJECT IS NOT EXPECTED TO OCCUR DURING THE WINTER SEASON (OCTOBER 15TH THROUGH APRIL 15TH). 1.2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL BMP INSTALLATION AND MAINTENANCE. 1.3. ALL GRADING SHALL CONFORM TO THE LOCAL GRADING ORDINANCE, EROSION CONTROL ORDINANCES, AND CALIFORNIA BUILDING CODE: 1.4. ALL DISTURBED SURFACES SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION AND TO ESTABLISH NATIVE OR NATURALIZED VEGETATIVE GROWTH COMPATIBLE WITH THE AREA. THIS CONTROL SHALL CONSIST OF: A. EFFECT TEMPORARY PLANTING SUCH AS RYE GRASS, SOME OTHER FAST-GERMINATION SEED, AND MULCHING WITH STRAW ANDORO THERE SLOPE STABILIZATION MATERIAL; B) PERMANENT PLANTING OF NATIVE OR NATURALIZED DROUGHT RESISTANT SPECIES OF SHRUBS, TREES, OR OTHER VEGETATION, ON SLOPES LESS THAN 20%, TOPSOIL SHOULD BE STOCKPILED AND REAPPLIED. SEED AND MULCH. ALL AREAS ON- AND OFF-SITE EXPOSED DURING CONSTRUCTION ACTIVITIES, IF NOT PERMANENT PLANTING OF THAN, SHALL BE PRECEDED BY MULCHING AND NO REAPPLIED. SEED AND MULCH. ALL AREAS ON- AND OFF-SITE EXPOSED DURING CONSTRUCTION ACTIVITIES, IF NOT PERMANENTLY LANDSCAPED PER PLAN, SHALL BE PROTECTED BY MULCHING AND/OR THAN D BROADCASTING OF THE FOLLOWING STERIL, WEED FREE, SEED MIX AND INCORPORATED OVER ALL DISTURBED SLOPES: BROMUS CARINATUS 10#/ACRE LEYMUS TRITCODES B#/AC.	WASTEWATER SYSTEM SPECIFICATIONS
HORDEUM BRACHYANTHERUM 5##AC. FESTUCA RUBRA 8#AC. THE MIX/APPLICATION SHALL ALSO CONTAIN: - FERTILIZER (6-3-3) SHALL BE HAND BROADCAST AND INCORPORATED AT 30-LB/ACRE OVER ENTIRE AREA. - MYCHORRHIZAL FUNGI SHALL BE ADDED AT 50 LB/ ACRE. - IF HYDROSEEDING, ADD MULCH AND TACKIFIER TO ABOVE. ALL EXCAVATED MATERIAL SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE OR DISPOSED OF ON-SITE IN A MANNER THAT WILL NOT CAUSE EROSION. CONCRETE WASHOUT. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, SAND WATERCOURSES. THE CONCRETE WASHOUT FACILITY SHALL BE BELOW GRADE AND CONSTRUCTED WITH A MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FEET. TEMPORARY CONCRETE FACILITIES SHALL BE CONSTRUCTED ADD MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASHED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTEG ENERATED BY WASHOUT OPERATIONS. THE WASHOUT SHALL BE REMOVED FOR THE WORK, THE HARDENED CONCRETE AND MATERIALS FOR THE WASHOUT SHALL BE REMOVED AND DISPOSED OF. HOLES, DEPRESSIONS, OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE CONCRETE WASHOUT SHOULD BE BACKFILLED AND REPARED. OTHER PROVISIONS. IF CONSTRUCTION OCCURS BETWEEN OCTOBER 15TH AND APRIL 15TH, EXPOSED SOIL NOT INVOLVED IN IMMEDIATE CONSTRUCTION ACTIVITY SHALL BE PROTECTED FROM EROSION AT ALL TIMES. AFTER APRIL 15TH, EROSION CONTROL MEASURES SHALL BE IN PLACE DURING INCLEMENT WEATHER. EROSION CONTROL MEASURES SHALL BE KEPT IN PLACE BY THE CONTRACTOR UNTIL NATIVE VEGETATION HAS BEEN ESTABLISHED AND PROVIDES NECESSARY SLOPE COVER (MINIMUM 70% COVER).	Berrelleza Site Improvement Project 543 Pini Rd. Royal Oaks CA 95076 APN: 412-012-055-000
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No. Revision/Issue	AUG 2023 Sheet No. Date 5 OF 5