

PUBLIC Public Works Agency Staff Report – Hearing on August 30th, 2019

VORKS
County of Ventura · Public Works Agency · Engineering Services Division
800 S. Victoria Avenue, Ventura, CA 93009-1670

Pinneo Discretionary Grading Permit, GP17-0019

A. PROJECT INFORMATION

- 1. Request: The applicant requests approval of a grading permit application (GP17-0019) to fill in an existing ravine with certified compacted fill to improve the current equestrian facilities.
- **2. Applicant/Property Owner:** Charles Pinneo, 15498 Lapeyre Court, Moorpark, CA, 93021.
- **3. Applicant's Representative:** Ralph Arnold, 1560 Newbury Road #103, Newbury Park, CA 91320.
- **4. Decision-Making Authority:** Pursuant to the 2016 Ventura County Building Code, Appendix J Grading, section J103, the Public Works Agency Director is the decision-maker for the requested Discretionary Grading Permit.
- **5. Project Site Size, Location, and Parcel Number:** The 10.29 acre project site is located at 15498 Lapeyre Court, near the intersection of Tierra Rejada Road and LaPeyre Road in the Moorpark area, of the unincorporated area of Ventura County. The Tax Assessor's parcel numbers for the parcels that constitute the project site are 594-0-030-110 and 594-0-030-125 (Exhibit 1).

6. Project Site Land Use and Zoning Designations:

- a. <u>Countywide General Plan Land Use Map Designation</u>: Open Space (Exhibit
 2)
- b. <u>Zoning Designation</u>: *OS-10 (Open Space, 10 acre minimum lot size -* Exhibit 2)

7. Adjacent Zoning and Land Uses/Development (Exhibit 2):

Location in Relation to the Project Site	Zoning	Land Uses/Development
North	OS-10 ac (Open Space, 10 acre minimum lot)	Single Family Residences and Equestrian Facilities
East	OS-10 ac (Open Space, 10 acre minimum lot)	Single Family Residences, Agricultural and, Nursery Facilities
South	OS-10 ac (Open Space, 10 acre minimum lot)	Single Family Residences and Equestrian Facilities

Location in Relation to the Project Site	Zoning	Land Uses/Development
West	OS-10 ac (Open Space, 10 acre minimum lot)	Single Family Residences and Equestrian Facilities

8. History: Mr. Charles Pinneo owns two adjacent parcels at the southerly terminus of Lapeyre Court in the Moorpark area. The larger of the parcels (APN 594-0-030-125) has a north to south trending ravine, central to the parcel. The adjacent parcel (APN 594-0-030-110) is relatively level. The two parcels currently contain a residence, a guest house, and supports a private equestrian facility.

This project is being proposed in order to better utilize the southern parcel to support the existing private equestrian usage.

9. Project Description: The project consists of cut and fill grading, as well as importing operations in order to fill in an existing ravine with certified compacted fill. A graded 2:1 (H:V) will be created along the southern portion and a level pad area at the northern portion of the site. The proposed improvements will be for equestrian purposes. Import operations will allow for between 30 to 40 round trip truck trips (maximum) per day, Monday through Friday.

B. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) COMPLIANCE

Pursuant to CEQA (Public Resources Code § 21000 et seq.) and the CEQA Guidelines (Title 14, California Code or Regulations, Division 6, Chapter 3, § 15000 et seq.), the proposed project is subject to environmental review.

County staff prepared an Initial Study in accordance with the County's Initial Study Assessment Guidelines. Based on the information contained in the Initial Study, the County prepared a Mitigated Negative Declaration (MND) and made the MND available for public review and comment from January 25th, 2019 to February 25th, 2019. The MND was made available on the County of Ventura, PWA-Development and Inspection Services website and at PWA's Public Front Counter, County of Ventura Hall of Administration at 800 S. Victoria Avenue, Ventura, CA 93009. A "Notice of Availability and Intent to Adopt a Mitigate Negative Declaration" was mailed to all landowners within 300 feet of the project site, notifying them of the public review period for the MND. The notice was posted with the Ventura County Recorder's office and on two "Public Notices" boards at the County of Ventura's Hall of Administration on January 18th, 2019, and a legal notice was placed in the Ventura County Star on January 24th, 2019. A Notice of Intent to Adopt An MND was sent to the State Clearing House on January 22nd, 2019 (SCH#: 2019011052).

A MND is a written statement briefly describing the reasons that a proposed project will not have a significant effect on the environment and therefore does not require the preparation of an Environmental Impact Report. The Initial Study identified one potentially significant effect on the environment, but proposals made by, or agreed to by, the

applicant before the MND was released for public review would avoid the effects or mitigate the effects to a point where no significant effect on the environment would occur. More specifically, the MND identified concerns with biological resources, scenic resources and community character.

1. Findings for Adoption of an MND: The CEQA Guidelines [§ 15074(b)] state that a MND shall only be adopted by a decision-making body if there is no substantial evidence, in light of the whole record, that the proposed project may have a significant adverse effect on the environment and that the MND reflects the Lead Agency's independent judgment and analysis.

Therefore, based on the information provided above and in light of the whole record, there is no substantial evidence that the proposed project may have a significant adverse effect on the environment and the Final MND (Exhibit 4) reflects the County's independent judgment and analysis.

- 2. Mitigation Monitoring and Reporting Program: The CEQA Guidelines [§ 15074(d)] state that, when approving a project for which a MND has been prepared, the lead agency shall also adopt a program for reporting on, or monitoring, the changes which it has either required in the project or made a condition of approval to mitigate or avoid significant environmental effects. The Public Works Agency has made such mitigation measures and changes to the project, along with provisions for monitoring and reporting, conditions of the permit, in addition to standard conditions presented in the 2016 Ventura County Building Code, Appendix J Grading and the Los Angeles Regional Water Quality Control Board Separate Storm Sewer System (MS4) Permit, NPDES No. CAS004002. At the Applicant's request, the revised Conditions of Approval also now include conditions elaborating on Air Pollution Control District and Watershed Protection District requirements which are standard conditions of grading permits and not changes or measures needed to mitigate or avoid a potentially significant effect.
- MND, Section 4A, Biological Resources Species: The Initial Study found that the proposed project may have potentially significant impacts to breeding and nesting birds. Impacts would be less than significant with the implantation of the Biological Resource Condition (Exhibit 6).
- MND, Section 4B, Biological Resources, Ecological Communities Sensitive Plant Communities: The Initial Study found that the proposed project would have potentially significant impacts to sensitive plant communities. Impacts will be less than significant with the Implementation of Mitigation Measure BIO-1 (Compensatory Mitigation for the Loss of Prickly Pear Cactus Scrub, Exhibit 6).

C. CONSISTENCY WITH THE GENERAL PLAN

Evaluated below is the consistency of the proposed project with the applicable policies of the General Plan *Goals*, *Policies and Programs*.

 Resources Policy 1.1.2-1: All General Plan amendments, zone changes and discretionary development shall be evaluated for their individual and cumulative impacts on resources in compliance with the California Environmental Quality Act.

As discussed in Section B (above) and in the MND prepared for the proposed project (Exhibit 4), the project's individual impacts and contribution to cumulative impacts on resources have been evaluated in compliance with CEQA.

Based on the discussion above, the proposed project is consistent with Policy 1.1.2-1.

2. Resources Policy 1.1.2-2: Except as otherwise covered by a more restrictive policy within the Resources Chapter, significant adverse impacts on resources identified in environmental assessments and reports shall be mitigated to less than significant levels or, where no feasible mitigation measures are available, a statement of overriding considerations shall be adopted.

As discussed in Section B (above) and in the MND prepared for the proposed project (Exhibit 4), the proposed project will have a potentially significant but mitigable impact to biological and scenic resources. The Grading Permit includes the mitigation measure identified in the MND as a condition of approval (Exhibit 6). With the implementation of this condition of approval, impacts to these resources will be less than significant.

Based on the discussion above, the proposed project is consistent with Policy 1.1.2-2.

D. PUBLIC WORKS DIRECTOR HEARING NOTICE, PUBLIC COMMENTS, AND JURISDICTIONAL COMMENTS

The Development and Inspection Services Division provided public notice regarding this Public Works Director Hearing. The Development and Inspection Services Division mailed notice to all landowners within 300 feet of the project site. A legal ad was placed in the Ventura County Star on August 15th, 2019. As of the date of this document, Development and Inspection Services has not received any comments.

A Public Hearing was held on August 30th, 2019 at the County of Ventura Hall of Administration.

Based upon the analysis and information provided above, staff recommends that the Public Works Director take the following actions:

DECISION-MAKER REVIEW:

- CERTIFY that the Director has reviewed and considered this staff report and all exhibits thereto, including the proposed MND and Mitigation Measures and Mitigation Monitoring and Reporting Program, and has considered all comments received during the public comment process;
- FIND, based on the whole of the record before the Public Works Director, including
 the Initial Study and any comments received, that upon implementation of the
 mitigation measures, there is no substantial evidence that the project will have a
 significant effect on the environment and that the MND reflects the Public Works
 Director's independent judgment and analysis;
- 3. **ADOPT** the MND (Exhibit 4) and Mitigation Monitoring Program.
- 4. MAKE the required findings to grant a Discretionary Grading Permit pursuant to Appendix J Grading of the 2016 Ventura County Building Code, based on the substantial evidence presented in Section F of this staff report and the entire record;
- 5. **GRANT** Discretionary Grading Permit, GP17-0019, subject to the conditions of approval (Exhibit 6).
- 6. **SPECIFY** that the Development and Inspection Services Department of the Engineering Services Division is the custodian, and 800 S. Victoria Avenue, Ventura, CA 93009 is the location, of the documents and materials that constitute the record of proceedings upon which this decision is based.

The decision of the Public Works Director is final unless appealed to the Public Works Agency within 10 calendar days after the permit has been approved, conditionally approved, or denied (or on the following workday if the 10th day falls on a weekend or holiday). Any aggrieved person may file an appeal of the decision with the Public Works Agency. The Public Works Agency shall then set a hearing date before the Board of Supervisors to review the matter at the earliest convenient date.

Decision making authority has been delegated to Engineering Manager I, Pam Lindsey, by the Public Works Director (Exhibit 7).

If you have any questions concerning the information presented above, please contact Kenji Miyata at (805) 654-03629 or kenji.miyata@ventura.org.

Public Works Director Staff Report for *GP17-0019*Public Works Director Hearing on *August 30th*, *2019*Page 6 of 6

Prepared by:

Kenji Miyata, Public Works Inspector II Development and Inspection Services Engineering Services Division Public Works Agency

Recommended for Approval by Lead Agency by:

Christopher E. Cooper Director Engineering Services Public Works Agency

Reviewed by:

Jim O'Tousa, Engineering Manager II
Development and Inspection Services
Engineering Services Division
Public Works Agency

EXHIBITS

Exhibit 1 - Site Location Map

Exhibit 2 - General Plan and Zoning Designations Map

Exhibit 3 - Grading Plans

Exhibit 4 - Proposed Final Mitigated Negative Declaration

Exhibit 5 - Conditions of Approval and Mitigation Monitoring and Reporting Program

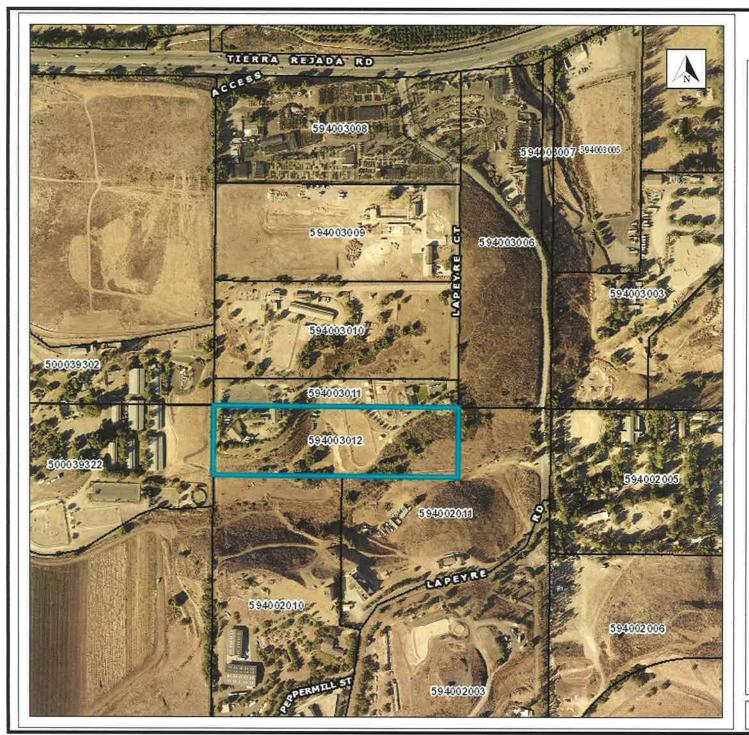
Exhibit 6 - Delegation of Decision Making Authority



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EXHIBIT 1





Pinneo Discretionary Grading Permit, GP17-0019

Parcels

County of Ventura – PWA Mitigated Negative Declaration GP17-0019 Attachment 1 – Site Plan / Aerial Location Map

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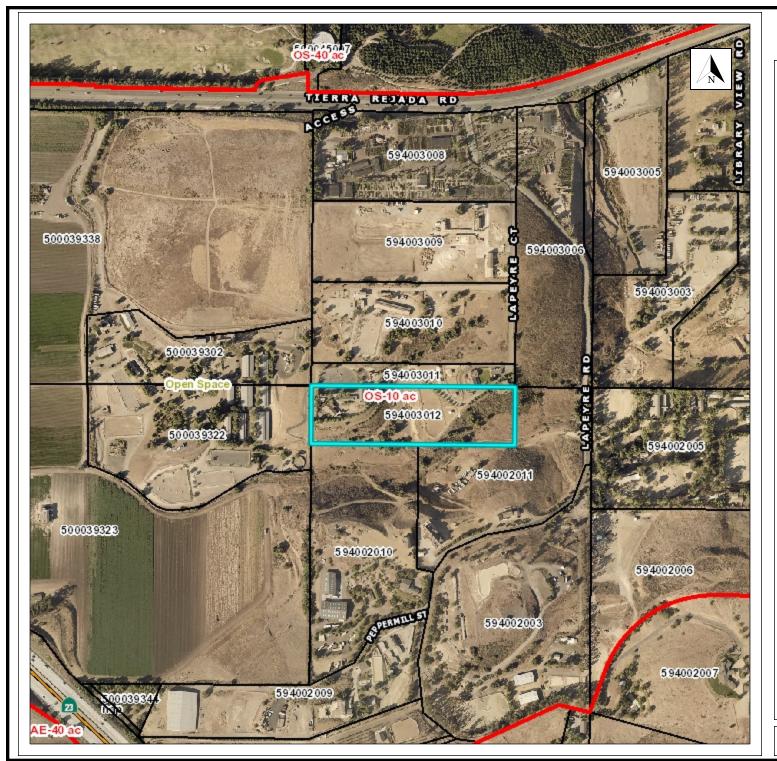


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EXHIBIT 2





GP17-0019, Zoning Designation

Legend

Temporary Rental Units

Ojai Valley Dark Sky

Community Business District

Mineral Resource

Santa Monica Mountains

Scenic Resource

General Plan

Zone Designation

Parcels

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Disclaimer: The information contained on this web site and in this application was created by the Ventura Coursy Geographical Information Systems (GIS), which is designed and operated osely for the convenience of the County and related contract entities. The County does not warrant the accuracy of this information, and no decision involving a risk of economic loss or physical injury should be made in reflares thereon.



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EXHIBIT 3

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PROPERTY N/A	DESCRIPTION: 1.2 MILES ÁLONG TIÈRRA REJADA ROAD FROM ITS INTERSECTION WITH MOORPARK HOAD, 60 FEET NORTHERLY FROM THE CENTER OF	3 FOR MILITADO COMMUNICATION C
N/A N/A SPECIAL PROPERTY PROPE	TIERRA REJADA ROAD, IN THE CENTER OF A CONCRETE HEADWALL	TOTAL BARBUTO CONTINUED CONTINU
	TOPOGRAPHY DATA	TO CONTROL OF THE RECORDER THE RECORDER TO THE RECORDER T
Herein shall he from the first half has a complete with the appropriate the second and a second and a second and the second an	STEVE OPINAL BUHNATING TIT'S WILDER ROUSULL 4	
PROJECT COME	THOUGHOUS ONS CA 91900 (649-17	
LC ENCHMERAND CROUP, INC. BESPERIZE CT, SUPE OF THOUGHOUS CASE, OF SIED	OWNER/APPLICANT PRIMARY CONTACT	
THE PRINCE OF BUILDING NO. 1997. NO.	NO.31902	594-0-030-11
ect)	CHARLE FRANCO HALLE FRANCO	WAIVER ID. 4 56W003581 APN 594-0-030-12 GP 17-0019
4 DESIGN ENGINEER	APPROVED, COUNTY OF VOITURE	COUNTY OF VENTURA COVER SHEET
3 LC BNG	INTERING GROUP, INC. LINE ANGENERAL DATE:	DUDUO MODICO AOENOV
		PUBLIC WURKS AGENCY PARCEL 4 56 PM 84 EVELOPMENT SERVICES 15498 LAPEYRE CT., MOORPARK, CA. 93021
DESCRIPTION OF RESISSION REE DATE APP. DATE LEGISLIO ASSOCI	RCE DATE SORLIPSON MINCES	LVELOT IVILITY SETVICES 19498 LAPETHE CT., MOUNPARK, CA. 93021

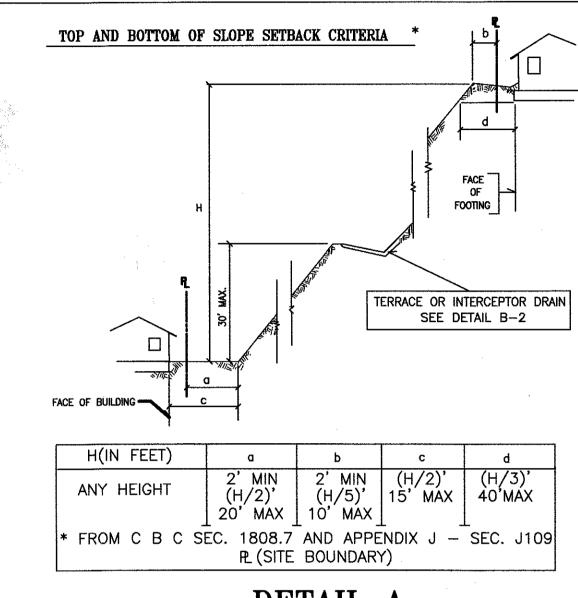
County of Ventura – PWA
Mitigated Negative Declaration
GP17-0019
Attachment 2 – Project Grading Plans, LC Engineering
Group, dated August 2018

	HITHE VENTURA COUNTY BUILDING CODE APPENDIX J GRADING, LATEST EDITION. E PLANS IS VALID ONLY TO THE EXTENT OF THE VENTURA COUNTY BUILDING CODE APPENDIX J - GRADING. PERMITS OR	JOB ADDRESS OR LOT AND TRACT NO: 15498 LAPEYRE COURT	
PERMISSIONS THAT MAY BE REQUIRED BY OTHER RE	EGULATORY AGENCIES OR INTERESTED PARTIES ARE THE RESPONSIBILITY OF THE PERMITTEE. THE SITE PRIOR TO ANY GRADING ACTIVITY OR LAND DISTURBANCES WITH THE FOLLOWING PARTIES PRESENT: OWNER,		
GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SO	OILS ENGINEER, COUNTY GRADING INPECTOR(S), AND OTHER JURISDICTIONAL AGENCIES WHEN REQUIRED.	ROUGH GRADING CERTIFICATION	PIJRIJC WO
5. NO GRADING ACTIVITY SHALL OCCUR IN ANY WETLA	AND, BLUE-LINE STREAM, RED-LINE CHANNEL, OR FLOODPLAIN WITHOUT THE PROPER PERMITS & PERMISSION FROM THE	(A) BY SOILS ENGINEER	
PWA & RESOURCE MANAGEMENT AGENCY (RMA), OF 6. RETAINING WALLS AND BRIDGES REQUIRE A SEPARA		I CERTIFY THAT THE ROUGH GRADING WORK INCORPORATES ALL RECOMMENDATIONS CONTAINED IN THE REPORT OR REPORTS FOR WHICH I AM RESPONSIBLE AND ALL RECOMMENDATIONS THAT I HAVE MADE BASED ON FIELD INSPECTION OF THE WORK AND TESTING DURING GRADING. I FURTHER CERTIFY THAT WHERE	
7. ALL RECOMMENDATIONS MADE BY THE SOILS ENGI SHALL BE A PART OF THIS GRADING PLAN.	NEER (AND ENGINEERING GEOLOGIST, WHERE EMPLOYED) CONTAINED IN THE REPORTS AS APPROVED BY THE COUNTY	THE REPORTS OF AN ENGINEERING GEOLOGIST, RELATIVE TO THIS SITE, HAVE RECOMMENDED THE INSTALLATION OF BUTTRESS FILLS OR OTHER SIMILAR STABILIZATION MEASURES, SUCH EARTHWORK CONSTRUCTION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED DESIGN.	
	I SHALL BE PROTECTED IN ACCORDANCE WITH THE VENTURA COUNTYWIDE MUNICIPAL STORMWATER NPDES PERMIT. LL BE INSTALLED AND MAINTAINED FULLY FUNCTIONAL.	LOT NOS: 15498 LAPEYRE COURT	GENERAL STORMWATER NOTES:
	USH, COMPRESSIBLE SOILS, OR ANY ORGANIC MATERIALS OR RUBBISH, SHALL BE REMOVED AS REQUIRED BY THE SOILS	SEE REPORTS DATED:	THE LEGALLY RESPONSIBLE PERSON OF ANY PROPERTY IN WHICH GRADING ACTIVITIES OR OTHER SOIL DISTURBANC ACTIVITIES ARE PERFORMED, INCLUDING PERMITTEE, SHALL COMPLY WITH THE LATEST AND APPLICABLE NPDE
10. ALL AREAS TO RECEIVE FILL SHALL BE INSPECTE	ED AND APPROVED BY THE SOILS ENGINEER (AND ENGINEERING GEOLOGIST WHERE EMPLOYED) AFTER REMOVAL OF THE AND BENCHES, AND PRIOR TO PLACEMENT OF SUBSURFACE DRAINAGE SYSTEMS OR FILL.	FOR TEST DATA, RECOMMENDED ALLOWABLE SOIL BEARING VALUES & OTHER SPECIAL RECOMMENDATIONS.	REQUIREMENTS. EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP'S) SHALL BE INSTALLED BEFORE GRADING BEGINS. DURING GRADING ACTIVITIES, ALL BMP'S SHALL BE UPDATED A NECESSARY TO PREVENT EROSION AND ANY ILLICIT DISCHARGE OF CONSTRUCTION RELATED POLLUTANTS. EROSIO
11. ALL MATERIALS DEEMED UNSUITABLE FOR PLACEM	MENT IN COMPACTED FILL SHALL BE REMOVED FROM THE SITE. MATERIALS SUCH AS CONSTRUCTION INERT DEBRIS, OR		CONTROL BMP'S ARE LISTED ON COUNTY FORMS SW-1, SW-2, OR SW-HR.
TWELVE INCHES IN LARGEST DIMENSION, IT MUST BE	HE SOILS ENGINEER AND COUNTY PRIOR TO USE IN COMPACTED FILL. WHERE EXCAVATED MATERIAL IS LARGER THAN E BROKEN INTO SMALLER PARTICLE SIZES, BEFORE BEING USED AS FILL.	SOILS ENGINEER REG. NO DATE	1. GENERAL CONSTRUCTION PERMIT. PROJECTS THAT CAUSE SOIL DISTURBANCE OF ONE ACRE OR MORE, OR THAT ARE PART OF A COMMON PLAN OF DEVELOPMENT OR SALE THAT CAUSE SOIL DISTURBANCE OF ONE ACRE OR MOR
	OF ANY EXISTING UNDERGROUND STRUCTURES SUCH AS SEPTIC TANKS, IRRIGATION LINES, ETC. DISTURBANCE SHALL BE REPORTED TO THE WATER RESOURCES DIVISION, WATERSHED PROTECTION DISTRICT PRIOR TO		ARE REQUIRED TO OBTAIN COVERAGE UNDER NPDES CALIFORNIA STATEWIDE GENERAL CONSTRUCTION PERMIT NO CASONOMO, AS A NUMBER ASSIGNED TO THE PROJECT BY THE STATE WATER RESOURCES CONTROL BOARD COMPLETED AND SIGNED NOTICE OF INTENT (NOI) AND PROJECT STORMWATER POLLUTION PREVENTION PLA
ITS MODIFICATION, ABANDONMENT, OR DESTRUCTION	ON. IRBANCE SHALL BE REPORTED TO THE STATE OF CALIFORNIA, DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES PRIOR	(B) BY ENGINEERING GEOLOGIST SEAL	(SWPPP) SHALL BE SUBMITTED AND IMPLEMENTED DURING ALL GRADING ACTIVITIES.
TO ITS MODIFICATION, ABANDONMENT, OR DESTRUC		I CERTIFY THAT THE ROUGH GRADING WORK INCORPORATES ALL OF THE RECOMMENDATIONS CONTAINED IN THE REPORT OR REPORTS FOR WHICH I AM RESPONSIBLE AND ALL RECOMMENDATIONS THAT I HAVE MADE BASED ON FIELD INSPECTION OF THE WORK DURING GRADING.	 COUNTY'S STORM DRAIN SYSTEM. ILLICIT DISCHARGES INTO THE COUNTY'S STORM DRAIN SYSTEM AS A RESULT C GRADING, CLEARING, CONSTRUCTION, DEMOLITION, AND OTHER SOIL DISTURBANCE ACTIVITIES ARE PROHIBITED.
ENGINEER TO INSURE THAT ALL POTENTIAL PLANE BUTTRESS. FIELD CERTIFICATION MUST BE SUBMIT	ES OF FAILURE HAVE BEEN EXPOSED IN THE EXCAVATION AND WILL BE ADEQUATELY SUPPORTED BY THE PROPOSED	LOT NOS: 15498 LAPEYRE COURT	3. INSPECTIONS, EROSION CONTROL AND PERMANENT STORMWATER TREATMENT BMP'S ARE SUBJECT TO INSPECTION AS REQUIRED BY THE PERMIT ORDER NO. R4-2010-0108. AS AMENDED FROM TIME TO TIME.
16. THE SOILS ENGINEER AND ENGINEERING GEOLOG STABILITY WHERE UNSTABLE MATERIAL IS EXPOSED	GIST (WHERE EMPLOYED) SHALL PROVIDE RECOMMENDATIONS AND APPROVE CORRECTIVE WORK TO INSURE SLOPE O AT THE TOP OF CUTS AND EXCAVATIONS.		4. PUMPED WATER DISCHARGES. DISCHARGES OF PUMPED GROUND WATER REQUIRE A DISCHARGE PERMIT FROM TH
	LOWED IN ANY COUNTY RIGHTS OF WAY. THE USE OF CORRUGATED STEEL PIPE ON PRIVATE PROPERTY SHOULD BE DOWN TO MINIMIZE CORROSION AND TO EXTEND SERVICE TIME.	ENGINEERING GEOLOGIST CERT. NO DATE (SIGNATURE)	STATE OF CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (RWQCB).
	SUBMITTED TO THE COUNTY AS REQUIRED BY THE BUILDING OFFICIAL.		 SANITARY FACILITIES. PORTABLE SANITARY FACILITIES SHALL BE LOCATED ON RELATIVELY LEVEL GROUND AWA FROM TRAFFIC AREAS, DRAINAGE COURSES, AND STORM DRAIN INLETS.
19. ROUGH GRADE SOILS ENGINEERING AND (IF APPLIC HAS BEEN COMPLETED ACCORDING TO THE APPRO' PRIOR TO CALLING FOR BUILDING AND SAFETY INSP	ABLE) ENGINEERING GEOLOGY REPORTS SUMMARIZING ALL EARTHWORK PERFORMED AND CONCLUDING THAT THE WORK VED REPORTS SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL OF THE ROUGH GRADING BY THE BUILDING OFFICIAL PECTION		6. EMERGENCY WORK. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAIN SEASON (OCTOBER 1ST TO APRIL 15TH). NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED A
20. FINAL SOILS ENGINEERING AND (IF APPLICABLE) EN	RIGINEERING GEOLOGY REPORTS SUMMARIZING ALL EARTHWORK PERFORMED SINCE ROUGH GRADING AND CONCLUDING NG TO THE APPROVED REPORTS SHALL BE SUBMITTED WITH THE AS-BUILT PLANS (RECORD DRAWING) TO THE COUNTY	(C) BY CIVIL ENGINEER SEAL	CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
PRIOR TO FINAL INSPECTION BY THE BUILDING OFFI	•	I CERTIFY TO THE SATISFACTORY COMPLETION OF ROUGH GRADING INCLUDING GRADING TO APPROXIMATE FINAL ELEVATIONS; PROPERTY LINES LOCATED AND STAKED, CUT AND FILL SLOPES CORRECTLY GRADED AND LOCATED IN ACCORDANCE WITH THE APPROVED DESIGN; SWALES AND TERRACES GRADED READY FOR	PROJECT BMP'S
		PAVING; BERMS INSTALLED; AND REQUIRED DRAINAGE SLOPES PROVIDED ON THE BUILDING PADS. I FURTHER CERTIFY THAT WHERE REPORT OR REPORTS OF AN ENGINEERING GEOLOGIST AND/OR SOILS ENGINEER HAVE BEEN PREPARED RELATIVE TO THIS SITE, THE RECOMMENDATIONS CONTAINED IN SUCH REPORTS	
EARTHWORK QUANTITIES		HAVE BEEN INCORPORATED IN THE DESIGN. 15498 LAPEYRE COURT LOT NOS:	THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, THE LATEST EDITION OF THE CASQA CONSTRUCTION BN ONLINE HANDBOOK MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY E REQUIRED IF DEEMED APPROPRIATE BY THE PROJECT ENGINEER, QUALIFIED SWPP DEVELOPER, PRACTITIONER OR TH
CUT: 15,400 CU. YDS. EXPO	RT:		BUILDING OFFICIAL). CERTAIN BMP'S ARE REQUIRED AS PART OF THE STORMWATER FORMS SW-1, SW-2 AND SW-HR. TH APPLICANT IS RESPONSIBLE FOR ENSURING THAT THE BMP'S LISTED HEREON, ARE IMPLEMENTED AND MAINTAINED A
FILL: CU. YDS IMPOR	RT: 15,038 CU. YDS SQURCE TBD	CIVIL ENGINEER REG. NO 31902 DATE	ALL TIMES DURING THE CONSTRUCTION. THE INSPECTOR OR BUILDING OFFICIAL MAY PERFORM UNANNOUNCED SIT INSPECTIONS TO ENSURE THAT THE PROJECT MAINTAINS THE BMP'S AS LISTED BELOW.
THIS PROJECT INCLUDES POST CONSTRUCTION BMP'S		(SIGNATURE)	BMP DESCRIPTIONS AND DETAILS CAN BE OBTAINED FROM THE CALIFORNIA STORMWATER HANDBOOKS A WWW.CASQA.ORG
THE TOTAL ESTIMATED DISTURBED AREA OF GRADING A	AND CONSTRUCTION IS 3.12 ACRES. PROJECTS THAT ARE 1.0 ACRE OR GREATER IN DISTURBED AREA WILL REQUIRE A) AND NOTICE OF INTENT (NOI) AS APPROVED BY THE STATE REGIONAL WATER QUALITY CONTROL BOARD AS DESCRIBED		COMPLETE CHECKLIST BELOW FOR APPLICABLE PROJECT BMP'S
ABOVE.	en e	SEAL	EROSION CONTROL NON-STORMWATER MANAGEMENT
AVERAGE NATURAL SLOPE IN THE AREA OF GRADING	22.7 %	FINAL GRADING CERTIFICATION	X EC1 – SCHEDULING X NS1 – WATER CONSERVATION PRACTICES X EC2 – PRESERVATION EXISTING VEGETATION NS2 – DEWATERING OPERATIONS
THE TOTAL AMOUNT OF IMPERVIOUS AREA TO BE CONS	TRUCTED AS PART OF THIS PROJECT IS 15706 SQ. FT.	BY CIVIL ENGINEER	EC3 – HYDRAULIC MULCH NS3 – PAVING & GRINDING OPERATIONS X EC4 – HYDROSEEDING NS4 – TEMPORARY STREAM CROSSING
TOTAL PROPOSED LANDSCAPED AREASQ.	FT. TOTAL NATIVE PLANTING LANDSCAPE AREA % (PERCENT OF TOTAL LANDSCAPE AREA)	I CERTIFY TO THE SATISFACTORY COMPLETION OF GRADING IN ACCORDANCE WITH THE APPROVED PLANS. ALL DRAINAGE DEVICES REQUIRED BY THE GRADING PERMIT, GRADING PLANS AND GRADING ORDINANCE HAVE BEEN INSTALLED. EROSION TREATMENT OF SLOPES AND IRRIGATION SYSTEMS (WHERE REQUIRED)	EC5 – SOIL BINDERS NS5 – CLEAR WATER DIVERSION
LAND DEVELOPMENT & INSPECTION SERVICES MUST BE	NOTIFIED TEN (10) WORKING DAYS PRIOR TO ANY EXPORT/IMPORT TO/FROM THE PROJECT SITE.	HAVE BEEN INSTALLED. ADEQUATE PROVISIONS HAVE BEEN MADE FOR DRAINAGE OF SURFACE WATERS FROM EACH BUILDING SITE AS OF THIS DATE.	EC6 - STRAW MULCH NS6 - ILLICIT CONNECTION/DISCHARGE X EC7 - GEOTEXTILES & MATS NS7 - POTABLE WATER/IRRIGATION
PERMITS		LOT NOS:	X EC8 – WOOD MULCHING NS8 – VEHICLE & EQUIPMENT CLÉANING EC9 – EARTH DIKES & DRAINAGE SWALES NS9 – VEHICLE & EQUIPMENT FUELING
	VENTURA COUNTY WATERSHED PROTECTION	CIVIL ENGINEER REG. NO 31902 DATE	EC10 - VELOCITY DISSIPATION DEV. NS10 - VEHICLE & EQUIPMENT MAINTENANCE
COUNTY ENCROACHMENT PERMIT NO.	DISTRICT WATERCOURSE PERMIT NO.	(SIGNATURE)	EC11 – SLOPE DRAINS NS11 – PILE DRIVING OPERATIONS EC12 – STREAMBANK STABILIZATION NS12 – CONCRETE CURING
DATE	DATE		EC14 - COMPOST BLANKETS NS13 - CONCRETE FINISHING EC15 - SOIL PREPARATION/ROUGHENING NS14 - MATERIAL & EQUIPMENT USE
STATE ENCROACHMENT PERMIT NO.	FLOODPLAIN DEVELOPMENT PERMIT	GRADING CONTRACTOR CERTIFICATION	EC16 – NON-VEGETATED STABILIZATION NS15 – DEMOLITION ADJACENT TO WATER TEMPORARY SEDIMENT CONTROL NS16 – TEMPORARY BATCH PLANTS
DATE	DATE		X SE1 - SILT FENCE WASTE MANAGEMENT & MATERIAL POLLUTION CONTR SE2 - SEDIMENT BASIN X WM1 - MATERIAL DELIVERY & STORAGE
		BY GRADING CONTRACTOR I CERTIFY THAT THE GRADING WAS DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, THE GRADING ORDINANCE, AND THE RECOMMENDATIONS OF	SE3 – SEDIMENT TRAP WM2 – MATERIAL USE
LOCATION & VICINITY MAP	APPROVAL BY CONSULTANTS	THE CIVIL ENGINEER, SOILS ENGINEER AND ENGINEERING GEOLOGIST. IT IS UNDERSTOOD THAT THIS CERTIFICATION INCLUDES ONLY THOSE ASPECTS OF THE WORK THAT CAN BE DETERMINED BY ME, AS A COMPETENT GRADING CONTRACTOR, WITHOUT SPECIAL EQUIPMENT OR PROFESSIONAL SKILLS.	SE4 - CHECK DAM X WM3 - STOCKPILE MANAGEMENT X SE5 - FIBER ROLLS X WM4 - SPILL PREVENTION & CONTROL
·	THIS GRADING PLAN IS ACCEPTABLE IN REGARD TO SOILS (AND GEOLOGIC - IF APPLICABLE) CONDITIONS AND CONFORMS TO THE RECOMMENDATION OF THE SUPPORTIVE REPORT(S) DATED:	GRADING CONTRACTORLICENSE NODATE (SIGNATURE)	SE6 - GRAVEL BAG BERM X WM5 - SOLID WASTE MANAGEMENT
	SOILS ENGINEERING REPORTS: MARCH 23 20 17	INSTRUCTIONS: THE OWNER MAY SIGN IF THE GRADING WAS NOT DONE BY A LICENSED GRADING CONTRACTOR.	X SE8 – SANDBAG BARRIER WM7 – CONTAMINATION SOIL MANAGEMENT
	(SOILS ENGINEER SIGNATURE) CAL WEST GEOTECHNICAL 889 PIERCE CT, SUITE 101 THOUSAND OAKS, CA 91360		SE9 - STRAW BALE BARRIER X WM8 - CONCRETE WASTE MANAGEMENT
	LEONARD LISTON 31902 805-497-1244 (PRINT NAME) (RCE)	BENCH MARK DATA	SE11 – ACTIVE TREATMENT SYSTEMS WM10 – LIQUID WASTE MANAGEMENT SE12 – TEMPORARY SILT DIKE
TIERRA REJADA ROAD		DESIGNATION: 16-187 DATUM: NAVD 88	SE13 – COMPOST SOCKS & BERMS SE14 – BIOFILTER BAGS ADDITIONAL BMP'S SELECTED
PROPERTY LOCATION	ENGINEERING GEOLOGY REPORTS: N/A 20	DATE: 1999 HEIGHT: 223.066 (METERS)/ 731.84 (FEET)	WIND EROSION CONTROL
LOCATION — GAY	N/A (ENGINEERING GEOLOGIST SIGNATURE)	DESCRIPTION: 1.2 MILES ALONG TIERRA REJADA ROAD FROM ITS INTERSECTION WITH MOORPARK ROAD, 60 FEET NORTHERLY FROM THE CENTER OF	X WE1 – WIND EROSION CONTROL EQUIPMENT TRACKING
14	N/A N/A (PRINT NAME) CERT. NO.	TIERRA REJADA ROAD, IN THE CENTER OF A CONCRETE HEADWALL	X TC1 – STABILIZED CONSTRUCTION ENTRANCE EXIT TC2 – STABILIZED CONSTRUCTION ROADWAY
The state of the s		TOPOGRAPHY DATA	TC3 - ENTRANCE/OUTLET TIRE WASH
	I HEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH THE ADOPTED COUNTY STANDARDS, AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN THE PROFESSIONAL ENGINEERS ACT. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS BY THE COUNTY OF VENTURA IS	STEVE OPDAHL SURVEYING 187 E. WILBUR RD. SUITE 4	
	CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF RECORD, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.		
NTS \	LC ENGINEERING GROUP, INC. 889 PIERCE CT, SUITE 101	OWNER/APPLICANT PRIMARY CONTACT	
	(CIVILENCINEER SIGNATURE) THOUSAND OAKS, CA 91360 805-497-1244	CHARLES PINNEO RALPH ARNOLD RALPH ARNOLD	
	(PRINT NAME) (RCE)	15498 LAPEYRE COURT, MOORPARK, CA 93021 1560 Newbury Rd #103 Newbury Park, CA 91320 805-404-7371	WAIVER ID:_
4	DESIGN ENGINEER	APPROVED: COUNTY OF VENTURA	COUNTY OF VENTURA SPEC. NO.
3		NEERING GROUP, INC.	0,0,1,1
2	889 Pierce Court 818-991-71/8 • 805-	, Suite 107, Thousand Oaks, Cziifornia 91360	PUBLIC WORKS AGENCY PROJ. NO.
A DESCRIPTION OF RE		31902 AUG U Z ZU16 BY DEVELOPMENT SERVICES	EVELOPMENT SERVICES

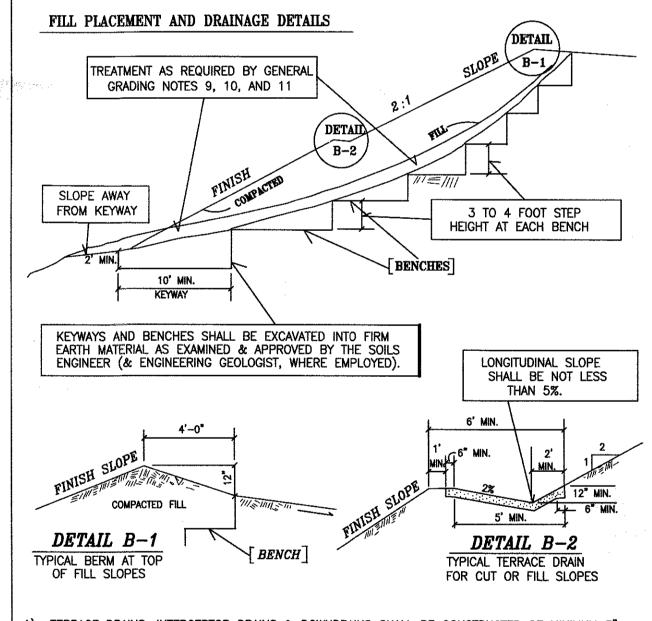
ENGINEERED GRADING INSPECTION CERTIFICATES

GENERAL GRADING NOTES:

OF VENTURA ORKS AGENCY



DETAIL A



TERRACE DRAINS, INTERCEPTOR DRAINS & DOWNDRAINS SHALL BE CONSTRUCTED OF MINIMUM 3" REINFORCED CONCRETE REINFORCED WITH 6 x 6 x 10 x 10 W.W.M. & SHALL BE OF EITHER SEMI-CIRCULAR OR TRIANGULAR CROSS SECTION.

2) FOR INTERCEPTOR DRAIN AT TOP OF CUT SLOPES AND DOWN DRAINS, MINIMUM WIDTH OF 3 FEET.

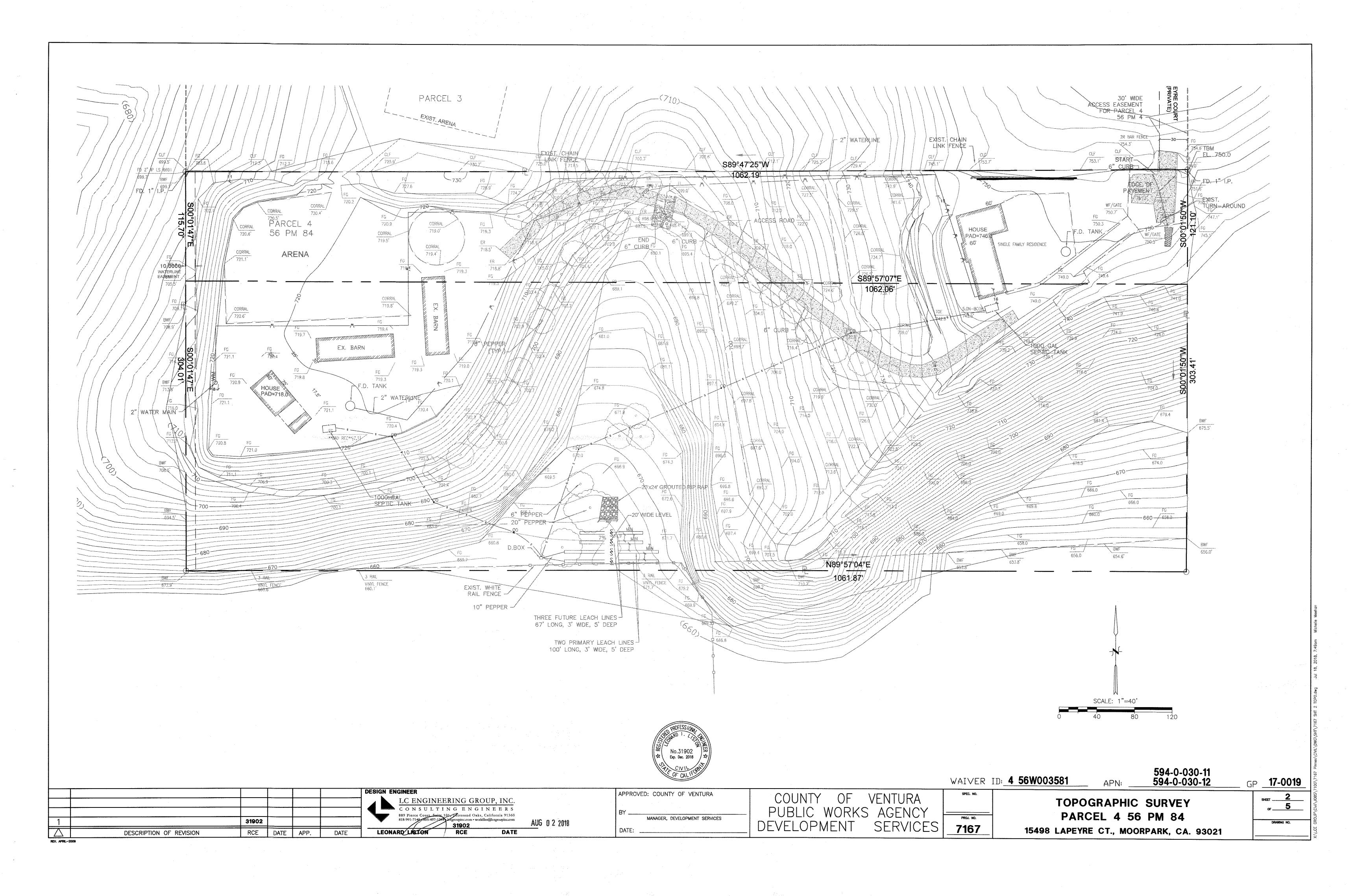
DETAIL B

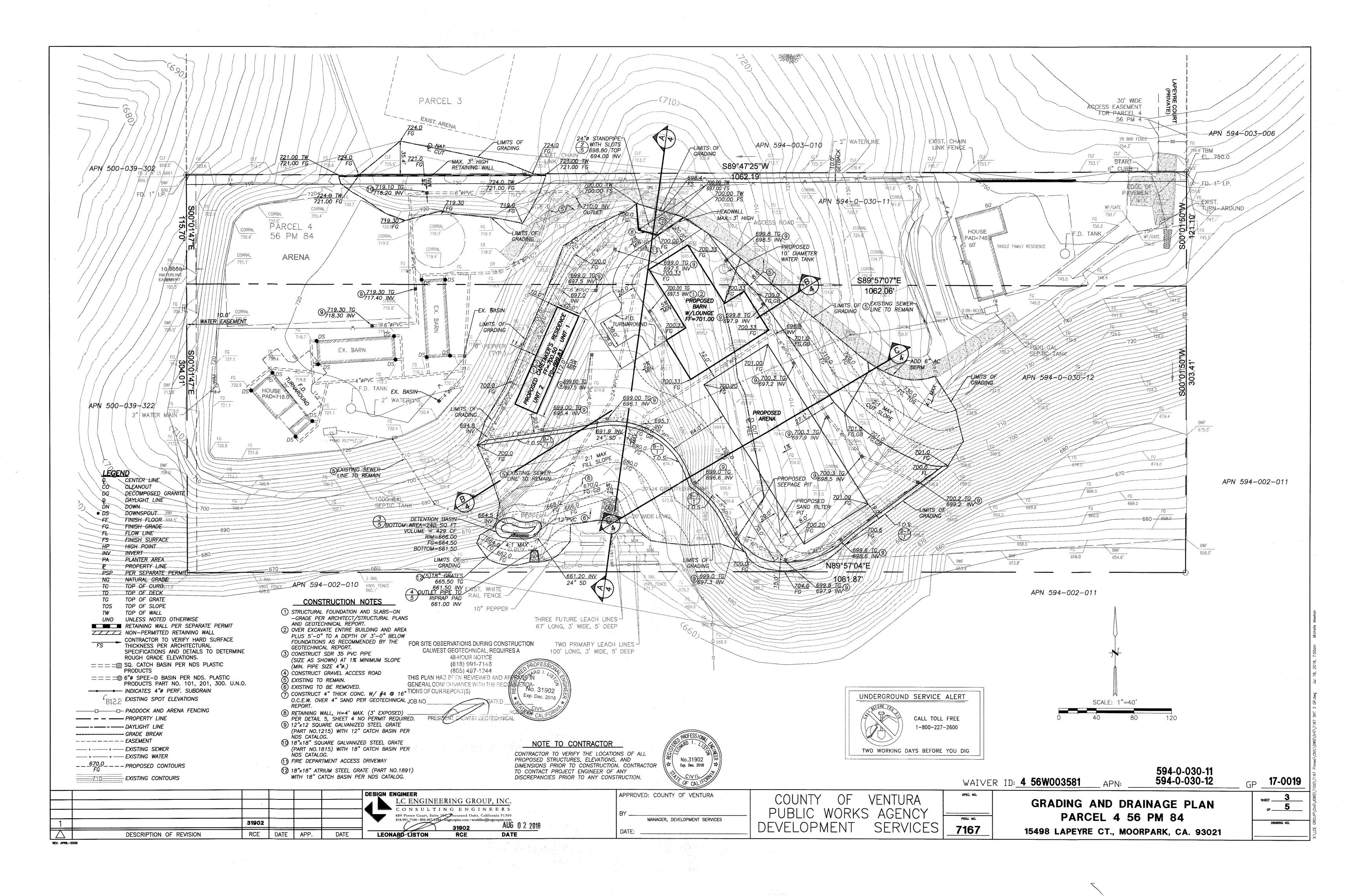
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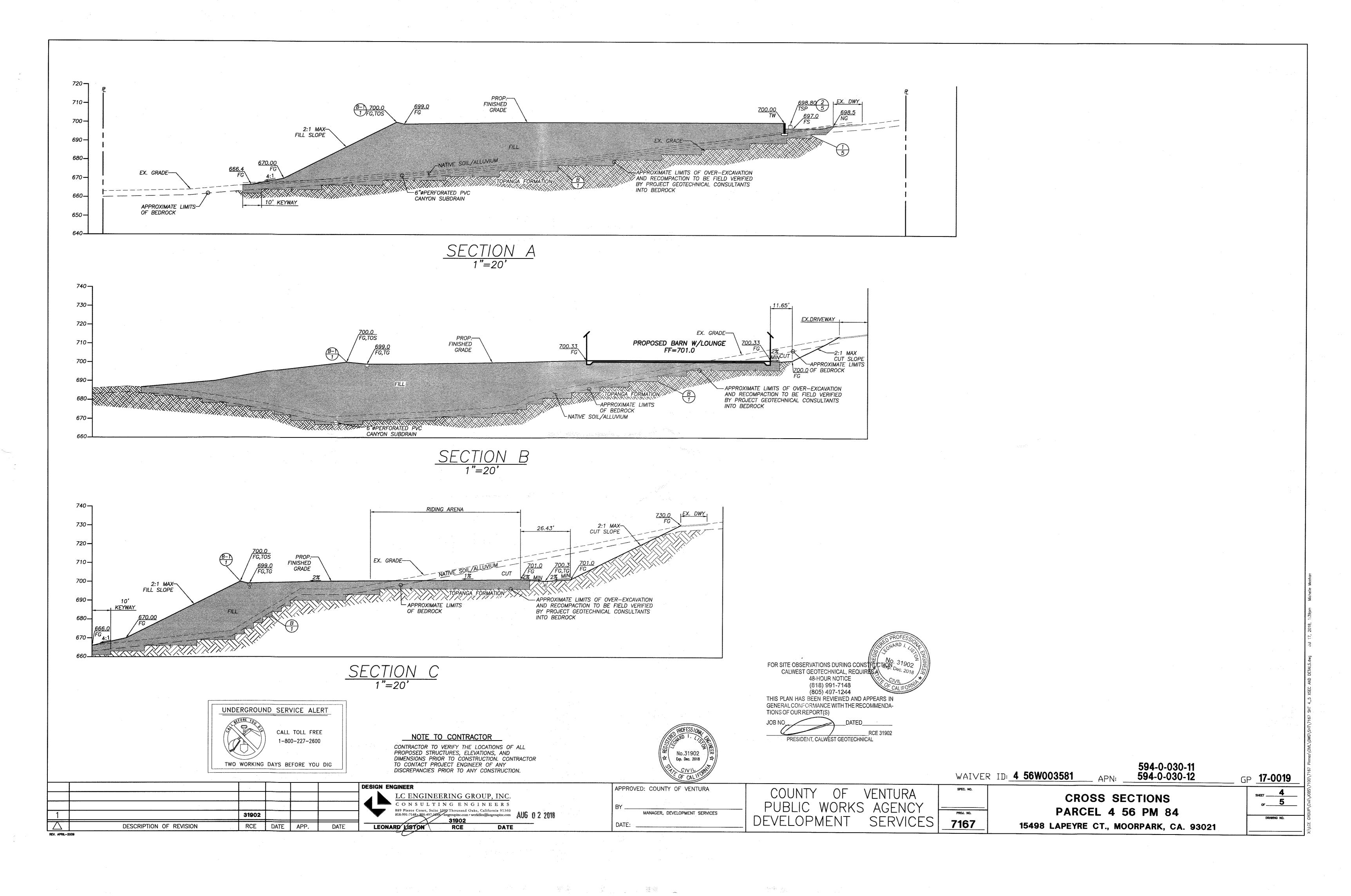
594-0-030-11 594-0-030-12

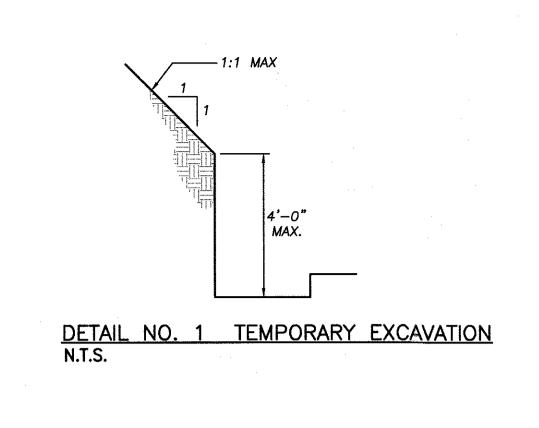
GP **17-0019**

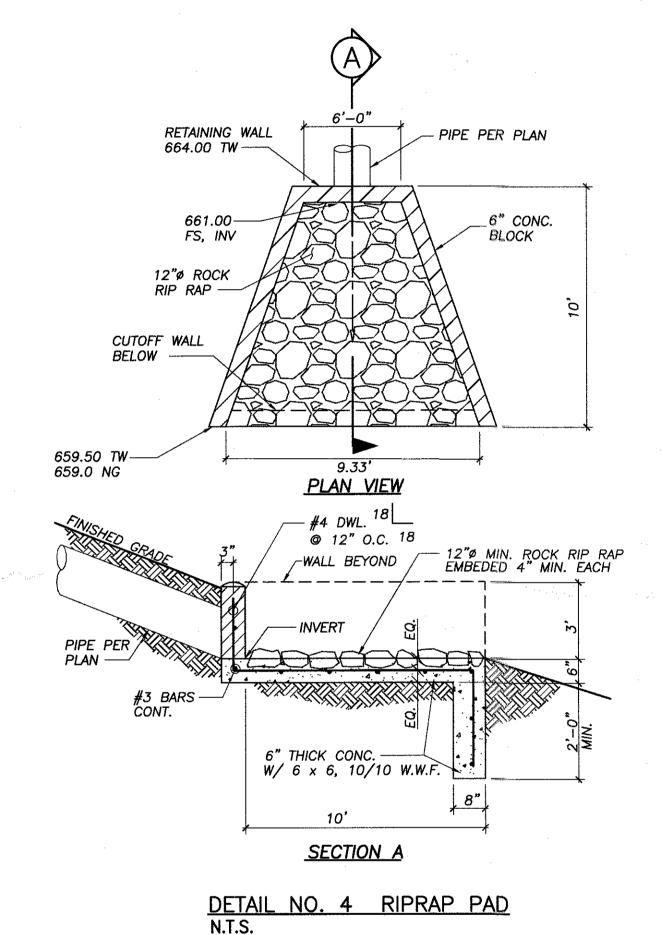
COVER SHEET PARCEL 4 56 PM 84 15498 LAPEYRE CT., MOORPARK, CA. 93021

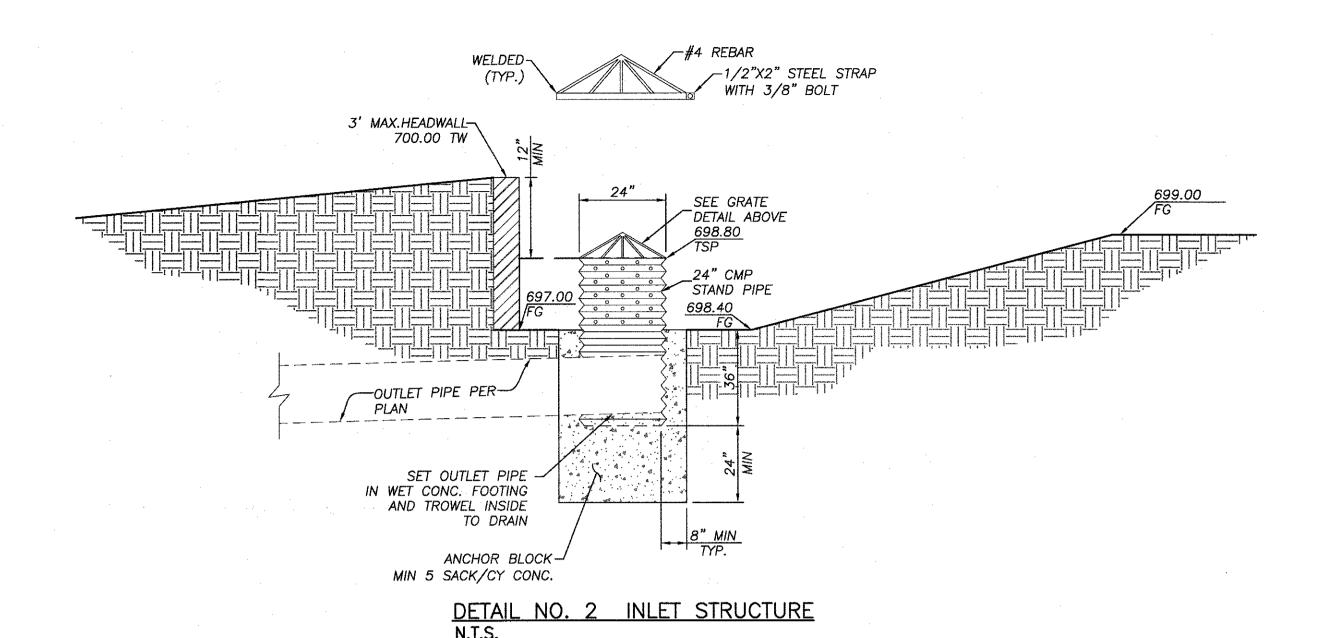












RETAINING OR SLOUGH WALL (4'-0" HIGH OR LESS) 6" Concrete (or) 8" concrete block-

#3 horizontal rebar-🏻 🗱 horizontal rebar #3 @ 24" o.c.-Place steel in 3"ø weep holes @ 6' o.c. #3 horizontal rebar 3" clear-Lap splices 16"

These walls are designed for the average condition and may not be suitable in all cases. Where the proposed wall construction is extensive, a licensed civil or structural engineer should be consulted.

1/2 H

- GENERAL SPECIFICATIONS 1. All footings to be 12" into natural ground.
- 2. Concrete mix for footing and for concrete wall to be 2500 psi minimum, or if site mixed: 1 part Portland cement, 2 parts sand, 3 parts 1" rock with a maximum of 7 gallons of water per sack of cement.
- 3. Grout mix for concrete block wall to be 2000 psi, 1 part Portland cement, to 3 parts sand which may be added not more than 1/10 part lime. Sufficient water to be added to produce consistency for pouring without
- segregation of the constituents. Grout may contain pea gravel to a maximum size of 3/8".

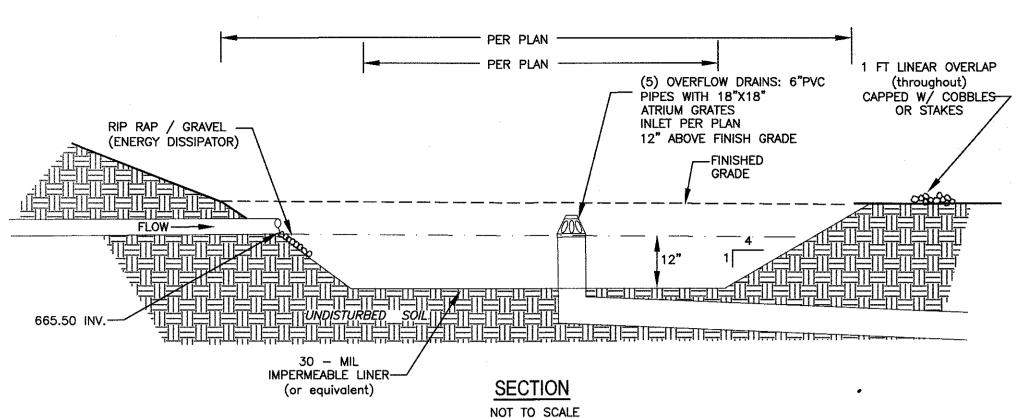
 4. Mortar mix for concrete blocks to be 1 part cement to 1/4" lime putty or hydrated lime to 3½ parts damp
- 5. Concrete block units to be standard 8"x8"x16" units conforming to ASTM C90, Grade N, Type II and UBC
- Standard 21-4. 6. Reinforcing steel shall be deformed steel conforming to ASTM Specification A-615, Grade 40. Lap all steel 16".
- 7. Concrete block units to be staggered (running bond). 8. Concrete block units to have vertical continuity of the cells unobstructed. All cells containing reinforcing to be filled solid with grout.

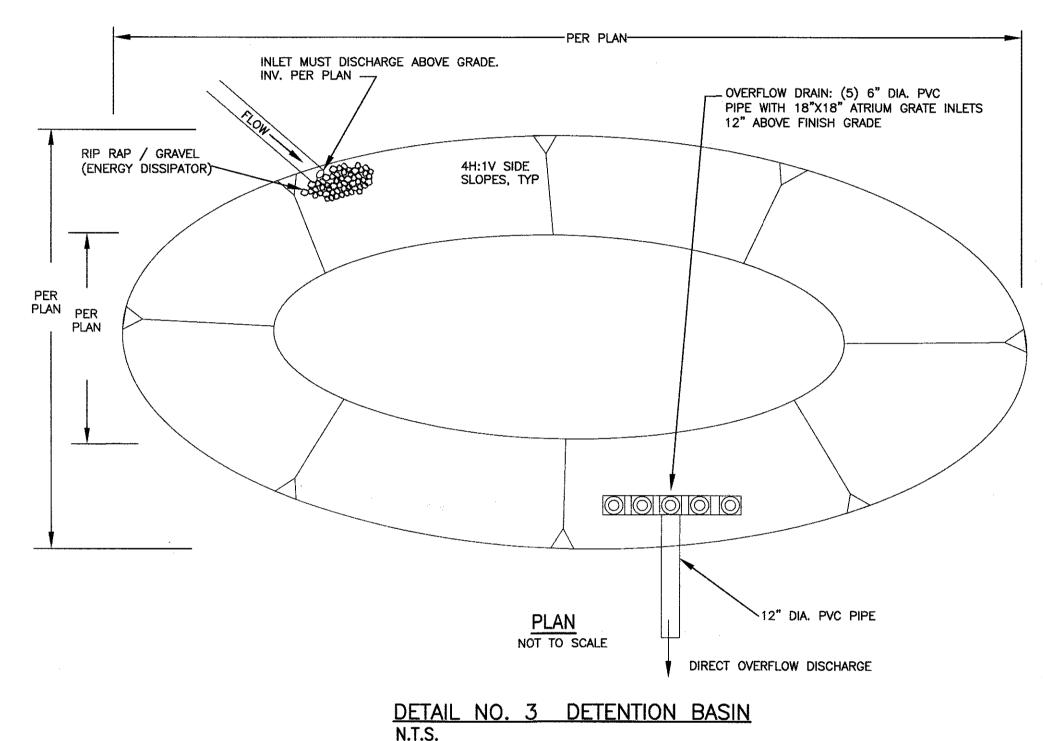
DETAIL NO. 5 NON-PERMITTED RETAINING WALL N.T.S.



NOTE TO CONTRACTOR CONTRACTOR TO VERIFY THE LOCATIONS OF ALL PROPOSED STRUCTURES, ELEVATIONS, AND DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT PROJECT ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.







WAIVER ID: 4 56W003581

PROJ. NO.

7167

594-0-030-11 594-0-030-12

GP 17-0019

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of 5

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1		31902				
	DESCRIPTION OF REVISION	RCE	DATE	APP.	DATE	

REV. APRIL-2009

DESIGN ENGINEER LC ENGINEERING GROUP, INC. CONSULTING ENGINEERS 889 Pierce Court, Suite 104, Thousand Oaks, California 91360 818-991-7148 • 805-497-444 • kegroupinc.com • workfiles@kegroupinc.com LEONARD LISTON DATE RCE

MANAGER, DEVELOPMENT SERVICES DATE:

COUNTY OF VENTURA PUBLIC WORKS AGENCY DEVELOPMENT

DETAILS PARCEL 4 56 PM 84 15498 LAPEYRE CT., MOORPARK, CA. 93021



Public Works Agency Staff Report – Hearing on August 30th, 2019

County of Ventura · Public Works Agency · Engineering Services Division

800 S. Victoria Avenue, Ventura, CA 93009-1670

EXHIBIT 4

county of ventura



Agency Director

Central Services Department J. Tabin Coslo, Director

Engineering Services Department Christopher Cooper, Director

> **Transportation Department** David Fleisch, Director

Water & Sanitation Department Michaela Brown, Director

Watershed Protection District Glenn Shephard, Director

MITIGATED NEGATIVE DECLARATION

Α. PROJECT DESCRIPTION:

Entitlement: Grading Permit, GP17-0019

Applicant: Charles Pinneo

Location: The project is located at 15498 Lapeyre Court, in the unincorporated

area of Ventura County.

Assessor's Parcel Nos.: 594-0-030-110 and 594-0-030-125

Parcel Size: 2.90 acres and 7.39 acers respectively

General Plan Designation: Open Space

Zoning Designation: OS-10

Responsible and/or Trustee Agencies: County of Ventura Public Works Agency Development and Inspection Services, and California Department of Fish and Wildlife (CDFW).

Project Description: The project consists of cut and fill grading, as well as importing operations in order to fill in an existing ravine with certified compacted fill. A graded 2:1 (H:V) will be created along the southern portion and a level pad area at the northern portion of the site. The proposed improvements will be for equestrian purposes. Import operations will allow for up to 40 round trip truck trips (maximum) per day, Monday through Friday.

B. STATEMENT OF ENVIRONMENTAL FINDINGS:

State law requires the Resource Management Agency, Planning Division, as the lead agency for the proposed project, to prepare an Initial Study (environmental analysis) to determine if the proposed project could significantly affect the environment. Based on the findings contained in the attached Initial Study, it has been determined that the proposed project may have a significant effect on the environment; however, mitigation measures are available that would reduce the impacts to less than significant levels. Therefore, a Mitigated Negative Declaration





has been prepared and the applicant has agreed to implement the mitigation measures.

C. <u>LISTING OF POTENTIALLY SIGNIFICANT ENVIRONMENTAL IMPACTS</u> IDENTIFIED:

<u>Section 4B, Biological Resources, Ecological Communities – Sensitive Plant Communities:</u> The Initial Study found that the proposed project would have potentially significant impacts to sensitive plant communities. Impacts will be less than significant with the implementation of Mitigation Measure BIO-1, which will require a restoration plan. Mitigation measures have been identified to mitigate potentially significant impacts to the mixed coastal sage scrub plant community.

D. PUBLIC REVIEW:

<u>Legal Notice Method</u>: Direct mailing to property owners within 300 feet of the property on which the proposed project is located, and a legal notice in the *Ventura County Star*.

Document Posting Period: January 25th, 2019 to February 25th, 2019

<u>Public Review</u>: The Initial Study/Mitigated Negative Declaration is available for public review at the County of Ventura, Public Works Public Counter, 800 South Victoria Avenue, Ventura, California, from 8:00 am to 5:00 pm, Monday through Friday. It is also available on the County of Ventura Public Works Website at the following address: http://vcpublicworks.org/esd/developmentinspection /information.

<u>Comments</u>: The public is encouraged to submit written comments regarding this Initial Study/Mitigated Negative Declaration no later than 5:00 p.m. on the last day of the document posting period to Kenji Miyata, the case planner, at the County of Ventura Public Works Agency, Engineering Services Division, 800 South Victoria Avenue L#1670, Ventura, CA 93009. You may also e-mail the case planner at kenji.miyata@ventura.org.

D. <u>CONSIDERATION AND APPROVAL OF THE MITIGATED NEGATIVE</u> DECLARATION:

Prior to approving the project, the decision-making body of the Lead Agency must consider this Mitigated Negative Declaration and all comments received on the Mitigated Negative Declaration. That body may approve the Mitigated Negative Declaration if it finds that all the significant effects have been identified and that the proposed mitigation measures will reduce those effects to less than significant levels.

Prepared by:

Kenji Miyata, Public Works Inspector Development and Inspection Services Engineering Services Department Public Works Agency

Recommended for Approval by Lead Agency by:

Christopher E. Cooper Director Engineering Services Public Works Agency

Reviewed for Release to the Public by:

Raymond Gutierrez, Jr., Manager Development and Inspection Services Engineering Services Department Public Works Agency

county of ventura



JEFF PRATT

Agency Director

Central Services Department

J. Tabin Cosio, Director

Engineering Services Department Christopher Cooper, Director

Transportation Department **David Fleisch,** Director

Water & Sanitation Department Michaela Brown, Director

Watershed Protection District Glenn Shephard, Director

Initial Study for Pinneo Grading Permit GP17-0019

Section A - Project Description

1. Project Case Number: GP17-0019

2. Name of Applicant: Charles Pinneo

3. Project Location and Assessor's Parcel Number:

This project is located at 15498 Lapeyre Court, in the unincorporated area of Ventura County as shown in the attached Attachment 1. The Tax Assessor's parcel numbers are 594-0-030-110 and 594-0-030-125.

- 4. General Plan Land Use Designation and Zoning Designation of the Project Site:
 - a. General Plan Land Use Designation: Open Space (See Attachment 2)
 - b. Zoning Designation: OS-10 ac
- **Description of the Environmental Setting:** The project site is located in the Tierra Rejada Valley on the eastern side of the Moorpark area of the unincorporated area of Ventura County. It is designated Open Space and zoned OS-10 (Open Space, 10 acre minimum lot size).

The subject property has south and southeast facing slopes that are relatively steep. The slopes are dominated by native coast prickly pear cactus and sagebrush scrub plant communities that gradually transition to sparsely vegetated and barren disturb areas of non-native grasses, and cleared or developed areas to the north. The Arroyo Santa Rosa, a "blue-line" stream, is located approximately 130 south of existing graded areas of the parcel, and runs in an east to west trend. The stream indicates that this drainage is ephemeral in nature per Envicom (Envicom Corporation Initial Study Biological Assessment, October 1st, 2018, Attachment 3).

6. **Project Description:** The project consists of cut and fill grading, as well as importing operations in order to fill in an existing ravine with certified compacted fill. A graded 2:1 (H:V) will be created along the southern portion and a level pad area at the northern portion of the site. The proposed improvements will be for equestrian purposes. Import operations will allow up to 40 round trip truck trips (maximum) per day, Monday through Friday.





- 7. List of Responsible and Trustee Agencies: County of Ventura Public Works Agency Development and Inspection Services and California Department of Fish and Wildlife (CDFW).
- **8. Methodology for Evaluating Cumulative Impacts:** Pursuant to the California Environmental Quality Act (CEQA) Guidelines [§ 15064(h)(1)], this Initial Study evaluates the cumulative impacts of the project, by considering the incremental effects of the proposed project in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.

The plans approach was utilized to evaluate cumulative impacts of the proposed grading project to fill in a ravine. The plans approach involves the analysis of whether the proposed project will comply with the requirements of a plan, regulation, or program specified by law or adopted by a public agency with jurisdiction over the affected resource. There are no recent or pending discretionary grading permits in the vicinity of this proposed project.

Section B – Initial Study Checklist and Discussion of Responses¹

Issue (Responsible Department)*	Project Impact Degree Of Effect**				Cumulative Impact Degree Of Effect**			
	Ν	LS	PS-M	PS	N	LS	PS-M	PS
RESOURCES:								
1. Air Quality (VCAPCD)								
Will the proposed project:								
a) Exceed any of the thresholds set forth in the air quality assessment guidelines as adopted and periodically updated by the Ventura County Air Pollution Control District (VCAPCD), or be inconsistent with the Air Quality Management Plan?		х				х		
b) Be consistent with the applicable General Plan Goals and Policies for Item 1 of the Initial Study Assessment Guidelines?		х				Х		

Impact Discussion:

- **1a.** Based on information provided by the applicant, air quality impacts will be below the 25 pounds per day threshold for reactive organic compounds and oxides of nitrogen as described in the Ventura County Air Quality Assessment Guidelines. Therefore, the project will not have a significant impact in regional air quality.
- **1b.** Based on information in the project application, the subject project will generate local air quality impacts, but those impacts are not likely to be significant. Because the project is temporary, short-term, local air quality impacts are not counted toward the thresholds of significance as described above.

Mitigation/Residual Impact(s): None.

¹ The threshold criteria in this Initial Study are derived from the *Ventura County Initial Study Assessment Guidelines* (April 26, 2011). For additional information on the threshold criteria (e.g., definitions of issues and technical terms, and the methodology for analyzing each impact), please see the *Ventura County Initial Study Assessment Guidelines*.

Issue (Responsible Department)*	Project Impact Degree Cumulative Impact Degree Of Effect Of Effect**							
	N	LS	PS-M	PS	N	LS	PS-M	PS
2A. Water Resources – Groundwater Quantity	(WP	D)						
Will the proposed project:								
Directly or indirectly decrease, either individually or cumulatively, the net quantity of groundwater in a groundwater basin that is overdrafted or create an overdrafted groundwater basin?		X			X			
2) In groundwater basins that are not overdrafted, or are not in hydrologic continuity with an overdrafted basin, result in net groundwater extraction that will individually or cumulatively cause overdrafted basin(s)?		X			X			
3) In areas where the groundwater basin and/or hydrologic unit condition is not well known or documented and there is evidence of overdraft based upon declining water levels in a well or wells, propose any net increase in groundwater extraction from that groundwater basin and/or hydrologic unit?		x			x			
4) Regardless of items 1-3 above, result in 1.0 acre-feet, or less, of net annual increase in groundwater extraction?		х			х			
5) Be consistent with the applicable General Plan Goals and Policies for Item 2A of the Initial Study Assessment Guidelines?		х			X			

Impact Discussion:

2A-1 thru 4. The proposed project involves a grading project in order to improve an existing equestrian operation. Construction activities will require water to be used for controlling dust and achieving proper compaction and soil moisture content, and will not exceed 1.0-acre feet of water of groundwater. This will be a temporary use and will not decrease the net quantity of groundwater in a groundwater basin. As there are no new wells proposed, no plugging up of groundwater recharge areas, and no use of surface water, there will be no increase in water use expected from this project.

2A-5. The proposed project is consistent with the applicable General Plan Goals and Policies for ISAG Item 2A.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*	Project Impact Degree Of Effect**				Cumulative Impact Degree Of Effect**			
	N	LS	PS-M	PS	N	LS	PS-M	PS
2B. Water Resources - Groundwater Quality (V	VPD)							
Will the proposed project:								
Individually or cumulatively degrade the quality of groundwater and cause groundwater to exceed groundwater quality objectives set by the Basin Plan?	х				X			
Cause the quality of groundwater to fail to meet the groundwater quality objectives set by the Basin Plan?	х				X			
3) Propose the use of groundwater in any capacity and be located within two miles of the boundary of a former or current test site for rocket engines?	х				Х			
Be consistent with the applicable General Plan Goals and Policies for Item 2B of the Initial Study Assessment Guidelines?	х				X			

Impact Discussion:

- 2B-1 and 2B-2. The proposed project is a grading project and therefore will not individually or cumulatively degrade the quality of groundwater and cause groundwater to exceed groundwater quality objectives set by the Basin Plan.
- 2B-3. The proposed project is not located within two miles of the boundary of a former or current test site for rocket engines.
- 2B-4. The proposed project is consistent with the applicable General Plan Goals and Policies for ISAG Item 2B.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*		Project Impact Degree Of Effect**				Cumulative Impact Degree Of Effect**			
	N	LS	PS-M	PS	N	LS	PS-M	PS	
2C. Water Resources - Surface Water Quantity	(WP	D)							
Will the proposed project:									
Increase surface water consumptive use (demand), either individually or cumulatively, in a fully appropriated stream reach as designated by SWRCB or where unappropriated surface water is unavailable?		x				х			
2) Increase surface water consumptive use (demand) including but not limited to diversion or dewatering downstream reaches, either individually or cumulatively, resulting in an adverse impact to one or more of the beneficial uses listed in the Basin Plan?		x				х			
Be consistent with the applicable General Plan Goals and Policies for Item 2C of the Initial Study Assessment Guidelines?		Х				Х			

Impact Discussion:

- 2C-1. The proposed project consists of cut/fill grading and import operations in order to fill in a ravine to create a level pad for equestrian use. A culvert will be installed in a episodic drainage with a grouted rip-rap pad on the down-slope side to retain existing flows. No surface water will be consumed during, or as a result of, this project. Therefore, it will not increase the surface water consumptive use (demand), either individually or cumulatively, in a fully appropriated stream reach as designated by SWRCB or where unappropriated surface water is unavailable.
- 2C-2. The proposed project does not increase surface water consumptive use (demand) including but not limited to diversion or dewatering downstream reaches, either individually or cumulatively, resulting in an adverse impact to one or more of the beneficial uses listed in the Basin Plan.
- 2C-3. The proposed project is consistent with the applicable General Plan Goals and Policies for ISAG Item 2C.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*	Pro	_	ect Impact Degree Cumulative In Degree Of Ef					•		
	N	LS	PS-M	PS	N	LS	PS-M	PS		
2D. Water Resources - Surface Water Quality (N LS PS-M PS N LS PS-M ality (WPD) the seed of in X X X ality or X Y									
Will the proposed project:										
Individually or cumulatively degrade the quality of surface water causing it to exceed water quality objectives as contained in Chapter 3 of the three Basin Plans?		х				×				
Directly or indirectly cause storm water quality to exceed water quality objectives or standards in the applicable MS4 Permit or any other NPDES Permits?		х				x				
Be consistent with the applicable General Plan Goals and Policies for Item 2D of the Initial Study Assessment Guidelines?		х				х				

Impact Discussion:

- 2D-1. The proposed project will not individually or cumulatively degrade the quality of surface water causing it to exceed water quality objectives as contained in Chapter 3 of the Los Angeles Basin Plan as applicable for this area. Surface Water Quality is deemed Less than Significant (LS) because the proposed project is not expected to result in a violation of any surface water quality standards as defined in the Los Angeles Basin Plan.
- 2D-.2 The project is located at 15498 Lapeyre Court, in the non-urban unincorporated area between Moorpark and Simi Valley. The project will disturb about 3 acres and create about 15,000 square feet of new impervious surfaces. The project proposes import and grading to create an area for an equestrian arena, a barn with a lounge, and a caretaker's residence.

The proposed construction project involves soil disturbance of more than 1 acre within an area deemed to be high risk. As per the Ventura Countywide Municipal Stormwater NPDES Permit CAS004002, "Development Construction Program" Subpart 4.F, the applicant will be required to include Best Management Practices (BMPs) designed to ensure compliance and implementation of an effective combination of erosion and sediment control measures for a disturbed site greater than 1 acre within a high-risk area to protect surface water quality during construction (Tables 6, 7, 8 and 9 in Subpart 4.F). The proposed construction activities are also subject to coverage under the

NPDES General Construction Permit (No. CAS000002). As such, neither the individual project nor the cumulative threshold for significance would be exceeded and the project is expected to have a Less than Significant (LS) impact related to water quality objectives or standards in the applicable MS4 Permit or any other NPDES Permits.

2D-3. The proposed project is consistent with the applicable General Plan Goals and Policies for ISAG Item 2d.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*	Pro						umulative Impact egree Of Effect**			
	N	LS	PS-M	PS	N	LS	PS-M	PS		
3A. Mineral Resources – Aggregate (Plng.)										
Will the proposed project:										
1) Be located on or immediately adjacent to land zoned Mineral Resource Protection (MRP) overlay zone, or adjacent to a principal access road for a site that is the subject of an existing aggregate Conditional Use Permit (CUP), and have the potential to hamper or preclude extraction of or access to the aggregate resources?	X				X					
Have a cumulative impact on aggregate resources if, when considered with other pending and recently approved projects in the area, the project hampers or precludes extraction or access to identified resources?					Х					
3) Be consistent with the applicable General Plan Goals and Policies for Item 3A of the Initial Study Assessment Guidelines?	Х				X					

Impact Discussion:

3A-1. The proposed project is not located on or immediately adjacent to land zoned Mineral Resource Protection (MRP) overlay zone, or adjacent to a principal access road for a site that is the subject of an existing aggregate Conditional Use Permit (CUP), and does not have the potential to hamper or preclude extraction of or access to the aggregate resources.

- 3A-2. The proposed project will not have a cumulative impact on aggregate resources if, when considered with other pending and recently approved projects in the area, the project hampers or precludes extraction or access to identified resources.
- 3A-3. The proposed project is consistent with the applicable General Plan Goals and Policies for ISAG Item 3A.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*		_	npact De Effect**	gree	Cumulative Impact Degree Of Effect**			
	N	LS	PS-M	PS	N	LS	PS-M	PS
3B. Mineral Resources – Petroleum (Plng.)								
Will the proposed project:								
1) Be located on or immediately adjacent to any known petroleum resource area, or adjacent to a principal access road for a site that is the subject of an existing petroleum CUP, and have the potential to hamper or preclude access to petroleum resources?	х				Х			
2) Be consistent with the applicable General Plan Goals and Policies for Item 3B of the Initial Study Assessment Guidelines?	Х				Х			

Impact Discussion:

- 3B-1. The proposed project is not located on or immediately adjacent to any known petroleum resource area, or adjacent to a principal access road for a site that is the subject of an existing petroleum CUP and have the potential to hamper or preclude access to petroleum resources.
- 3B-2. The proposed project is consistent with the applicable General Plan Goals and Policies for ISAG Item 3B.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*	Project Impact Degree Of Effect**				Cumulative Impact Degree Of Effect**			
	Ν	LS	PS-M	PS	N	LS	PS-M	PS
4. Biological Resources								
4A. Species								
Will the proposed project, directly or indirectly:								
Impact one or more plant species by reducing the species' population, reducing the species' habitat, fragmenting its habitat, or restricting its reproductive capacity?		Х				X		
Impact one or more animal species by reducing the species' population, reducing the species' habitat, fragmenting its habitat, or restricting its reproductive capacity?			х			х		

Impact Discussion:

The proposed project includes the expansion of two barns, construction of a new barn, a covered arena, and hay barn, and installation of a double-wide modular building located within an existing equestrian facility. The project and 100-feet fuel modification are approximately 7.3 acres. The majority of the proposed development would be located on existing graded and disturbed areas of the parcel.

An Initial Study Biological Assessment (ISBA) was prepared by Envicom (dated December 1, 2017; revised on October 1, 2018). The ISBA survey area included both developed and undeveloped areas on APN 594-0-030-125 and on APN 594-0-030-110. Table 1 below provides the percent of various vegetation cover that exist within the ISBA survey area.

Table 1 Vegetation Community Cover							
Vegetation	Acreage	Percent Cover					
Cleared Land	3.49	19.62%					
Urban or Disturbed	3.88	21.80%					
Undifferentiated Exotic Vegetation	1.95	10.95%					
Native and Non-Native Grasses and Forbes	4.68	26.27%					
Artemisia californica (California sagebrush scrub) Alliance,							
Disturbed	0.60	3.38%					
Opuntia littoralis (Coast prickly pear scrub) Alliance	2.40	13.46%					

Brassica nigra and other mustards (Upland mustards) Semi-		
natural Stands	0.80	4.51%
Total	17.81	100.00%

The Coast Prickly Pear Scrub Alliance is considered a sensitive plant community. It is assigned a "G2S1.1" rarity ranking by the California Department of Fish and Wildlife (CDFW). The Coast Prickly Pear Scrub Alliance occurs in two areas within the parcel, the majority of the Alliance extends from the eastern portion of the project site to the southeast and southwest of the project site, as well as adjacent parcels located to the east of the project site; a smaller area is located immediately north of the subject property.

The Arroyo Santa Rosa, a USGS-designated "Blue-line" Stream passes through the southeastern portion of the site and traverses east to west. Peruvian peppertree and eucalyptus (*Eucalyptus* sp.) trees are located in the southeastern portion of the parcel.

4A-1. No federal or state listed endangered, threatened, or California Endangered Species Act (CESA) rare plant species were observed during the biological survey of the property. Envicom also conducted a review of the CDFW Biogeographic Information and Observation System (BIOS); which revealed multiple special-status plant species occurrences located within one mile from the project site. The nearest occurrences from the project site include Conejo dudleya (*Dudleya parva*) located approximately 0.37 miles southeast, California Orcutt grass (Orcuttia californica) approximately 0.65 miles southwest and Lyon's Pentachaeta (Pentachaeta lyonii) located approximately 0.62 miles northwest. None of these special-status species, which are known to occur in the region, have the potential to occur on the parcel due to lack of suitable habitat or because the site is outside of the species known range or distribution. Previously disturbed areas and existing equestrian activities preclude special-status plant species from occurring within the development footprint. In addition, a review of the Critical Habitat spatial data provided by the U.S. Fish and Wildlife Service shows no critical habitat for sensitive plant species within one mile of the project site. Due to these conditions, implementation of the project is not expected to result in either direct or indirect impacts to one or more plant species by reducing the species' population, reducing the species' habitat, fragmenting its habitat, or restricting its reproductive capacity. No direct, indirect, or cumulatively considerable impacts to plant species are anticipated.

4A-2. During the biological assessment of the parcel, a total of 18 species of birds, one reptile, and six mammals were observed. Observed species were common species or relatively common to the region and represent only a sample of the species that can be expected to utilize habitats at or in the vicinity of the site for cover, foraging, and reproduction. No federal or state listed endangered or threatened wildlife species were observed during field surveys of the property. However, a review of the Critical Habitat spatial data provided by the U.S. Fish and Wildlife Service indicates designated critical habitat for the coastal California gnatcatcher surrounding the parcel. The nearest designated critical habitat is located within approximately 800 feet south of the parcel. However, given the fact that the proposed project is located within a disturbed area, and

there is little to no suitable habitat located within the project site, the project site is unlikely to support special-status species.

Birds that are protected by the California Department of Fish and Game (CDFG) Code and the Federal Migratory Bird Treaty Act (MBTA) could nest within the project site or adjacent landscaped areas in native and non-native habitats, including ornamental trees and shrubs. It is expected that some birds would nest in areas outside of the development envelope, including locations within the cactus scrub, sagebrush scrub, and exotic trees. Nesting is expected to be less frequent within the areas proposed for grading, due to the fact that a majority of the vegetation is exposed and disturbed. Special-status bird species, including those recognized on the CDFW's Special Animals list, that are known to occur in the area, include the Allen's hummingbird (Selasphorus sasin), Cooper's hawk (Accipiter cooperii), oak titmouse (Baeolophus inornatus), and southern California rufous-crowned sparrow (Aimophila ruficeps).

Based on the potential for nesting birds to occur in areas adjacent to the proposed project, construction activities may result in indirect impacts, primarily associated with construction noise and vibration. Noise and vibration may lead to abandonment of nests, changes in feeding, and disrupt breeding behavior and reproductive success. These impacts to nesting birds would therefore be considered potentially significant. In accordance with the Migratory Bird Treaty Act and CDFG Code, the proposed project would be subject to a condition of approval requiring the Applicant to forestall land clearing activities during the breeding and nesting season (January 1 - September 1), or retain a County-approved biologist to conduct site-specific surveys prior to land clearing activities during the breeding and nesting season (January 1 - September 1) and to submit a Survey Report documenting the results of the initial nesting bird survey and a plan for continued surveys and avoidance of nests.

Mitigation/Residual Impact(s)

None.

Issue (Responsible Department)*	Project Impact Degree Of Effect**				Cumulative Impact Degree Of Effect**			
	N	LS	PS-M	PS	N	LS	PS-M	PS
4B. Ecological Communities - Sensitive Plant Communities								
Will the proposed project:								

Issue (Responsible Department)*	Project Impact Degree Of Effect**				Cumulative Impact Degree Of Effect**			
	N	LS	PS-M	PS	N	LS	PS-M	PS
Temporarily or permanently remove sensitive plant communities through construction, grading, clearing, or other activities?			X				Х	
Result in indirect impacts from project operation at levels that will degrade the health of a sensitive plant community?			Х				х	

Impact Discussion:

4B-1 and 4B-2. As depicted in Figure 3 of the ISBA, project grading is expected to permanently remove approximately 0.41 acres (17,859 square feet) of the coast prickly pear – mixed coastal sage scrub plant community (G2S1.1), which is considered a natural community of special concern by CDFW. The project's grading would directly impact approximately 0.15 acres (approximately 6,534 square feet) of the vegetation community, and fuel modification would result in additional impacts of approximately 0.26 acres (approximately 11,326 square feet). These impacts to this sensitive plant community would be considered significant. Recommended Mitigation Measure (MM) BIO-1 requires a 2:1 mitigation to impact ratio, resulting in 0.82 acres of Coast Prickly Pear-Mixed Coastal Sage Scrub restoration, which would reduce potentially significant impacts to this sensitive plant community to less-than-significant.

<u>Mitigation Measure BIO-1: Compensatory Mitigation for the Loss of Prickly Pear Cactus</u> Scrub

Purpose: To mitigate potentially significant impacts to coast prickly pear – mixed coastal sage scrub vegetation communities at a 2:1 mitigation to impact ratio for the loss of 0.41 acres.

Requirement: At least 0.82 acres of prickly pear cactus scrub shall be restored and permanently protected on-site. The areas selected to be restored on-site (Restoration Areas) shall be located outside of development and fuel modification areas and shall be permanently maintained in open space through a deed restriction. The Restoration Plan shall be prepared by a County-approved qualified biologist. The Restoration Plan shall include the following:

- 1. Restoration of prickly pear cactus scrub and the establishment of prickly pear cactus scrub and its ecosystem's functions and values.
- 2. A site plan showing the location of the designated Restoration Area(s). To ensure the restoration site meets or exceeds the success criteria, the location of a

reference site for prickly pear cactus scrub shall be described by an address, Assessor's Parcel Number, or other distinguishing characteristics whereby the reference site can be found. The following data for the reference site shall include:

- a. An ecologically intact example of the alliance with minimal disturbance;
- b. Total percent cover by native plant species;
- c. Species richness; and
- d. Total percent cover by non-native plant species.

The above-referenced data should be based on at least 30 data points collected within the proposed reference site in order to base a through d on a statistically defensible value. The data collection method should be specified (e.g. point intercept, line intercept, quadrats, or some other valid method of determining cover values).

- 3. Success Criteria Restoration shall accomplish a target survivorship of 80%-90% of transplanted individuals in excellent or good health, <1% of non-native herbaceous species after five years, and 0% for other invasive plants that are ranked high or moderate on the California Invasive Plant Council (Cal-IPC) list within the restoration area.</p>
- 4. Identification of the name, address, phone number, email address, and the responsibilities of the individuals responsible for implementing the plan, including, but not limited to, the Biological Monitor (who must be a Qualified Biologist) and Restoration Contractor. The Permittee shall notify the Planning Division if any changes or additions occur to the designated Responsible Parties.
- 5. Condition Criteria Prior to earth disturbing activities, cactus pads intended for propagation will be collected. Collected material shall be in condition without excessive blemishes, abnormalities, and pest infestation. To ensure suitable salvaged material is collected and propagated the following activities shall be implemented:
 - a. On the first day of grubbing activities the Responsible Parties will identify material that meets the salvage criteria identified in the Restoration Plan including techniques for cactus pad collection;
 - b. The Responsible Parties shall conduct a pre-construction meeting with the contractors, construction workers and other consultants, for the purpose of identifying biological resources to avoid, including but not limited to, prickly pear cactus scrub areas designated for restoration; and
 - c. Prior to the propagation of the salvaged cactus pads, the Biological Monitor will inspect the salvaged material to ensure it meets the criteria established in the Restoration Plan.

- 6. A description of the methods for extraction, stockpiling, transplanting, and seeding.
- 7. A Maintenance and Monitoring Plan to ensure that the restored plant communities meet the success criteria by Year 5. The Maintenance and Monitoring Program shall include, but not be limited to, Quantitative and Qualitative Monitoring Methods, Adaptive Management and Contingency Measures, weed control and Best Management Practices to avoid impacting the prickly pear cactus scrub, including the remaining prickly pear cactus scrub adjacent to impact areas and the Restoration Areas, during grading and construction activities.

The Permittee shall record the site plan that graphically shows the Restoration Areas with the Conditions of Approval for Case No. GP17-0019 in the Office of County Recorder. The recordation of the approved Restoration Site Plan and conditions of approval serve as notification that future development will be prohibited in the Restoration Areas and that the Restoration areas shall remain preserved.

Documentation: The Permittee shall provide the Planning Division with a Restoration Plan prepared by a County-approved qualified biologist that meets the requirements of this condition. The Permittee shall submit a copy of the recorded conditions of approval and Restoration Site Plan to the Planning Division. The Permittee shall submit a report with photographs of the restoration area and a description of the restoration work to demonstrate to the Planning Division that implementation of the Restoration Plan has commenced. The Permittee shall provide annual reports prepared by a County-approved qualified biologist on the progress of the restoration area for five years (or more, if the success criteria have not been met by Year 5).

Timing: Prior to issuance of a Zoning Clearance for construction, the Permittee shall (1) submit the Restoration Plan to the Planning Division for review and approval; (2) record the conditions of approval and the approved Restoration Site Plan; and, (3) provide a copy of the recorded conditions of approval and Restoration Site Plan to the Planning Division. Implementation of the Restoration Plan shall commence prior to occupancy. The annual reports must be provided to the Planning Division by December 31st of each year during the monitoring period.

Monitoring and Reporting: The Planning Division shall review the Permittee's description of the restoration work performed, photographs of the restoration area, and conduct a site visit, to confirm that implementation of the Restoration Plan has commenced prior to occupancy. The restoration area must be monitored by a County-approved qualified biologist for at least five years (or more, if the success criteria have not been met by Year 5). The biologist shall provide an annual report on the status of the restoration area, including results of qualitative monitoring (i.e., photographs taken at permanent photo-points, observations of the health and condition of plantings and wildlife use of the restoration area, if feasible) and quantitative monitoring (i.e., randomly placed transects to estimate cover and richness), to the Planning Division for the length of the monitoring period. The Permittee shall submit the annual reports to the Planning Division

to demonstrate compliance with this condition and the success criteria. The release of the requirement for monitoring the restoration area may occur when the Planning Division determines that the success criteria have been met by Year 5 or later, based on the annual reports and a Planning Division staff site inspection.

Residual Impacts:

With the implementation of the above mitigation measure, direct and indirect projectspecific and cumulative impacts to sensitive plant communities will be less than significant.

	Issue (Responsible Department)*			npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
		N	LS	PS-M	PS	N	LS	PS-M	PS	
4C	. Ecological Communities - Waters and We	tland	s							
Wi	Will the proposed project:									
1)	Cause any of the following activities within waters or wetlands: removal of vegetation; grading; obstruction or diversion of water flow; change in velocity, siltation, volume of flow, or runoff rate; placement of fill; placement of structures; construction of a road crossing; placement of culverts or other underground piping; or any disturbance of the substratum?			X				X		
2)	Result in disruptions to wetland or riparian plant communities that will isolate or substantially interrupt contiguous habitats, block seed dispersal routes, or increase vulnerability of wetland species to exotic weed invasion or local extirpation?			Х				Х		
3)	Interfere with ongoing maintenance of hydrological conditions in a water or wetland?			Х				х		
4)	Provide an adequate buffer for protecting the functions and values of existing waters or wetlands?			Х				Х		

Impact Discussion:

4C-1 through 4C-4. Arroyo Santa Rosa, a "blue-line" stream, is located approximately 130

feet south of existing graded areas of the parcel. A field examination of the stream by Envicom (ISBA, 2018) indicates that this drainage is ephemeral in nature. This drainage flows from east to west, originating east of LaPeyre Road. Water is conveyed under LaPeyre Road via a culvert and continues west to southwest through the southeastern portion of parcel (ISBA, Figure 3, 2018) and then off-site to the southwest. Arroyo Santa Rosa is subject to the jurisdictional authority of CDFW, pursuant to CDFG Code Section 1600.

At the time of the survey, this drainage supported an incised channel, but lacked indicators of hydric vegetation or soils (Envicom, 2018). In addition, this drainage lacked other indicators commonly associated with wetland hydrology (e.g., drift deposits, surface water, and water marks). A drainage pattern was the only indicator of wetland hydrology, which was observed during the survey. Vegetation associated with this drainage is predominantly disturbed, consisting of coastal sagebrush scrub and non-native grasses and forbs. No riparian trees are associated with the drainage traversing the parcel or adjacent to the parcel. The segment of the drainage adjacent to the parcel closely resembles a grassy swale with emergent coastal scrub species along the upland margins. The portion of the stream nearest the planned development consists of primarily non-native grasses, upland mustards, and non-native castor bean (*Ricinus communis*).

Ventura County General Plan (Policy 1.5.2- 4) requires that discretionary development be located a minimum of 100 feet from significant wetland habitats. Buffer areas may be increased or decreased upon evaluation and recommendation by a qualified biologist and approval by the decision-making body. Factors to be used in determining an adjustment of the 100-foot buffer include soil type, slope stability, drainage patterns, presence or absence of endangered, threatened or rare plants or animals, and compatibility of the proposed development with the wildlife use of the wetland habitat area. The channel of the Arroyo Santa Rosa is located approximately 100 feet from the edge of the existing graded area of the project site. The Applicant is requesting a reduction in the buffer to 50 feet in order to accommodate the proposed structures.

The following section discribes the characteristics of the Arroyo Santa Rosa, which were evaluated in making a decision to accommodate a reduction of the buffer to 50 feet, pursuant to Ventura County Policy 1.5.2-4:

The segment of the stream, located next to the parcel, is disturbed, incised, and does not support distinct bed, bank and channel features. Rather, the channel is shallow and resembles a swale or agricultural ditch. No strong wetland features are evident with this drainage, except for drainage patterns. The proposed project plans do not include encroachment into the Arroyo Santa Rosa. Therefore, proposed project development would not result in direct impacts to this drainage. The drainage does not support fish or wildlife. Based on these factors, the reduction of the buffer to 50 feet from the edge of the development envelope to the stream channel would not result in significant impacts to the Arroyo Santa Rosa.

While proposed project implementation would not result in direct impacts to the Arroyo Santa Rosa, the increase in impervious surfaces, resulting in increased runoff from the project site, has the potential to adversely impact downstream aquatic habitat within the drainage (downstream of the parcel). Stormwater runoff from the site could transport excessive sediment or nutrients (e.g. fertilizers and manure), toxic pesticides or herbicides. Although the drainage segment adjacent to the southern portion of the parcel does not support sensitive wetlands and riparian habitats, contaminants conveyed by stormwater runoff could impair downstream water quality and adversely impact sensitive communities associated with the wet environments. Therefore, these potential impacts are considered potentially significant. A Hydrology and Hydraulics study was prepared for the project (LC Engineering Group, Inc, 2018).2 Hydrologic calculations indicates that there is only a one percent increase in impervious surfaces from project development resulting in a negligible increase of discharge from the pre- to post-development scenario. The Ventura County Watershed Protection District has conditioned the project to comply with the Stormwater Development Construction Program to ensure compliance with the Los Angeles Regional Water Quality Control Board NPDES Municipal Stormwater Permit. The Permittee will be required to implement Best Management Practices (BMPs) during construction. Additionally, there is a berm located at the top of the slope of the proposed grading pad that will prevent stormwater from sheet flowing off of the property. All runoff from the proposed developed area will be collected in a small onsite detention basin located near the southern portion of the project site. There will also be a small catch basin that will trap sediment from entering the proposed 24-inch pipe, which will be located adjacent to the driveway in the northern portion of the project site. The pipe receives and conveys runoff from onsite flows and offsite flow from the north. Based on these requirements, the stormwater runoff during and after development, is not expected to result in significant water quality impacts to Arroyo Santa Rosa. There are no impacts anticipated to any wetlands and waters and no cumulatively considerable impacts as a result of the proposed project.

Mitigation/Residual Impact(s)

None.

Issue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**					
	Ν	LS	PS-M	PS	Ν	LS	PS-M	PS		
4D. Ecological Communities - ESHA (Applies to Coastal Zone Only)										
Will the proposed project:										

² Hydrology and Hydraulics Study, 15498 LaPeyre Court, Moorpark, California, prepared by LC Engineering Group, Inc., dated May 23, 2018.

Issue (Responsible Department)*	Pro	-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
Temporarily or permanently remove ESHA or disturb ESHA buffers through construction, grading, clearing, or other activities and uses (ESHA buffers are within 100 feet of the boundary of ESHA as defined in Section 8172-1 of the Coastal Zoning Ordinance)?	x				X				
2) Result in indirect impacts from project operation at levels that will degrade the health of an ESHA?	X				X				

4D-1 and 4D-2. The project site is not located in the Coastal Zone; therefore, there will be no impacts to ESHA.

Mitigation/Residual Impact(s)

None.

Issue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
4E. Habitat Connectivity									
Will the proposed project:									
Remove habitat within a wildlife movement corridor?		Х				Х			
2) Isolate habitat?	Х				X				
3) Construct or create barriers that impede fish and/or wildlife movement, migration or long term connectivity or interfere with wildlife access to foraging habitat, breeding habitat, water sources, or other areas necessary for their reproduction?		x				X			

Issue (Responsible Department)*			npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	Ν	LS	PS-M	PS	
4) Intimidate fish or wildlife via the introduction of noise, light, development or increased human presence?		X				X			

4E1-4. The project site is located within a documented wildlife corridor and landscape linkage known as the South Coast Missing Linkages Santa Monica - Sierra Madre Connection. The Santa Monica-Sierra Madre Connection is a chain of linkages that connect the Santa Monica, Simi, Santa Susana, and Sierra Madre ranges, addressing two of the 15 landscape linkages identified as irreplaceable and imminently threatened. However, no existing roadway crossing structures were detected within or adjacent to the survey area and no proposed roadway crossings are known at this time (Envicom, 2018). The subject property is developed with an equestrian facility and does not provide high quality habitat for wildlife species to move through. While the project site is not anticipated to support a substantial amount of wildlife movement, the additional structures and horse operations could contribute additional noise, light, and human presence. With the inclusion of a condition of approval requiring the Permittee to submit a Lighting Plan that includes the manufacturer's specifications that limit the light intensity, and provided the lights are shielded, and cast down and away from any adjacent habitat areas, potentially significant impacts to wildlife movement and habitat connectivity would be less than significant.

Arroyo Santa Rosa, an ephemeral drainage feature that traverses along the southern portion of parcel is a potential route for movement of wildlife through the project area, connecting the large areas of scrub and agricultural open space to the southwest of the project site (west of State Route 23) with larger patches of habitat to the north, east, and west of the project area. No habitat within the drainage channel would be removed. No structures within the drainage are proposed that would impede fish and/or wildlife movement, migration or long-term connectivity or interfere with wildlife access to foraging habitat, breeding habitat, water sources, or other areas necessary for their reproduction. Residential development and residential roads in the surrounding area may act as barriers or impediments to movement between the natural scrub habitats to the south and west.

Therefore, direct, indirect, and cumulatively considerable impacts to wildlife movement and habitat connectivity are anticipated to be less-than-significant.

Mitigation/Residual Impact(s)

None.

Issue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
4F. Will the proposed project be consistent with the applicable General Plan Goals and Policies for Item 4 of the Initial Study Assessment Guidelines?			х				Х		

4F. The project was reviewed and found to be consistent with the Ventura County General Plan *Goals, Programs and Policies*. General Plan Policy 1.5.2.1 requires discretionary development which could potentially impact biological resources to be evaluated by a qualified biologist to assess impacts and, if necessary, develop mitigation measures. Envicom prepared an Initial Study Biological Assessment (ISBA) dated December 1, 2017 and Revised October 1, 2018, for the proposed project (Attachment 3). The project will impact approximately 0.41 acres of prickly pear cactus resulting in a mitigation-to-impact ratio of 2:1 or 0.82 acres of restoration. With implementation of Mitigation Measures BIO-1, the proposed project will be consistent with General Plan Policy 1.5.2.1.

County General Plan Policy 1.5.2-4 requires a setback of at least 100 feet from significant wetland habitats. The applicant is seeking a reduction of the buffer to 50 feet. An evaluation of the Arroyo Santa Rosa, per the provisions stated in Policy 1.5.2-4 indicate that the segment of the Arroyo Santa Rosa within and adjacent to the parcel, does not support significant wetlands. Therefore, a reduction of the buffer would not result in the project being found inconsistent with General Plan Policy 1.5.2-4.

Mitigation/Residual Impact(s)

With implementation of MM BIO-1, the proposed project will be consistent with the applicable General Plan Goals and Policies for Item 4 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*		_	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
5A. Agricultural Resources – Soils (Plng.)									
Will the proposed project:									
Result in the direct and/or indirect loss of soils designated Prime, Statewide Importance, Unique or Local Importance, beyond the threshold amounts set forth in Section 5a.C of the Initial Study Assessment Guidelines?	х				X				
Involve a General Plan amendment that will result in the loss of agricultural soils?	х				Х				
Be consistent with the applicable General Plan Goals and Policies for Item 5A of the Initial Study Assessment Guidelines?	х				X				

5a-1 and -2. The proposed project would not result in the direct and/or indirect loss of soils classified as Prime, Unique, or having Statewide or Local Importance pursuant to the Important Farmland Inventory, beyond the threshold amounts set forth in Section 5a.C of the Ventura County Initial Study Assessment Guidelines. The proposed project would only impact soils designated as Other Land. Furthermore, the proposed project does not involve a General Plan amendment. Therefore, the proposed project will not have a project-specific impact or make a cumulatively considerable contribution to a significant impact on agricultural soils.

5a-3. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 5a of the Ventura County Initial Assessment Guidelines.

Issue (Responsible Department)*	Project Impact Degree Cumulative Impact Degree Of Effect*								
	N	LS	PS-M	PS	N	LS	PS-M	PS	
5B. Agricultural Resources - Land Use Incomp	atibi	lity (A	G.)						
Will the proposed project:									

Issue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
If not defined as Agriculture or Agricultural Operations in the zoning ordinances, be closer than the threshold distances set forth in Section 5b.C of the Initial Study Assessment Guidelines?	X				X				
2) Be consistent with the applicable General Plan Goals and Policies for Item 5b of the Initial Study Assessment Guidelines?	Х				X				

- 5B-1. The proposed project is not defined as Agriculture or Agricultural Operations in the zoning ordinances, but be closer than the threshold distances set forth in Section 5b.C of the Initial Study Assessment Guidelines.
- 5B-2. The proposed project is consistent with the applicable General Area Plan Goals and Policies for ISAG Item 5B.

Issue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
		LS	PS-M	PS	N	LS	PS-M	PS	
6. Scenic Resources (Plng.)									
Will the proposed project:									

	Issue (Responsible Department)*	Pro	_	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
		Ν	LS	PS-M	PS	N	LS	PS-M	PS	
a)	Be located within an area that has a scenic resource that is visible from a public viewing location, and physically alter the scenic resource either individually or cumulatively when combined with recently approved, current, and reasonably foreseeable future projects?	X				X				
b)	Be located within an area that has a scenic resource that is visible from a public viewing location, and substantially obstruct, degrade, or obscure the scenic vista, either individually or cumulatively when combined with recently approved, current, and reasonably foreseeable future projects?	х				X				
c)	Be consistent with the applicable General Plan Goals and Policies for Item 6 of the Initial Study Assessment Guidelines?	Х				х				

- 6a. The project is not located within an area that has a scenic resource that is visible from a public viewing location, and physically alter the scenic resource either individually or cumulatively when combined with recently approved, current, and reasonably foreseeable future projects.
- 6b. The project is not located within an area that has a scenic resource that is visible from a public viewing location, and substantially obstruct, degrade, or obscure the scenic vista, either individually or cumulatively when combined with recently approved, current, and reasonably foreseeable future projects.
- 6c. The proposed project is consistent with the applicable General Area Plan Goals and Policies for ISAG Item 6.

Issue (Responsible Department)*		Pro	-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
			LS	PS-M	PS	N	LS	PS-M	PS	
7. 1	7. Paleontological Resources									
Wi	II the proposed project:									
a)	For the area of the property that is disturbed by or during the construction of the proposed project, result in a direct or indirect impact to areas of paleontological significance?	X				X				
b)	Contribute to the progressive loss of exposed rock in Ventura County that can be studied and prospected for fossil remains?	Х				X				
c)	Be consistent with the applicable General Plan Goals and Policies for Item 7 of the Initial Study Assessment Guidelines?	Х				Х				

- 7a. The proposed project will not result in a direct or indirect impact to areas of paleontological significance for the area of the property that is disturbed by or during the construction of the proposed project.
- 7b. The proposed project will not contribute to the progressive loss of exposed rock in Ventura County that can be studied and prospected for fossil remains.
- 7c. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 7 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
8A. Cultural Resources - Archaeological									
Will the proposed project:									
Demolish or materially alter in an adverse manner those physical characteristics that account for the inclusion of the resource in a local register of historical resources pursuant to Section 5020.1(k) requirements of Section 5024.1(g) of the Public Resources Code?	Х				Х				
2) Demolish or materially alter in an adverse manner those physical characteristics of an archaeological resource that convey its archaeological significance and that justify its eligibility for inclusion in the California Register of Historical Resources as determined by a lead agency for the purposes of CEQA?	х				X				
Be consistent with the applicable General Plan Goals and Policies for Item 8A of the Initial Study Assessment Guidelines?	Х				Х				

8A-1. A Phase 1(a) Cultural Resources Assessment was completed for the project by Envicom Corporation, dated August 27th. 2017. The conclusion in the report found that the cultural resource context of the area was determined to not be significant for prehistoric or historic cultural resources. The report also determined that the site was negative for cultural resources. Also, the proposed project is underlain by Conejo Volcanics and it is highly unlikely that any archaeological components exist in the project area. Therefore, it will not demolish or materially alter in an adverse manner those physical characteristics that account for the inclusion of the resource in a local register of historical resources pursuant to Section 5020.1(k) requirements of Section 5024.1(g) of the Public Resources Code.

8A-2. The proposed project will not demolish or materially alter in an adverse manner those physical characteristics of an archaeological resource that convey its archaeological significance and that justify its eligibility for inclusion in the California Register of Historical Resources as determined by a lead agency for the purposes of CEQA.

8A-3. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 8A of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None.

	Issue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
		N	LS	PS-M	PS	N	LS	PS-M	PS	
8B	. Cultural Resources – Historic (Plng.)									
Wi	II the proposed project:									
1)	Demolish or materially alter in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register of Historical Resources?	Х				X				
2)	Demolish or materially alter in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the Public Resources Code or its identification in a historical resources survey meeting the requirements of Section 5024.1(g) of the Public Resources Code?	х				х				
3)	Demolish or materially alter in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register of Historical Resources as determined by a lead agency for purposes of CEQA?	х				X				
4)	Demolish, relocate, or alter an historical resource such that the significance of the historical resource will be impaired [Public Resources Code, Sec. 5020(q)]?	х				Х				

Impact Discussion:

8B-1. No historic resources included on the California Register of Historical Resources exist within the proposed project site. Therefore, the proposed project would not demolish or materially alter in an adverse manner a historic resource on the California

Register of Historical Resources. Furthermore, there are no pending or approved projects located within one quarter mile of the proposed project site, which is the area for analyzing cumulative impacts to historic resources (Ventura County Initial Study Assessment Guidelines, 72). Therefore, the proposed project will not have a project-specific impact or make a cumulatively considerable contribution to a significant cumulative impact to historic resources.

8b-2. The nearest historic structures to the project site that are included on the list of Ventura County Historic Landmarks and Points of Interest can be found at Strathearn Historical Park, which are located over to miles from the proposed project area (Ventura County Historic Landmarks & Points of Interest, Third Edition, 2016). At that distance from the project site, the proposed project does not have the potential to demolish or materially alter in an adverse manner any physical characteristics that account for these historic structures inclusion in the list of Ventura County Historic Landmarks and Points of Interest. Furthermore, as stated above, there are no pending or approved projects located within one quarter mile of the proposed project site, which is the area for analyzing cumulative impacts to historic resources. Therefore, the proposed project will not have a project-specific impact or make a cumulatively considerable contribution to a significant cumulative impact to historic resources.

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8b-3. No historic resources included on the California Register of Historical Resources exist within the proposed project site. Therefore, the proposed project would not demolish or materially alter in an adverse manner those physical characteristics of an historic resource that convey its historic significance and that justify its eligibility for inclusion in the California Register of Historic Resources. Furthermore, as stated above, there are no pending or approved projects located within one quarter mile of the proposed project site, which is the area for analyzing cumulative impacts to historic resources. Therefore, the proposed project will not have a project-specific impact or make a cumulatively considerable contribution to a significant cumulative impact to historic resources.

8b-4. As stated above, the proposed project would not demolish or alter an historic resource such that the significance of the historic resource will be impaired. Furthermore, there are no pending or approved projects located within one quarter mile of the proposed project site, which is the area for analyzing cumulative impacts to historic resources. Therefore, the proposed project will not have a project-specific impact or make a cumulatively considerable contribution to a significant cumulative impact to historic resources.

	Issue (Responsible Department)*	Pro	-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
		N	LS	PS-M	PS	N	LS	PS-M	PS	
9.	Coastal Beaches and Sand Dunes									
Wi	ill the proposed project:									
a)	Cause a direct or indirect adverse physical change to a coastal beach or sand dune, which is inconsistent with any of the coastal beaches and coastal sand dunes policies of the California Coastal Act, corresponding Coastal Act regulations, Ventura County Coastal Area Plan, or the Ventura County General Plan Goals, Policies and Programs?	x				X				
b)	When considered together with one or more recently approved, current, and reasonably foreseeable probable future projects, result in a direct or indirect, adverse physical change to a coastal beach or sand dune?					х				
c)	Be consistent with the applicable General Plan Goals and Policies for Item 9 of the Initial Study Assessment Guidelines?	Х				X				

9a. The proposed project is not located near a coastal beach or sand dune and will therefore not cause a direct or indirect adverse physical change to a coastal beach or sand dune, which is inconsistent with any of the coastal beaches and coastal sand dunes policies of the California Coastal Act, corresponding Coastal Act regulations, Ventura County Coastal Area Plan, or the Ventura County General Plan Goals, Policies and Programs.

9b. The proposed project is not located near a coastal beach or sand dune and will therefore not When considered together with one or more recently approved, current, and reasonably foreseeable probable future projects, result in a direct or indirect, adverse physical change to a coastal beach or sand dune.

9c. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 9 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	_	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
10. Fault Rupture Hazard (PWA)									
Will the proposed project:									
a) Be at risk with respect to fault rupture in its location within a State of California designated Alquist-Priolo Special Fault Study Zone?	x								
b) Be at risk with respect to fault rupture in its location within a County of Ventura designated Fault Hazard Area?	х								
c) Be consistent with the applicable General Plan Goals and Policies for Item 10 of the Initial Study Assessment Guidelines?	х				X				

10a and 10b. Any discussion of potential impacts of seismic and geologic hazards to the proposed project is provided for informational purposes only and is neither required by CEQA nor subject to its requirements. There are no known active or potentially active faults extending through the proposed project based on State of California Earthquake Fault Zones in accordance with the Alquist-Priolo Earthquake Fault Zoning Act, and Ventura County General Plan Hazards Appendix –Figure 2.2.3b. Furthermore, no proposed habitable structures are within 50 feet of a mapped trace of an active fault. There is no impact (N) from potential fault rupture hazard.

There is no known cumulative fault rupture hazard impact that will occur as a result of other approved, proposed, or probable projects.

10c. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 10 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*		-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
11. Ground Shaking Hazard (PWA)									
Will the proposed project:									
a) Be built in accordance with all applicable requirements of the Ventura County Building Code?		x				x			
b) Be consistent with the applicable General Plan Goals and Policies for Item 11 of the Initial Study Assessment Guidelines?		х				Х			

11a. The proposed agricultural road will be built in accordance with all applicable requirements of the 2016 Ventura County Building Code. No structures or facilities will be constructed at this time. Any discussion of potential impacts of seismic and geologic hazards to the proposed project is provided for informational purposes only and is neither required by CEQA nor subject to its requirements. The property will subject to moderate to strong ground shaking from seismic events on local and regional fault systems. No new structures are proposed as part of this project at this time and the effects of ground shaking are considered less than significant.

The hazards from ground shaking will affect each project individually; and no cumulative ground shaking hazard will occur as a result of other approved, proposed, or probable projects.

11b. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 11 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*		-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	Ν	LS	PS-M	PS	
12. Liquefaction Hazards (PWA)									
Will the proposed project:									
a) Expose people or structures to potential adverse effects, including the risk of loss, injury, or death involving liquefaction because it is located within a Seismic Hazards Zone?	X								
b) Be consistent with the applicable General Plan Goals and Policies for Item 12 of the Initial Study Assessment Guidelines?	Х				Х				

12a. Any discussion of potential impacts of seismic and geologic hazards to the proposed project is provided for informational purposes only and is neither required by CEQA nor subject to its requirements. The site is not located within a potential liquefaction zone based on the Ventura County General Plan Hazards Appendix – Figure 2.4b. This map is a compilation of the State of California Seismic Hazards Maps for the County of Ventura and is used as the basis for delineating the potential liquefaction hazards within the County. Consequently, liquefaction is not a factor for the proposed project and the site is not within a State of California Seismic Hazards zone for liquefaction. There is no impact from potential hazards from liquefaction.

The hazards from liquefaction will affect each project individually; and no cumulative liquefaction hazard will occur as a result of other approved, proposed, or probable projects.

12b. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 12 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*			npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
13. Seiche and Tsunami Hazards (PWA)									
Will the proposed project:									
a) Be located within about 10 to 20 feet of vertical elevation from an enclosed body of water such as a lake or reservoir?	х								
b) Be located in a mapped area of tsunami hazard as shown on the County General Plan maps?	х								
c) Be consistent with the applicable General Plan Goals and Policies for Item 13 of the Initial Study Assessment Guidelines?	х				х				

13a. Any discussion of potential impacts of seismic and geologic hazards to the proposed project is provided for informational purposes only and is neither required by CEQA nor subject to its requirements. The site is not located adjacent to a closed or restricted body of water based on aerial imagery review and is not subject to seiche hazard.

13b. Any discussion of potential impacts of seismic and geologic hazards to the proposed project is provided for informational purposes only and is neither required by CEQA nor subject to its requirements. The project is not mapped within a tsunami inundation zone based on the Ventura County General Plan, Hazards Appendix Figure 2.6. There is no impact from potential hazards from tsunami.

The hazards from seiche and tsunami will affect each project individually; and no cumulative seiche and tsunami hazard will occur as a result of other approved, proposed, or probable projects.

13c. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 13 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	_	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
14. Landslide/Mudflow Hazard (PWA)									
Will the proposed project:									
a) Result in a landslide/mudflow hazard, as determined by the Public Works Agency Certified Engineering Geologist, based on the location of the site or project within, or outside of mapped landslides, potential earthquake induced landslide zones, and geomorphology of hillside terrain?	X								
b) Be consistent with the applicable Genera Plan Goals and Policies for Item 14 of the Initial Study Assessment Guidelines?					X				

14a. Landslides and mudslides are not presently mapped within the property as determined by the Public Works Agency Certified Engineering Geologist, based on the location of the site or project within, or outside of mapped landslides, potential earthquake induced landslide zones, and geomorphology of hillside terrain.

The hazards from landslides/mudslides will affect each project individually; and no cumulative landslide/mudslide hazard will occur as a result of other approved, proposed, or probable projects.

14b. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 14 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*		-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	Ν	LS	PS-M	PS	N	LS	PS-M	PS	
15. Expansive Soils Hazards (PWA)									
Will the proposed project:									
a) Expose people or structures to potential adverse effects, including the risk of loss, injury, or death involving soil expansion because it is located within a soils expansive hazard zone or where soils with an expansion index greater than 20 are present?	X								
b) Be consistent with the applicable General Plan Goals and Policies for Item 15 of the Initial Study Assessment Guidelines?	Х				Х				

15a. The onsite soil has an expansive index of less than 20 per the Calwest Geotechnical report and the referenced reports in mentioned Geotechnical Reports. The recommendation for any import material per the above mentioned report state the import material should be comparable to the onsite native soil and alluvium.

The hazards from expansive soils will affect each project individually; and no cumulative expansive soils hazard will occur as a result of other approved, proposed, or probable projects.

15b. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 15 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*		-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
16. Subsidence Hazard (PWA)									
Will the proposed project:									
a) Expose people or structures to potential adverse effects, including the risk of loss, injury, or death involving subsidence because it is located within a subsidence hazard zone?	х								
b) Be consistent with the applicable General Plan Goals and Policies for Item 16 of the Initial Study Assessment Guidelines?	Х				X				

16a. The subject property is not within the probable subsidence hazard zone as delineated on the Ventura County General Plan Hazards Appendix Figure 2.8 (October 22, 2013) and the project is not for oil, gas or groundwater withdrawal, the project is considered to have no impact on the hazard of subsidence.

The hazards from subsidence will affect each project individually; and no cumulative subsidence hazard will occur as a result of other approved, proposed, or probable projects.

16b. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 16 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	Project Impact Degree Of Effect**			Cumulative Impa Degree Of Effec			
	N	LS	PS-M	PS	N	LS	PS-M	PS
17a. Hydraulic Hazards – Non-FEMA (PWA)								
Will the proposed project:								
 Result in a potential erosion/siltation hazard and flooding hazard pursuant to any of the following documents (individually, collectively, or in combination with one another): 2007 Ventura County Building Code Ordinance No.4369 Ventura County Land Development Manual Ventura County Subdivision Ordinance Ventura County Coastal Zoning Ordinance Ventura County Non-Coastal Zoning Ordinance Ventura County Non-Coastal Zoning Ordinance Ventura County Standard Land Development Specifications Ventura County Road Standards Ventura County Watershed Protection District Hydrology Manual County of Ventura Stormwater Quality Ordinance, Ordinance No. 4142 Ventura County Hillside Erosion Control Ordinance, Ordinance No. 3539 and Ordinance No. 3683 Ventura County Municipal Storm Water NPDES Permit State General Construction Permit State General Industrial Permit National Pollutant Discharge Elimination System (NPDES)? 		X				X		
Be consistent with the applicable General Plan Goals and Policies for Item 17A of the Initial Study Assessment Guidelines?		x				х		

17A-1. The proposed project consists of cut and fill grading to construct a flat pad to improve an existing equestrian operation. The *Hydrology and Hydrologic Study* prepared by LC Engineering Group on May 23, 2018, indicates there will be a very minor increase in impervious surface at 4% to 5%. A detention basin is proposed to mitigate the new impervious area.

17A-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 17A of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None.

	Issue (Responsible Department)*			npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
		N	LS	PS-M	PS	N	LS	PS-M	PS	
17	b. Hydraulic Hazards – FEMA (WPD)									
W	III the proposed project:									
1)	Be located outside of the boundaries of a Special Flood Hazard Area and entirely within a FEMA-determined 'X-Unshaded' flood zone (beyond the 0.2% annual chance floodplain: beyond the 500-year floodplain)?	Х				Х				
2)	Be located outside of the boundaries of a Special Flood Hazard Area and entirely within a FEMA-determined 'X-Shaded' flood zone (within the 0.2% annual chance floodplain: within the 500-year floodplain)?	Х				X				
3)	Be located, in part or in whole, within the boundaries of a Special Flood Hazard Area (1% annual chance floodplain: 100-year), but located entirely outside of the boundaries of the Regulatory Floodway?	X				Х				
4)	Be located, in part or in whole, within the boundaries of the Regulatory Floodway, as determined using the 'Effective' and latest available DFIRMs provided by FEMA?	Х				X				
5)	Be consistent with the applicable General Plan Goals and Policies for Item 17B of the Initial Study Assessment Guidelines?	X				X				

Impact Discussion:

17B-1 thru 4. The proposed project is not located within the boundaries of a FEMA regulated Special Flood Hazard Area nor is it in a Regulatory Floodway determined using the most recent DFIRMs provided by FEMA.

17B-5. The project is consistent with the applicable General Plan Goals and Policies for Item 17B of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*		•	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
18. Fire Hazards (VCFPD)									
Will the proposed project:									
a) Be located within High Fire Hazard Areas/Fire Hazard Severity Zones or Hazardous Watershed Fire Areas?		x				Х			
b) Be consistent with the applicable General Plan Goals and Policies for Item 18 of the Initial Study Assessment Guidelines?		х				Х			

Impact Discussion:

18a. The project is located in a high fire hazard area and will comply with all applicable Federal, State regulations and the requirements of the VCBC and the Fire Code.

18b. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 18 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	_	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	Ν	LS	PS-M	PS	Ν	LS	PS-M	PS	
19. Aviation Hazards (Airports)									
Will the proposed project:									
a) Comply with the County's Airport Comprehensive Land Use Plan and preestablished federal criteria set forth in Federal Aviation Regulation Part 77 (Obstruction Standards)?	х				Х				
b) Will the proposed project impact residential development within the sphere of influence of County airports, as well as churches, schools and high commercial purpose	Х				X				
c) Be consistent with the applicable General Plan Goals and Policies for Item 19 of the Initial Study Assessment Guidelines?	Х				X				

19a. The proposed project is not located within the sphere of influence of an Airport and therefore, the proposed project complies with the County's Airport Comprehensive Land Use Plan and pre-established federal criteria set forth in Federal Aviation Regulation Part 77 (Obstruction Standards).

19b. The proposed project is located in a sparsely populated area and is not in the sphere of influence of County airports, as well as churches, schools and high commercial purpose. Therefore, there will be no impact.

19c. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 19 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*		Project Impact Degree Of Effect**				Cumulative Impact Degree Of Effect**				
		LS	PS-M	PS	N	LS	PS-M	PS		
20a. Hazardous Materials/Waste – Materials (E	HD/F	ire)								
Will the proposed project:										
Utilize hazardous materials in compliance with applicable state and local requirements as set forth in Section 20a of the Initial Study Assessment Guidelines?	х				Х					
Be consistent with the applicable General Plan Goals and Policies for Item 20a of the Initial Study Assessment Guidelines?	х				X					

20A-1. The proposed project does not involve the use of any hazardous materials. The proposed project will not have any project-specific or cumulative impacts relative to hazardous materials.

20A-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 20a of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*		•	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
20b. Hazardous Materials/Waste – Waste (EHD	HD)								
Will the proposed project:									
Comply with applicable state and local requirements as set forth in Section 20b of the Initial Study Assessment Guidelines?	X				X				
Be consistent with the applicable General Plan Goals and Policies for Item 20b of the Initial Study Assessment Guidelines?	Х				х				

20b-1. The proposed project is not considered an activity that produces hazardous waste. The proposed project will not have any project-specific or cumulative impacts relative to hazardous wastes.

20b-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 20b of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	_	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	N LS PS-M PS			Ν	LS	PS-M	PS	
21. Noise and Vibration									
Will the proposed project:									

Issue (Responsible Department)*	Pro		npact De Effect**	gree				/e Impact f Effect**		
a) Either individually or when combined with	N	LS	PS-M	PS	N	LS	PS-M	PS		
other recently approved, pending, and probable future projects, produce noise in excess of the standards for noise in the Ventura County General Plan Goals, Policies and Programs (Section 2.16) or the applicable Area Plan?		x				Х				
b) Either individually or when combined with other recently approved, pending, and probable future projects, include construction activities involving blasting, pile-driving, vibratory compaction, demolition, and drilling or excavation which exceed the threshold criteria provided in the Transit Noise and Vibration Impact Assessment (Section 12.2)?		X				X				
c) Result in a transit use located within any of the critical distances of the vibration- sensitive uses listed in Table 1 (Initial Study Assessment Guidelines, Section 21)?		х				X				
d) Generate new heavy vehicle (e.g., semitruck or bus) trips on uneven roadways located within proximity to sensitive uses that have the potential to either individually or when combined with other recently approved, pending, and probable future projects, exceed the threshold criteria of the Transit Use Thresholds for rubber-tire heavy vehicle uses (Initial Study Assessment Guidelines, Section 21-D, Table 1, Item No. 3)?		X				X				
e) Involve blasting, pile-driving, vibratory compaction, demolition, drilling, excavation, or other similar types of vibration-generating activities which have the potential to either individually or when combined with other recently approved, pending, and probable future projects, exceed the threshold criteria provided in the Transit Noise and Vibration Impact Assessment [Hanson, Carl E., David A. Towers, and Lance D. Meister. (May 2006) Section 12.2]?		X				X				

ls	ssue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
		Ν	LS	PS-M	PS	N	LS	PS-M	PS	
Plar	consistent with the applicable General n Goals and Policies for Item 21 of the all Study Assessment Guidelines?		X				X			

21a thru d. The proposed project is located in a sparsely populated, equestrian use and agricultural area that is not in close proximity to any vibration-sensitive uses. Although construction activities will generate noise and will require a temporary, increase in heavy equipment traffic along Tierra Rejada Road, the impact is less than significant due to the remote location and temporary nature.

Construction activities that generate noise and vibrations are limited to Monday through Friday between the hours of 7am and 7pm, Saturdays from 9am to 4pm and no work on Sundays and Holidays. Truck trips are limited to between to 40 (maximum) round trips per day, Monday through Friday.

By following the standards set by the Public Works Agency for construction activities, the impacts from noise and vibrations will be less than significant.

21f. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 21 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
22. Daytime Glare									
Will the proposed project:									
a) Create a new source of disability glare or discomfort glare for motorists travelling along any road of the County Regional Road Network?	X				X				
b) Be consistent with the applicable General Plan Goals and Policies for Item 22 of the Initial Study Assessment Guidelines?	х				X				

22a. The proposed grading project will not create a new source of disability glare or discomfort glare for motorists travelling along any road of the County Regional Road Network, as it is approximately 0.25 miles away from Tierra Rejada off a private road.

22b. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 22 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*		-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
23. Public Health (EHD)									
Will the proposed project:									
a) Result in impacts to public health from environmental factors as set forth in Section 23 of the Initial Study Assessment Guidelines?	Х				X				
b) Be consistent with the applicable General Plan Goals and Policies for Item 23 of the Initial Study Assessment Guidelines?	Х				X				

No project-specific or cumulative impacts to public health were identified during the review of the proposed project.

23b. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 23 of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*		Project Impact Degree Of Effect**				Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS		
24. Greenhouse Gases (VCAPCD)										
Will the proposed project:										
a) Result in environmental impacts from greenhouse gas emissions, either project specifically or cumulatively, as set forth in CEQA Guidelines §§ 15064(h)(3), 15064.4, 15130(b)(1)(B) and -(d), and 15183.5?		Х				х				

Impact Discussion:

24a. The Ventura County Air Pollution Control District has not yet adopted any approach to setting a threshold of significance for land use development projects in the area of project greenhouse gas emissions. The project will generate less than significant impacts to regional and local air quality. Furthermore, the amount of greenhouse gases anticipated from the project will be a small fraction of the levels being considered by the APCD for greenhouse gas significance thresholds and far below those adopted to date by any air district in the state.

Therefore, the project specific and cumulative impacts to greenhouse gases are less than significant.

Issue (Responsible Department)*	Pro	_	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
25. Community Character (Plng.)									
Will the proposed project:									
a) Either individually or cumulatively when combined with recently approved, current, and reasonably foreseeable probable future projects, introduce physical development that is incompatible with existing land uses, architectural form or style, site design/layout, or density/parcel sizes within the community in which the project site is located?		X				X			
b) Be consistent with the applicable General Plan Goals and Policies for Item 25 of the Initial Study Assessment Guidelines?		х				Х			

25a. The project site and the surrounding area all contain similar land uses, architectural form or style, site design/layout, or density/parcel sizes within the community in which the project site is located. Therefore, there will be a less than significant impact.

25b. The proposed project would be consistent with the applicable General Plan Goals and Policies for Item 25 of the Ventura County Initial Study Assessment Guideline.

Issue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
26. Housing (Plng.)									
Will the proposed project:									
 a) Eliminate three or more dwelling units that are affordable to: moderate-income households that are located within the Coastal Zone; and/or, lower-income households? 	X				X				
b) Involve construction which has an impact on the demand for additional housing due to potential housing demand created by construction workers?		X				X			
c) Result in 30 or more new full-time-equivalent lower-income employees?	X				Х				
d) Be consistent with the applicable General Plan Goals and Policies for Item 26 of the Initial Study Assessment Guidelines?	Х				X				

26a. The proposed project would not eliminate three or more dwelling units that are affordable to moderate-income households that are located within the Coastal Zone, and/or lower-income households. Therefore, the proposed project will not have a project-specific impact or make a cumulatively considerable contribution to a significant cumulative impact related to the elimination of housing.

26b. As stated in the Ventura County Initial Study Assessment Guidelines (146), any project that involves construction has an impact on the demand for additional housing due to potential housing demand created by construction workers. However, construction work is short-term and there is a sufficient pool of construction workers within Ventura County and the Los Angeles metropolitan regions. Therefore, the proposed project will have a less-than-significant project-specific impact and will not make a cumulatively considerable contribution to a significant cumulative impact related to housing demand for construction workers.

26c. The proposed project consists of a grading project to improve an existing equestrian facility and does not include the introduction of a new use (e.g., establishment of a new business) that will result in 30 or more new full-time-equivalent lower-income employees. Therefore, the proposed project will not have a project-specific impact or make a cumulatively considerable contribution to a significant cumulative impact related to housing demand from lower-income employees.

26d. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 26 of the Ventura County Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*	Pro	_	npact De Effect**	gree	Cumulative Impact Degree Of Effect**			
	N	LS	PS-M	PS	N	LS	PS-M	PS
27a(1). Transportation & Circulation - Roads a	nd H	ighwa	ys - Leve	el of S	ervice	(LOS)	(PWA)	
Will the proposed project:								
a) Cause existing roads within the Regional Road Network or Local Road Network that are currently functioning at an acceptable LOS to function below an acceptable LOS?		х				x		

Impact Discussion:

27a(1)-a. Per the approved grading plans creating a flat pad by through cut and fill grading, as well as import operations. Truck trips are limited to a maximum of 40 round trips per day, Monday through Friday. Therefore, the proposed project will not cause existing roads within the Regional Road Network or Local Road Network that are currently functioning at an acceptable LOS to function below an acceptable LOS.

Issue (Responsible Department)*	Pro	-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
27a(2). Transportation & Circulation - Roads and Highways - Safety and Design of Public Roads (PWA)									
Will the proposed project:									

Issue (Responsible Department)*			npact De Effect**	gree	Cumulative Impact Degree Of Effect**			
	N	LS	PS-M	PS	N	LS	PS-M	PS
a) Have an Adverse, Significant Project-Specific or Cumulative Impact to the Safety and Design of Roads or Intersections within the Regional Road Network (RRN) or Local Road Network (LRN)?		x				Х		

27a(2)-a. Per the approved grading plans creating a flat pad by through cut and fill grading, as well as import operations. There will be a limited increase in traffic on the Regional and Local Road Network will be for the import of soil, which is limited to 40 (maximum) round trips per day, Monday through Friday. Therefore, there will be no adverse, significant project specific or cumulative impact to the Safety and Design of Roads or Intersections within the Regional Road Network (RRN) or Local Road Network (LRN).

Issue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
27a(3). Transportation & Circulation - Roads & Highways - Safety & Design of Private Access (VCFPD)									
a) If a private road or private access is proposed, will the design of the private road meet the adopted Private Road Guidelines and access standards of the VCFPD as listed in the Initial Study Assessment Guidelines?		X				X			
b) Will the project be consistent with the applicable General Plan Goals and Policies for Item 27a(3) of the Initial Study Assessment Guidelines?		х				х			

27a(3)-a. The proposed project does not include the construction of a private road or access. An existing private road serves the subject property and meet minimum VCFPD access standards. Therefore, there will be a less than significant impact.

27a(3)-b. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 27a(3) of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*		-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
27a(4). Transportation & Circulation - Roads & Highways - Tactical Access (VCFPD)									
Will the proposed project:									
a) Involve a road or access, public or private, that complies with VCFPD adopted Private Road Guidelines?		X				X			
b) Be consistent with the applicable General Plan Goals and Policies for Item 27a(4) of the Initial Study Assessment Guidelines?		х				Х			

Impact Discussion:

27a(4)-a. The proposed project does not include the construction of a private road or access. An existing private road serves the subject property. Therefore, there will be a less than significant impact.

27a(4)-b. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 27a(4) of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	-	npact De Effect**	gree			tive Impa Of Effec			
	N	LS	PS-M	PS	N	LS	PS-M	PS		
27b. Transportation & Circulation - Pedestrian/Bicycle Facilities (PWA/PIng.)										
Will the proposed project:										
Will the Project have an Adverse, Significant Project-Specific or Cumulative Impact to Pedestrian and Bicycle Facilities within the Regional Road Network (RRN) or Local Road Network (LRN)?					x					
2) Generate or attract pedestrian/bicycle traffic volumes meeting requirements for protected highway crossings or pedestrian and bicycle facilities?					х					
Be consistent with the applicable General Plar Goals and Policies for Item 27b of the Initia Study Assessment Guidelines?					х					

- 27b-1. The proposed project would not result in actual or potential barriers to existing or planned pedestrian/bike facilities. Therefore, the proposed project will not have a project-specific impact and will not make a cumulatively considerable contribution to a significant cumulative impact on pedestrian/bike facilities.
- 27b-2. The proposed project is a grading project on private land that would not attract pedestrian/bicycle traffic volumes meeting the requirements for protected highway crossings or pedestrian and bicycle facilities. Therefore, the proposed project would not have a project-specific impact or make a cumulatively considerable contribution to cumulative impacts on pedestrian/bicycle facilities.
- 27b-3. The proposed project is consistent the applicable General Plan Goals and Policies for Item 27 of the Ventura County Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*		-	npact De Effect**	gree			tive Impa Of Effec		
	N	LS	PS-M	PS	N	LS	PS-M	PS	
27c. Transportation & Circulation - Bus Transi	sit								
Will the proposed project:									
Substantially interfere with existing bus transit facilities or routes, or create a substantial increase in demand for additional or new bus transit facilities/services?		х				x			
Be consistent with the applicable General Plan Goals and Policies for Item 27c of the Initial Study Assessment Guidelines?		Х				Х			

Impact Discussion:

27c-1. The proposed project will not generate any long-term additional daily vehicle trips as there are no structures proposed, therefore this project will not substantially interfere with existing bus transit facilities or routes, or create a substantial increase in demand for additional or new bus transit facilities/services.

27c-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 27c of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*		•	npact De Effect**	gree			tive Impa Of Effec	
	N	LS	PS-M	PS	N	LS	PS-M	PS
27d. Transportation & Circulation - Railroads								
Will the proposed project:								

Issue (Responsible Department)*		_	npact De Effect**	gree			tive Impa Of Effec	
	N	LS	PS-M	PS	N	LS	PS-M	PS
Individually or cumulatively, substantially interfere with an existing railroad's facilities or operations?	Х				X			
Be consistent with the applicable General Plan Goals and Policies for Item 27d of the Initial Study Assessment Guidelines?	х				X			

27d-1. There are no rail lines in the vicinity of the proposed project and therefore the project would not Individually or cumulatively, substantially interfere with an existing railroad's facilities or operations.

27d-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 27d of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	-	npact De Effect**	gree			tive Impa Of Effec		
	N	LS	PS-M	PS	Ν	LS	PS-M	PS	
27e. Transportation & Circulation – Airports (A	Airports)								
Will the proposed project:									
Have the potential to generate complaints and concerns regarding interference with airports?	x				Х				
Be located within the sphere of influence of either County operated airport?	Х				Х				
Be consistent with the applicable General Plan Goals and Policies for Item 27e of the Initial Study Assessment Guidelines?	х				Х				

27e-1 and 2. There are no airports in the vicinity of the proposed project nor is it located within the sphere of influence of either County Airport. Therefore, the proposed project would not have the potential to generate complaints and concerns regarding interference with airports.

27e-3. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 27e of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*	Pro	_	npact De Effect**	gree			tive Impa Of Effec		
	Ζ	LS	PS-M	PS	N	LS	PS-M	PS	
27f. Transportation & Circulation - Harbor Faci	cilities (Harbors)								
Will the proposed project:									
Involve construction or an operation that will increase the demand for commercial boat traffic and/or adjacent commercial boat facilities?	Х				X				
Be consistent with the applicable General Plan Goals and Policies for Item 27f of the Initial Study Assessment Guidelines?	Х				x				

Impact Discussion:

- 27f-1. The proposed project is not located near a Harbor and it does not involve commercial boating operations.
- 27f-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 27f of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*		-	npact De Effect**	gree			tive Impa Of Effec	
	N	LS	PS-M	PS	N	LS	PS-M	PS
27g. Transportation & Circulation - Pipelines								
Will the proposed project:								
Substantially interfere with, or compromise the integrity or affect the operation of, an existing pipeline?	Х				X			
Be consistent with the applicable General Plan Goals and Policies for Item 27g of the Initial Study Assessment Guidelines?	Х				X			

27g-1. There are no pipelines in the vicinity of the proposed project and therefore it will not Substantially interfere with, or compromise the integrity or affect the operation of, an existing pipeline.

27g-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 27g of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro		npact De Effect**	gree			tive Impa Of Effec	
	N	LS	PS-M	PS	N	LS	PS-M	PS
28a. Water Supply – Quality (EHD)								
Will the proposed project:								

Issue (Responsible Department)*		_	npact De Effect**	gree			tive Impa	
	N	LS	PS-M	PS	Ν	LS	PS-M	PS
Comply with applicable state and local requirements as set forth in Section 28a of the Initial Study Assessment Guidelines?		X				x		
2) Be consistent with the applicable General Plan Goals and Policies for Item 28a of the Initial Study Assessment Guidelines?		X				x		

28a-1. The proposed project will not require a new source of potable quality water. The subject property has an existing water connection through Camrosa Water District.

28a-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 28a of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	-	npact De Effect**	gree			tive Impa Of Effec	
	Ν	LS	PS-M	PS	N	LS	PS-M	PS
28b. Water Supply – Quantity (WPD)								
Will the proposed project:								
Have a permanent supply of water?	Х				X			
2) Either individually or cumulatively when combined with recently approved, current, and reasonably foreseeable probable future projects, introduce physical development that will adversely affect the water supply quantity of the hydrologic unit in which the project site is located?		х				х		
3) Be consistent with the applicable General Plan Goals and Policies for Item 28b of the Initial Study Assessment Guidelines?		Х				Х		

- 28b-1. The property is currently served by Camrosa Water District though an existing connection and will not need a new connection.
- 28b-2. The proposed project is a grading project and will not generate the need for additional water usage. Water used during construction to control dust and achieve proper compaction will be minimal and will not adversely affect the water supply quantity of the hydrologic unit in which the project site is located.
- 28b-3. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 28b of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s) None.

Issue (Responsible Department)*	Pro	-	npact De Effect**	gree			tive Impa		
	N	LS	PS-M	PS	N	LS	PS-M	PS	
28c. Water Supply - Fire Flow Requirements (\	(VCFPD)								
Will the proposed project:									
Meet the required fire flow?		Х				Х			
Be consistent with the applicable General Plan Goals and Policies for Item 28c of the Initial Study Assessment Guidelines?		х				Х			

Impact Discussion:

- 28c-1. Any future structures shall meet VCFPD fire flow requirements.
- 28c-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 28c of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	_	npact De Effect**	gree			tive Impa Of Effec		
	N	LS	PS-M	PS	N	LS	PS-M	PS	
29a. Waste Treatment & Disposal Facilities - In	ndividual Sewage Disposal Systems (EHD)								
Will the proposed project:									
Comply with applicable state and local requirements as set forth in Section 29a of the Initial Study Assessment Guidelines?		х				х			
Be consistent with the applicable General Plan Goals and Policies for Item 29a of the Initial Study Assessment Guidelines?		Х				Х			

29a-1. Proposed project description includes "importing and grading" to create an area for new structures which will require the installation of a new OWTS. The site plan for proposed project shows the proposed seepage pits and sand filter are located within the proposed grading area. An evaluation of the proposed OWTS shall be conducted by this Division prior to construction. Division Liquid Waste staff will determine if the proposed seepage pits are properly designed and sited based on soil conditions after the grading activities have been completed.

An OWTS that is improperly installed, failing, damaged, or poorly maintained has the potential to create a public nuisance and/or health concern and contaminate groundwater. Conformance with the Ventura County Building Code, State OWTS policy, and EHD guidelines, as well as proper routine maintenance of OWTS, will reduce any project- specific and cumulative impacts to a level considered less than significant.

29a-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 29a of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	

29b. Waste Treatment & Disposal Facilities - Sewage Collection/Treatment Facilities (EHD)

Issue (Responsible Department)*	Pro	-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
Will the proposed project:									
Comply with applicable state and local requirements as set forth in Section 29b of the Initial Study Assessment Guidelines?	Х				X				
2) Be consistent with the applicable General Plan Goals and Policies for Item 29b of the Initial Study Assessment Guidelines?	Х				X				

29b-1. The proposed project will not require connection to a public sewer. The proposed project will not have any project-specific or cumulative impacts relative to sewage

collection/treatment facilities.

29b-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 29b of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	_	npact De Effect**	gree	Cumulative Impact Degree Of Effect**					
	N	LS	PS-M	PS	N	LS	PS-M	PS		
29c. Waste Treatment & Disposal Facilities - Solid Waste Management (PWA)										
Will the proposed project:										
Have a direct or indirect adverse effect on a landfill such that the project impairs the landfill's disposal capacity in terms of reducing its useful life to less than 15 years?		х				Х				
Be consistent with the applicable General Plan Goals and Policies for Item 29c of the Initial Study Assessment Guidelines?		х				Х				

29c-1. As required by California Public Resources Code (PRC) 41701, Ventura County's Countywide Siting Element (CSE), adopted in June 2001 and updated annually, confirms Ventura County has at least 15 years of disposal capacity available for waste generated by in-County projects. Because the County currently exceeds the minimum disposal capacity required by state PRC, the proposed project will have less than a significant project-specific impacts upon Ventura County's solid waste disposal capacity.

29c-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 29c of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s) None.

Issue (Responsible Department)*	Pro	•	npact De Effect**	gree	Cumulative Impact Degree Of Effect**					
	N	LS	PS-M	PS	N	LS	PS-M	PS		
29d. Waste Treatment & Disposal Facilities - Solid Waste Facilities (EHD)										
Will the proposed project:										
Comply with applicable state and local requirements as set forth in Section 29d of the Initial Study Assessment Guidelines?	х				х					
Be consistent with the applicable General Plan Goals and Policies for Item 29d of the Initial Study Assessment Guidelines?	Х				х					

Impact Discussion:

29d-1. The proposed project does not include a solid waste facility. The proposed project will not create any adverse project-specific or cumulative impacts relating to solid waste facilities.

29d-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 29d of the Initial Study Assessment Guidelines.

	Issue (Responsible Department)*	Pro		npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
		N	LS	PS-M	PS	N	LS	PS-M	PS	
30	. Utilities									
Wi	ill the proposed project:									
a)	Individually or cumulatively cause a disruption or re-routing of an existing utility facility?	х				Х				
b)	Individually or cumulatively increase demand on a utility that results in expansion of an existing utility facility which has the potential for secondary environmental impacts?	x				Х				
c)	Be consistent with the applicable General Plan Goals and Policies for Item 30 of the Initial Study Assessment Guidelines?	х				Х				

30a and b. The proposed project does not involve the installation or re-route of any utility, existing or planned as there will be no structures or facilities built.

30c. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 30 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	Project Impact Degree Of Effect**				Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS		
31a. Flood Control Facilities/Watercourses - W	acilities/Watercourses - Watershed Protection District (WPD)									
Will the proposed project:										
1) Either directly or indirectly, impact flood control facilities and watercourses by obstructing, impairing, diverting, impeding, or altering the characteristics of the flow of water, resulting in exposing adjacent property and the community to increased risk for flood hazards?		x				х				
Be consistent with the applicable General Plan Goals and Policies for Item 31a of the Initial Study Assessment Guidelines?		х				х				

31a-1. The proposed project will not result in an increase or change in direction of flow from the existing natural conditions. The project is being designed with an inlet and riprap outlet, as well as a detention pond that will maintain the present runoff amounts. Therefore, the project will not directly or indirectly, impact flood control facilities and watercourses by obstructing, impairing, diverting, impeding, or altering the characteristics of the flow of water, resulting in exposing adjacent property and the community to increased risk for flood hazards due to the existing and proposed conditions being similar and runoff will be returned to natural sheet flow conditions.

31a-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 31a of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro		npact De Effect**	gree		tive Impa Of Effec		
	N	LS	PS-M	PS	Ν	LS	PS-M	PS
31b. Flood Control Facilities/Watercourses - O	ther	Facili	ties (PW	A)				
Will the proposed project:								
Result in the possibility of deposition of sediment and debris materials within existing channels and allied obstruction of flow?		Х				Х		
Impact the capacity of the channel and the potential for overflow during design storm conditions?		х				x		
Result in the potential for increased runoff and the effects on Areas of Special Flood Hazard and regulatory channels both on and off site?		x				х		
4) Involve an increase in flow to and from natural and man-made drainage channels and facilities?		Х				Х		
5) Be consistent with the applicable General Plan Goals and Policies for Item 31b of the Initial Study Assessment Guidelines?		х				x		

31b-1 thru 4. The *Hydrology and Hydraulics Study* prepared by LC Engineering Group, Inc. on May 23rd, 2018, indicates that with the implementation of Best Management Practices per the erosion control plan/SWPPP, in addition to the installation of a detention basin, the erosion potential will not increase from its current condition.

There will be an increase in impervious surfaces, but will be offset by a detention basin, calculated in the above mentioned Hydrology and Hydraulics Study. The overall project will not alter nor increase flow. Therefore, the project will not directly or indirectly, impact flood control facilities and watercourses by obstructing, impairing, diverting, impeding, or altering the characteristics of the flow of water, resulting in exposing adjacent property and the community to increased risk for flood hazards due to the existing and proposed conditions being similar and runoff will be returned to natural sheet flow conditions.

31b-5. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 31b of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None.

Issue (Responsible Department)*	Pro	-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
32. Law Enforcement/Emergency Services (Sheriff)									
Will the proposed project:									
a) Have the potential to increase demand for law enforcement or emergency services?		х				Х			
b) Be consistent with the applicable General Plan Goals and Policies for Item 32 of the Initial Study Assessment Guidelines?		х				Х			

Impact Discussion:

32a. The proposed project consists of grading to improve an existing equestrian facility and will not increase the demand for law enforcement or emergency services.

32b. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 32 of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Project Impact Degree Cumulative Impact Degree Of Effect*									
	N	LS	PS-M	PS	N	LS	PS-M	PS		
33a. Fire Protection Services - Distance and Response (VCFPD)										
Will the proposed project:										

Issue (Responsible Department)*	Pro	-	npact De Effect**	gree	Cumulative Impact Degree Of Effect**				
	N	LS	PS-M	PS	N	LS	PS-M	PS	
Be located in excess of five miles, measured from the apron of the fire station to the structure or pad of the proposed structure, from a full-time paid fire department?	x				X				
Require additional fire stations and personnel, given the estimated response time from the nearest full-time paid fire department to the project site?	Х				X				
3) Be consistent with the applicable General Plan Goals and Policies for Item 33a of the Initial Study Assessment Guidelines?	Х				X				

33a-1 and 2 The project is located within five miles of the nearest fire station and the proposed usage will not require additional fire stations are personnel.

33a-3. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 33a of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*	Pro	•	npact De Effect**	gree	Cumulative Impact Degree Of Effect**					
	N	LS	PS-M	PS	N	LS	PS-M	PS		
33b. Fire Protection Services – Personnel, Equipment, and Facilities (VCFPD)										
Will the proposed project:										
Result in the need for additional personnel?	Х				Х					
Magnitude or the distance from existing facilities indicate that a new facility or additional equipment will be required?	Х				X					
Be consistent with the applicable General Plan Goals and Policies for Item 33b of the Initial Study Assessment Guidelines?	х				Х					

33b-1 and 2. No new fire stations, equipment, or personnel are required.

33b-3. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 33b of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None

Issue (Responsible Department)*	Project Impact Degree Of Effect**				Cumulative Impact Degree Of Effect**				
	Ν	LS	PS-M	PS	N	LS	PS-M	PS	
34a. Education - Schools									
Will the proposed project:									
Substantially interfere with the operations of an existing school facility?	Х				Х				
Be consistent with the applicable General Plan Goals and Policies for Item 34a of the Initial Study Assessment Guidelines?	Х				Х				

Impact Discussion:

34a-1. The proposed project is not located in the vicinity of any school facility.

34a-2. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 34a of the Initial Study Assessment Guidelines.

Mitigation/Residual Impact(s): None.

	Issue (Responsible Department)*			npact De Effect**	gree			ative Impa Of Effec	
		N	LS	PS-M	PS	Ν	LS	PS-M	PS
34	b. Education - Public Libraries (Lib. Agency)							
Wi	Il the proposed project:								
1)	Substantially interfere with the operations of an existing public library facility?	Х							
2)	Put additional demands on a public library facility which is currently deemed overcrowded?	X							
3)	Limit the ability of individuals to access public library facilities by private vehicle or alternative transportation modes?	x							
4)	In combination with other approved projects in its vicinity, cause a public library facility to become overcrowded?					Х			
5)	Be consistent with the applicable General Plan Goals and Policies for Item 34b of the Initial Study Assessment Guidelines?	Х							

Impact Discussion:

34b-1 thru 4. The proposed construction of an agricultural access road will support an existing agricultural operation and will have no effect on public library facilities.

34b-5. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 34b of the Initial Study Assessment Guidelines.

Issue (Responsible Department)*		Project Impact Degree Of Effect**				Cumulative Impact Degree Of Effect**			
	N	LS	PS-M	PS	N	LS	PS-M	PS	
35. Recreation Facilities (GSA)									
Will the proposed project:									
a) Cause an increase in the demand for recreation, parks, and/or trails and corridors?	X				X				
b) Cause a decrease in recreation, parks, and/or trails or corridors when measured against the following standards: • Local Parks/Facilities - 5 acres of developable land (less than 15% slope) per 1,000 population; • Regional Parks/Facilities - 5 acres of developable land per 1,000 population; or, • Regional Trails/Corridors - 2.5 miles per 1,000 population?	×				X				
c) Impede future development of Recreation Parks/Facilities and/or Regional Trails/Corridors?	Х				X				
d) Be consistent with the applicable General Plan Goals and Policies for Item 35 of the Initial Study Assessment Guidelines?	Х				Х				

35a and b. The proposed grading project to improve an existing equestrian facility will not generate a demand for new recreational facilities and will not cause a decrease in recreation, parks, and/or trails or corridors.

35c. The proposed project will not impede future development of Recreation Parks/Facilities and/or Regional Trails/Corridors.

35d. The proposed project is consistent with the applicable General Plan Goals and Policies for Item 35 of the Initial Study Assessment Guidelines.

PWA - Public Works Agency

*Key to the agencies/departments that are responsible for the analysis of the items above:

Airports - Department Of Airports
EHD - Environmental Health Division
Harbors - Harbor Department

AG. - Agricultural Department
VCAPCD - Air Pollution Control District
GSA - General Services Agency
Lib. Agency - Library Services Agency
Place - Agricultural Department
VCAPCD - Air Pollution Control District
GSA - General Services Agency
Lib. Agency - Library Services Agency
Place - Agricultural Department
VCAPCD - Air Pollution Control District
GSA - General Services Agency
Place - Planning Division Sheriff - Sheriff's Department

WPD – Watershed Protection District

**Key to Impact Degree of Effect: N – No Impact LS – Less than Significant Impact PS-M – Potentially Significant but Mitigable Impact PS - Potentially Significant Impact

Section C – Mandatory Findings of Significance

Based on the information contained within Section B:							
		Yes	No				
1.	Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal, or eliminate important examples of the major periods of California history or prehistory?		X				
2.	Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals? (A short-term impact on the environment is one that occurs in a relatively brief, definitive period of time while long-term impacts will endure well into the future).		Х				
3.	Does the project have impacts that are individually limited, but cumulatively considerable? "Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effect of other current projects, and the effect of probable future projects. (Several projects may have relatively small individual impacts on two or more resources, but the total of those impacts on the environment is significant.)		X				
4.	Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?		Х				

Findings Discussion:

Findings Discussion:

- 1. As stated in Section B, Items 4B of the Initial Study above, the proposed project would potentially have significant impacts to biological resources. However, with mitigation and avoidance measures listed in the preceding document above, it would mitigate potential impacts to less-than significant and would not adversely affect populations of plants and animals, nor degrade the environment.
- 2. The project does not involve the potential to achieve short-term, to the disadvantage of long-term, environmental goals.
- **3.** As stated in Section B, with the implementation of mitigation and avoidance measures (above) and the conditions of approval, the proposed project does not have the potential to create a cumulatively considerable contribution to a significant cumulative impact.

4. The proposed project is a grading project intended to support an existing equestrian facility. As stated in Section B, the proposed project will have at most a less-than significant impact with regard to adverse effects, either directly or indirectly, on human beings.

Section D - Determination of Environmental Document

Based on this initial evaluation:

[]	I find the proposed project could not have a significant effect on the environment, and a Negative Declaration should be prepared.
[X]	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measure(s) described in Section B of the Initial Study will be applied to the project. A Mitigated Negative Declaration should be prepared.
[]	I find the proposed project, individually and/or cumulatively, MAY have a significant effect on the environment and an Environmental Impact Report (EIR) is required.*
[]	I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An Environmental Impact Report is required, but it must analyze only the effects that remain to be
[]	I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or Negative Declaration pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or Negative Declaration, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Raymond Gutierrez, Jr, Manager

Development and Inspection Services

Engineering Services Department

Ventura County Public Works Agency

Attachments:

Attachment 1 - Site Plan/Aerial Location Map

Attachment 2 - Project Grading Plans, LC Engineering

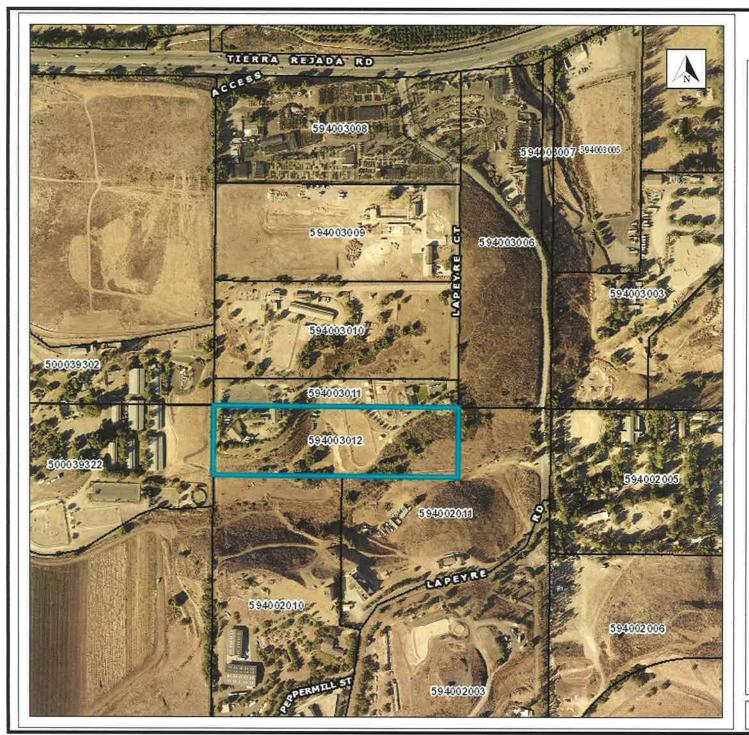
Attachment 3 – Initial Study Biological Assessment, Envicom Corp, October 1st, 2018

Attachment 4 – Geotechnical Engineering Reports, CalWest Geotechnical

Attachment 5 – Hydrology and Hydraulics Study, LC Engineering Group

Attachment 6 - Works Cited

ATTACHMENT 1





Pinneo Discretionary Grading Permit, GP17-0019

Parcels

County of Ventura – PWA Mitigated Negative Declaration GP17-0019 Attachment 1 – Site Plan / Aerial Location Map

1; 4,800

Duck merr. The information contained on the web site and in this application will sciented by the Ventura County Coopyraphical Midmanion (system (CIS)), which is designed and operated solely for the convenience of the County and related contract entities. The County does not venturat the accuracy of this information, and no decision including a last of economic loss or physical in light years to relatince thereon.



GENERAL GRADING NOTES:	ENGINEERED GRADING INSPECTION CERTIFICATES	
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PERMITS VENTURA COUNTY WATERSHED PROTECTION		Equipment of instruction and i
COUNTY PROKOACHMENT PERMIT NO DISTRICT WATERCOURSE PERMIT NO	CHALLANDARES NATION NO. 31902 DATE	EST - FREE PART (FAME SST - FREE DYNK DYNK DYNK DYNK DYNK DYNK DYNK DYNK
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LOCATION N/A	DESCRIPTION: 1.2 MILES ÁLONG TIÈRRA REJADA ROAD FROM ITS INTERSECTION WITH MOORPARK HOAD, 60 FEET NORTHERLY FROM THE CENTER OF	3 TOT MILLIONING DOMA AT TOP OF CUT SLOYED HIS DOWN MAKEN WHICH OF 3 FEET.
N/A N/A SPECIAL NO.	TIERRA REJADA ROAD, IN THE CENTER OF A CONCRETE HEADWALL	TOTAL BINGS CONTROL TO BE SOCIONATE SATE TOTAL STANDARD CONTROL TO BE SOCIENATE SATE TOTAL STANDARD CONTROL TO SATE TOTAL STANDARD CONTR
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PROJECT COME	THOUGHOUS ONS CA 91900 (649-17	
LC ENCHMERAND CROUP, INC. BESPERIZE CT, SUPE OF THOURAND CARGO, AN INIDE	OWNER/APPLICANT PRIMARY CONTACT	
THE PRINCE OF BUILDING NO. 1997. NO.	NO.31902	594-0-030-11
ect)	CHARLE FRANCO HALLE FRANCO	WAIVER ID. 4 56W003581 APN 594-0-030-12 GP 17-0019
4 DESIGN ENGINEER	APPROVED, COUNTY OF VOITURE	COUNTY OF VENTURA COVER SHEET
3 LC BNG	INTERING GROUP, INC. LINE ANGENERAL DATE:	DUDUO WODKS AGENOY
		PUBLIC WURKS AGENCY PARCEL 4 56 PM 84 EVELOPMENT SERVICES 15498 LAPEYRE CT., MOORPARK, CA. 93021
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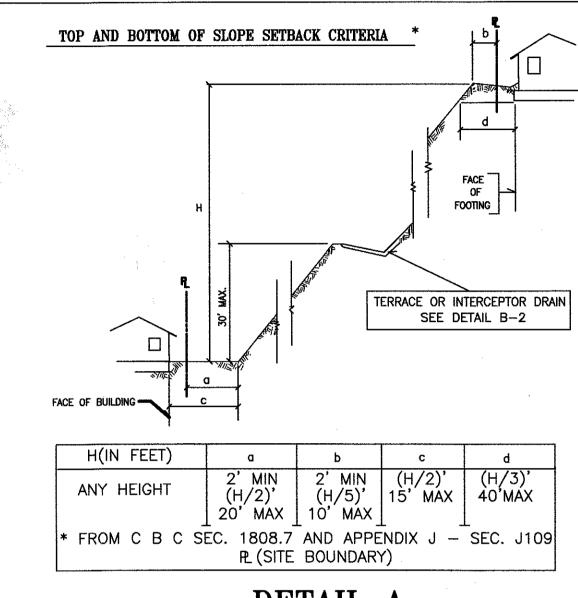
County of Ventura – PWA
Mitigated Negative Declaration
GP17-0019
Attachment 2 – Project Grading Plans, LC Engineering
Group, dated August 2018

	HITHE VENTURA COUNTY BUILDING CODE APPENDIX J GRADING, LATEST EDITION. FPLANS IS VALID ONLY TO THE EXTENT OF THE VENTURA COUNTY BUILDING CODE APPENDIX J - GRADING. PERMITS OR	JOB ADDRESS OR LOT AND TRACT NO: 15498 LAPEYRE COURT	
PERMISSIONS THAT MAY BE REQUIRED BY OTHER RE	GULATORY AGENCIES OR INTERESTED PARTIES ARE THE RESPONSIBILITY OF THE PERMITTEE. THE SITE PRIOR TO ANY GRADING ACTIVITY OR LAND DISTURBANCES WITH THE FOLLOWING PARTIES PRESENT: OWNER,		
GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SC	DILS ENGINEER, COUNTY GRADING INPECTOR(S), AND OTHER JURISDICTIONAL AGENCIES WHEN REQUIRED. LL NOT BEGIN UNTIL AFTER 7:00 A.M. NO WORK BEYOND 4:30 PM UNLESS APPROVED BY PWA.	ROUGH GRADING CERTIFICATION	PIJRIJC WO
5. NO GRADING ACTIVITY SHALL OCCUR IN ANY WETLA	AND, BLUE-LINE STREAM, RED-LINE CHANNEL, OR FLOODPLAIN WITHOUT THE PROPER PERMITS & PERMISSION FROM THE	(A) BY SOILS ENGINEER	
PWA & RESOURCE MANAGEMENT AGENCY (RMA), OR 6. RETAINING WALLS AND BRIDGES REQUIRE A SEPARA		I CERTIFY THAT THE ROUGH GRADING WORK INCORPORATES ALL RECOMMENDATIONS CONTAINED IN THE REPORT OR REPORTS FOR WHICH I AM RESPONSIBLE AND ALL RECOMMENDATIONS THAT I HAVE MADE BASED ON FIELD INSPECTION OF THE WORK AND TESTING DURING GRADING. I FURTHER CERTIFY THAT WHERE	
7. ALL RECOMMENDATIONS MADE BY THE SOILS ENGII SHALL BE A PART OF THIS GRADING PLAN.	NEER (AND ENGINEERING GEOLOGIST, WHERE EMPLOYED) CONTAINED IN THE REPORTS AS APPROVED BY THE COUNTY	THE REPORTS OF AN ENGINEERING GEOLOGIST, RELATIVE TO THIS SITE, HAVE RECOMMENDED THE INSTALLATION OF BUTTRESS FILLS OR OTHER SIMILAR STABILIZATION MEASURES, SUCH EARTHWORK CONSTRUCTION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED DESIGN.	
	SHALL BE PROTECTED IN ACCORDANCE WITH THE VENTURA COUNTYWIDE MUNICIPAL STORMWATER NPDES PERMIT. LEBE INSTALLED AND MAINTAINED FULLY FUNCTIONAL.	LOT NOS: 15498 LAPEYRE COURT	GENERAL STORMWATER NOTES:
	USH, COMPRESSIBLE SOILS, OR ANY ORGANIC MATERIALS OR RUBBISH, SHALL BE REMOVED AS REQUIRED BY THE SOILS	SEE REPORTS DATED:	THE LEGALLY RESPONSIBLE PERSON OF ANY PROPERTY IN WHICH GRADING ACTIVITIES OR OTHER SOIL DISTURBANC ACTIVITIES ARE PERFORMED, INCLUDING PERMITTEE, SHALL COMPLY WITH THE LATEST AND APPLICABLE NPDE
10. ALL AREAS TO RECEIVE FILL SHALL BE INSPECTE	D AND APPROVED BY THE SOILS ENGINEER (AND ENGINEERING GEOLOGIST WHERE EMPLOYED) AFTER REMOVAL OF LYS AND BENCHES, AND PRIOR TO PLACEMENT OF SUBSURFACE DRAINAGE SYSTEMS OR FILL.	FOR TEST DATA, RECOMMENDED ALLOWABLE SOIL BEARING VALUES & OTHER SPECIAL RECOMMENDATIONS.	REQUIREMENTS. EFFECTIVE COMBINATION OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP'S) SHALL BE INSTALLED BEFORE GRADING BEGINS. DURING GRADING ACTIVITIES, ALL BMP'S SHALL BE UPDATED A NECESSARY TO PREVENT EROSION AND ANY ILLICIT DISCHARGE OF CONSTRUCTION RELATED POLLUTANTS. EROSIO
11. ALL MATERIALS DEEMED UNSUITABLE FOR PLACEM	ENT IN COMPACTED FILL SHALL BE REMOVED FROM THE SITE. MATERIALS SUCH AS CONSTRUCTION INERT DEBRIS, OR		CONTROL BMP'S ARE LISTED ON COUNTY FORMS SW-1, SW-2, OR SW-HR.
TWELVE INCHES IN LARGEST DIMENSION, IT MUST BE	IE SOILS ENGINEER AND COUNTY PRIOR TO USE IN COMPACTED FILL. WHERE EXCAVATED MATERIAL IS LARGER THAN EBROKEN INTO SMALLER PARTICLE SIZES, BEFORE BEING USED AS FILL.	SOILS ENGINEER REG. NO DATE	1. GENERAL CONSTRUCTION PERMIT. PROJECTS THAT CAUSE SOIL DISTURBANCE OF ONE ACRE OR MORE, OR THAT ARE PART OF A COMMON PLAN OF DEVELOPMENT OR SALE THAT CAUSE SOIL DISTURBANCE OF ONE ACRE OR MOR
	OF ANY EXISTING UNDERGROUND STRUCTURES SUCH AS SEPTIC TANKS, IRRIGATION LINES, ETC. DISTURBANCE SHALL BE REPORTED TO THE WATER RESOURCES DIVISION, WATERSHED PROTECTION DISTRICT PRIOR TO		ARE REQUIRED TO OBTAIN COVERAGE UNDER NPDES CALIFORNIA STATEWIDE GENERAL CONSTRUCTION PERMIT NO CASOU0002, AS A NUMBER ASSIGNED TO THE PROJECT BY THE STATE WATER RESOURCES CONTROL BOARD COMPLETED AND SIGNED NOTICE OF INTENT (NOI) AND PROJECT STORMWATER POLLUTION PREVENTION PLA
ITS MODIFICATION, ABANDONMENT, OR DESTRUCTIO	N. RBANCE SHALL BE REPORTED TO THE STATE OF CALIFORNIA, DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES PRIOR	(B) BY ENGINEERING GEOLOGIST SEAL	(SWPPP) SHALL BE SUBMITTED AND IMPLEMENTED DURING ALL GRADING ACTIVITIES.
TO ITS MODIFICATION, ABANDONMENT, OR DESTRUC		I CERTIFY THAT THE ROUGH GRADING WORK INCORPORATES ALL OF THE RECOMMENDATIONS CONTAINED IN THE REPORT OR REPORTS FOR WHICH I AM RESPONSIBLE AND ALL RECOMMENDATIONS THAT I HAVE MADE BASED ON FIELD INSPECTION OF THE WORK DURING GRADING.	 COUNTY'S STORM DRAIN SYSTEM. ILLICIT DISCHARGES INTO THE COUNTY'S STORM DRAIN SYSTEM AS A RESULT C GRADING, CLEARING, CONSTRUCTION, DEMOLITION, AND OTHER SOIL DISTURBANCE ACTIVITIES ARE PROHIBITED.
ENGINEER TO INSURE THAT ALL POTENTIAL PLANE BUTTRESS. FIELD CERTIFICATION MUST BE SUBMITT	ES OF FAILURE HAVE BEEN EXPOSED IN THE EXCAVATION AND WILL BE ADEQUATELY SUPPORTED BY THE PROPOSED	LOT NOS: 15498 LAPEYRE COURT	3. INSPECTIONS. EROSION CONTROL AND PERMANENT STORMWATER TREATMENT BMP'S ARE SUBJECT TO INSPECTION AS REQUIRED BY THE PERMIT ORDER NO. R4-2010-0108. AS AMENDED FROM TIME TO TIME.
 THE SOILS ENGINEER AND ENGINEERING GEOLOG STABILITY WHERE UNSTABLE MATERIAL IS EXPOSED 	GIST (WHERE EMPLOYED) SHALL PROVIDE RECOMMENDATIONS AND APPROVE CORRECTIVE WORK TO INSURE SLOPE OF THE TOP OF CUTS AND EXCAVATIONS.		4. PUMPED WATER DISCHARGES. DISCHARGES OF PUMPED GROUND WATER REQUIRE A DISCHARGE PERMIT FROM TH
	LOWED IN ANY COUNTY RIGHTS OF WAY. THE USE OF CORRUGATED STEEL PIPE ON PRIVATE PROPERTY SHOULD BE DOWNING CORROSION AND TO EXTEND SERVICE TIME.	ENGINEERING GEOLOGIST CERT. NO DATE (SIGNATURE)	STATE OF CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD (RWQCB).
	SUBMITTED TO THE COUNTY AS REQUIRED BY THE BUILDING OFFICIAL.		 SANITARY FACILITIES. PORTABLE SANITARY FACILITIES SHALL BE LOCATED ON RELATIVELY LEVEL GROUND AWA FROM TRAFFIC AREAS, DRAINAGE COURSES, AND STORM DRAIN INLETS.
19. ROUGH GRADE SOILS ENGINEERING AND (IF APPLICATION OF THE APPROVED IN TH	ABLE) ENGINEERING GEOLOGY REPORTS SUMMARIZING ALL EARTHWORK PERFORMED AND CONCLUDING THAT THE WORK VED REPORTS SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL OF THE ROUGH GRADING BY THE BUILDING OFFICIAL FCTION		6. EMERGENCY WORK. A STANDBY CREW FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAIN SEASON (OCTOBER 1ST TO APRIL 15TH). NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED A
20. FINAL SOILS ENGINEERING AND (IF APPLICABLE) EN	IGINEERING GEOLOGY REPORTS SUMMARIZING ALL EARTHWORK PERFORMED SINCE ROUGH GRADING AND CONCLUDING ING TO THE APPROVED REPORTS SHALL BE SUBMITTED WITH THE AS-BUILT PLANS (RECORD DRAWING) TO THE COUNTY	(C) BY CIVIL ENGINEER SEAL	CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.
PRIOR TO FINAL INSPECTION BY THE BUILDING OFFICE	•	I CERTIFY TO THE SATISFACTORY COMPLETION OF ROUGH GRADING INCLUDING GRADING TO APPROXIMATE FINAL ELEVATIONS; PROPERTY LINES LOCATED AND STAKED, CUT AND FILL SLOPES CORRECTLY GRADED AND LOCATED IN ACCORDANCE WITH THE APPROVED DESIGN; SWALES AND TERRACES GRADED READY FOR	PROJECT BMP'S
		PAVING; BERMS INSTALLED; AND REQUIRED DRAINAGE SLOPES PROVIDED ON THE BUILDING PADS. I FURTHER CERTIFY THAT WHERE REPORT OR REPORTS OF AN ENGINEERING GEOLOGIST AND/OR SOILS ENGINEER HAVE BEEN PREPARED RELATIVE TO THIS SITE, THE RECOMMENDATIONS CONTAINED IN SUCH REPORTS	
EARTHWORK QUANTITIES		HAVE BEEN INCORPORATED IN THE DESIGN. 15498 LAPEYRE COURT LOT NOS:	THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, THE LATEST EDITION OF THE CASQA CONSTRUCTION BN ONLINE HANDBOOK MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY E REQUIRED IF DEEMED APPROPRIATE BY THE PROJECT ENGINEER, QUALIFIED SWPP DEVELOPER, PRACTITIONER OR TH
CUT: 15,400 CU. YDS. EXPOR	RT: Ø CU. YDS. DISPOSAL SITE N/A		BUILDING OFFICIAL). CERTAIN BMP'S ARE REQUIRED AS PART OF THE STORMWATER FORMS SW-1, SW-2 AND SW-HR. TH APPLICANT IS RESPONSIBLE FOR ENSURING THAT THE BMP'S LISTED HEREON, ARE IMPLEMENTED AND MAINTAINED A
FILL: 30,438 CU. YDS IMPOR	TE 15,038 CU. YDS SOURCE TBD	CIVIL ENGINEER REG. NO 31902	ALL TIMES DURING THE CONSTRUCTION. THE INSPECTOR OR BUILDING OFFICIAL MAY PERFORM UNANNOUNCED SIT INSPECTIONS TO ENSURE THAT THE PROJECT MAINTAINS THE BMP'S AS LISTED BELOW.
THIS PROJECT INCLUDES POST CONSTRUCTION BMP'S		(SIGNATURE)	BMP DESCRIPTIONS AND DETAILS CAN BE OBTAINED FROM THE CALIFORNIA STORMWATER HANDBOOKS A WWW.CASQA.ORG
THE TOTAL ESTIMATED DISTURBED AREA OF GRADING A	AND CONSTRUCTION IS 3.12 ACRES. PROJECTS THAT ARE 1.0 ACRE OR GREATER IN DISTURBED AREA WILL REQUIRE A AND NOTICE OF INTENT (NOI) AS APPROVED BY THE STATE REGIONAL WATER QUALITY CONTROL BOARD AS DESCRIBED		COMPLETE CHECKLIST BELOW FOR APPLICABLE PROJECT BMP'S
ABOVE.	and the state of t	SEAL	EROSION CONTROL NON-STORMWATER MANAGEMENT
AVERAGE NATURAL SLOPE IN THE AREA OF GRADING	<u>22.7</u> %	FINAL GRADING CERTIFICATION	X EC1 – SCHEDULING X NS1 – WATER CONSERVATION PRACTICES X EC2 – PRESERVATION EXISTING VEGETATION NS2 – DEWATERING OPERATIONS
THE TOTAL AMOUNT OF IMPERVIOUS AREA TO BE CONST	TRUCTED AS PART OF THIS PROJECT IS 15706 SQ. FT.	BY CIVIL ENGINEER	EC3 – HYDRAULIC MULCH X EC4 – HYDROSEEDING NS3 – PAVING & GRINDING OPERATIONS NS4 – TEMPORARY STREAM CROSSING
TOTAL PROPOSED LANDSCAPED AREASQ. I	FT. TOTAL NATIVE PLANTING LANDSCAPE AREA % (PERCENT OF TOTAL LANDSCAPE AREA)	I CERTIFY TO THE SATISFACTORY COMPLETION OF GRADING IN ACCORDANCE WITH THE APPROVED PLANS. ALL DRAINAGE DEVICES REQUIRED BY THE GRADING PERMIT, GRADING PLANS AND GRADING ORDINANCE HAVE BEEN INSTALLED. EROSION TREATMENT OF SLOPES AND IRRIGATION SYSTEMS (WHERE REQUIRED)	EC5 – SOIL BINDERS NS5 – CLEAR WATER DIVERSION
LAND DEVELOPMENT & INSPECTION SERVICES MUST BE	NOTIFIED TEN (10) WORKING DAYS PRIOR TO ANY EXPORT/IMPORT TO/FROM THE PROJECT SITE.	HAVE BEEN INSTALLED. ADEQUATE PROVISIONS HAVE BEEN MADE FOR DRAINAGE OF SURFACE WATERS FROM EACH BUILDING SITE AS OF THIS DATE.	EC6 – STRAW MULCH NS6 – ILLICIT CONNECTION/DISCHARGE X EC7 – GEOTEXTILES & MATS NS7 – POTABLE WATER/IRRIGATION
PERMITS		LOT NOS:	X EC8 – WOOD MULCHING NS8 – VEHICLE & EQUIPMENT CLÉANING EC9 – EARTH DIKES & DRAINAGE SWALES NS9 – VEHICLE & EQUIPMENT FUELING
	VENTURA COUNTY WATERSHED PROTECTION	CIVIL ENGINEER REG. NO 31902 DATE	EC10 - VELOCITY DISSIPATION DEV. NS10 - VEHICLE & EQUIPMENT MAINTENANCE
COUNTY ENCROACHMENT PERMIT NO.	DISTRICT WAT管管COURSE PERMIT NO.	(SIGNATURE)	EC11 – SLOPE DRAINS NS11 – PILE DRIVING OPERATIONS NS12 – CONCRETE CURING NS12 – CONCRETE CURING
DATE	DATE		EC14 – COMPOST BLANKETS NS13 – CONCRETE FINISHING EC15 – SOIL PREPARATION/ROUGHENING NS14 – MATERIAL & EQUIPMENT USE
STATE ENCROACHMENT PERMIT NO.	FLOODPLAIN DEVELOPMENT PERMIT	CDADING CONTRACTOR CERTIFICATION	EC16 – NON-VEGETATED STABILIZATION NS15 – DEMOLITION ADJACENT TO WATER TEMPORARY SEDIMENT CONTROL NS16 – TEMPORARY BATCH PLANTS
DATE	DATÉ	GRADING CONTRACTOR CERTIFICATION	X SE1 – SILT FENCE WASTE MANAGEMENT & MATERIAL POLLUTION CONTR
		BY GRADING CONTRACTOR I CERTIFY THAT THE GRADING WAS DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, THE GRADING ORDINANCE, AND THE RECOMMENDATIONS OF	SE2 – SEDIMENT BASIN X WM1 – MATERIAL DELIVERY & STORAGE SE3 – SEDIMENT TRAP WM2 – MATERIAL USE
LOCATION & VICINITY MAP	APPROVAL BY CONSULTANTS	THE CIVIL ENGINEER, SOILS ENGINEER AND ENGINEERING GEOLOGIST. IT IS UNDERSTOOD THAT THIS CERTIFICATION INCLUDES ONLY THOSE ASPECTS OF THE WORK THAT CAN BE DETERMINED BY ME, AS A COMPETENT GRADING CONTRACTOR, WITHOUT SPECIAL EQUIPMENT OR PROFESSIONAL SKILLS.	SE4 - CHECK DAM X WM3 - STOCKPILE MANAGEMENT X SE5 - FIBER ROLLS X WM4 - SPILL PREVENTION & CONTROL
	THIS GRADING PLAN IS ACCEPTABLE IN REGARD TO SOILS (AND GEOLOGIC - IF APPLICABLE) CONDITIONS AND CONFORMS TO THE RECOMMENDATION OF THE SUPPORTIVE REPORT(S) DATED:	GRADING CONTRACTOR LICENSE NO DATE	X SE6 – GRAVEL BAG BERM X WM5 – SOLID WASTE MANAGEMENT X SE7 – STREET SWEEPING AND VACUUMING WM6 – HAZARDOUS WASTE MANAGEMENT
	SOILS ENGINEERING REPORTS: MARCH 23 20 17	INSTRUCTIONS: THE OWNER MAY SIGN IF THE GRADING WAS NOT DONE BY A LICENSED GRADING CONTRACTOR.	X SE8 – SANDBAG BARRIER WM7 – CONTAMINATION SOIL MANAGEMENT
	(SOILS ENGINEER SIGNATURE) CAL WEST GEOTECHNICAL 889 PIERCE CT, SUITE 101 THOUSAND OAKS, CA 91360		SE9 - STRAW BALE BARRIER X WM8 - CONCRETE WASTE MANAGEMENT
	LEONARD LISTON 31902 805-497-1244	BENCH MARK DATA	SE11 – ACTIVE TREATMENT SYSTEMS WM10 – LIQUID WASTE MANAGEMENT SE12 – TEMPORARY SILT DIKE
TIERRA REJADA ROAD		DESIGNATION: 16-187 DATUM: NAVD 88	SE13 - COMPOST SOCKS & BERMS ADDITIONAL BMP'S SELECTED
PROPERTY LOCATION	ENGINEERING GEOLOGY REPORTS: N/A 20	DATE: 1999 HEIGHT: 223.066 (METERS)/ 731.84 (FEET)	SE14 – BIOFILTER BAGS WIND EROSION CONTROL
LOCATION	N/A (ENGINEERING GEOLOGIST SIGNATURE)	DESCRIPTION: 1.2 MILES ALONG TIERRA REJADA ROAD FROM ITS INTERSECTION WITH MOORPARK ROAD, 60 FEET NORTHERLY FROM THE CENTER OF	X WE1 – WIND EROSION CONTROL EQUIPMENT TRACKING
1/2	N/A N/A (PRINT NAME) CERT. NO.	TIERRA REJADA ROAD, IN THE CENTER OF A CONCRETE HEADWALL	X TC1 – STABILIZED CONSTRUCTION ENTRANCE EXIT TC2 – STABILIZED CONSTRUCTION ROADWAY
The second second		TOPOGRAPHY DATA	TC3 - ENTRANCE/OUTLET TIRE WASH
	THEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH THE ADOPTED COUNTY STANDARDS, AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN THE PROFESSIONAL EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN THE PROFESSIONAL EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN THE PROFESSIONAL PROFESSIO	STEVE OPDAHL SURVEYING 187 E. WILBUR RD. SUITE 4	
	ENGINEERS ACT. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS BY THE COUNTY OF VENTURA IS CONFINED TO A REVIEW ONLY AND BOES NOT RELIEVE ME, AS ENGINEER OF RECORD, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.		
W NTS	LC ENGINEERING GROUP, INC. 889 PIERCE CT, SUITE 101	OWNER/APPLICANT PRIMARY CONTACT	
	(CIVIL ENGINEER SIGNATURE) THOUSAND OAKS, CA 91360 805-497-1244	(NO.3 1902 St)	
	(PRINT NAME) (RCE)	CHARLES PINNEO 15498 LAPEYRE COURT, MOORPARK, CA 93021 805-402-6468 RALPH ARNOLD 1560 Newbury Rd #103 Newbury Park, CA 91320 805-444-7371	WAIVER ID:_
<u> </u>	DESIGN ENGINEER	APPROVED: COUNTY OF VENTURA	OOLINITY OF VICINITIED A SPEC. NO.
3	LC ENGI	NEERING GROUP, INC.	COUNTY OF VENTURA
2	CONSU 889 Pierce Court	, Suite 107, Thousand Oaks, Cziifornia 91360	PUBLIC WORKS AGENCY PROJ. NO.
1 DESCRIPTION OF REAL		31902 BCF DATE BY DEVELOPMENT SERVICES	EVELOPMENT SERVICES

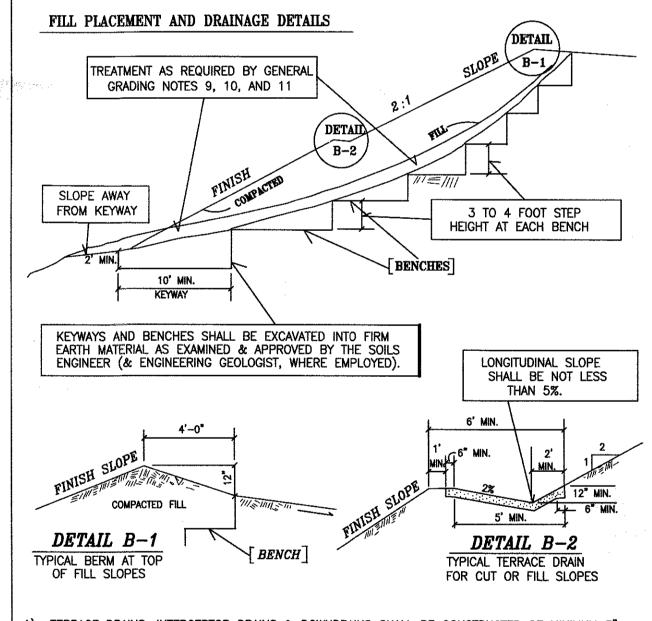
ENGINEERED GRADING INSPECTION CERTIFICATES

GENERAL GRADING NOTES:

OF VENTURA ORKS AGENCY



DETAIL A



TERRACE DRAINS, INTERCEPTOR DRAINS & DOWNDRAINS SHALL BE CONSTRUCTED OF MINIMUM 3" REINFORCED CONCRETE REINFORCED WITH 6 x 6 x 10 x 10 W.W.M. & SHALL BE OF EITHER SEMI-CIRCULAR OR TRIANGULAR CROSS SECTION.

2) FOR INTERCEPTOR DRAIN AT TOP OF CUT SLOPES AND DOWN DRAINS, MINIMUM WIDTH OF 3 FEET.

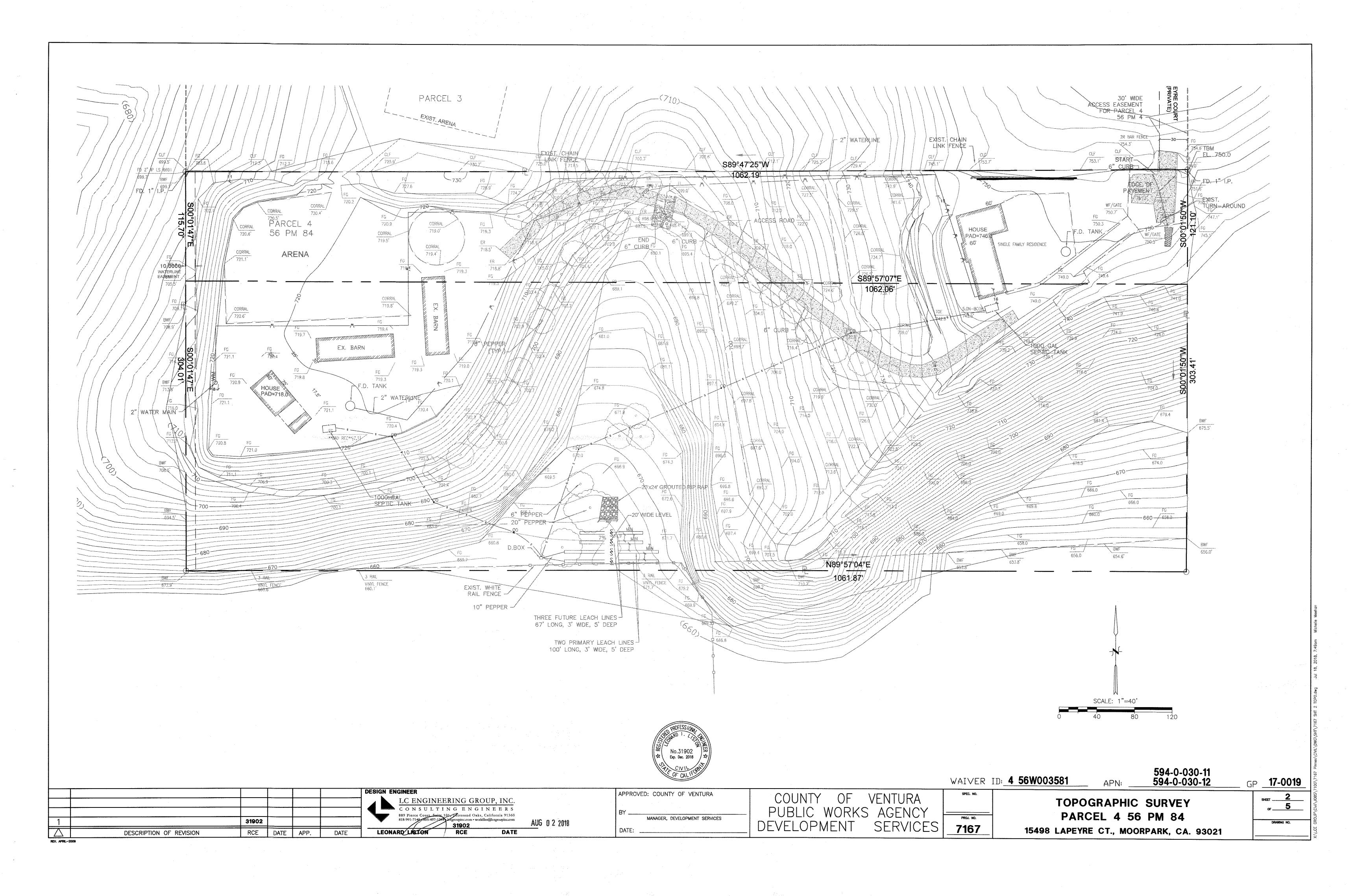
DETAIL B

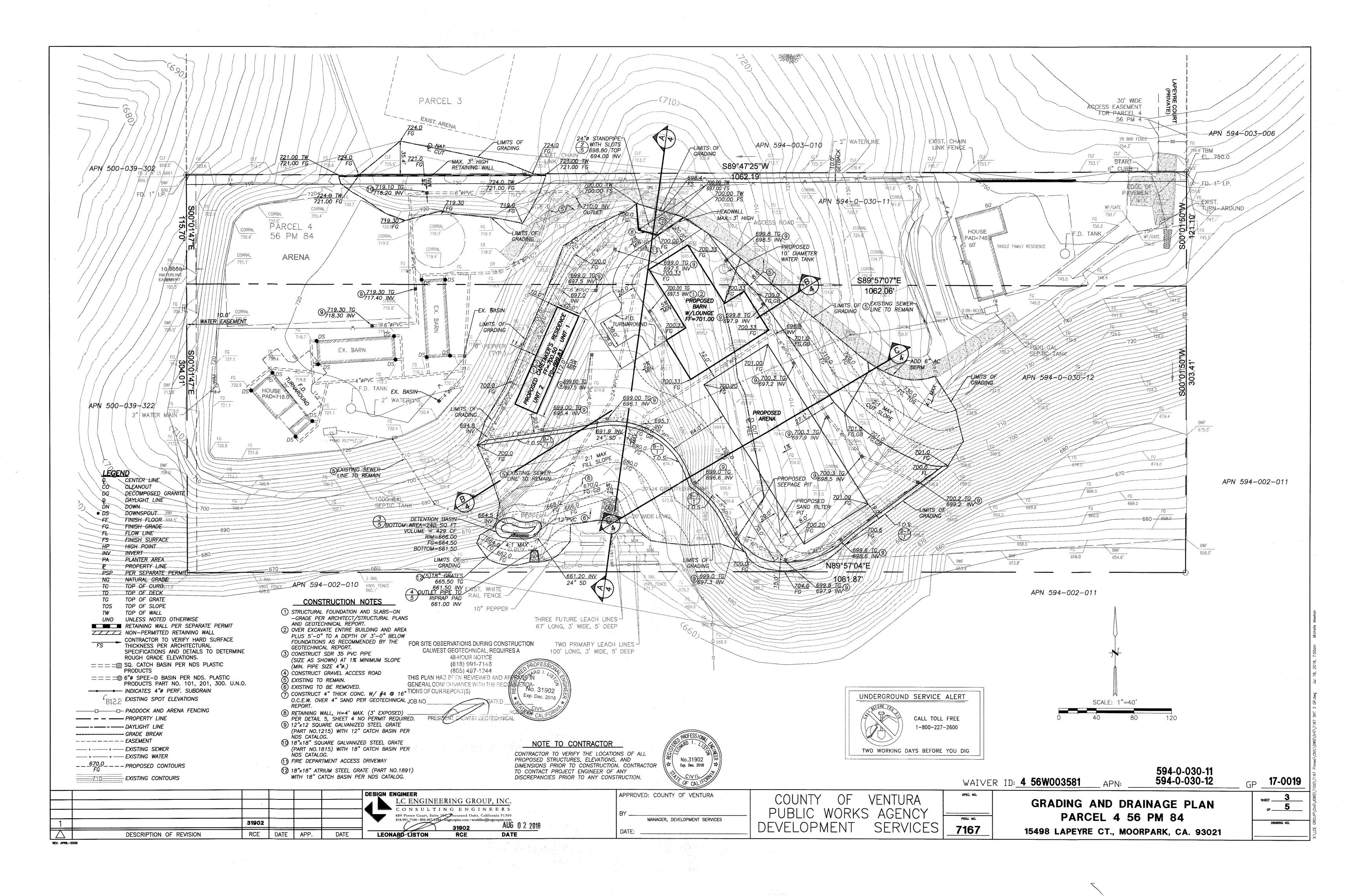
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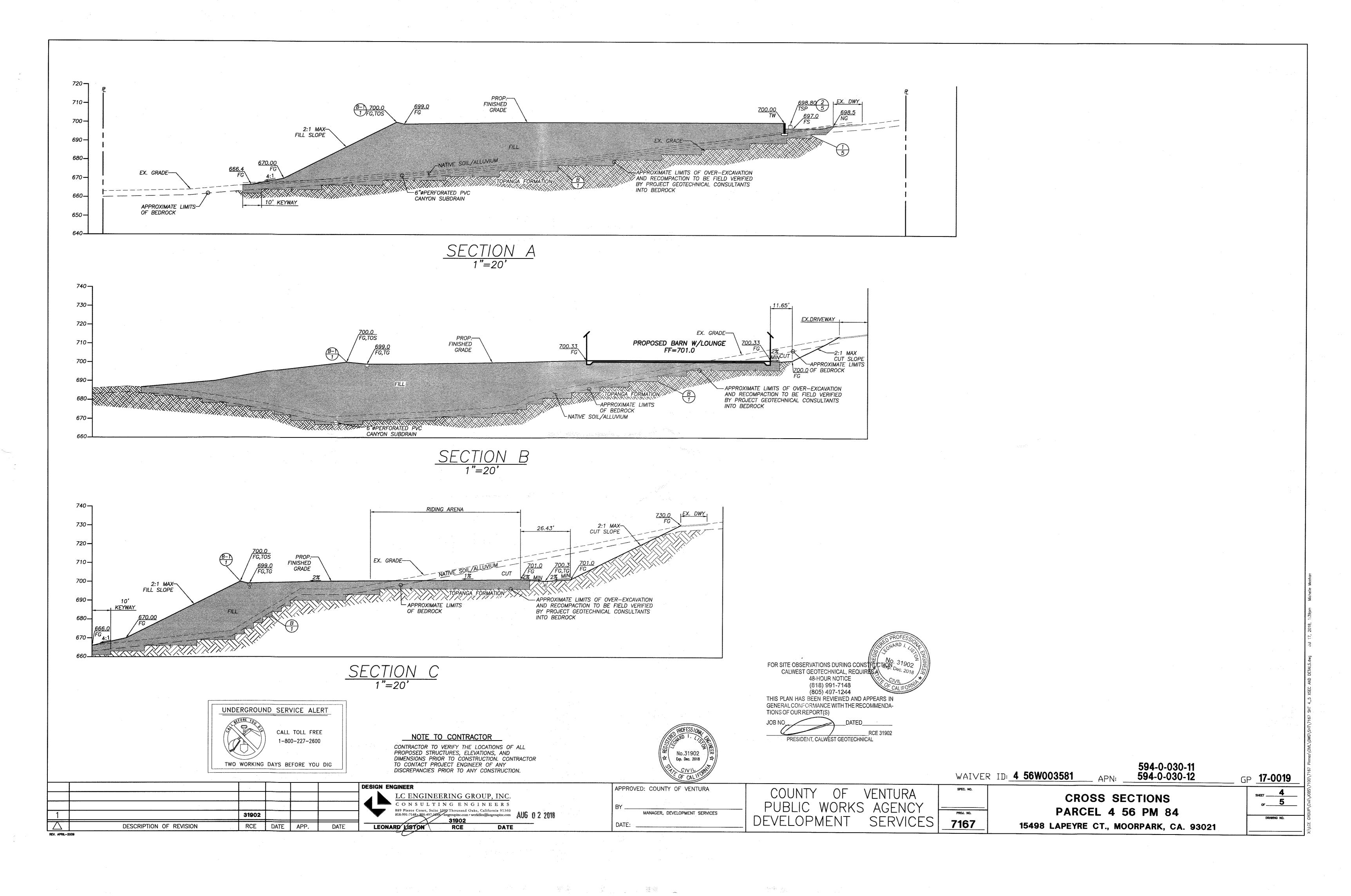
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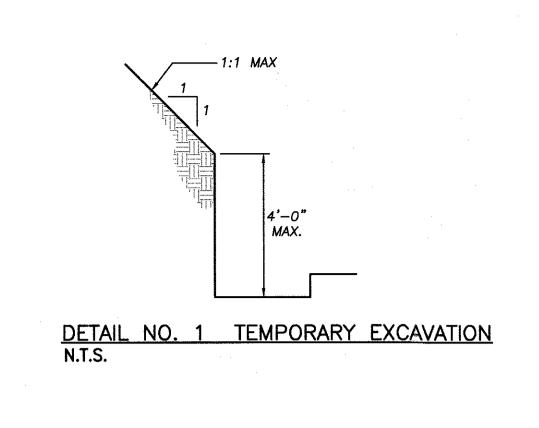
GP **17-0019**

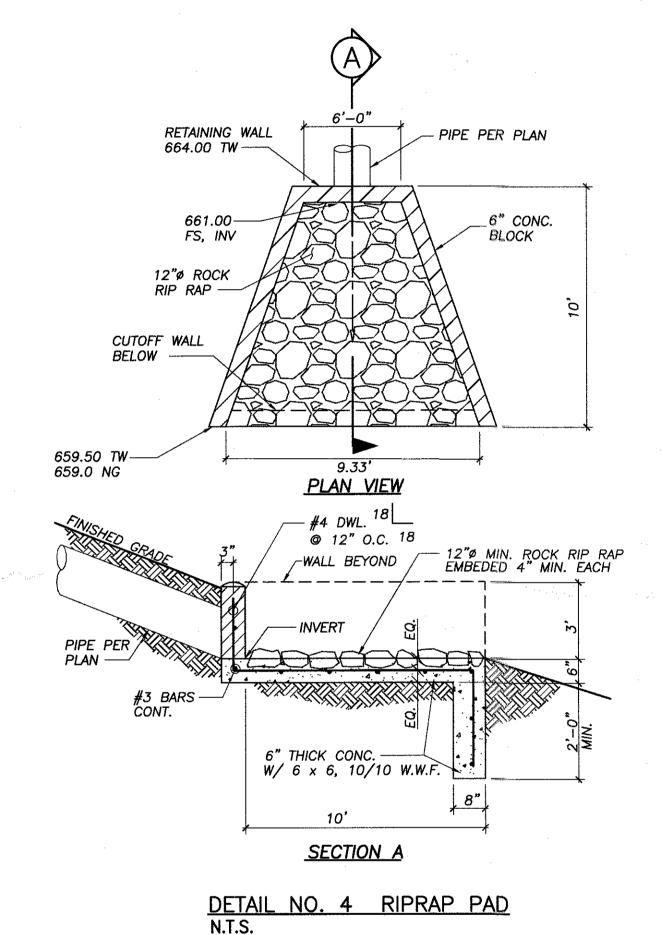
COVER SHEET PARCEL 4 56 PM 84 15498 LAPEYRE CT., MOORPARK, CA. 93021

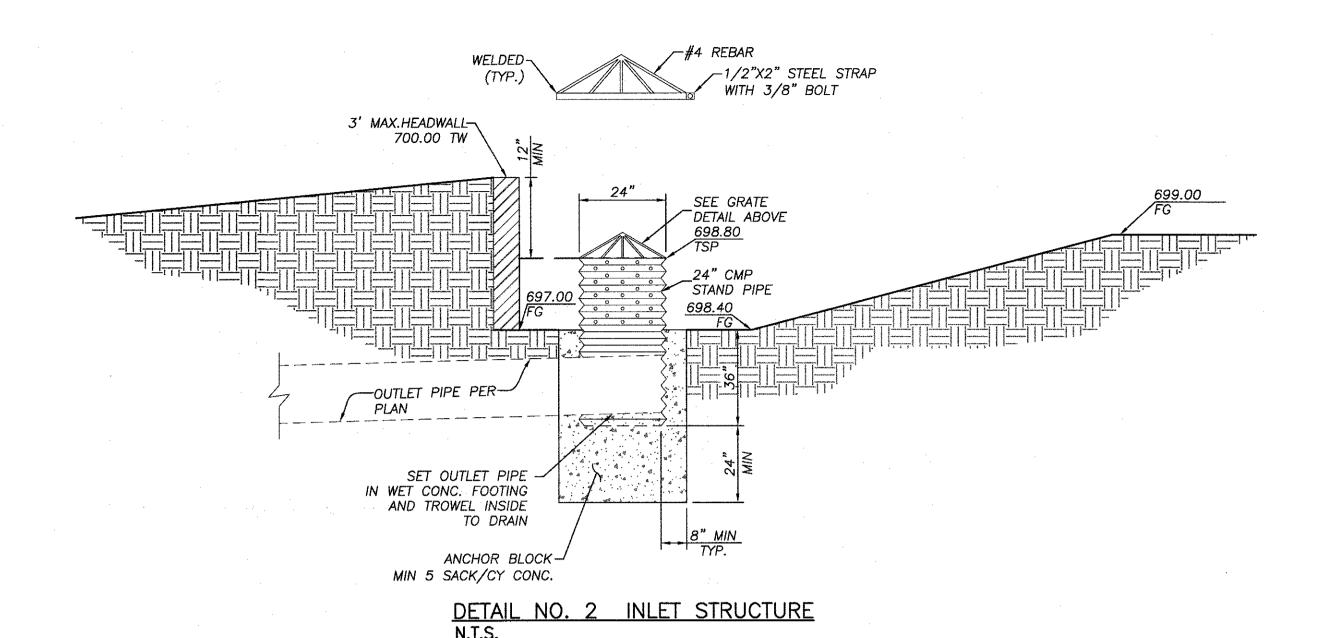












RETAINING OR SLOUGH WALL (4'-0" HIGH OR LESS) 6" Concrete (or) 8" concrete block-

#3 horizontal rebar-🏻 🗱 horizontal rebar #3 @ 24" o.c.-Place steel in 3"ø weep holes @ 6' o.c. #3 horizontal rebar 3" clear-Lap splices 16"

These walls are designed for the average condition and may not be suitable in all cases. Where the proposed wall construction is extensive, a licensed civil or structural engineer should be consulted.

1/2 H

- GENERAL SPECIFICATIONS 1. All footings to be 12" into natural ground.
- 2. Concrete mix for footing and for concrete wall to be 2500 psi minimum, or if site mixed: 1 part Portland cement, 2 parts sand, 3 parts 1" rock with a maximum of 7 gallons of water per sack of cement.
- 3. Grout mix for concrete block wall to be 2000 psi, 1 part Portland cement, to 3 parts sand which may be added not more than 1/10 part lime. Sufficient water to be added to produce consistency for pouring without
- segregation of the constituents. Grout may contain pea gravel to a maximum size of 3/8".

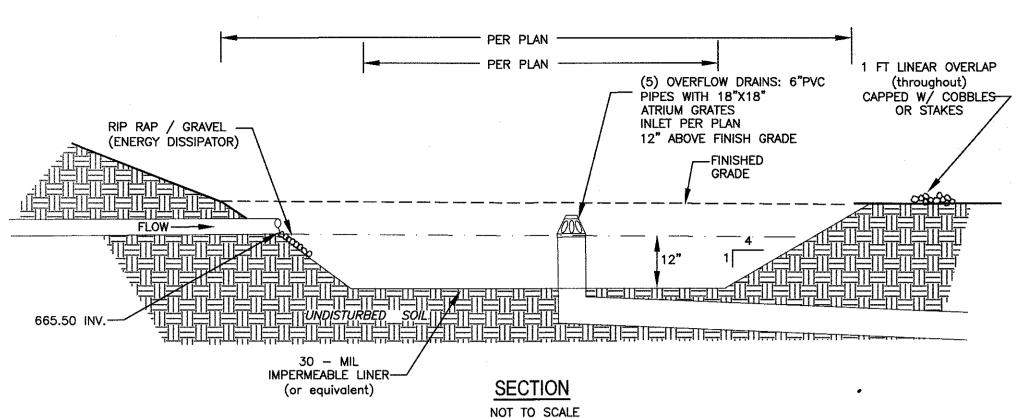
 4. Mortar mix for concrete blocks to be 1 part cement to 1/4" lime putty or hydrated lime to 3½ parts damp
- 5. Concrete block units to be standard 8"x8"x16" units conforming to ASTM C90, Grade N, Type II and UBC
- Standard 21-4. 6. Reinforcing steel shall be deformed steel conforming to ASTM Specification A-615, Grade 40. Lap all steel 16".
- 7. Concrete block units to be staggered (running bond). 8. Concrete block units to have vertical continuity of the cells unobstructed. All cells containing reinforcing to be filled solid with grout.

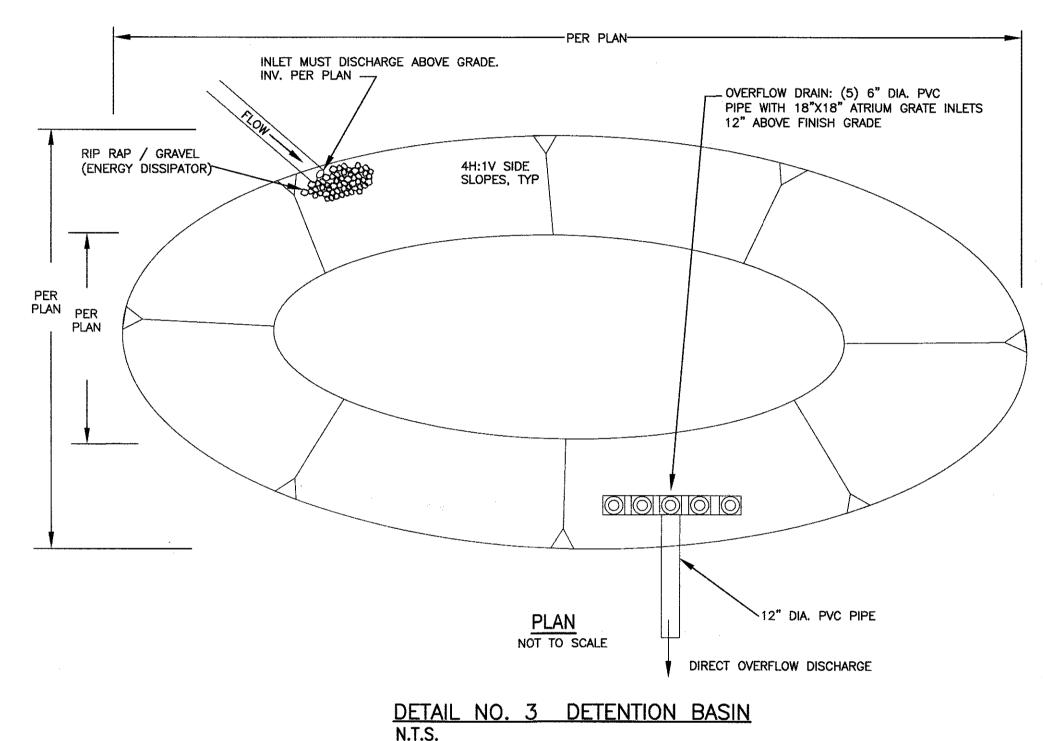
DETAIL NO. 5 NON-PERMITTED RETAINING WALL N.T.S.



NOTE TO CONTRACTOR CONTRACTOR TO VERIFY THE LOCATIONS OF ALL PROPOSED STRUCTURES, ELEVATIONS, AND DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR TO CONTACT PROJECT ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.







WAIVER ID: 4 56W003581

PROJ. NO.

7167

594-0-030-11 594-0-030-12

GP 17-0019

SHEET ______**5**___

of 5

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	DESCRIPTION OF REVISION	RCE	DATE	APP.	DATE				

REV. APRIL-2009

DESIGN ENGINEER LC ENGINEERING GROUP, INC. CONSULTING ENGINEERS 889 Pierce Court, Suite 104, Thousand Oaks, California 91360 818-991-7148 • 805-497-444 • kegroupinc.com • workfiles@kegroupinc.com LEONARD LISTON DATE RCE

MANAGER, DEVELOPMENT SERVICES DATE:

COUNTY OF VENTURA PUBLIC WORKS AGENCY DEVELOPMENT

DETAILS PARCEL 4 56 PM 84 15498 LAPEYRE CT., MOORPARK, CA. 93021



Initial Study Biological Assessment

Original ISBA report date: December 1, 2017

Revision report date(s): October 1, 2018

Case number (to be entered by Planning Div.):

Permit type: Conditional Use Permit

Applicant: Mr. Charles Pinneo

Case Planner (to be entered by Planning Div.):

Total parcel(s) size (acres): 10.83

Assessor Parcel Number(s): APNs 594-003-011 & -012

Development proposal description: The Applicant proposes to improve an existing equestrian facility

with barns, a covered arena, and associated secondary structures.

Prepared for Ventura County Planning Division by:

As a Qualified Biologist, approved by the Ventura County Planning Division, I hereby certify that this Initial Study Biological Assessment was prepared according to the Planning Division's requirements and that the statements furnished in the report and associated maps are true and correct to the best of my knowledge.

Barn		Date: 10/01/18	
Title: Biologist	Company: E	nvicom Corporation	
818.879.4700 email: tbarns@envicomcorporation.com			
		Date:	
Title;	Company:		
email:			
	Title;	email: tbarns@envicomcorporation.com Title: Company:	

Initial Study Biological Assessment

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Qualified Biologist (signature):	tualified Biologist (signature): Supplement Supplement							
Name (printed): Tyler Barns	Title: Biologist	Company: Envicom Corporation	on					
Phone: 818.879.4700	email: tbarns@envicomc	orporation.com						
Other Biologist (signature):		Date:						
Name (printed):	Title:	Company:						
Phone:	email:							
Role:								

Initial Study Checklist

This Biological Assessment DID provide adequate information to make recommended CEQA findings regarding potentially significant impacts.

		Project Impact Degree of Effect				Cumulative Impact Degree of Effect					
	N	LS	PS-M*	PS	N	LS	PS-M*	PS			
Biological Resources											
Species			Х			Χ					
Ecological Communities			Х			Χ					
Habitat Connectivity		Х				X					

N: No impact

LS: Less than significant impact

PS-M: Potentially significant unless mitigation incorporated.

PS: Potentially significant

^{*} DO NOT check this box unless the Biological Assessment provided information adequate enough to develop mitigation measures that reduce the level of impact to less than significant.

Contents

Sumr	nary		. 4
Secti	on 1:	Construction Footprint Description	4
Secti	on 2:	Survey Information	. 5
	2.1	Survey Purpose	. 5
	2.2	Survey Area Description	6
	2.3	Methodology1	10
Secti	on 3:	The Biological Inventory1	12
	3.1	Ecological Communities	12
	3.2	Species1	19
	3.3	Wildlife Movement and Connectivity	35
Secti	on 4:	Recommended Impact Assessment & Mitigation	38
	4.1	Sufficiency of Biological Data	38
	4.2	Impacts and Mitigation	38
Secti	on 5:	Photos	15
Appe	ndix	1: Summary of Biological Resource Regulations5	55
Appe	ndix	2: Observed Species Tables6	33
Maps	;		
Figure	e 1 - F	Project Location Map	8.
Figure	e 2 - S	Site and Survey Map	9
Figure	e 3 - F	Plant Communities Map1	17
•		Naters and Wetlands Map1	
•		Special Status Species Map3	
•		Habitat Connectivity Map3	
Figure	e 7 - N	Mitigation Map4	14

Attachments

- A. List of California Natural Diversity Database (CNDDB)-tracked species with recorded occurrences within at least a 10-mile radius of the project site.
- B. Site Plan, LC Engineering Group, Inc., November 10, 2017

Summary

The proposed project includes the redevelopment of an existing equestrian facility. The project would be consistent with surrounding land uses (i.e., equestrian facilities, residential developments with barns, guest houses, detached garages, corrals, and other accessory structures). The structures would be built on existing disturbed areas with the exception of a portion of coast prickly pear scrub. The existing slopes would be re-contoured and retaining walls would be added to comply with County code requirements. Surface area runoff-water will be collected and diverted to the existing drainage area in the southern portion of the site.

Project grading would affect disturbed native habitats and barren/sparsely vegetated areas as well as portions of coast prickly pear – mixed coastal sage scrub community, which is considered to be a "natural community of special concern." Recommended restoration would mitigate for impacts to this sensitive community on-site.

Two (2) blue elderberry trees were located within the accessible portion of the survey area but these trees are not considered County protected trees because the project is not located in a Scenic Resource Overlay Zone. No special-status plants or special-status wildlife were observed during the site survey. Specialstatus birds have moderate or high potential to occur while foraging within the sagebrush and grassland habitats within the project site include Cooper's hawk and white-tailed kite, which could occur temporarily at the project site. Cooper's hawk is included on CDFW's Watchlist and is fairly common throughout their range. The white-tailed kite is a CDFW fully protected species that is uncommon but is known to forage over grassland habitat consistent with the northern portion of the site. These species and two (2) species of special-status bats, all Species of Special Concern, may forage over the project site with moderate probability. All of these species would be capable of escaping harm during grading or other project activities, if present. A number of additional wildlife species have low to very low potential to forage over or to occur within the grading footprint, if only temporarily. Some of these species are terrestrial and slow moving and could be harmed by the project, if present. However, project impacts to special-status wildlife species would be less than significant, as the project would not reduce a special-status species' population, only a very small number of individuals would potentially be affected (with low probability), and the habitats at the site are not of particular importance to the survival or life cycle of a special-status species.

Section 1: Construction Footprint Description

Construction Footprint Definition (per the Ventura County Planning Division): The construction footprint includes the proposed maximum limits of temporary or permanent direct land or vegetation disturbance for a project including such things as the building pad(s), roads/road improvements, grading, septic systems, wells, drainage improvements, fire hazard brush clearance area(s), tennis courts, pools/spas, landscaping, storage/stockpile areas, construction staging areas, fire department turnarounds, utility trenching and other grading areas. The construction footprint on some types of projects, such as mining, oil and gas exploration or agricultural operations, may be quite different than the above.

Development Proposal Description:

The Applicant proposes to expand two existing 2,000-square feet (sf) barns by 500 sf each, construct a new 8,500 sf barn with a lounge and toilet facilities, a new 1,600 sf covered riding arena, a new 1,125 sf hay barn, and a double wide modular building containing two living units of $12 \times 60 = 720$ sf each.

Construction Footprint Size

The size of the grading footprint and development areas are illustrated in Attachment B, Site Plan. The project's grading footprint would be 3.2 acres and includes areas associated with the proposed barn, covered area, and drainage improvements. The project's construction footprint including anticipated fuel modification zones based on the standard 100-foot distance from structures would be approximately 7.3 acres. The proposed construction footprint includes grading on an adjacent parcel to the north of the subject properties.

Project Design for Impact Avoidance or Minimization

The Applicant has designed the project to avoid impacts to sensitive habitat to the extent feasible while meeting building and safety requirements for construction. Furthermore, the development would be sited in existing graded/disturbed areas with the exception of required foundation support for the arena.

Coastal Zone/Overlay Zones

The project is not within the Coastal Zone

The parcels are within a Save Open Space and Agricultural Resources (SOAR) overlay.

Zoning

Open Space – 10 acres (OS-10 ac)

Elevation

The elevation of the parcel ranges from 660 to 755 feet.

Other

No other important features to describe.

Section 2: Survey Information

2.1 Survey Purpose

Discretionary actions undertaken by public agencies are required to demonstrate compliance with the California Environmental Quality Act (CEQA). The purpose of this Initial Study Biological Assessment (ISBA) is to gather enough information about the biological resources associated with the proposed project, and their potential to be impacted by the project, to make a CEQA Initial Study significance finding for biological resources. In general, ISBA's are intended to:

- Provide an inventory of the biological resources on a project site and the values of those resources.
- Determine if a proposed project has the potential to impact any significant biological resources.
- Recommend project redesign to avoid, minimize or reduce impacts to significant biological resources.
- Recommend additional studies necessary to adequately assess potential impacts and/or to develop adequate mitigation measures.

 Develop mitigation measures, when necessary, in cases where adequate information is available.

2.2 Survey Area Description

Survey Area Definition (per the Ventura County Planning Division): The physical area a biologist evaluates as part of a biological assessment. This includes all areas that could potentially be subject to direct or indirect impacts from the project, including, but not limited to: the construction footprint; areas that would be subject to noise, light, dust or runoff generated by the project; any required buffer areas (e.g., buffers surrounding wetland habitat). The construction footprint plus a 100 to 300-foot buffer—beyond the required fire hazard brush clearance boundary—(or 20-foot from the cut/fill boundary or road fire hazard brush clearance boundary – whichever is greater) is generally the size of a survey area. Required off-site improvements—such as roads or fire hazard brush clearance—are included in the survey area. Survey areas can extend off the project's parcel(s) because indirect impacts may cross property lines. The extent of the survey area shall be determined by the biologist in consultation with the lead agency.

Survey Area

Location

There is only one (1) Survey Area for the proposed project. Survey Area 1 (SA1) is located at 15498 LaPeyre Court (APNs 594-003-011 & -012). Regionally, SA1 is situated at the southwest terminus of LaPeyre Court, in unincorporated Ventura County in the foothills of the Simi Hills. SA1 bisects the SW ¼ of Sec. 11, T.2N, R.20W and the NW ¼ of Sec. 14, T.2N, R.20W of the Simi USGS 7.5' Topographical Quadrangle Map.

Survey Area 1 includes APNs 594-003-011 and -012 as well as a 100-foot buffer around the parcels. SA1 includes the paved driveways associated with the property and adjacent properties along LaPeyre Road as well as undeveloped roads within the parcels and the parcel to the south. The larger survey area was selected out of an abundance of caution because the final development footprint had not been established at the time of the survey. Off-site areas on private property were not accessible and surveyed by binoculars, where possible. This survey was conducted specifically for this ISBA and therefore focuses on the subject parcel and those areas that would be impacted or potentially impacted by the proposed project.

Survey Area Environmental Setting

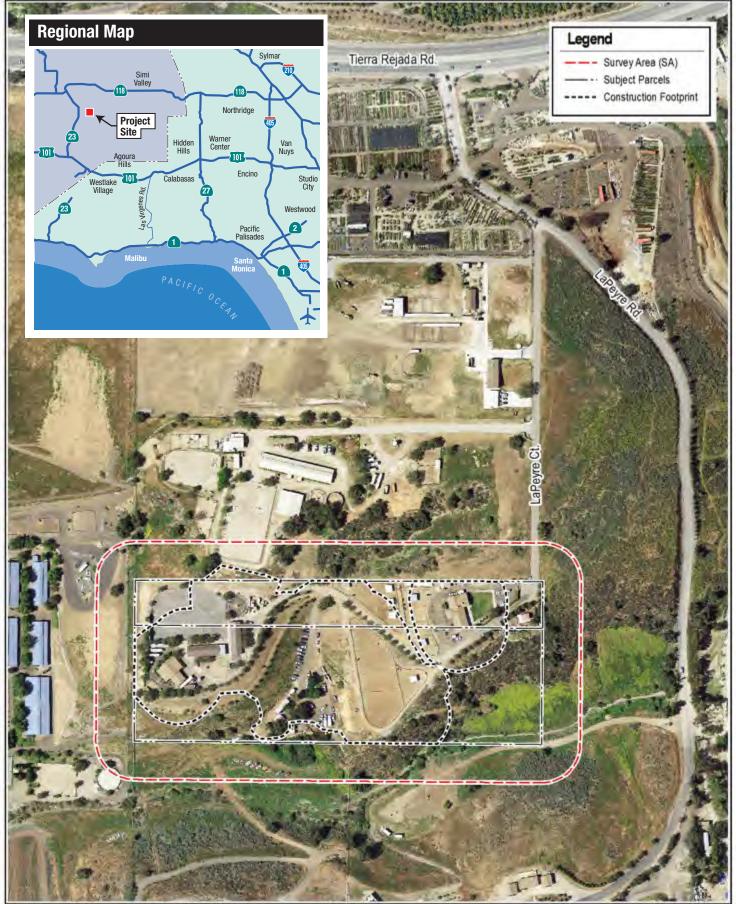
SA1 contains both developed and undeveloped areas with a majority of the horse facility located on APN 594-003-012 and the existing single-family residence on APN 594-003-011. The parcels together, hereafter referred to as subject property, rise sharply from south to north. The subject property's south and southeast facing slopes are relatively steep and dominated by native coast prickly pear cactus and sagebrush scrub plant communities that gradually transition to disturbed areas of non-native grasses and forbs and cleared or developed areas to the north. Other plant communities observed within SA1 include upland mustards (Brassica nigra). The main access roadway from LaPeyre Court to the bottom (south) of the subject property was previously cleared but non-native weedy species, including tumbleweed (Salsola australis) and tree tobacco (Nicotiana glauca) have become established as well as planted rows of Peruvian peppertree (Schinus molle). There are numerous areas that have been cleared of all vegetation and are developed with pipe corrals or horse area in the center of SA1. There is one drainage feature in the southeastern portion of SA1 that runs east to west, south of the subject properties. In addition, there is a grouping of exotic trees, primarily Peruvian peppertree and eucalyptus (Eucalyptus sp.) in the southeastern portion of SA1. This lowlying area includes several freestanding wood and pipe structures as well as a modern drain field constructed of placed rocks (i.e., energy dissipator).

Surrounding Area Environmental Setting

Parcels to the north are primarily open space and agriculture, including plant and tree nurseries whereas parcels to the south, east, and west are developed primarily with equestrian uses. These surrounding areas contain non-native grassland, coastal scrub, prickly pear cactus, and a few large native and non-native trees. Prickly pear and mustard continues south from the subject property to adjacent private property. The vegetation community eventually transitions to coastal sage scrub. The ephemeral drainage in the southeastern portion of SA1 continues southwest through SA1 and into properties southwest of the subject property. Regionally, the equestrian facilities with individual single-family homes on large lots and non-contiguous areas of sagebrush and cactus scrub characterize the surrounding environmental setting.

Cover

Vegetation Community Cover								
Legend	Acreage	Percent Cover						
Cleared Land	3.49	19.62%						
Urban or Disturbed	3.88	21.80%						
Undifferentiated Exotic Vegetation	1.95	10.95%						
Native and Non-Native Grasses and Forbes	4.68	26.27%						
Artemisia californica (California sagebrush scrub) Alliance, Disturbed	0.60	3.38%						
Opuntia littoralis (Coast prickly pear scrub) Alliance	2.40	13.46%						
Brassica nigra and other mustards (Upland mustards) Semi-natural Stands	0.80	4.51%						
Total	17.81	100.00%						



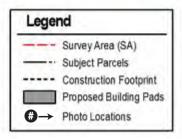
Source: Valtus Imagery Services, Hexagon Imagery Program (HxIP), 2017.

15498 LAPEYRE COURT - INITIAL STUDY BIOLOGICAL ASSESSMENT

envicom



Source: Valtus Imagery Services, Hexagon Imagery Program (HxIP), 2017. National Hydrography Dataset U.S.G.S., 2006.



15498 LAPEYRE COURT - INITIAL STUDY BIOLOGICAL ASSESSMENT



2.3 Methodology

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	Survey Date & Details										
Survey Key (1)	Survey Date (2)	Survey Area Map Key(s) (3)	GPS (7)	Surveyors							
SD1	10/06/2017	SA1	ISBA	7:00 am– 10:30 am	Walking transects. The entire site was accessible.	Trimble, GeoXT 6000, submeter	Tyler Barns				
	itial Study Biologica otanical Survey	l Assessment									

Section 3: The Biological Inventory

See Appendix One for an overview of the types of biological resources that are protected in Ventura County.

3.1 Ecological Communities: Plant Communities, Physical Features and Wetland Plant Communities

Locally important or rare plant communities were found within the survey area(s).

Major Plant Communities Summary

Vegetation within SA1 consists of coast prickly pear - mixed coastal sage scrub, California sagebrush scrub, non-native grassland, sparsely vegetated/barren disturbed areas, and cleared areas. There are also a number of individual exotic non-native trees, which typically occur as inclusions within scrub plant communities.

Generally, the condition of the vegetation within the subject parcel and impact area is disturbed. Only the coast prickly pear scrub communities in the southeastern portion of the site appear substantially intact.

The plant communities within SA1 were mapped using the State Vegetation Classification System (SVC). A plant communities map is provided as Figure 3. As is often the case with disturbed habitats, not all of the native and non-native plant communities in the survey area classify well using the SVC. No attempt

was made to classify all of the assemblages of naturalized non-native species using the SVC. Rather, for the purposes of this report, four convenient mapping units have been adopted, namely Undifferentiated Exotic Vegetation, Cleared Land, Urban/Disturbed or Built-Up, and Non-Native Grasses and Forbs: Disturbed. These vegetation types are described in more detail below.

Cleared Land (PC1)

Cleared land within the survey area includes the unpaved road that extends from Rolling Oak Road to the existing pad, as well as the unpaved areas located along Rolling Oak Road south of the parcel. The unpaved access road and areas along Rolling Oak Road are barren to sparsely vegetated, primarily with non-native weeds, such as those described above under non-native grasses and forbs.

<u>Urban/Disturbed or Built-Up (PC2)</u>

These areas include structures (e.g., homes, barns) and hardened roadways within SA1.

<u>Undifferentiated Exotic Vegetation (PC3)</u>

The area mapped as undifferentiated exotic vegetation consists of non-native trees located along western and eastern property boundary adjacent to the two single-family residences. The understory consists of low growing ruderal species, and appears to be routinely mowed.

Non-Native Grasses and Forbs: Disturbed (PC4)

These areas comprise naturalized non-native vegetation consisting predominately of invasive grasses and forbs, a few individual scattered native shrubs and a sparse distribution of native herbs (i.e., native species do not meet membership rules to be considered separate native vegetation communities). These areas have been historically disturbed. This is a mapping unit of convenience, which may contain multiple non-native vegetation types that may or may not be recognized by the SVC. Selected herbs present in these areas include slender oat (*Avena fatua*), ripgut grass (*Bromus diandrus*), foxtail barley (*Hordeum murinum*), tocalote (*Centaurea melitensis*), summer mustard (*Hirschfeldia incana*), redstem filaree (*Erodium cicutarium*), and Italian thistle (*Carduus pycnocephalus*).

California Sagebrush Scrub (Artemisia californica) Alliance [G5S5] (32.010.01) (PC5)

California sagebrush is dominant or co-dominant in the shrub canopy with coyote brush (*Baccharis pilularis*), buckwheat, chaparral yucca, and to a lesser extent purple and black sage. Emergent trees or tall shrubs, including laurel sumac, toyon, blue elderberry, and coast live oak are present at low cover. This alliance occurs on the south-facing and north-facing slopes on adjacent parcels south and northeast of the subject property. This alliance meets membership rule "*Artemisia californica* > 60% relative cover in the shrub canopy". This alliance is located primarily in the northeastern and southeastern portion of SA1.

Coast Prickly Pear Scrub (Opuntia littoralis) Alliance [G2S1.1] (32.150.02) (PC6)

Coast prickly pear and/or other cacti are dominant or co-dominant in the shrub canopy with California sagebrush, coastal cholla (*Cylindropuntia prolifera*), California buckwheat (*Eriogonum fasciculatum*), chaparral yucca (*Hesperoyucca whipplei*), laurel sumac (*Malosma laurina*), black sage (*Salvia mellifera*) and blue elderberry (*Sambucus nigra* ssp. *caerulea*). This alliance occurs on the south-facing slopes, where the soils are shallow, loams and clays that may be rocky. The alliance meets membership rule "Opuntia littoralis and/or other cacti (such as *Cylindropuntia prolifera* and *O. oricola*) are > 50% relative cover in the shrub canopy; Opuntia littoralis is > 30% relative cover as a dominant or co-dominant with other coastal sage scrub species". This alliance is considered a sensitive plant community.

This alliance occurs in two large swaths within the parcel, the smaller swath north of the subject property and the majority southwest of the existing single-family residence and on adjacent parcels to the west. None of the prickly pear communities are located within the proposed grading limits.

Black Mustard Herbaceous Association (PC7)

This herbaceous association occurs on the flat southwest-facing slope in the southwestern portion of SA1. Black mustard is the dominant species in the herbaceous layer with some California brittlebush (*Encelia californica*) and California sagebrush are found in the shrub layer at low cover, with elderberry in the tree layer at low cover.

	Plant Communities								
Map Key (1)	SVC Alliance	SVC Association	Misc. (2)	Status (3)	Condition (4)	Acres Total	Acres Impacted	Comments (5)	
PC1			Cleared land	N/A	Cleared – No Permits Assumed	3.49	1.86	Previous plant community likely coast prickly pear scrub (PC6).	
PC2			Urban/Distu rbed or Built-Up	N/A	N/A	3.88	2.83	Includes residential development, roads, and driveways.	
PC3			Undifferenti ated Exotic Vegetation	N/A	Disturbed	1.95	1.13	Non-native trees within SA1.	
PC4			Non-Native Grasses and Forbs: Disturbed	N/A	Disturbed	4.68	1.10	Evidence of fuel modification practices and infestation of nonnative species.	
PC5	California Sagebrush Scrub (Artemisia californica)	Artemisia californica		CDFW (G5S5)	Intact	0.60	-	Includes numerous weedy, non-native species.	
PC6	Coast Prickly Pear Scrub (Opuntia littoralis)	Opuntia littoralis – mixed coastal sage scrub		CDFW Rare (G2S1.1)	Intact	2.40	0.41	Based on aerial imagery, portions of this community were graded under prior development.	
PC7	Black Mustard (Brassica nigra) and other mustards Herbaceous Semi-Natural Alliance	Brassica nigra		N/A	Intact	0.80	-	Primarily black mustard but includes some native elderberry.	
1.10	l a a alle i lasa a ata a				Totals	17.81			

LIC.....Locally Important Plant Community

ESHAEnvironmentally Sensitive Habitat Areas (Coastal Zone)

CDFW Rare:

G1 or S1......Critically Imperiled Globally or Subnationally (state)

G2 or S2......Imperiled Globally or Subnationally (state)

G3 or S3......Vulnerable to extirpation or extinction Globally or Subnationally (state)

Cal OWAProtected by the California Oak Woodlands Act

Physical Features

Physical Features							
Map Key (1)	Key (1) Physical Feature (2) Comments (3)						
PF1	Volcanic outcrop (91 square feet)	Provides habitat for special status species, including Conejo dudleya (federally threatened).					

Waters and Wetlands

See Appendix One for an overview of the local, state and federal regulations protecting waters, wetlands and riparian habitats. Wetlands are complex systems; delineating their specific boundaries, functions and values generally takes a level of effort beyond the scope of an Initial Study Biological Assessment (ISBA). The goal of the ISBA with regard to waters and wetlands is simply to identify whether they may exist or not and to determine the potential for impacts to them from the proposed project. This much information can be adequate for designing projects to avoid impacts to waters and wetlands. Additional studies are generally warranted to delineate specific wetland boundaries and to develop recommendations for impact minimization or impact mitigation measures.

Waters and/or wetlands were found within the survey area(s).

Waters and Wetlands Summary

W1 – Ephemeral Stream / Riparian Habitat

W1 is a designated USGS blue-line stream, known as Arroyo Santa Rosa. The stream conveys water from upland areas associated with the subject parcel as well as parcels to the east of LaPeyre Road. The stream flows from east to west originating east of LaPeyre Road. The stream flows under LaPeyre Road via a culvert and continues west – southwest, south of the existing fence line through the southern portion of SA1. The stream continues off-site to the southwest. Based on these observations, Arroyo Santa Rosa flows through SA1 and is hydrologically connected upstream and downstream. At the time of the survey, W1 had an incised channel but lacked indicators of hydric vegetation or soils. In addition, W1 lacked other indicators commonly associated with wetland hydrology (e.g., drift deposits, surface water, water marks). A drainage pattern was the only indicator of wetland hydrology observed. Vegetation associated with W1 is predominantly coastal sagebrush scrub and non-native grasses and forbs, as illustrated as PC4 and PC5 on Figure 3. No trees line the stream within SA1. Of note, the portion of W1 within SA1 more closely resembles a grass line swale with emergent coastal scrub species along the upland margins. As illustrated in Photo P18, the portion of the stream nearest the planned development is basically non-native grasses, upland mustards, and castor bean (*Ricinus communis*).

Based on Google Earth historical aerials, the stream does not appear to have been altered since at least 1994, although roadside maintenance occurs immediately adjacent to the stream. Within SA1, Arroyo Santa Rosa contains relatively disturbed riparian habitat with several invasive species.

Per the grading plan provided by the Applicant, the proposed project would not impact the stream. In addition, required Best Management Practices (BMP) during construction would prevent indirect impacts to the stream. The extent of riparian habitat associated with W1 is shown in Figure 3. A formal jurisdictional delineation is not recommended to define the limits of agency jurisdiction as the stream is not located within the Applicant's development footprint, the project would not discharge into the stream, and construction-related BMPs would prevent indirect impacts.

	Waters and Wetlands										
Map Key (1)	(1) Type (2) Name (if any) (if known) (4) Status (5)										
W1	Stream	Arroyo	USACE, CDFW,	530 linear ft.	Dry	Runoff					
		Santa Rosa	County	onsite							
USACE	U.S. Army C	orps of Engineers	regulated								
CDFW	CDFWCalifornia Department of Fish & Wildlife regulated										
	CountyCounty General Plan protected wetland										
WPD	Co. Watersh	ed Protection Dist	rict (red-line stream)								

	Waters and Wetlands (continued)									
Мар Кеу	County Wetland Significance (7)	Wetland Distance from Project (8)	Comments (9)							
W1	Unknown	~130 feet	Arroyo Santa Rosa appears to be an ephemeral stream. Ephemeral streams are not listed as significant wetlands under the County's General Plan. The stream contains a mixture of upland coastal sage scrub species (approx. 30%) along its banks and an abundance of non-native species (approx. 70%) within the channel. Based on these conditions the portion of the stream within SA1 is more akin to an agricultural ditch or upland swale. Nevertheless, because the status cannot be confirmed as Significant, its Significance has been described as "Unknown."							

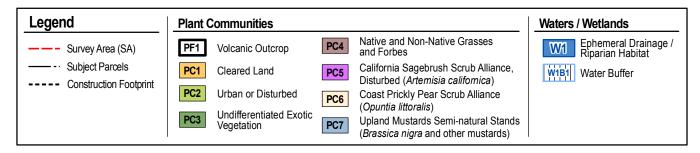
Water/Wetland Buffers								
Map Key (1) Recommended Buffer (2) Comments								
W1B1	50	The ephemeral nature and disturbed condition of the stream,						
		along with its location with respect to project development warrants a reduced buffer to protect its functions.						

Other Areas/Observations

No other notable areas/observations to describe.



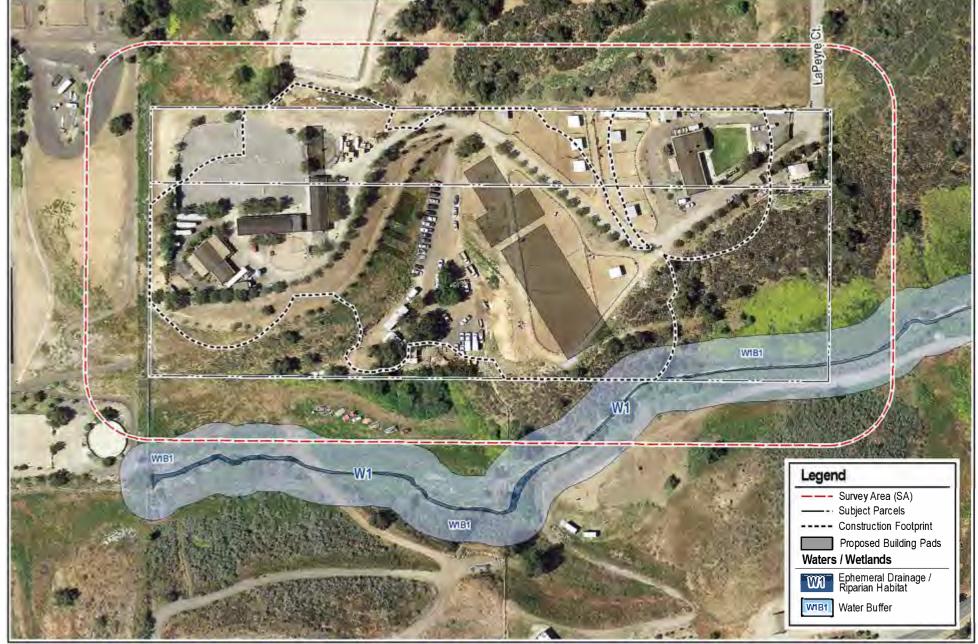
Source: Valtus Imagery Services, Hexagon Imagery Program (HxIP), 2017.



15498 LAPEYRE COURT - INITIAL STUDY BIOLOGICAL ASSESSMENT



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Source: Source: Valtus Imagery Services, Hexagon Imagery Program (HxIP), 2017. National Hydrography Dataset U.S.G.S., 2006. National Hydrography Dataset U.S.G.S., 2006.

15498 LAPEYRE COURT - INITIAL STUDY BIOLOGICAL ASSESSMENT

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3.2 Species

Observed Species

During the survey conducted within SA1 on October 6, 2017, a total of 42 species of vascular plants (19 native, 23 non-native) were observed. A complete list of observed plant species is provided in Appendix 2. Plant diversity is low to moderate and a significant percentage of the species observed were non-native (55%). None of the observed species are rare, threatened, or endangered.

A total of 18 species of birds, one (1) reptile, and six (6) mammals were observed. Observed species were primarily species common or relatively common to the region, and represent only a sample of the species that can be expected to utilize habitats at or in the vicinity of the site for cover, foraging, and reproduction. Furthermore, in general, this list includes species that are more easily detected during daytime surveys. Wildlife observed were mainly birds associated with the upland sagebrush scrub, wooded habitats, and semi-urban environs.

Birds heard or observed included American crow, Anna's hummingbird, black phoebe, Bewick's wren, Brewer's blackbird, brown-headed cowbird, California scrub-jay [formerly western scrub-jay], California towhee, common raven, dark-eyed junco, European starling, house finch, house wren, mourning dove, northern mockingbird, rock pigeon, and spotted towhee. A turkey vulture was observed overhead. Great Basin fence lizard (*Sceloporus occidentalis*) was observed in some denser woody and brushy areas. A complete list of observed wildlife species is provided in Appendix 2.

Protected Trees

The Ventura County Tree Protection Ordinance, found in Section 8107-25 of the Ventura County Non-Coastal Zoning Ordinance, protects select trees. This ordinance, which applies in the unincorporated areas of the County outside the coastal zone, regulates—through a tree permit program—the removal, trimming of branches or roots, or grading or excavating within the root zone of a "protected tree." Individual trees are the focus of the ordinance, while oak woodlands are additionally protected as "locally important communities." A list of protected trees is provided in Section 8107-25 of the ordinance. The species of trees protected is dependent on zoning classification, with more species protected in Scenic Highway and Scenic Resource Protection Overlay Zones. The subject parcel is not within a Scenic Resource Overlay Zone and no heritage trees were observed within the survey area. Although two (2) blue elderberry trees located within the accessible portion of the survey area, these trees are not considered County protected trees because the project is not located in a Scenic Resource Overlay Zone. Furthermore, based on the grading plan provided by the Applicant, grading would not encroach into the canopy or the root protection zone of any trees listed as protected by the County.

Special Status Species and Nests

See Appendix One for definitions of the types of special status species that have federal, state or local protection and for more information on the regulations that protect birds' nests.

Special status species <u>were observed or have a moderate to high potential to occur</u> within the survey area(s).

Habitat suitable for nests of birds protected under the Migratory Bird Treaty Act <u>does exist</u> within the survey area(s).

Special Status Species Summary

Special-Status Plants

No special-status plant species were observed within SA1. A review of the California Department of Fish and Wildlife (CDFW) Biogeographic Information and Observation System (BIOS) shows multiple special-

status plant species occurrences are located within one (1) mile from the site. The nearest occurrences include Conejo dudleya (*Dudleya parva*) located approximately 0.37 miles southeast of SA1, California Orcutt grass (Orcuttia californica) approximately 0.65 miles southwest of SA1 and Lyon's Pentachaeta (Pentachaeta Iyonii) located approximately 0.62 miles northwest of SA1. In addition, a review of the Critical Habitat spatial data provided by the U.S. Fish and Wildlife Service shows no critical habitat for sensitive plant species within one (1) mile of the project site.

The potential for occurrence analysis for special-status plant species presented in the table below considers the potential for the species to occur within SA1, and therefore includes not only the subject parcel and impact area, but the coastal sage scrub, prickly pear scrub, and developed habitats of the adjacent properties. Several of the species in the table are considered absent with no potential to occur either because they are outside the known range of the species or they are perennial species that would have been detected during the field survey. The potential for occurrence of annual species and bulbs was evaluated as these species may not have been detected if they did not bloom during this growing season. Nevertheless, although some species have been assigned a low or moderate potential for occurrence, they are not expected to occur within the construction footprint due to the site's disturbed condition.

Special-Status Wildlife

No special-status wildlife species were observed within SA1. However, a review of the Critical Habitat spatial data provided by the U.S. Fish and Wildlife Service shows critical habitat for the coastal California gnatcatcher surrounds SA1 with the nearest designated critical habitat located within approximately 800 feet south of SA1. As for special-status plants, the potential for occurrence analysis for special-status wildlife species presented in the table below considers the potential for the species to occur within SA1, and therefore includes not only the subject parcel and impact area, but habitat within adjacent properties. In regards to wildlife, the disturbed nature of the proposed construction footprint and immediately adjacent areas makes it unlikely that a special-status species occupying these native habitats would occur within the grading footprint.

	Observed and Potentially Occurring Special Status Species								
Map Key (1)	Survey/ Source (2)	Scientific Name (3)	Common Name	Species' Status (4)	Potential to Occur (5)	Habitat Requirements (6)			
PLANTS	S POTENTI	AL FOR OCCURRENCE	E						
SSP1	CNPS	Acanthoscyphus parishii var. parishii	Parish's Oxytheca	4.2	Low	Occurs in areas that are sandy or gravelly as well as chaparral and lower montane coniferous forest. Blooms from June to September.			
SSP2	CNPS	Abronia maritima	Red Sand- Verbena	4.2	None	Coastal dunes.			
SSP3	CNPS	Asplenium vespertinum	Western Spleenwort	4.2	None	Found in chaparral, cismontane woodlands and coastal scrub, typically at the base of overhanging boulders.			
SSP4	CNDDB	Astragalus brauntonii	Braunton's Milkvetch	FE, 1B.1	None	Recent burns or disturbed areas, usually sandstone with carbonate layers in closed- cone coniferous forest, chaparral, coastal scrub, and valley and foothill grassland at elevations between 4 and 640 meters. A soil specialist in saline, somewhat alkaline soils high in calcium, manganese, with some potassium.			

	Observed and Potentially Occurring Special Status Species								
Map Key (1)	Survey/ Source (2)	Scientific Name (3)	Common Name	Species' Status (4)	Potential to Occur (5)	Habitat Requirements (6)			
SSP5	CNDDB	Atriplex coulteri	Coulter's Saltbush	1B.2	None	Generally found in coastal bluff scrub, coastal dunes, coastal scrub, valley and foothill grassland. Ocean bluffs, ridge tops, as well as alkaline low places, 10-440 m.			
SSP6	CNDDB	California macrophylla	Round-leaved Filaree	1B.2	Moderate	Found in chaparral, coastal scrub, cismontane woodland, valley and foothill grassland, clay soils, 15-1200m.			
SSP7	CNPS	Calochortus catalinae	Catalina Mariposa Lily	4.2	Moderate	This species typically occurs in chaparral, cismontane woodland, coastal scrub, and valley and foothill grassland. The species is widespread in region. "Uncommon, heavy soil, open grassland or shrubland, <700m, south Central Coast, west South Coast, especially Channel Islands"			
SSP8	CNPS	Calochortus clavatus var. clavatus	Club Haired Mariposa Lily	4.3	Low	This species typically occurs in chaparral, cismontane woodland, coastal scrub, and valley and foothill grassland on usually serpentinite, clay, and rocky substrate.			
SSP9	CNDDB	Calochortus clavatus var. gracilis	Slender Mariposa Lily	1B.2	Low	Chaparral, coastal scrub, and valley and foothill grassland habitats. Found in shaded foothill canyons; often on grassy slopes within other habitat. 420-760.			
SSP10	CNPS	Calochortus fimbriatus	Late-Flowered Mariposa Lily	1B.3	None	This species typically occurs in chaparral, cismontane woodland, coastal scrub, and valley and foothill grassland on usually serpentinite, clay, and rocky substrate.			
SSP11	CNDDB	Calochortus plummerae	Plummer's Mariposa Lily	4.2	Moderate	Found in coastal scrub, chaparral, valley and foothill grassland, cismontane woodland, and lower montane coniferous forest. Generally occurs on rocky and sandy sites, usually of granitic or alluvial material. It can be very common after fire.			
SSP12	CNPS	Calystegia peirsonii	Peirson's Morning-Glory	4.2	None	This species typically occurs in chaparral, cismontane woodland, chenopod scrub, coastal scrub, lower montane coniferous forest, and valley and foothill grassland on usually serpentinite, clay, and rocky substrate.			
SSP13	CNPS	Castilleja gleasonii	Mt. Gleason Paintbrush	1B.2	None	This species typically occurs in granitic, chaparral, lower montane coniferous forest, pinyon and juniper woodland at elevations between 1160-2170 meters. Blooms from May to September,			
SSP14	CNDDB	Centromadia parryi ssp. australis	Southern Tarplant	1B.1	None	Annual herb found on the margins of marshes and swamps, and in vernally mesic valley and foothill grassland and vernal pools at elevations between 0 and 425 meters. Blooms from May to November.			

	Observed and Potentially Occurring Special Status Species								
Map Key (1)	Survey/ Source (2)	Scientific Name (3)	Common Name	Species' Status (4)	Potential to Occur (5)	Habitat Requirements (6)			
SSP15	CNPS	Cercocarpus betuloides var. blancheae	Island Mountain- Mahogany	4.3	None	Species occurs in closed-cone coniferous forest and chaparral.			
SSP16	CNDDB	Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	FC, SE	None	Annual herb found on sandy soils in coastal scrub and valley and foothill grassland at elevations between 3 and 1035 meters. Blooms April to July.			
SSP17	CNPS	Clarkia exilis	Slender Clarkia	4.3	None	Found in Cismontane woodland at elevations of 120-1000 meters. Blooms April to May.			
SSP18	CNPS	Clinopodium mimuloides	Monkey-flower Savory	4.2	None	Occurs in stream banks, mesic, chaparral, and North Coast coniferous forest at elevations of 205-1800 meters, Blooms June to October.			
SSP19	CNPS	Convolvulus simulans	Small-flowered Morning Glory	4.2	None	Occurs in wet clay, serpentine ridges, 30-700m, San Joaquin Valley, Central and South Coast, southern Channel Islands, Baja California.			
SSP20	CNDDB	Deinandra minthornii	Santa Susana tarplant	SR, 1B.2	None	Perennial deciduous shrub found in rocky sandstone habitats in chaparral and coastal scrub at elevations between 280 and 760 meters. Blooms July to November.			
SSP21	CNPS	Deinandra paniculata	Paniculate Tarplant	4.2	None	Occurs in usually vernally mesic, sometimes sandy habitats as well as coastal scrub, valley and foothill grassland, vernal pools at elevations of 25-940 meters. Blooms from April to November.			
SSP22	CNDDB	Delphinium parryi ssp. blochmaniae	Dune Larkspur	1B.2	None	Perennial herb found in maritime chaparral and coastal dunes at elevations between 0 and 200 meters. Blooms April to May.			
SSP23	CNDDB	Delphinium parryi ssp. purpureum	Dune Larkspur	4.3	None	Occurs in chaparral, Mojavean desert scrub, and pinyon and juniper woodland.			
SSP24	CNDDB	Delphinium umbraculorum	Umbrella Larkspur	1B.3	None	Occurs in cismontane woodland, chaparral, and in mesic sites between elevations of 215-2075 meters.			
SSP25	CNDDB	Dudleya blochmaniae ssp. blochmaniae	Blochman's Dudleya	1B.1	None	Perennial herb found on open, rocky slopes; often in shallow clays over serpentine or in rocky areas with little soil; coastal bluff scrub, chaparral, coastal scrub, and valley and foothill grassland at elevations between 5 an 450 meters. Blooms April to June.			
SSP26	CNDDB	Dudleya cymosa ssp. agourensis	Agoura Hills Dudleya	FT, 1B.2	None	Perennial herb found in rocky, volcanic breccia in chaparral and cismontane woodland at elevations between 200 to 500 meters. Blooms May to June.			
SSP27	CNDDB	Dudleya cymosa ssp. marcescens	Marcescent Dudleya	FT, SR, 1B.2	None	Perennial herb found on sheer rock surfaces and rocky volcanic cliffs in chaparral at elevations between 150 and 520 meters. Blooms April to July.			

		Observed a	and Potentially Oc	curring Spe	cial Status	Species
Map Key (1)	Survey/ Source (2)	Scientific Name (3)	Common Name	Species' Status (4)	Potential to Occur (5)	Habitat Requirements (6)
SSP28	CNDDB	Dudleya multicaulis	Many-Stemmed Dudleya	1B.2	Low	Perennial herb found in chaparral, coastal scrub, and valley and foothill grassland at elevations between 15 and 790 meters, in heavy, often clayey soils or grassy slopes. Blooms from April to July.
SSP29	CNDDB	Dudleya parva	Conejo Dudleya	FT, 1B.2	Low	Found in rocky or gravelly areas on clay or volcanic substrates in coastal scrub and valley and foothill grassland habitats at elevations between 60 and 450 meters. Blooms from May to June.
SSP30	CNDDB	Dudleya verityi	Verity's Dudleya	FT, 1B.2	None	Perennial herb found on volcanic, rocky substrates in chaparral, cismontane woodland, and coastal scrub at elevations between 60 and 120 meters. Blooms from May to June.
SSP31	CNDDB	Eriogonum crocatum	Conejo Buckwheat	CR, 1B.2	Low	Perennial subshrub found in rocky or gravelly areas on clay or volcanic substrates in coastal scrub and valley and foothill grassland habitats at elevations between 60 and 450 meters. Blooms from April to July.
SSP32	CNDDB	Harpagonella palmeri	Palmer's Grapplinghook	4.2	Low	Occurs in chaparral, coastal scrub, valley and foothill grassland as well as clay soils, open grassy areas within shrubland, 20-995 meters.
SSP33	CNDDB	Horkelia cuneata ssp. puberula	Mesa Horkelia	1B.1	None	Chaparral, cismontane woodland, coastal scrub. Sandy or gravelly sites, 70-810m.
SSP34	CNPS	Juglans californica	Southern California Black Walnut	4.2	Low	Perennial deciduous tree that occurs in chaparral, cismontane woodland, and coastal scrub.
SSP35	CNPS	Lepechinia fragrans	Fragrant Pitcher sage	4.2	None	Occurs in chaparral between 20-1310 meters. Blooms March – October.
SSP36	CNPS	Lepechinia rossii	Ross' Pitcher sage	1B.2	None	Occurs in chaparral at elevations of 305-790 meters. Blooms in May through September.
SSP37	CNPS	Lupinus paynei	Payne's Bush Lupine	3.1	Low	Perennial shrub that occurs in sandy habitats, coastal scrub, riparian scrub and valley and foothill grassland at elevations of 220-420 meters. Blooms March through April.
SSP38	CNPS	Lilium humboldtii ssp. ocellatum	Ocellated Humboldt	4.2	None	Uncommon, yellow pine forest and openings, <1800m
SSP39	CNDDB	Monardella hypoleuca ssp. hypoleuca	White-veined Monardella	1B.3	None	Occurs in chaparral and shady oak woodland habitats at elevations between 50 and 1525 meters. Local in a variety of habitats.
SSP40	CNDDB	Monardella sinuata ssp. gerryi	Gerry's curly- leaved Monardella	1B.1	Low	Occurs on sandy openings in coastal strands.
SSP41	CNPS	Monardella sinuata ssp. sinuata	Southern Curly- leaved Monardella	1B.2	Low	Occurs in sandy soils, coastal strand, dune and sagebrush scrub, coastal chaparral and oak woodland. Blooms April – September. Found between 0-300 m

	Observed and Potentially Occurring Special Status Species								
Map Key (1)	Survey/ Source (2)	Scientific Name (3)	Common Name	Species' Status (4)	Potential to Occur (5)	Habitat Requirements (6)			
SSP42	CNDDB	Navarretia ojaiensis	Ojai Navarretia	1B.1	Moderate	Annual herb found in valley and foothill grassland and openings in chaparral and coastal scrub at elevations between 275 and 620 meters. Blooms from May to July.			
SSP43	CNDDB	Nolina cismontana	Chaparral Nolina	1B.2	None	Perennial evergreen shrub found on sandstone or gabbro substrates in chaparral and coastal scrub at elevations between 140 and 1275 meters. Blooms between May and July.			
SSP44	CNDDB	Orcuttia californica	California Orcutt Grass	FE, SE	None	Annual herb found in vernal pool at elevations between 15 and 660 meters. Blooms from April to August.			
SSP45	CNDDB	Pentachaeta Iyonii	Lyon's Pentachaeta	FE, SE	Moderate	Annual herb found on rocky, clay substrates in coastal scrub, valley and foothill grassland, and openings in chaparral at elevations between 30 and 630 meters. Blooms between March and August.			
SSP46	CNPS	Phacelia hubbyi	Hubby's Phacelia	4.2	None	Gravelly, rocky substrates in chaparral, coastal scrub, and valley and foothill grassland habitats at elevations between 0 – 1000 meters.			
SSP47	CNPS	Piperia michaelii	Michael's rein orchid	4.2	None	Occurs in coastal bluff scrub, closed- cone coniferous forest, chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest			
SSP48	CNPS	Pseudognaphalium leucocephalum	White Rabbit- Tobacco	2B.2	Low	Perennial herb that occurs in a sandy and gravelly habitat, as well as chaparral, cismontane woodland, coastal scrub, riparian woodland at elevations of 0-2100 meters. Blooms from August to November.			
SSP49	CNPS	Stylocline masonii	Mason's Neststraw	1B.1	None	Annual herb that occurs in sandy habitats, chenopod scrub, and pinyon/juniper woodlands at elevations of 100-1200 meters. Blooms from March to May.			
SSP50	CNPS	Symphyotrichum greatae	Greata's Aster	1B.3	None	Perennial rhizomatous herb found in mesic habitats, broad-leafed upland forest, chaparral, cismontane woodland, lower montane coniferous forest and riparian woodland at elevation of 300-2010 meters. Blooms from June to October.			
	E POTEN	TIAL FOR OCCURREN	ICE						
SSP51	CNDDB	Bombus crotchii	Crotch Bumble Bee	SA	Low	Coastal California east to the sierra- cascade crest and south into Mexico. Food plant genera include Antirrhinum, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.			

	Observed and Potentially Occurring Special Status Species								
Map Key (1)	Survey/ Source (2)	Scientific Name (3)	Common Name	Species' Status (4)	Potential to Occur (5)	Habitat Requirements (6)			
SSP52	CNDDB	Socalchemmis gertschii	Gertschs Socalchemmis Spider	SA	None	Known only from 2 locations in Los Angeles County; (Brentwood and Topanga Canyon). Source: Platnick, N.I. and D. Ubick. 2001. A revision of North American spiders of the genus Socalchemmis (Araneae, Tengellidae). North American Novitates No. 3339.			
SSP53	CNDDB	Trimerotropis occidentaloides	Santa Monica Mountains Grasshopper	SA	Low	Known only from the Santa Monica Mountains, on bare hillsides and along dirt trails in chaparral. Endemic to the Santa Monica Mountains. Perhaps common along the whole crest of the western one-third of the range.			
Crustac	eans								
SSP54	CNDDB	Streptocephalus woottoni	Riverside Fairy Shrimp	FE	None	Endemic to western Riverside, Orange, and San Diego Counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub. Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season.			
Fish									
SSP55	CNDDB	Catostomus santaanae	Santa Ana Sucker	FT, SSC	None	Endemic to Los Angeles Basin south coastal streams. Habitat generalists, but prefer sand-rubble-boulder bottoms, cool, clear water and algae.			
SSP56	CNDDB	Gasterosteus aculeatus williamsoni	Unarmored Threespine Stickleback	FE, SE	None	Weedy pools, backwaters, and among emergent vegetation at the stream edge in small southern California streams. Cools (<24C), clear water with abundant vegetation.			
SSP57	CNDDB	Gila orcuttii	Arroyo Chub	SSC	None	Native to streams from Malibu Creek to San Luis Rey River basin. Introduced into streams in Santa Clara, Ventura, Santa Ynez. Slow water stream sections with mud or sand bottoms. Feeds heavily on aquatic vegetation and associated invertebrates.			
SSP58	CNDDB	Oncorhynchus mykiss irideus	Southern Steelhead – Southern California DPS	FE, SSC	None	Federal listing refers to populations from Santa Maria River south to southern extent of range (San Mateo Creek in San Diego Co.). Southern steelhead likely have greater physiological tolerances to warmer water and more variable conditions.			

		Observed a	and Potentially Oc	curring Spe	cial Status	Species					
Map Key (1)	Survey/ Source (2)	Scientific Name (3)	Common Name	Species' Status (4)	Potential to Occur (5)	Habitat Requirements (6)					
	Amphibians										
SSP59		Anaxyrus californicus	Arroyo Toad	SSC	None	Occurs in semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc. Also occurs in rivers with sandy banks, willows, cottonwoods, sycamores, and loose gravelly areas of streams in the drier parts of range.					
SSP60	CNDDB	Rana draytonii	California Red- Legged Frog	FT, SSC	None	Lowlands and foothills in or near permanent source of deep water with dense, shrubby or emergent vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to aestivation habitat.					
SSP61	CNDDB	Rana boylii	Foothill Yellow- Legged Frog	ST, SSC	None	Found in partly-shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. Needs at least some cobble-sized substrate for egg-laying, needs at least 15 weeks to attain metamorphosis.					
SSP62	CNDDB	Spea hammondii	Western Spadefoot	SSC	None	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.					
Reptiles											
SSP63	CNDDB	Anniella sp. 1	California Legless Lizard	SSC	Low	Found in Contra Costa County south to San Diego, within a variety of open habitats, such as moist, loose soil with high moisture content.					
SSP64	CNDDB	Arizona elegans occidentalis	California Glossy Snake	SSC	Low	Patchily distributed from the Eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, transverse, and peninsular ranges, south to Baja California. Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.					
SSP65	CNDDB	Aspidoscelis tigris stejnegeri	Coastal Whiptail	SA	Moderate	Found in deserts and semiarid areas with sparse vegetation and open areas. Also found in woodland and riparian areas.					
SSP66	CNDDB	Diadophis punctatus modestus	San Bernardino Ringneck Snake	SA	Low	Most common in open, relatively rocky areas. Often in somewhat moist microhabitats near intermittent streams. Avoids moving through open or barren areas by restricting movements to areas of surface litter or herbaceous veg.					

	Observed and Potentially Occurring Special Status Species								
Map Key (1)	Survey/ Source (2)	Scientific Name (3)	Common Name	Species' Status (4)	Potential to Occur (5)	Habitat Requirements (6)			
SSP67	CNDDB	Phrynosoma blainvillii	Coast Horned Lizard	SSC	Low	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes. Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.			
SSP68	CNDDB	Emys marmorata	Western Pond SSC Turtle		None	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation. Need basking sites and suitable (sandy banks or grassy open fields) upland habitat up to 0.5 km from water for egglaying.			
SSP69	CNDDB	Thamnophis hammondii	Two-Striped Garter Snake	SSC	None	Coastal California from vicinity of Salinas to northwest Baja California. From sea to about 7,000 feet elevation. Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth.			
Birds			1	1	1	•			
SSP70	CNDDB	Accipiter cooperii	Cooper's Hawk	WL	High	Uncommon permanent resident, augmented by fall transients in the coastal district (Garrett and Dunn 1981). Dense stands of live oak, riparian deciduous, or other forest habitats near water used most frequently (Zeiner et al. 1990b).			
SSP71	CNDDB	Agelaius tricolor	Tricolored Blackbird	SSC	Low	Local resident in coastal district, common where it occurs (Garrett and Dunn 1981).			
SSP72	CNDDB	Aimophila ruficeps canescens	Southern California Rufous- Crowned Sparrow	WL	Low	Uncommon permanent resident, augmented by fall transients in the coastal district (Garrett and Dunn 1981). Dense stands of live oak, riparian deciduous, or other forest habitats near water used most frequently (Zeiner et al. 1990b).			
SSP73	CNDDB	Aquila chrysaetos	Golden Eagle	SFP	Low	Rolling foothills, mountain areas, sage- juniper flats, and desert. Cliff-walled canyons provide nesting habitat in most parts of range; also, large trees in open areas.			
SSP74		Artemisiospiza belli belli	Bell's Sage Sparrow	WL	None	Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range. Nest located on the ground beneath a shrub or in a shrub 6-18 inches above ground. Territories about 50 yards apart.			

	Observed and Potentially Occurring Special Status Species								
Map Key (1)	Survey/ Source (2)	Scientific Name (3)	Common Name	Species' Status (4)	Potential to Occur (5)	Habitat Requirements (6)			
SSP75	CNDDB	Athene cunicularia	Burrowing Owl	SSC	Low	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel. Now extirpated from most of the coastal slope of the Los Angeles region (Garrett et al 2006). Now occurs mainly as a transient and winter visitor to coastal southern California.			
SSP76	CNDDB	Coccyzus americanus occidentalis	Western Yellow-Billed Cuckoo	FT, SE	None	Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles or wild grape.			
SSP77	CNDDB	Elanus leucurus	White-Tailed Kite	SFP	Moderate	Uncommon resident in open grasslands, valley oak savannas, marshes, and agricultural areas throughout the lowlands of the Los Angeles region (Garrett et al. 2006).			
SSP78	CNDDB	Empidonax traillii extimus	Southwestern Willow Flycatcher	FE/SE	Low	Riparian woodlands in southern California. Very low potential to occur temporarily during migration.			
SSP79	CNDDB	Gymnogyps californianus	California Condor	FE, SE	None	Requires vast expanses of open savannah, grasslands, and foothill chaparral in mountain ranges of moderate altitude. Also occurs in deep canyons containing clefts in the rocky walls, which provide nesting sites. Forages up to 100 miles from roost/nest.			
SSP80	CNDDB	Icteria virens	Yellow- Breasted Chat	SSC	None	Summer resident, inhabits riparian thickets of willow and other brushy tangles near watercourses. Nests in low, dense riparian, consisting of willow, blackberry, wild grape, forages and nests within 10 ft. of ground.			
SSP81	CNDDB	Polioptila californica californica	Coastal California Gnatcatcher	FT, SSC	None	Obligate, permanent resident of coastal sage scrub below 2500 feet in southern California. Low, coastal sage scrub in arid washes, on mesa and slopes. Not all areas classified as coastal sage scrub are occupied.			
SSP82	CNDDB	Riparia riparia	Bank Swallow	ST	Low	Very uncommon spring transient and rare fall transient, and casual winter transient along the coast, formerly a fairly common summer resident, now virtually extirpated as a breeder in the region (Garrett and Dunn 1981).			

	Observed and Potentially Occurring Special Status Species							
Map Key (1)	Survey/ Source (2)	Scientific Name (3)	Common Name	Species' Status (4)	Potential to Occur (5)	Habitat Requirements (6)		
SSP83	CNDDB	Vireo bellii pusillus	Least Bell's Vireo	FE, SE	Low	Summer resident of southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft. Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, baccharis, or mesquite. Very low potential to occur temporarily during migration.		
Mamma		A netwo mouli du o	Dallid Dat	000	1	December annocale and a show-bloods		
SSP84	CNDDB	Antrozous pallidus	Pallid Bat	SSC	Low	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.		
SSP85	CNDDB	Euderma maculatum	Spotted Bat	SSC	Low	Mostly in foothills and mountains and desert regions of southern California, in a range of habitats from desert and grasslands through mixed conifer forest. Range in California includes Santa Monica Mountains (Zeiner et al. 1990a). Occupies a wide variety of habitats from arid deserts and grasslands through mixed conifer forests, feeds over water and along washes. feeds almost entirely on moths. Needs rock crevices in cliffs or caves for roosting.		
SSP86	CNDDB	Eumops perotis californicus	Western Mastiff Bat	SSC	Moderate	Many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, chaparral etc. Roosts in crevices in cliff faces, high buildings, trees and tunnels.		
SSP87	CNDDB	Lasiurus cinereus	Hoary Bat	VC LIS	Moderate	Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding. Roosts in dense foliate of medium to large trees. Feeds primarily on moths. Requires water.		
SSP88	CNDDB	Macrotus californicus	California Leaf- nosed Bat	SSC	Low	Found in desert riparian, desert wash, desert scrub, desert succulent scrub, alkali scrub and palm oasis habitats. Needs rocky, rugged terrain with mines or caves for roosting. Reported range does not include the Santa Monica Mountains (Zeiner et al. 1990a).		
SSP89	CNDDB	Myotis ciliolabrum	Western Small- Footed Myotis	SA	Low	Occurs in a wide variety of habitats, especially woodland and brush lands near water from sea level to 8900 feet. Range in California includes Santa Monica Mountains (Zeiner et al. 1990a).		

	Observed and Potentially Occurring Special Status Species								
Map Key (1)	Survey/ Source (2)	Scientific Name (3)	fic Name (3) Common		Potential to Occur (5)	Habitat Requirements (6)			
SSP90	CNDDB	Neotoma lepida intermedia	San Diego Desert Woodrat	SSC	None	Lives in high desert areas, chaparral, sagebrush flats, and Pinyon-Juniper Woodland.			
SSP91	CNDDB	Taxidea taxus	American Badger	SSC	None	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food, friable soils and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.			

Special Status Species (continued)							
Map Key	Adequate Habitat Onsite	Adequate Habitat Size (7)	Acreage Impacted	Comments (8)			
SSP1	No	No					
SSP2	No	No					
SSP3	No	No					
SSP4	No	No					
SSP5	No	No					
SSP6	Yes	Yes	0.41	This species was not observed but may occur in the fuel modification area southeast of the proposed arena. The species is more likely to occur in the study area, beyond the limits of construction and fuel modification.			
SSP7	Yes	Yes	0.41	This species was not observed but may occur in the fuel modification area southeast of the proposed arena. The species is more likely to occur in the study area, beyond the limits of construction and fuel modification.			
SSP8	Yes	Yes	0.41	This species was not observed but may occur in the fuel modification area southeast of the proposed arena. The species is more likely to occur in the study area, beyond the limits of construction and fuel modification.			
SSP9	Yes	Yes	0.41	This species was not observed but may occur in the fuel modification area southeast of the proposed arena. The species is more likely to occur in the study area, beyond the limits of construction and fuel modification.			
SSP10	No	No					
SSP11	Yes	Yes	0.41	This species was not observed but may occur in the fuel modification area southeast of the proposed arena. The species is more likely to occur in the study area, beyond the limits of construction and fuel modification.			
SSP12	No	No					
SSP13	No	No					
SSP14	No	No					
SSP15	No	Yes					
SSP16	No	No					
SSP17	No	No					
SSP18	No	No					
SSP19	No	No					
SSP20	No	No					
SSP21	No	No					
SSP22	No	No					
SSP23	No	No					
SSP24	Yes	No					
SSP25	Yes	No					
SSP26	Yes	No					
SSP27	Yes	No					

	Special Status Species (continued)							
Map Key	Adequate Habitat Onsite	Adequate Habitat Size (7)	Acreage Impacted	Comments (8)				
SSP28	Yes	No						
SSP29	Yes	Yes		Marginal habitat available (rocky volcanic outcrop), species confirmed absent during survey.				
SSP30	No	No						
SSP31	Yes	Yes		Marginal habitat available (rocky volcanic outcrop), species confirmed absent during survey.				
SSP32	No	No						
SSP33	No	No						
SSP34	Yes	Yes		This species was not observed within the survey area.				
SSP35	No	No						
SSP36	No	No						
SSP37	No	No						
SSP38	No	No						
SSP39	No	No						
SSP40	No	No						
SSP41	No	No						
SSP42	Yes	Yes	1.51	This species was not observed. Acreage impact includes non-native disturbed grassland as well as sagebrush scrub.				
SSP43	No	No						
SSP44	No	No						
SSP45	Yes	Yes	1.51	Marginal habitat available in disturbed areas adjacent to prickly pear (off-site); species confirmed absent during survey.				
SSP46	Yes	No	1.51	Marginal habitat available near rocky outcrop; species confirmed absent during survey.				
SSP47	No	No		•				
SSP48	Yes	No		Marginal habitat available, species confirmed absent during survey.				
SSP49	No	No						
SSP50	No	No						
SSP51	Yes	Yes		Food plant available on-site but not enough is known about the distribution and habitat preferences of this species.				
SSP52	Yes	Yes		To little is known about this species to speculate whether it is likely to occur on-site.				
SSP53	No	No		The species preferred habitat is available within the disturbance footprint.				
SSP54	No	No		No vernal pools within the study area.				
SSP55	No	No		The dry drainage does not support aquatic life.				
SSP56	No	No		The dry drainage does not support aquatic life.				
SSP57	No	No		The dry drainage does not support aquatic life.				
SSP58	No	No		The dry drainage does not support aquatic life.				
SSP59	No	No		This species prefers semi-arid, desert riparian systems with loose gravelly areas of streams, which are not present in the survey area. The drainage would not support this species.				
SSP60	No	No		The drainage is not a permanent source of water and does not contain deep pools.				
SSP61	No	No		The drainage is not a permanent source of water and does not contain deep pools.				
SSP62	No	No		Suitable habitat is not available within the survey area.				
SSP63	No	Yes		Soil moisture is a limiting factor for the distribution of this species. The culvert outfall area may provide enough soil moisture for this species.				
SSP64	No	Yes						
SSP65	Yes	Yes	1.51	This species was not observed and has a moderate potential to forage within the study area.				
SSP66	No	Yes		Low potential to occur in transition between more mesic areas associated with the drainage.				
SSP67	No	Yes		This species was not observed and has a low potential to forage within the study area.				
SSP68	No	No		No suitable habitat.				

			Special S	tatus Species (continued)
Map Key	Adequate Habitat Onsite	Adequate Habitat Size (7)	Acreage Impacted	Comments (8)
SSP69	No	No		No suitable aquatic habitat.
SSP70	Yes	Yes	2.64	This species is expected to forage and possibly nest within the survey area. Impacts to non-native trees may affect this species' perch area. Nesting on-site is not expected.
SSP71	No	No		This species preferred habitat is not available within the survey area. The species may be seen overhead transiting to suitable habitat off- site.`
SSP72	No	Yes		Suitable habitat is located southwest of the subject property and possibly northeast of the property.
SSP73	Yes	Yes		The species may be observed overhead but no reasonable potential to forage on-site.
SSP74	No	Yes		Suitable habitat is located southwest of the subject property and possibly northeast of the property.
SSP75	Yes	Yes		The consistently disturbed grassland area north and south of the site may be suitable for owls but fuel modification practices preclude use for nesting. The species is not likely to occur within the survey area.
SSP76	No	No		No suitable habitat within the survey area.
SSP77	Yes	Yes	1.10	The species may forage within the grassland portions of the survey area but would not nest.
SSP78	Yes	Yes		No suitable habitat within the survey area.
SSP79	No	No		The species may be observed overhead but no reasonable potential to forage on-site.
SSP80	Yes	Yes		Limited potential for nesting associated with the culvert outfall and species may be seen overhead but not expected to occur within the survey area.
SSP81	Yes	No		Marginally suitable habitat within the survey area is not large enough to support the species. The species is not expected.
SSP82	No	No		Limited potential for nesting associated with the culvert outfall and species may be seen overhead but not expected to occur within the survey area.
SSP83	Yes	No		Marginally suitable habitat within the survey area is not large enough to support the species. The species is not expected.
SSP84	Yes	Yes		Species may forage within the survey area but roosting is not expected.
SSP85	No	No		Species may forage within the survey area, possibly roosting in oak trees within the survey area.
SSP86	Yes	Yes	1.10	Species may forage within the survey area but roosting is not expected.
SSP87	Yes	Yes	2.64	Species may forage within the survey area, possibly roosting in trees within the survey area.
SSP88	Yes	Yes		No suitable habitat.
SSP89	No	No		Species may forage within the survey area, possibly roosting in trees within the survey area.
SSP90	Yes	Yes		No suitable habitat. The common <i>N. macrotis</i> are expected to occur within the larger study area.
SSP91	Yes	Yes		No reasonable potential to occur.

	Special Status Species (continued)						
Map Key	Adequate Habitat Onsite	Adequate Habitat Size (7)	Acreage Impacted	Comments (8)			
	Federal E						
	Federal T						
		Candidate Species					
		Species of Concern					
		Fully Protected Spe	ecies				
	California						
	California						
	California		0				
	Calitornia ureServe Rank	Species of Special	Concern				
			ully or Cubpotio	nally (atata)			
		cally Imperiled Globa criled Globally or Sub					
				lobally or Subnationally (state)			
	Rare Plant Ranl	•	or extinction G	lobally of Subfiationally (state)			
		` '	ociety/CDFW I	isted as presumed to be extinct			
				isted as presumed to be extinct sisted as rare or endangered in California and elsewhere			
	RPR 2 - California Native Plant Society/CDFW listed as rare or endangered in California but more common elsewhere RPR 3 - California Native Plant Society/CDFW listed as in need of more information.						
				isted as of limited distribution or infrequent throughout a broader area in			
	California.						
LIS	LISLocally Important Species						



Source: Valtus Imagery Services, Hexagon Imagery Program (HxIP), 2017.

us imagery services, nevagori magery Program (nuitr), 2017.

Legend						
	Survey Area (SA)					
	Subject Parcels					
	Construction Footprint					

Map Key (1)	Scientific Name (3)	Common Name	Habitat Key
SSP6	California macrophylla	round-leaved filaree	PC5, PC6
SSP7	Calochortus catalinae	Catalina mariposa lily	PC5, PC6
SSP8	Calochortus clavatus var. clavatus	club haired mariposa lily	PC5, PC6
SSP9	Calochortus clavatus var. gracilis	slender mariposa lily	PC5, PC6
SSP11	Calochortus plummerae	Plummer's mariposa lily	PC5, PC6

Special-Status	Species*
opoolul otatao	Opooloo

		•				
Map Scientific Name (3)		Common Name	Habitat Key			
SSP29	Dudleya parva	Conejo Dudleya	PF1			
SSP31 Eriogonum crocatum		Conejo Buckwheat	PC5, PC6			
SSP42 Navarretia ojaiensis		Ojai navarretia	PC4, PC5 PC6			
SSP45 Pentachaeta Iyonii		Lyon's pentachaeta	PC4, PC5 PC6			
SSP65	Aspidoscelis tigris stejnegeri	coastal whiptail	PC4, PC5, PC6			

	Map Key (1)	Scientific Name (3)	Common Name	Habitat Key
]	SSP70 Accipiter cooperii		Cooper's hawk	PC3, PC4 PC5, PC6
	SSP72	SP72 Aimophila ruficeps southern California rufous-crowned sparrow		PC5
	SSP77	Elanus leucurus	white-tailed kite	PC4
1	SSP86	SSP86 Eumops perotis californicus western mastiff bat		PC4
	SSP87	Lasiurus cinereus	hoary bat	PC3, PC4 PC6

15498 LAPEYRE COURT - INITIAL STUDY BIOLOGICAL ASSESSMENT



Nesting Bird Summary

There is potential for nesting birds protected under the federal Migratory Bird Treaty Act to nest in trees, shrubs, and dense herbaceous vegetation within SA1. The potential for nesting varies with the many species involved. It is expected that some birds would nest in areas adjacent to the grading footprint, including within the cactus scrub, sagebrush scrub, and exotic trees in any given year. Nesting is expected to be less frequent within the grading footprint, due to the generally open condition of most of the vegetation. Among special-status bird species including those included on the CDFWs Special Animals list known to occur in the area, the Allen's hummingbird, Cooper's hawk, oak titmouse, and southern California rufous-crowned sparrow may nest within 300 feet of the site.

3.3 Wildlife Movement and Connectivity

(Initial Study Checklist D)

Wildlife movement or connectivity features, or evidence thereof, <u>were found</u> within the survey area(s).

Connectivity Features

Wildlife must to be able to access habitat for water, foraging, breeding, and cover. Examples of barriers or impediments to movement, i.e., access, include housing and other urban development, roads, fencing, unsuitable habitat, or open areas with little vegetative cover. The term wildlife movement corridor is used to describe physical connections that allow wildlife to move between areas of suitable habitat in both undisturbed and fragmented landscapes, such as landscapes fragmented by urban development. Wildlife movement corridors are necessary for dispersal and migration, to ensure the mixing of genes between populations, and so wildlife can respond and adapt to environmental stress, and thus are necessary to maintain healthy ecological and evolutionary processes. Wildlife crossings are generally small, narrow areas allowing wildlife to pass through an obstacle or barrier, such as a roadway to reach another patch of habitat. These can be critical at both the local and regional level. Wildlife crossings include culverts, drainage pipes, underpasses, tunnels, and, more recently, crossings created specifically for wildlife movement over highways.

The subject property is not of any particular importance to terrestrial wildlife for movement because the site is developed (i.e., urban and built-up) and operates as an equestrian facility. Nevertheless, the site is located within a documented wildlife corridor and landscape linkage. Namely, SA1 is located within the South Coast Missing Linkages Santa Monica - Sierra Madre Connection. The Santa Monica-Sierra Madre Connection is a chain of linkages that connect the Santa Monica, Simi, Santa Susana, and Sierra Madre ranges, addressing two of the 15 landscape linkages identified as irreplaceable and imminently threatened.

Arroyo Santa Rosa runs along the southern portion of SA1 and is a likely route for movement of wildlife through the survey area, connecting the large areas of scrub and agricultural open space to the southwest of the study area (west of State Route 23) with larger patches of habitat to the north, east, and west of the survey area. The connectivity feature is mapped on Figure 6. In addition, residential development and residential roads in the surrounding area may act as barriers or impediments to movement between the natural scrub habitats to the south and west.

	Connectivity Features						
Map Key (1)	Type of Connectivi ty Feature (2)	Description (3)	Species Observed (4)	Evidence (5)	Functional Group/Species Expected (6)	Habitats Connected (7)	Comments
C1	corridor	watercourse	coyote	scat	All mammals, birds, riparian reptiles/ amphibians	Santa Susana Mountains – Tierra Rejada Valley	
C2	linkage	coastal prickly pear/coastal sagebrush scrub	coyote, cottontail	scat	All mammals, birds, reptiles, mesopredators	Santa Susana Mountains – Tierra Rejada Valley	Designated wildlife corridor

Crossing Structures

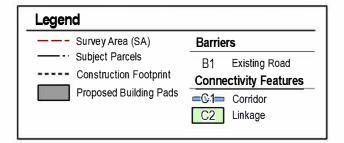
No existing roadway crossing structures were observed within or adjacent to the survey area. No proposed roadway crossings are known at this time.

Connectivity Barriers Table

Barriers					
Map Key (1)	Barrier Type (2)	Species/Functional Groups Affected (3)	Comments (4)		
B1	Existing road	Large, medium and small mammals.	A two-lane road that receives a fair amount of traffic that is likely to result in road kill.		



Source: Valtus Imagery Services, Hexagon Imagery Program (HxIP), 2017.



15498 LAPEYRE COURT - INITIAL STUDY BIOLOGICAL ASSESSMENT

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Section 4: Recommended Impact Assessment & Mitigation

4.1 Sufficiency of Biological Data

Additional information needed to make CEQA findings and develop mitigation measures:

No additional information is needed to make CEQA findings or develop mitigation measures.

Additional biology-related surveys or permits needed prior to issuance of land use permit:

No additional biology-related surveys or permits needed prior to issuance of land use permit.

4.2 Impacts and Mitigation

A. Species Project: LS; Cumulative: LS

Special-Status Species

Significance Finding – Project Impacts: Less than Significant Significance Finding – Cumulative Impacts: Less than Significant

Plants

This evaluation of impacts to special-status plants considers those species that require mandatory special consideration and/or protection pursuant to the Federal Endangered Species Act, the State Endangered Species Act, and/or CEQA. Ventura County locally sensitive species are also considered as well as CRPR 4 species if they meet criteria to be locally significant. No special-status plant species have been found at the site. As discussed in the potential for occurrence analysis for special-status plant species earlier in this document, many of the special-status species known to occur in the region are presumed to be absent from the site due to lack of suitable habitat or because the site is outside of the species known range or distribution. Although some special-status plant species are potentially occurring based on their habitat suitability, range, and distribution, due to the disturbed condition of the project footprint, no special-status plant species are expected to occur within the project footprint. Therefore, impacts to special-status plant species would be less than significant. Cumulative impacts to special-status plant species would also be less than significant.

Wildlife

Significance Finding – Project Impacts: Less than Significant Significance Finding – Cumulative Impacts: Less than Significant

No rare, threatened, endangered, or Ventura County Locally Important Wildlife Species have been observed at the project site. Two (2) special-status birds have moderate or high potential to occur while foraging within the landscape trees, sagebrush, and cactus habitats within the project site, including Cooper's hawk and southern California rufous-crowned sparrow, and therefore could occur temporarily at the project site.

Cooper's hawk and the rufous-crowned sparrow are included on CDFW's Watchlist and are fairly common throughout their range. These species and four species of special-status bats, all Species of Special Concern, may forage over the project site with moderate probability. All of these species would be capable of escaping harm during grading or other project activities, if present.

As described in the Observed and Potentially Occurring Special Status Species table, a number of additional species have low to no potential to forage over or to occur within the grading footprint, if

only temporarily, including but not limited to coast horned lizard, silvery legless lizard, California mountain kingsnake, golden eagle, loggerhead shrike, bank swallow, burrowing owl, pallid bat, and California leaf-nosed bat. Some of these species are terrestrial and slow moving and could be harmed by the project, if present. Others would only forage aerially over the site, or are otherwise capable of escaping from harm. The potential for occurrence of many of these species is primarily due to the presence of suitable habitats adjacent to or in the vicinity of the site, rather than the quality or suitability of the habitat at the project site itself.

The habitats within the impact area are not of particular importance to the survival or life cycle of any of the above-mentioned special-status species, such that the temporary loss of the habitat would have a significantly adverse effect on a population of the species. For those that could be harmed by the project, which is unlikely, the small size of the impacted area means that only a very small number of individuals would potentially be affected. With only a very small number of individuals potentially affected, a population of the species would not be significantly reduced. In addition, the species that could potentially be harmed by the project are not listed under the Federal or State Endangered Species Acts. No significant indirect impacts to special-status wildlife are expected.

The project impacts to special-status species would be less than significant, due to their low probability of occurrence and/or their capability of escaping from harm, the very small number of individuals that could potentially be affected, and because the habitats at the site are not of particular importance to their survival or life cycle. As the project would not result in significant project-level impacts to special-status wildlife are less than significant.

Nesting Birds

Significance Finding – Project Impacts: Potentially Significant Unless Mitigation Incorporated Significance Finding – Cumulative Impacts: Less than Significant

Nesting birds may potentially occur within native habitats on and adjacent to the impact area in trees, shrubs, and relatively dense herbaceous vegetation. If construction of the proposed project occurs within the nesting bird season (February 1 through August 31), the project could potentially impact nesting birds protected under the Migratory Bird Treaty Act (MBTA) and California Fish and Game Code. Nesting birds present within the grading footprint during grading activities would be directly impacted by the project. Special-status birds included on CDFW's list of special animals and species considered to be California Species of Special Concern, have potential to nest within 300 feet of the grading footprint, but would not nest within the footprint. These species, as well as many non-special-status species that may nest in the vicinity of the project site, may potentially be disturbed by noise, human presence, or grading activities associated with the project, which could result in nesting failure and the loss of eggs or nestlings.

The Federal Migratory Bird Treaty Act (MBTA) and the California of Fish and Game Code (Sections 3503, 3503.5, 3511, 3513 and 3800) protect most native birds. In addition, the federal and state endangered species acts protect some bird species listed as threatened or endangered. Project-related impacts to birds protected by these regulations would occur during the breeding season, because unlike adult birds, eggs and chicks are unable to escape impacts.

Fish and Game Code Section 3513 upholds the MBTA by prohibiting any take or possession of birds that are designated by the MBTA as migratory nongame birds except as allowed by federal rules and regulations promulgated pursuant to the MBTA. In addition, Fish and Game Codes (Sections 3503, 3503.5, 3511, and 3800) further protect nesting birds and their parts, including passerine birds, raptors, and state "fully protected" birds.

Project: PS-M; Cumulative: LS

Through implementation of mitigation measure MM-1, potential impacts to birds nesting within or adjacent to the proposed impact area would be reduced to a less than significant level. As project-level impacts to nesting birds would be mitigated by MM-1, cumulative impacts to nesting birds are also less than significant.

MM1: Nesting Birds

Purpose:

The purpose of the mitigation is to protect nesting birds from construction-related impacts.

Requirement:

If work during the nesting season cannot be avoided, prior to vegetation removal activities, the Applicant shall have a qualified biologist survey all breeding and nesting habitat within 500 feet of the development footprint for breeding and nesting birds. If no breeding/nesting birds are observed site preparation and grading activities may begin. If breeding activities and/or an active nest is located, a buffer shall be established by the biologist and this area shall not be disturbed until the nest becomes inactive, the young have fledged, the young are no longer being fed by the parents, the young have left the area and the young will no longer be impacted by the project. In the case that a special-status bird is found nesting within 500 feet of the project activities, project activities shall be stopped until the Applicant consults with the CDFW, and the USFWS (when applicable), to determine how to proceed.

Documentation:

Not Applicable. See Reporting requirement.

Timing:

Surveys shall be conducted every 3-4 days for two consecutive weeks with the last survey no more than three days prior to project implementation.

Monitoring and Reporting:

A letter documenting the results of the surveys shall be submitted to the County prior to commencement of grading for the project.

B. Ecological Communities

Sensitive Plant Communities

Significance Finding - Project Impacts: Potentially Significant Unless Mitigation Incorporated

Significance Finding – Cumulative Impacts: Less than Significant

Based on the conservation status rankings from the CDFW List of Vegetation Alliances and Associations (September 2010), one (1) of the plant communities identified within the survey area are considered rare or sensitive, namely the coast prickly pear – mixed coastal sage scrub plant alliance (G2S1.1). Significant but mitigable direct and permanent impacts to the coast prickly pear – mixed coastal sage scrub community are described below. As project impacts to the coast prickly pear – mixed coastal sage scrub plant community would be mitigated to a less than significant level, cumulative impacts to this habitat would also be less than significant.

Coast Prickly Pear - Mixed Coastal Sage Scrub Alliance

As illustrated in Figure 3 and listed in the Plant Communities Table, project grading would permanently remove a total of 0.41 acres (approximately 17,959 square feet) of the coast prickly pear – mixed coastal sage scrub plant community (G2S1.1), which is considered a natural community of special concern by the CDFW as well as a locally important plant community by the County of Ventura. Project impacts to this community would be significant, but mitigable. Implementation of MM2 would reduce potentially significant impacts to this sensitive plant community to a less-than-significant level.

Avoidance and Minimization Measures

According to the Applicant, the proposed project has been designed to reduce impacts to the sensitive coast prickly pear – mixed coastal sage scrub community to the maximum extent feasible. The project's development footprint would impact approximately 0.15 acres of prickly pear scrub but fuel modification would increase the impacted area to roughly 0.41 acres. Fuel modification requirements are ultimately at the discretion of the Fire Department. Future fuel modification requirements may reduce the proposed impact area.

MM2: Coast Prickly Pear - Mixed Coastal Sage Scrub Restoration

Purpose:

To compensate for impacts to 0.41 acres of coast prickly pear – mixed coastal sage scrub.

Requirement:

The loss of a total of 0.41 acres of coast prickly pear – mixed coastal sage scrub shall be compensated for at a 2:1 ratio by on-site restoration in an area to be preserved as permanent open space. This shall be accomplished by the restoration of graded coast prickly pear – mixed coastal sage scrub habitats to a coast prickly pear – mixed coastal sage scrub plant community, as well as restoration of additional areas on-site where suitable conditions exist to support a viable prickly pear – coastal sage scrub plant community. The weedy sagebrush scrub habitats in the western portion of the property may be a suitable opportunity for on-site restoration of 0.10 acre of coast prickly pear – mixed coastal sage scrub. Alternatively, compensation for impacts to 0.41 acres of coast prickly pear – coastal sage scrub may be accomplished by on-site preservation of in-kind habitat at a 2:1 ratio, a combination of on-site restoration and on-site preservation of in-kind habitat at a 2:1 ratio, or by a contribution to an in-lieu fee program approved by the County of Ventura. The proposed locations of both the potential on-site mitigation area and preservation areas are provided on Figure 7.

Documentation:

A Mitigation and Monitoring Plan shall be developed by a qualified biologist, restoration ecologist, or resource specialist, and approved by the County of Ventura prior to issuance of the grading permit for the Project. In broad terms, the plan shall at a minimum include:

- Description of the project/impact and mitigation sites
- Specific objectives
- Success criteria
- Plant palette
- Implementation plan
- Maintenance activities
- Monitoring plan
- Contingency measures

The plant palette shall include in addition to coast prickly pear (*Opuntia littoralis*) a diversity of appropriate native species that occur in coastal sagebrush scrub at the site and in the surrounding area.

The performance standards for the Mitigation and Monitoring Plan shall be at a minimum the following:

- Within five years after introducing the native plants to the mitigation site, the acreage of restored scrub habitat shall be no less than 2x the acreage impacted by project construction and fuel modification
- If the loss of coast prickly pear coastal sage scrub is to be mitigated by a contribution of an in-lieu fee, the applicant shall provide evidence of payment of the in-lieu fee prior to issuance of the grading permit. The fee shall be based on the cost per acre to restore or create in-kind habitat and the acreage of coast prickly pear coastal sage scrub impacted. In-lieu fees shall be used for the restoration of in-kind habitat.

Timing:

The restoration project shall be initiated prior to development of the project, and shall be implemented over a five-year period.

Monitoring and Reporting:

The restoration project shall incorporate an iterative process of annual monitoring and evaluation of progress, and allow for adjustments to the restoration plan, as necessary, to achieve desired outcomes and meet success criteria. Annual reports discussing the implementation, monitoring, and management of the restoration project shall be submitted to the County of Ventura. Five years after project start, a final report shall be submitted to the County of Ventura, which shall at a minimum discuss the implementation, monitoring, and management of the restoration project over the five-year period, and indicate whether the restoration project has been successful based on established success criteria. The annual reports and the final report shall include as-built plans submitted as an appendix to the report. The project shall be extended if success criteria have not been met at the end of the five-year period to the satisfaction of the County of Ventura.

Mapped Information:

It is feasible for mitigation to occur on-site, as illustrated in Figure 7. Potential on-site restoration of 0.10 acres and preservation of an additional 0.72 acres would compensate for the loss of 0.41 acres of coast prickly pear habitat. Actual areas to be restored and preserved will be determined during preparation of the site specific Mitigation and Monitoring Plan.

Waters and Wetlands

As designed, the proposed project would not impact Arroyo Santa Rosa (W1). Nonetheless, runoff from the project site has the potential to impact sensitive wetland and riparian habitats, if the runoff contains excess sediment or nutrients (fertilizers), or toxic pesticides or herbicides. Potential impacts to wetlands and riparian habitats are significant, but mitigable. The potential for impacts to sensitive wetland and riparian habitats would be reduced to a less than significant level with proper implementation of a Storm Water Pollution Prevention Plan (SWPPP) and erosion control plan, which would be required by the County as a condition of approval to obtain a grading permit, as well as implementation of Avoidance and Minimization Measures. As potential project impacts to nearby waters, wetlands, and riparian habitats would be mitigated to a less than significant level, cumulative impacts to these habitats would also be less than significant.

Avoidance and Minimization Measures

All pesticides, herbicides, or fertilizers used at the project site shall be those designated for use near aquatic and wetland habitats, and shall be applied with techniques that avoid over-spraying and control application to avoid excessive concentrations.

C. Habitat Connectivity (migration corridors)

Project: LS; Cumulative: LS

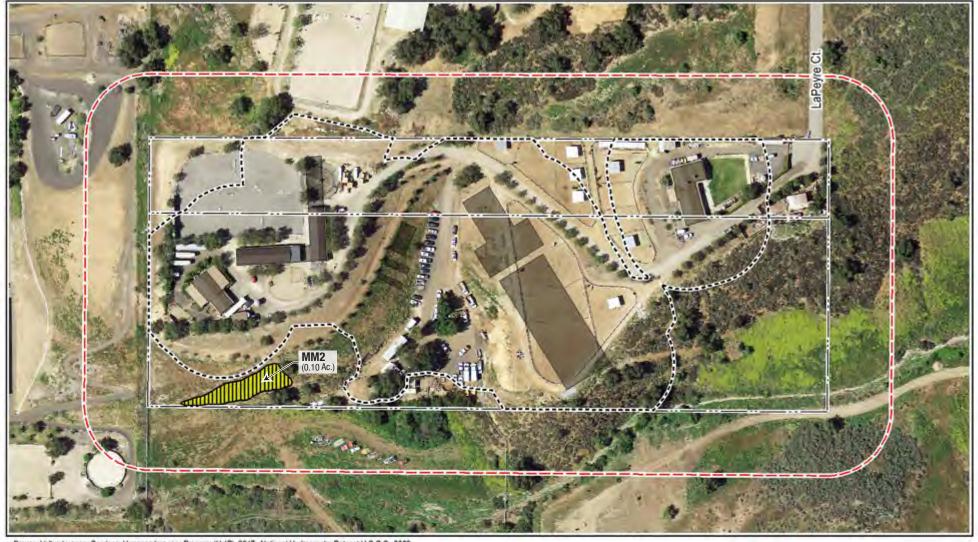
Significance Finding – Project Impacts: Less than Significant

Significance Finding – Cumulative Impacts: Less than Significant

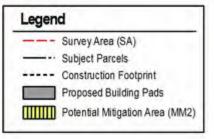
The potential importance of the project site to wildlife movement was evaluated both in the field and by reviewing recent aerial photographs of the site and the surrounding area. The project site is located in the Santa Monica — Sierra Madre Connection, a documented wildlife movement corridor that connects the large areas of habitat in the Santa Monica Mountains to the south to the Sierra Madres to the north. While the site itself does not provide suitable coverage for wildlife movement, portions of the study area, specifically areas southwest and northeast of the parcel do provide suitable vegetated coverage and foraging opportunity. A diversity of wildlife species could potentially move along Arroyo Santa Rosa and sagebrush habitat east of the parcel, as it contains patchy vegetative cover and suitable habitat for many species.

The anticipated development of the equestrian facility would permanently remove vegetation amounting to a combined 7.33 acres of coastal prickly pear - mixed coastal sage scrub, non-native habitat (grasslands and trees), and cleared or urban areas, but it would not directly remove habitat along the drainage.

Construction of the project would not impede wildlife movement and use of the private roadway would continue as currently operating and would not result in new sources of night lighting, noise and human presence that could deter wildlife movement. The project's indirect impacts on wildlife movement would be less than significant. Because the project's impacts would be reduced to a less-than-significant level, cumulative impacts would be less than significant.



Source: Valtus Imagery Services, Hexagon Imagery Program (HxIP), 2017. National Hydrography Dataset U.S.G.S., 2008.



15498 LAPEYRE COURT - INITIAL STUDY BIOLOGICAL ASSESSMENT



Section 5: Photos

Photos

Location SA1 Map Key

View Direction

North

Description

Cleared area proposed for development.



Location SA1 Map Key P2

View Direction

Southwest

Description

View of nonnative grasses, exotic trees, and prickly pear scrub southwest of the proposed development area.



Location SA1 Map Key P3

View Direction

South

Description

View of southern portion of SA1 on adjacent parcel. Non-native grasses, exotic trees, coastal sage scrub vegetation.



Location SA1 Map Key

View Direction

North

Description

View of nonnative grasses and exotic trees within the western portion of the development footprint.



Location SA1 Map Key

View Direction

Northeast

Description

View of the development footprint illustrating the existing cleared lands and horse corrals.



Location SA1

Map Key P6

View Direction

East

Description

View of nonnative grasses and exotic trees within the western portion of the development footprint as well as the existing drainage pad area.



Location SA1 Map Key P7 View Direction

Description
View illustrating
the proposed
development
area.

East



SA1
Map Key
P8

View Direction

North

Description

View of existing developed areas within the northwest portion of SA1.



Location SA1 Map Key

View Direction

Northeast

Description

View of exotic trees and coastal prickly pear scrub in the northern portion of SA1.



Location

SA1

Map Key

View Direction

South

Description

View of cleared areas, non-native grasses, and exotic trees within the development footprint.



Location SA1 Map Key

View Direction

South

Description

View of cleared lands within the southern portion of the development footprint.



Location

SA1

Map Key P12

View Direction

Northeast

Description

View of corrals within the proposed development footprint.



Location SA1 Map Key

P13 View Direction

South

Description

View of southern portion of SA1 on adjacent parcel. Non-native grasses, exotic trees, coastal sage and coastal prickly pear scrub vegetation.



Location SA1

Map Key P14

View Direction

Southeast

Description

View of nonnative grasses and exotic trees (foreground) and black mustard fields (background) within the southeast portion of SA1.



Location SA1 Map Key P15

View Direction

Northeast

Description

View of nonnative grasses, exotic trees, and a patch of coastal prickly pear scrub within the northeast portion of SA1.



Location SA1

Map Key P16

View Direction

Southwest

Description

View of noncoastal sage scrub and prickly pear scrub in western portion of the survey area.



Location

SA1 **Map Key** P17

View Direction

Northwest

Description

View of southeastern portion of SA1 illustrating the prickly pear scrub, mustard field, and exotic trees on the slope southwest of the proposed development (background) and Arroyo Santa Rosa (foreground).



Location

SA1

Map Key P18

View Direction

North

Description

View of Arroyo Santa Rosa in the southern portion of SA1, south of the subject property.



APPENDIX ONE

Summary of Biological Resource Regulations

The Ventura County Planning Division, as "lead agency" under CEQA for issuing discretionary land use permits, uses the relationship of a potential environmental effect from a proposed project to an established regulatory standard to determine the significance of the potential environmental effect. This Appendix summarizes important biological resource regulations that are used by the Division's biologists (consultants and staff) in making CEQA findings of significance:

Sensitive Status Species Regulations
Nesting Bird Regulations
Plant Community Regulations
Tree Regulations
Waters and Wetlands Regulations
Coastal Habitat Regulations
Wildlife Migration Regulations
Locally Important Species/Communities Regulations

Sensitive Status Species Regulations

Federally Protected Species

Ventura County is home to 29 federally listed endangered and threatened plant and wildlife species. The U.S. Fish and Wildlife Service (USFWS) regulates the protection of federally listed endangered and threatened plant and wildlife species.

FE (Federally Endangered): A species that is in danger of extinction throughout all or a significant portion of its range.

FT (Federally Threatened): A species that is likely to become endangered in the foreseeable future.

FC (Federal Candidate): A species for which USFWS has sufficient information on its biological status and threats to propose it as endangered or threatened under the Endangered Species Act (ESA), but for which development of a proposed listing regulation is precluded by other higher priority listing activities.

FSC (Federal Species of Concern): A species under consideration for listing, for which there is insufficient information to support listing at this time. These species may or may not be listed in the future, and many of these species were formerly recognized as "Category-2 Candidate" species.

The USFWS requires permits for the "take" of any federally listed endangered or threatened species. "Take" is defined by the USFWS as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct; may include significant habitat modification or degradation if it kills or injures wildlife by significantly impairing essential behavioral patterns including breeding, feeding, or sheltering."

The Endangered Species Act (ESA) does not provide statutory protection for candidate species or species of concern, but USFWS encourages conservation efforts to protect these species. USFWS can set up voluntary Candidate Conservation Agreements and Assurances, which provide non-Federal landowners (public and private) with the assurance that if they implement various conservation activities to protect a given candidate species, they will not be subject to additional restrictions if the species becomes listed under the ESA.

State Protected Species

The California Department of Fish and Game (CDFG) regulates the protection of endangered, threatened, and fully protected species listed under the California Endangered Species Act. Some species may be jointly listed under the State and Federal Endangered Species Acts.

SE (California Endangered): A native species or subspecies which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease.

ST (California Threatened): A native species or subspecies that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts required by this chapter. Any animal determined by the commission as "rare" on or before January 1, 1985, is a "threatened species."

SFP (California Fully Protected Species): This designation originated from the State's initial effort in the 1960's to identify and provide additional protection to those animals that were rare or faced possible extinction. Lists were created for fish, mammals, amphibians, reptiles, and birds. Most fully protected species have also been listed as threatened or endangered species under the more recent endangered species laws and regulations.

SR (California Rare): A species, subspecies, or variety of plant is rare under the Native Plant Protection Act when, although not presently threatened with extinction, it is in such small numbers throughout its range that it may become endangered if its present environment worsens. Animals are no longer listed as rare; all animals listed as rare before 1985 have been listed as threatened.

SSC (California Species of Special Concern): Animals that are not listed under the California Endangered Species Act, but which nonetheless 1) are declining at a rate that could result in listing, or 2) historically occurred in low numbers and known threats to their persistence currently exist.

The CDFG requires permits for the "take" of any State-listed endangered or threatened species. Section 2080 of the Fish and Game Code prohibits "take" of any species that the California Fish and Game Commission determines to be endangered or threatened. "Take" is defined in Section 86 of the Fish and Game Code as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill."

The California Native Plant Protection Act protects endangered and rare plants of California. Section 1908, which regulates plants listed under this act, states: "no person shall import into this state, or take, possess, or sell within this state, except as incident to the possession or sale of the real property on which the plant is growing, any native plant, or any part or product thereof, that the commission determines to be an endangered native plant or rare native plant, except as otherwise provided in this chapter."

Unlike endangered, threatened, and rare species, for which a take permit may be issued, California Fully Protected species may not be taken or possessed at any time and no licenses or permits may be issued for their take except for collecting these species for necessary scientific research and relocation of the bird species for the protection of livestock.

The California Endangered Species Act does not provide statutory protection for California species of special concern, but they should be considered during the environmental review process.

California Rare Plant Ranks (RPR)

Plants with 1A, 1B, 2 or 4 should always be addressed in CEQA documents. Plants with a RPR 3 do not need to be addressed in CEQA documents unless there is sufficient information to demonstrate that a RPR 3 plant meets the criteria to be listed as a RPR 1, 2, or 4.

RPR 1A: Plants presumed to be extinct because they have not been seen or collected in the wild in California for many years. This list includes plants that are both presumed extinct in California, as well as those plants which are presumed extirpated in California. A plant is extinct in California if it no longer occurs in or outside of California. A plant that is extirpated from California has been eliminated from California, but may still occur elsewhere in its range.

RPR 1B: Plants that are rare throughout their range with the majority of them endemic to California. Most of the plants of List 1B have declined significantly over the last century.

RPR 2: Plants that are rare throughout their range in California, but are more common beyond the boundaries of California. List 2 recognizes the importance of protecting the geographic range of widespread species.

Plants identified as RPR 1A, 1B, and 2 meet the definitions of Sec. 1901, Chapter 10 (Native Plant Protection Act) or Secs. 2062 and 2067 (California Endangered Species Act) of the California Department of Fish and Game Code, and are eligible for state listing.

RPR 3: A review list for plants for which there is inadequate information to assign them to one of the other lists or to reject them.

RPR 4: A watch list for plants that are of limited distribution in California.

Global and Subnational Rankings

Though not associated directly with legal protections, species have been given a conservation status rank by NatureServe, an international non-profit conservation organization that is the leading source for information about rare and endangered species and threatened ecosystems. The Ventura County Planning Division considers the following ranks as sensitive for the purposes of CEQA impact assessment (G = Global, S = Subnational or State):

G1 or S1 - Critically Imperiled

G2 or S2 – Imperiled

G3 or S3 - Vulnerable to extirpation or extinction

Locally Important Species

Locally important species' protections are addressed below under "Locally Important Species/Communities Regulations."

For lists of some of the species in Ventura County that are protected by the above regulations, go to http://www.ventura.org/rma/planning/ceqa/bio_resource_review.html.

Migratory Bird Regulations

The Federal Migratory Bird Treaty Act (MBTA) and the California Department of Fish and Game (CDFG) Code (3503, 3503.5, 3511, 3513 and 3800) protect most native birds. In addition, the federal and state endangered species acts protect some bird species listed as threatened or endangered. Project-related impacts to birds protected by these regulations would normally occur during the breeding season, because unlike adult birds, eggs and chicks are unable to escape impacts.

The MBTA implements various treaties and conventions between the U.S. and Canada, Japan, Mexico, and Russia for the protection of migratory birds, which occur in two of these countries over the course of one year. The Act maintains that it is unlawful to pursue, hunt, take, capture or kill; attempt to take, capture or kill; possess, offer to or sell, barter, purchase, deliver or cause to be shipped, exported, imported, transported, carried or received any migratory bird, part, nest, egg or product, manufactured or not. Bird species protected under the provisions of the MBTA are identified by the List of Migratory Birds (Title 50 of the Code of Federal Regulations, Section 10.13 as updated by the 1983 American Ornithologists' Union (AOU) Checklist and published supplements through 1995 by the USFWS).

CDFG Code 3513 upholds the MBTA by prohibiting any take or possession of birds that are designated by the MBTA as migratory nongame birds except as allowed by federal rules and regulations promulgated pursuant to the MBTA. In addition, there are CDFG Codes (3503, 3503.5, 3511, and 3800) which further protect nesting birds and their parts, including passerine birds, raptors, and state "fully protected" birds.

NOTE: These regulations protect almost all *native nesting birds*, not just sensitive status birds.

Plant Community Regulations

Plant communities are provided legal protection when they provide habitat for protected species or when the community is in the coastal zone and qualifies as environmentally sensitive habitat area (ESHA).

Global and Subnational Rankings

Though not associated directly with legal protections, plant communities have been given a conservation status rank by NatureServe, an international non-profit conservation organization that is the leading source for information about rare and endangered species and threatened ecosystems. The Ventura County Planning Division considers the following ranks as sensitive for the purposes of CEQA impact assessment (G = Global, S = Subnational or State):

G1 or S1 - Critically Imperiled

G2 or S2 - Imperiled

G3 or S3 - Vulnerable to extirpation or extinction

CDFG Rare

Rare natural communities are those communities that are of highly limited distribution. These communities may or may not contain rare, threatened, or endangered species. Though the Native Plant Protection Act and the California Endangered Species Act provide no legal protection to plant communities, CDFG considers plant communities that are ranked G1-G3 or S1-S3 (as defined above) to be rare or sensitive, and therefore these plant communities should be addressed during CEQA review.

Environmentally Sensitive Habitat Areas

The Coastal Act specifically calls for protection of "environmentally sensitive habitat areas" or ESHA, which it defines as: "Any area in which plant or animal life or their habitats are either rare or especially valuable because of their special nature or role in an ecosystem and which could be easily disturbed or degraded by human activities and developments" (Section 30107.5).

ESHA has been specifically defined in the Santa Monica Mountains. For ESHA identification in this location, the Coastal Commission, the agency charged with administering the Coastal Act, has described the habitats that are considered ESHA. A memo from a Coastal Commission biologist that describes ESHA in the Santa Monica Mountains can be found at: http://www.ventura.org/rma/planning/ceqa/bio resource review.html.

Locally Important Communities

The Ventura County Initial Study Assessment Guidelines defines a locally important community as one that is considered by qualified biologists to be a quality example characteristic of or unique to the County or region, with this determination being made on a case-by-case basis. The County has not developed a list of locally important communities, but has deemed oak woodlands to be a locally important community through the County's *Oak Woodland Management Plan*.

Tree Regulations

Selected trees are protected by the Ventura County Tree Protection Ordinance, found in Section 8107-25 of the Ventura County Non-Coastal Zoning Ordinance. This ordinance, which applies in the unincorporated areas of the County outside the coastal zone, regulates—through a tree permit program—the removal, trimming of branches or roots, or grading or excavating within the root zone of a "protected tree." Individual trees are the focus of the ordinance, while oak woodlands are additionally protected as "locally important communities."

The ordinance allows removal of five protected trees (only three of which can be oaks or sycamores; none of which can be heritage or historical trees) through a ministerial permit process. Removal of more/other than this may trigger a discretionary tree permit.

If a proposed project cannot avoid impacts to protected trees, mitigation of these impacts (such as replacement of lost trees) is addressed through the tree permit process—unless the impacts may affect biological resources beyond the tree itself, such as to sensitive status species that may be using the tree, nesting birds, the tree's role as part of a larger habitat, etc. These secondary impacts have not been addressed through the tree permit program and must be addressed by the biologist in the biological assessment in accordance with the California Environmental Quality Act (CEQA).

A tree permit does not, however, substitute as mitigation for impacts to oak woodlands. The Public Resources Code requires that when a county is determining the applicability of CEQA to a project, it must determine whether that

project "may result in a conversion of oak woodlands that will have a significant effect on the environment." If such effects (either individual impacts or cumulative) are identified, the law requires that they be mitigated. Acceptable mitigation measures include, but are not limited to, conservation of other oak woodlands through the use of conservation easements and planting replacement trees, which must be maintained for seven years. In addition, only 50% of the mitigation required for significant impacts to oak woodlands may be fulfilled by replanting oak trees.

The following trees are protected in the specified zones. Girth is measured at 4.5 feet from the midpoint between the uphill and downhill side of the root crown.

PROTECTED TREES						
Common Name/Botanical Name (Genus species)	Girth Standard (Circumference)	Applicable Zones				
		All Base Zones	SRP1			
Alder (Alnus all species)	9.5 in.		Χ			
Ash (Fraxinus all species)	9.5 in.		X			
Bay (Umbellularia californica)	9.5 in.		X			
Cottonwood (Populus all species)	9.5 in.		X			
Elderberry (Sambucus all species)	9.5 in.		Х			
Big Cone Douglas Fir (Pseudotsuga macrocarpa)	9.5 in.		Х			
White Fir (Abies concolor)	9.5 in.		X			
Juniper (Juniperus californica)	9.5 in.		X			
Maple (Acer macrophyllum)	9.5 in.		Х			
Oak (Single) (Quercus all species)	9.5 in.	Х	X			
Oak (Multi) (Quercus all species)	6.25 in.	Х	X			
Pine (Pinus all species)	9.5 in.		X			
Sycamore (Platanus all species)	9.5 in.	X	Х			
Walnut (Juglans all species)	9.5 in.		X			
Historical Tree ³ (any species)	(any size)	Х	X			
Heritage Tree ⁴ (any species)	90.0 in.	X	X			

X Indicates the zones in which the subject trees are considered protected trees.

- 1. SRP Scenic Resource Protection Overlay Zone
- 2. SHP Scenic Highway Protection Overlay Zone
- 3. Any tree or group of trees identified by the County or a city as a landmark, or identified on the Federal or California Historic Resources Inventory to be of historical or cultural significance, or identified as contributing to a site or structure of historical or cultural significance.
- 4. Any species of tree with a single trunk of 90 or more inches in girth or with multiple trunks, two of which collectively measure 72 inches in girth or more. Species with naturally thin trunks when full grown or naturally large trunks at an early age, or trees with unnaturally enlarged trunks due to injury or disease must be at least 60 feet tall or 75 years old.

Waters and Wetlands Regulations

Numerous agencies control what can and cannot be done in or around streams and wetlands. If a project affects an area where water flows, ponds or is present even part of the year, it is likely to be regulated by one or more agencies. Many wetland or stream projects will require three main permits or approvals (in addition to CEQA compliance). These are:

- 404 Permit (U.S. Army Corps of Engineers)
- 401 Certification (California Regional Water Quality Control Board)
- Streambed Alteration Agreement (California Department of Fish and Game)

For a more thorough explanation of wetland permitting, see the Ventura County's "Wetland Project Permitting Guide" at http://www.ventura.org/rma/planning/ceqa/bio_resource_review.html.

404 Permit (U.S. Army Corps of Engineers)

Most projects that involve streams or wetlands will require a 404 Permit from the U.S. Army Corps of Engineers (USACE). Section 404 of the federal Clean Water Act is the primary federal program regulating activities in wetlands. The Act regulates areas defined as "waters of the United States." This includes streams, wetlands in or next to streams, areas influenced by tides, navigable waters, lakes, reservoirs and other impoundments. For nontidal waters, USACE jurisdiction extends up to what is referred to as the "ordinary high water mark" as well as to the landward limits of adjacent Corps-defined wetlands, if present. The ordinary high water mark is an identifiable natural line visible on the bank of a stream or water body that shows the upper limit of typical stream flow or water level. The mark is made from the action of water on the streambank over the course of years.

Permit Triggers: A USACE 404 Permit is triggered by moving (discharging) or placing materials—such as dirt, rock, geotextiles, concrete or culverts—into or within USACE jurisdictional areas. This type of activity is also referred to as a "discharge of dredged or fill material."

401 Certification (Regional Water Quality Control Board)

If your project requires a USACE 404 Permit, then you will also need a Regional Water Quality Control Board (RWQCB) 401 Certification. The federal Clean Water Act, in Section 401, specifies that states must certify that any activity subject to a permit issued by a federal agency, such as the USACE, meets all state water quality standards. In California, the state and regional water boards are responsible for certification of activities subject to USACE Section 404 Permits.

Permit Trigger: A RWQCB 401 Certification is triggered whenever a USACE 404 Permit is required, or whenever an activity could cause a discharge of dredged or fill material into waters of the U.S. or wetlands.

Streambed Alteration Agreement (California Department of Fish and Game)

If your project includes alteration of the bed, banks or channel of a stream, or the adjacent riparian vegetation, then you may need a Streambed Alteration Agreement from the California Department of Fish and Game (CDFG). The California Fish and Game Code, Sections 1600-1616, regulates activities that would alter the flow, bed, banks, channel or associated riparian areas of a river, stream or lake. The law requires any person, state or local governmental agency or public utility to notify CDFG before beginning an activity that will substantially modify a river, stream or lake.

Permit Triggers: A Streambed Alteration Agreement (SAA) is triggered when a project involves altering a stream or disturbing riparian vegetation, including any of the following activities:

- Substantially obstructing or diverting the natural flow of a river, stream or lake
- Using any material from these areas
- Disposing of waste where it can move into these areas

Some projects that involve routine maintenance may qualify for long-term maintenance agreements from CDFG. Discuss this option with CDFG staff.

Ventura County General Plan

The Ventura County General Plan contains policies which also strongly protect wetland habitats.

Biological Resources Policy 1.5.2-3 states:

Discretionary development that is proposed to be located within 300 feet of a marsh, small wash, intermittent lake, intermittent stream, spring, or perennial stream (as identified on the latest USGS 7½ minute quad map), shall be evaluated by a County approved biologist for potential impacts on wetland habitats. Discretionary development that would have a significant impact on significant wetland habitats shall be prohibited, unless mitigation measures are adopted that would reduce the impact to a less than significant level; or for lands designated "Urban" or "Existing Community", a statement of overriding considerations is adopted by the decision-making body.

Biological Resources Policy 1.5.2-4 states:

Discretionary development shall be sited a minimum of 100 feet from significant wetland habitats to mitigate the potential impacts on said habitats. Buffer areas may be increased or decreased upon evaluation and recommendation by a qualified biologist and approval by the decision-making body. Factors to be used in determining adjustment of the 100 foot buffer include soil type, slope stability, drainage patterns, presence or absence of endangered, threatened or rare plants or animals, and compatibility of the proposed development with the wildlife use of the wetland habitat area. The requirement of a buffer (setback) shall not preclude the use of replacement as a mitigation when there is no other feasible alternative to allowing a permitted use, and if the replacement results in no net loss of wetland habitat. Such replacement shall be "in kind" (i.e. same type and acreage), and provide wetland habitat of comparable biological value. On-site replacement shall be preferred wherever possible. The replacement plan shall be developed in consultation with California Department of Fish and Game.

Coastal Habitat Regulations

Ventura County's Coastal Area Plan and the Coastal Zoning Ordinance, which constitute the "Local Coastal Program" (LCP) for the unincorporated portions of Ventura County's coastal zone, ensure that the County's land use plans, zoning ordinances, zoning maps, and implemented actions meet the requirements of, and implement the provisions and polices of California's 1976 Coastal Act at the local level.

Environmentally Sensitive Habitats

The Coastal Act specifically calls for protection of "environmentally sensitive habitat areas" or ESHA, which it defines as: "Any area in which plant or animal life or their habitats are either rare or especially valuable because of their special nature or role in an ecosystem and which could be easily disturbed or degraded by human activities and developments" (Section 30107.5).

Section 30240 of the Coastal Act states:

- (a) "Environmentally sensitive habitat areas shall be protected against any significant disruption of habitat values, and only uses dependent on such resources shall be allowed within such areas."
- (b) "Development in areas adjacent to environmentally sensitive habitat areas and parks and recreation areas shall be sited and designed to prevent impacts which would significantly degrade such areas, and shall be compatible with the continuance of such habitat areas."

There are three important elements to the definition of ESHA. First, a geographic area can be designated ESHA either because of the presence of individual species of plants or animals or because of the presence of a particular habitat. Second, in order for an area to be designated as ESHA, the species or habitat must be either rare or it must be especially valuable. Finally, the area must be easily disturbed or degraded by human activities.

Protection of ESHA is of particular concern in the southeastern part of Ventura County, where the coastal zone extends inland (~5 miles) to include an extensive area of the Santa Monica Mountains. For ESHA identification in this location, the Coastal Commission, the agency charged with administering the Coastal Act, has described the habitats that are considered ESHA. A memo from a Coastal Commission biologist that describes ESHA in the Santa Monica Mountains can be found at: http://www.ventura.org/rma/planning/ceqa/bio_resource_review.html.

The County's Local Coastal Program outlines other specific protections to environmentally sensitive habitats in the Coastal Zone, such as to wetlands, riparian habitats, dunes, and upland habitats within the Santa Monica Mountains (M Overlay Zone). Protections in some cases are different for different segments of the coastal zone.

Copies of the Coastal Area Plan and the Coastal Zoning Ordinance can be found at: http://www.ventura.org/rma/planning/Programs/local.html.

Wildlife Migration Regulations

The Ventura County General Plan specifically includes wildlife migration corridors as an element of the region's significant biological resources. In addition, protecting habitat connectivity is critical to the success of special status species and other biological resource protections. Potential project impacts to wildlife migration are analyzed by biologists on a case-by-case basis. The issue involves both a macro-scale analysis—where routes used by large carnivores connecting very large core habitat areas may be impacted—as well as a micro-scale analysis—where a road or stream crossing may impact localized movement by many different animals.

Locally Important Species/Communities Regulations

Locally important species/communities are considered to be significant biological resources in the Ventura County General Plan.

Locally Important Species

The Ventura County General Plan defines a Locally Important Species as a plant or animal species that is not an endangered, threatened, or rare species, but is considered by qualified biologists to be a quality example or unique species within the County and region. The following criteria further define what local qualified biologists have determined to be Locally Important Species:

Locally Important Animal Species Criteria

Taxa for which habitat in Ventura County is crucial for their existence either globally or in Ventura County. This includes:

- Taxa for which the population(s) in Ventura County represents 10 percent or more of the known extant global distribution; or
- Taxa for which there are five or fewer *element occurrences*, or less than 1,000 individuals, or less than 2,000 acres of habitat that sustains populations in Ventura County; or,
- Native taxa that are generally declining throughout their range or are in danger of extirpation in Ventura County.

Locally Important Plant Species Criteria

• Taxa that are declining throughout the extent of their range AND have five (5) or fewer element occurrences in Ventura County.

The County maintains a list of locally important species, which can be found on the Planning Division website at: http://www.ventura.org/rma/planning/ceqa/bio_resource_review.html. This list should not be considered comprehensive. Any species that meets the criteria qualifies as locally important, whether or not it is included on this list.

Locally Important Communities

The Ventura County Initial Study Assessment Guidelines defines a locally important community as one that is considered by qualified biologists to be a quality example characteristic of or unique to the County or region, with this determination being made on a case-by-case basis. The County has not developed a list of locally important communities. Oak woodlands have however been deemed by the Ventura County Board of Supervisors to be a locally important community.

The state passed legislation in 2001, the Oak Woodland Conservation Act, to emphasize that oak woodlands are a vital and threatened statewide resource. In response, the County of Ventura prepared and adopted an Oak Woodland Management Plan that recommended, among other things, amending the County's Initial Study Assessment Guidelines to include an explicit reference to oak woodlands as part of its definition of locally important communities. The Board of Supervisors approved this management plan and its recommendations.

APPENDIX TWO Observed Species Tables

Species Observed						
Scientific Name (Species or Genus)	Common Name	Native (1)	Notes (2)			
PLANTS						
Amaranthus albus	tumbleweed	No				
Artemisia californica	California sagebrush	Yes				
Baccharis pilularis	coyote brush	Yes				
Brassica nigra	black mustard	No				
Bromus diandrus	ripgut grass	No				
Bromus hordeaceus	soft-chess	No				
Bromus madritensis ssp. rubens	red brome	No				
Carduus pycnocephalus	Italian thistle	No				
Carpobrotus edulis	iceplant	No				
Centauria melitensis	tocalote	No				
Cryptantha intermedia	common cryptantha	Yes				
Cylindropuntia prolifera	coastal cholla	Yes				
Datura wrightii	Jimsonweed	Yes				
Encelia californica	Bush sunflower	Yes				
Erigeron canadensis	Canada horseweed	Yes				
Eriogonum fasciculatum	California buckwheat	Yes				
Erodium cicutarium	red-stemmed filaree	No				
Eucalyptus globulus	blue gum	No				
Festuca myuros	rattail sixweeks grass	No				
Hesperoyucca whipplei	chaparral yucca	Yes				
Heteromeles arbutifolia	toyon	Yes				
Hirschfeldia incana	hoary mustard	No				
Juniperus sp.	juniper	No	cultivated			
Lamarckia aurea	goldentop	No				
Lepidium nitidum	peppergrass	Yes				
Limonium perezii	Perez's sealavender	No				
Lonicera subspicata var. denudata	chaparral honeysuckle	Yes				
Malacothrix saxatilis var. tenuifolia	cliff aster	Yes				
Marrubium vulgare	white horehound	No				
Mirabilis laevis var. crassifolia	California four o'clock	Yes				
Nicotiana glauca	tree tobacco	No				
Olea europaea	olive	No				
Opuntia littoralis	coast prickly pear	Yes				
Peritoma arborea	bladderpod	Yes				
Ricinus communis	castor bean	No				
Salsola australis	Russian-thistle	No				
Salvia mellifera	black sage	Yes				
Sambucus nigra ssp. caerulea	blue elderberry	Yes				
Schinus molle	Peruvian peppertree	No				
Schismus barbatus	Mediterranean grass	No				
Vitis vinifera	cultivated grape	No				
Xanthium strumarium	rough cockleburr	Yes				

ANIMALS			
Common Name Scientific Name (Species or Genus)			
Reptiles			
Great Basin (western) fence lizard	Sceloporus occidentalis longipes		
Birds			
American crow	Corvus brachyrhynchos		
Anna's hummingbird	Calypte anna		
black phoebe	Sayornis nigricans		

Bewick's wren	Thryomanes bewickii
Brewer's blackbird	Euphagus cyanocephalus
brown-headed cowbird	Molothrus ater
California scrub-jay [formerly western scrub-jay]	Apehelocoma californica
California towhee	Melozone crissalis
common raven	Corvus corax
dark-eyed junco	Junco hyemalis
European starling	Sturnus vulgaris
house finch	Carpodacus mexicanus
house wren	Troglodytes aedon
mourning dove	Zenaida macroura
northern mockingbird	Mimus polyglottos
rock pigeon	Columba livia
spotted towhee	Pipilo maculatus
turkey vulture	Cathartes aura
Mammals	
California ground squirrel	Spermophilus beecheyi
coyote	Canis latrans
desert cottontail	Sylvilagus audubonii
domestic dog	Canis lupus familiaris
domestic horse	Equus caballus
domestic sheep	Ovis aries

Attachment A

List of California Natural Diversity Database (CNDDB)-tracked species with recorded occurrences within at least a 10-mile radius of the project site.



California Department of Fish and Wildlife California Natural Diversity Database



Query Criteria:

Quad IS (Fillmore (3411848) OR Piru (3411847) OR Val Verde (3411846) OR Moorpark (3411838) OR Simi (3411837) OR Santa Susana (3411836) OR Newbury Park (3411828) OR Calabasas (3411826))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Accipiter cooperii	ABNKC12040	None None	None Status	G5 G5	State Rank S4	WL SSC OF FP
Cooper's hawk	ADINING 12040	None	NOTIC	G 5	04	VVL
Agelaius tricolor	ABPBXB0020	None	Candidate	G2G3	S1S2	SSC
tricolored blackbird	, 12. 2, 120020		Endangered	0200	0.02	
Aimophila ruficeps canescens	ABPBX91091	None	None	G5T3	S3	WL
southern California rufous-crowned sparrow						
Anaxyrus californicus	AAABB01230	Endangered	None	G2G3	S2S3	SSC
arroyo toad						
Anniella sp. 1	ARACC01070	None	None	G3G4	S3S4	SSC
California legless lizard						
Antrozous pallidus	AMACC10010	None	None	G5	S3	SSC
pallid bat						
Aquila chrysaetos	ABNKC22010	None	None	G5	S3	FP
golden eagle						
Arizona elegans occidentalis	ARADB01017	None	None	G5T2	S2	SSC
California glossy snake						
Artemisiospiza belli belli	ABPBX97021	None	None	G5T2T4	S3	WL
Bell's sage sparrow						
Aspidoscelis tigris stejnegeri	ARACJ02143	None	None	G5T5	S3	SSC
coastal whiptail						
Astragalus brauntonii	PDFAB0F1G0	Endangered	None	G2	S2	1B.1
Braunton's milk-vetch						
Athene cunicularia	ABNSB10010	None	None	G4	S3	SSC
burrowing owl						
Bombus crotchii	IIHYM24480	None	None	G3G4	S1S2	
Crotch bumble bee						
California macrophylla	PDGER01070	None	None	G3?	S3?	1B.2
round-leaved filaree						
California Walnut Woodland	CTT71210CA	None	None	G2	S2.1	
California Walnut Woodland						
Calochortus clavatus var. gracilis	PMLIL0D096	None	None	G4T2T3	S2S3	1B.2
slender mariposa-lily						
Calochortus fimbriatus	PMLIL0D1J2	None	None	G3	S3	1B.3
late-flowered mariposa-lily				•		
Calochortus plummerae	PMLIL0D150	None	None	G4	S4	4.2
Plummer's mariposa-lily	.=0			0.1	0.4	
Catostomus santaanae	AFCJC02190	Threatened	None	G1	S1	
Santa Ana sucker						



California Department of Fish and Wildlife California Natural Diversity Database



Species	Flowert Code	Endoral Status	State Status	Clobal Bank	State Doub	Rare Plant Rank/CDFW
Species Contromadia parrui con australia	Element Code	Federal Status	State Status	Global Rank G3T2	State Rank S2	SSC or FP
Centromadia parryi ssp. australis southern tarplant	PDAST4R0P4	None	None	G 312	3 2	1B.1
Chorizanthe parryi var. fernandina	PDPGN040J1	Proposed	Endangered	G2T1	S1	1B.1
San Fernando Valley spineflower	FDFGN04031	Threatened	Liluarigereu	GZTT	31	10.1
Cismontane Alkali Marsh	CTT52310CA	None	None	G1	S1.1	
Cismontane Alkali Marsh	011020100/1	None	140110	O1	01.1	
Coccyzus americanus occidentalis	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
western yellow-billed cuckoo			3			
Deinandra minthornii	PDAST4R0J0	None	Rare	G2	S2	1B.2
Santa Susana tarplant						
Delphinium parryi ssp. blochmaniae	PDRAN0B1B1	None	None	G4T2	S2	1B.2
dune larkspur						
Delphinium umbraculorum	PDRAN0B1W0	None	None	G3	S3	1B.3
umbrella larkspur						
Diadophis punctatus modestus	ARADB10015	None	None	G5T2T3Q	S2?	
San Bernardino ringneck snake	DDOD 4 0 4 0 5 4	Maria	Mana	0070	00	40.4
Dudleya blochmaniae ssp. blochmaniae Blochman's dudleya	PDCRA04051	None	None	G3T2	S2	1B.1
Dudleya cymosa ssp. agourensis	PDCRA040A7	Threatened	None	G5T1	S1	1B.2
Agoura Hills dudleya						
Dudleya cymosa ssp. marcescens	PDCRA040A3	Threatened	Rare	G5T2	S2	1B.2
marcescent dudleya						
Dudleya multicaulis	PDCRA040H0	None	None	G2	S2	1B.2
many-stemmed dudleya						
Dudleya parva	PDCRA04016	Threatened	None	G1	S1	1B.2
Conejo dudleya						
Dudleya verityi	PDCRA040U0	Threatened	None	G1	S1	1B.1
Verity's dudleya						
Elanus leucurus	ABNKC06010	None	None	G5	S3S4	FP
white-tailed kite						
Empidonax traillii extimus	ABPAE33043	Endangered	Endangered	G5T2	S1	
southwestern willow flycatcher				0001	0.0	
Emys marmorata	ARAAD02030	None	None	G3G4	S3	SSC
western pond turtle	DDDONIO0400	Maria	D	04	04	40.0
Eriogonum crocatum conejo buckwheat	PDPGN081G0	None	Rare	G1	S1	1B.2
Euderma maculatum	AMACC07010	None	None	C4	Co.	990
spotted bat	AMACC07010	None	None	G4	S3	SSC
•	AMACD02011	None	None	G5T4	S3S4	SSC
Eumops perotis californicus western mastiff bat	AMACD02011	None	None	G314	JJJ4	330
Gasterosteus aculeatus williamsoni	AFCPA03011	Endangered	Endangered	G5T1	S1	FP
unarmored threespine stickleback	7.1 OI 7.000 I I	Lindaligoied	Lindarigored	0011	01	
and mosspino additional						



California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Gila orcuttii	AFCJB13120	None	None	G2	S2	SSC
arroyo chub						
Gymnogyps californianus	ABNKA03010	Endangered	Endangered	G1	S1	FP
California condor						
Harpagonella palmeri Palmer's grapplinghook	PDBOR0H010	None	None	G4	S3	4.2
Horkelia cuneata var. puberula mesa horkelia	PDROS0W045	None	None	G4T1	S1	1B.1
Icteria virens	ABPBX24010	None	None	G5	S3	SSC
yellow-breasted chat						
Lasiurus cinereus	AMACC05030	None	None	G5	S4	
hoary bat						
Lepechinia rossii Ross' pitcher sage	PDLAM0V060	None	None	G1	S1	1B.2
Macrotus californicus California leaf-nosed bat	AMACB01010	None	None	G4	S3	SSC
Monardella hypoleuca ssp. hypoleuca	PDLAM180A3	None	None	G4T3	S3	1B.3
white-veined monardella						
Monardella sinuata ssp. gerryi	PDLAM18163	None	None	G3T1	S1	1B.1
Gerry's curly-leaved monardella						
Myotis ciliolabrum western small-footed myotis	AMACC01140	None	None	G5	S3	
·	DDDI MOC420	None	None	62	S2	1B.1
Navarretia ojaiensis Ojai navarretia	PDPLM0C130	None	None	G2	52	ID.I
Neotoma lepida intermedia	AMAFF08041	None	None	G5T3T4	S3S4	SSC
San Diego desert woodrat						
Nolina cismontana chaparral nolina	PMAGA080E0	None	None	G3	S3	1B.2
Oncorhynchus mykiss irideus steelhead - southern California DPS	AFCHA0209J	Endangered	None	G5T1Q	S1	
Orcuttia californica	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
California Orcutt grass		•	•			
Pentachaeta Iyonii Lyon's pentachaeta	PDAST6X060	Endangered	Endangered	G1	S1	1B.1
Phrynosoma blainvillii coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
Polioptila californica californica coastal California gnatcatcher	ABPBJ08081	Threatened	None	G4G5T2Q	S2	SSC
Pseudognaphalium leucocephalum white rabbit-tobacco	PDAST440C0	None	None	G4	S2	2B.2
Rana boylii foothill yellow-legged frog	AAABH01050	None	Candidate Threatened	G3	S3	SSC



California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Rana draytonii	AAABH01022	Threatened	None	G2G3	S2S3	SSC
California red-legged frog						
Riparia riparia	ABPAU08010	None	Threatened	G5	S2	
bank swallow						
Salvadora hexalepis virgultea coast patch-nosed snake	ARADB30033	None	None	G5T4	S2S3	SSC
Senecio aphanactis	PDAST8H060	None	None	G3	S2	2B.2
chaparral ragwort						
Setophaga petechia	ABPBX03010	None	None	G5	S3S4	SSC
yellow warbler						
Socalchemmis gertschi	ILARAU7010	None	None	G1	S1	
Gertsch's socalchemmis spider						
Southern California Threespine Stickleback Stream Southern California Threespine Stickleback Stream	CARE2320CA	None	None	GNR	SNR	
Southern Coast Live Oak Riparian Forest Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	G3	S3.2	
Southern Cottonwood Willow Riparian Forest						
Southern Mixed Riparian Forest	CTT61340CA	None	None	G2	S2.1	
Southern Mixed Riparian Forest						
Southern Riparian Forest	CTT61300CA	None	None	G4	S4	
Southern Riparian Forest						
Southern Riparian Scrub	CTT63300CA	None	None	G3	S3.2	
Southern Riparian Scrub						
Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
Southern Sycamore Alder Riparian Woodland						
Southern Willow Scrub	CTT63320CA	None	None	G3	S2.1	
Southern Willow Scrub						
Spea hammondii	AAABF02020	None	None	G3	S3	SSC
western spadefoot						
Streptocephalus woottoni	ICBRA07010	Endangered	None	G1G2	S1S2	
Riverside fairy shrimp						
Symphyotrichum greatae	PDASTE80U0	None	None	G2	S2	1B.3
Greata's aster						
Taxidea taxus	AMAJF04010	None	None	G5	S 3	SSC
American badger						
Thamnophis hammondii	ARADB36160	None	None	G4	S3S4	SSC
two-striped gartersnake						
Trimerotropis occidentiloides	IIORT36300	None	None	G1G2	S1S2	
Santa Monica grasshopper						
Valley Needlegrass Grassland	CTT42110CA	None	None	G3	S3.1	
Valley Needlegrass Grassland						



California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Valley Oak Woodland	CTT71130CA	None	None	G3	S2.1	_
Valley Oak Woodland						
Vireo bellii pusillus	ABPBW01114	Endangered	Endangered	G5T2	S2	
least Bell's vireo						
Walnut Forest	CTT81600CA	None	None	G1	S1.1	
Walnut Forest						

Record Count: 85

California Natural Diversity Database (CNDDB) Commercial [ds85]

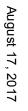
- Plant (80m)
- Plant (specific)
- Plant (non-specific)
- Plant (circular)
- Animal (80m)
- Animal (specific)
- Animal (non-specific)
- Animal (circular)
- Terrestrial Comm. (80m)
- Terrestrial Comm. (specific)
- Terrestrial Comm. (non-
- Terrestrial Comm. (circular)
- Aquatic Comm. (80m)

Aquatic Comm. (specific)

- Aquatic Comm. (nonspecific)
- Aquatic Comm. (circular)
- Multiple (80m)
- Multiple (specific)
- Multiple (non-specific)
- Multiple (circular)
- Sensitive EO's (Commercial only)
- 1:18,056

0.6 mi

1 km



Map of Project Area





Plant List

Inventory of Rare and Endangered Plants

48 matches found. Click on scientific name for details

Search Criteria

Found in Quads 3411848, 3411847, 3411846, 3411838, 3411837, 3411836, 3411828 3411827 and 3411826;

Q Modify Search Criteria **Export to Excel** Modify Columns Modify Sort Modify So

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank		Global Rank
Acanthoscyphus parishii var. parishii	Parish's oxytheca	Polygonaceae	annual herb	Jun-Sep	4.2	S3S4	G4? T3T4
Asplenium vespertinum	western spleenwort	Aspleniaceae	perennial rhizomatous herb	Feb-Jun	4.2	S4	G4
Astragalus brauntonii	Braunton's milk-vetch	Fabaceae	perennial herb	Jan-Aug	1B.1	S2	G2
California macrophylla	round-leaved filaree	Geraniaceae	annual herb	Mar-May	1B.2	S3?	G3?
Calochortus catalinae	Catalina mariposa lily	Liliaceae	perennial bulbiferous herb	(Feb)Mar-Jun	4.2	S4	G4
<u>Calochortus clavatus var.</u> <u>clavatus</u>	club-haired mariposa lily	Liliaceae	perennial bulbiferous herb	(Mar)May-Jun	4.3	S3	G4T3
Calochortus clavatus var. gracilis	slender mariposa lily	Liliaceae	perennial bulbiferous herb	Mar-Jun(Nov)	1B.2	S2S3	G4T2T3
Calochortus fimbriatus	late-flowered mariposa lily	Liliaceae	perennial bulbiferous herb	Jun-Aug	1B.3	S3	G3
Calochortus plummerae	Plummer's mariposa lily	Liliaceae	perennial bulbiferous herb	May-Jul	4.2	S4	G4
Calystegia peirsonii	Peirson's morning- glory	Convolvulaceae	perennial rhizomatous herb	Apr-Jun	4.2	S4	G4
Castilleja gleasoni	Mt. Gleason paintbrush	Orobanchaceae	perennial herb (hemiparasitic)	May-Jun(Sep)	1B.2	S2	G2
Centromadia parryi ssp. australis	southern tarplant	Asteraceae	annual herb	May-Nov	1B.1	S2	G3T2
<u>Cercocarpus betuloides</u> <u>var. blancheae</u>	island mountain- mahogany	Rosaceae	perennial evergreen shrub	Feb-May	4.3	S4	G5T4
Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	Polygonaceae	annual herb	Apr-Jul	1B.1	S1	G2T1
Clarkia exilis	slender clarkia	Onagraceae	annual herb	Apr-May	4.3	S4	G4
Clinopodium mimuloides	monkey-flower savory	Lamiaceae	perennial herb	Jun-Oct	4.2	S3	G3
Convolvulus simulans	small-flowered morning-glory	Convolvulaceae	annual herb	Mar-Jul	4.2	S4	G4
Deinandra minthornii	Santa Susana tarplant	Asteraceae	perennial deciduous shrub	Jul-Nov	1B.2	S2	G2
Deinandra paniculata	paniculate tarplant	Asteraceae	annual herb	(Mar)Apr-Nov	4.2	S4	G4
	dune larkspur	Ranunculaceae	perennial herb	Apr-Jun	1B.2	S2	G4T2

<u>Delphinium parryi ssp.</u> <u>blochmaniae</u>							
<u>Delphinium parryi ssp.</u> <u>purpureum</u>	Mt. Pinos larkspur	Ranunculaceae	perennial herb	May-Jun	4.3	S4	G4T4
<u>Dudleya blochmaniae</u> <u>ssp. blochmaniae</u>	Blochman's dudleya	Crassulaceae	perennial herb	Apr-Jun	1B.1	S2	G3T2
<u>Dudleya cymosa ssp.</u> agourensis	Agoura Hills dudleya	Crassulaceae	perennial herb	May-Jun	1B.2	S1	G5T1
<u>Dudleya cymosa ssp.</u> <u>marcescens</u>	marcescent dudleya	Crassulaceae	perennial herb	Apr-Jul	1B.2	S2	G5T2
<u>Dudleya multicaulis</u>	many-stemmed dudleya	Crassulaceae	perennial herb	Apr-Jul	1B.2	S2	G2
Dudleya parva	Conejo dudleya	Crassulaceae	perennial herb	May-Jun	1B.2	S1	G1
<u>Dudleya verityi</u>	Verity's dudleya	Crassulaceae	perennial herb	May-Jun	1B.1	S1	G1
Eriogonum crocatum	conejo buckwheat	Polygonaceae	perennial herb	Apr-Jul	1B.2	S1	G1
Hordeum intercedens	vernal barley	Poaceae	annual herb	Mar-Jun	3.2	S3S4	G3G4
Horkelia cuneata var. puberula	mesa horkelia	Rosaceae	perennial herb	Feb-Jul(Sep)	1B.1	S1	G4T1
Juglans californica	Southern California black walnut	Juglandaceae	perennial deciduous tree	Mar-Aug	4.2	S3	G3
Lepechinia fragrans	fragrant pitcher sage	Lamiaceae	perennial shrub	Mar-Oct	4.2	S3	G3
Lepechinia rossii	Ross' pitcher sage	Lamiaceae	perennial shrub	May-Sep	1B.2	S1	G1
<u>Lilium humboldtii ssp.</u> <u>ocellatum</u>	ocellated Humboldt lily	Liliaceae	perennial bulbiferous herb	Mar-Jul(Aug)	4.2	S3	G4T3
<u>Lupinus paynei</u>	Payne's bush lupine	Fabaceae	perennial shrub	Mar-Apr(May- Jul)	3.1	S1	G1Q
Monardella hypoleuca ssp. hypoleuca	white-veined monardella	Lamiaceae	perennial herb	(Apr)May- Aug(Sep-Dec)	1B.3	S3	G4T3
<u>Monardella sinuata ssp.</u> gerryi	Gerry's curly-leaved monardella	Lamiaceae	annual herb	Apr-Jun	1B.1	S1	G3T1
Monardella sinuata ssp. sinuata	southern curly-leaved monardella	Lamiaceae	annual herb	Apr-Sep	1B.2	S2	G3T2
Navarretia ojaiensis	Ojai navarretia	Polemoniaceae	annual herb	May-Jul	1B.1	S2	G2
Nolina cismontana	chaparral nolina	Ruscaceae	perennial evergreen shrub	(Mar)May-Jul	1B.2	S3	G3
Orcuttia californica	California Orcutt grass	Poaceae	annual herb	Apr-Aug	1B.1	S1	G1
Pentachaeta Iyonii	Lyon's pentachaeta	Asteraceae	annual herb	(Feb)Mar-Aug	1B.1	S1	G1
Phacelia hubbyi	Hubby's phacelia	Hydrophyllaceae	annual herb	Apr-Jul	4.2	S4	G4
Piperia michaelii	Michael's rein orchid	Orchidaceae	perennial herb	Apr-Aug	4.2	S3	G3
Pseudognaphalium leucocephalum	white rabbit-tobacco	Asteraceae	perennial herb	(Jul)Aug- Nov(Dec)	2B.2	S2	G4
Senecio aphanactis	chaparral ragwort	Asteraceae	annual herb	Jan-Apr(May)	2B.2	S2	G3
Stylocline masonii	Mason's neststraw	Asteraceae	annual herb	Mar-May	1B.1	S1	G1
Symphyotrichum greatae	Greata's aster	Asteraceae	perennial rhizomatous herb	Jun-Oct	1B.3	S2	G2

California Native Plant Society, Rare Plant Program. 2017. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website http://www.rareplants.cnps.org [accessed 17 August 2017].

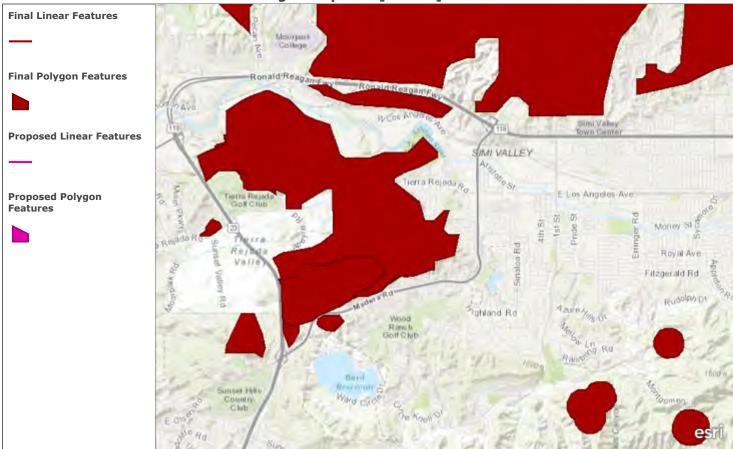
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Contributors

<u>The Califora Database</u> <u>The California Lichen Society</u>

Critical Habitat for Threatened & Endangered Species [USFWS]



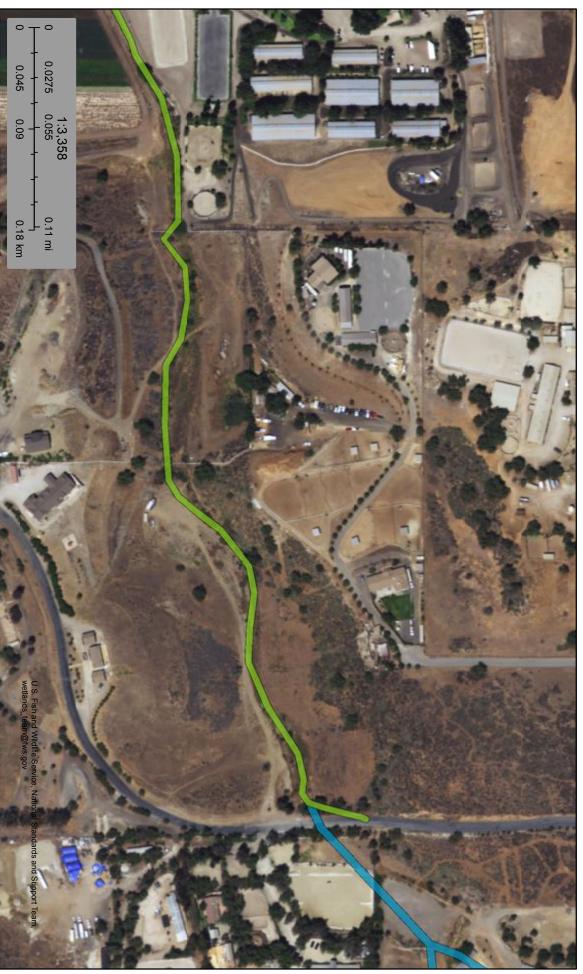
A specific geographic area(s) that contains features essential for the conservation of a threatened or endangered species and that may require special management and protection.

2mi

U.S. Fish and Wildlife Service | County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METI/NASA, NGA, EPA, USDA



15498 LaPeyre Court



August 17, 2017

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Other

Riverine

Lake

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

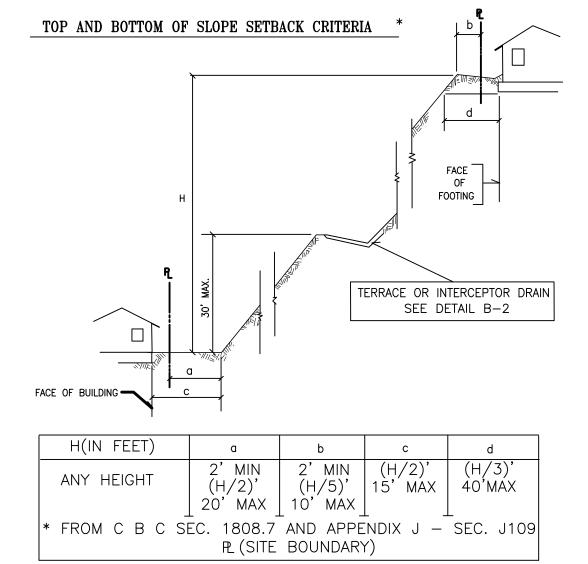
Attachment B Site Plan, LC Engineering Group, Inc., November 10, 2017

1	8	889 Pierce Court, Suite 101, Thousand Oaks, California 91360 148 • 805-497-1244 • lcess 1902 m • workfiles@lcegroupinc.com BY			5498 LAPEYR
3 2	LC E	ENGINEERING GROUP INC	COUNTY OF VENT Public works age	URA	PAR
<u>A</u>	DESIGN ENGINEEI	805-402-6468		₩ D I D ;	
<u>L</u> I	EONARD LISTON 31902 (PRINT NAME) (RCE)	CHARLES PINNEO		· ·	
ENGINE CONFIT	EERS ACT. I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS BY THE COUNTY OF VENT NED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF RECORD, OF MY RESPONSIBILITI CT DESIGN. LC ENGINEERING GROUP, INC 889 PIERCE CT, SUITE 101 (CIVIL ENGINEER SIGNATURE) THOUSAND OAKS, CA 91360	TURA IS 187 E. WILBUR RD, SUITE 4 THOUSAND OAKS, CA 91360 [TOPO SOURCE METHOD (ie. ALTA, PHOTOGRAMMETERY, ETC.)] 06-02-17 187 E. WILBUR RD, SUITE 4 THOUSAND OAKS, CA 91360 [TOPO SOURCE METHOD (ie. ALTA, PHOTOGRAMMETERY, ETC.)]			
EXERC	BY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH THE ADOPTED COUNTY STANDARDS, AND THAT ISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN THE PROFES	T I HAVE SSIONAL STEVE OPDAHL SURVEYING	TC3 – ENTRANCE/OUTLET TIRE WASH		
10 m	N/A N/A (PRINT NAME) CERT. NO.	TOPOGRAPHY DATA	TC2 – STABILIZED CONSTRUCTION ROADWAY		
	N/A ENGINEERING GEOLOGIST SIGNATURE) N/Δ N/Δ	WITH MOORPARK ROAD, 60 FEET NORTHERLY FROM THE CENTER OF TIERRA REJADA ROAD, IN THE CENTER OF A CONCRETE HEADWALL	X WE1 – WIND EROSION CONTROL EQUIPMENT TRACKING x TC1 – STABILIZED CONSTRUCTION ENTRANCE EXIT		
PROPERTY LOCATION SIZE OF SIZE	EERING GEOLOGY REPORTS: N/A 20	DATE: 1999 HEIGHT: 223.066 (METERS)/ 731.84 (FEET) DESCRIPTION: 1.2 MILES ALONG TIERRA REJADA ROAD FROM ITS INTERSECTION	WIND EROSION CONTROL		SEMI-CIRCULAR 2) FOR INTERCEPT
TIERRA REJADA ROAD		DESIGNATION: 16-187 DATUM: NAVD 88	SE13 – COMPOST SOCKS & BERMS SE14 – BIOFILTER BAGS	ADDITIONAL BMP'S SELECTED	1) TERRACE DRAIN REINFORCED CO
	(SOLS ENGINEER SIGNATURE) THOUSAND OAKS, CA 91360 (PRINT NAME) (RCE) THOUSAND OAKS, CA 91360 805-497-1244	BENCH MARK DATA	SE11 – ACTIVE TREATMENT SYSTEMS SE12 – TEMPORARY SILT DIKE	WM10 – LIQUID WASTE MANAGEMENT	J
	(SOILS ENGINEER SIGNATURE) CAL WEST GEOTECHNICAL 889 PIERCE CT, SUITE 101 THOUSAND ONCE CA. 04 04 04		SE9 – STRAW BALE BARRIER X SE10 – STORM DRAIN INLET PROTECTION	X WM8 – CONCRETE WASTE MANAGEMENT X WM9 – SANITARY/SEPTIC WASTE MANAGEMENT	TYPICAL BERM AT OF FILL SLOPE
	ENGINEERING REPORTS: MARCH 23 20_17	(SIGNATURE) INSTRUCTIONS: THE OWNER MAY SIGN IF THE GRADING WAS NOT DONE BY A LICENSED GRADING CONTRACTOR.	SE7 – STREET SWEEPING AND VACUUMING X SE8 – SANDBAG BARRIER	WM6 – HAZARDOUS WASTE MANAGEMENT WM7 – CONTAMINATION SOIL MANAGEMENT	DETAIL B
	GRADING PLAN IS ACCEPTABLE IN REGARD TO SOILS (AND GEOLOGIC - IF APPLICABLE) CONDITION OR THE SUPPORTIVE REPORT(S) DATED:	STAND GRADING CONTRACTOR LICENSE NO DATE	SE5 – FIBER ROLLS SE6 – GRAVEL BAG BERM	X WM4 – SPILL PREVENTION & CONTROL X WM5 – SOLID WASTE MANAGEMENT	FINISH
LOCATION & VICINITY MAP	APPROVAL BY CONSULTANTS	I CERTIFY THAT THE GRADING WAS DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS, THE GRADING ORDINANCE, AND THE RECOMMENDATIONS OF THE CIVIL ENGINEER, SOILS ENGINEER AND ENGINEERING GEOLOGIST. IT IS UNDERSTOOD THAT THIS CERTIFICATION INCLUDES ONLY THOSE ASPECTS OF THE WORK THAT CAN BE DETERMINED BY ME, AS A COMPETENT GRADING CONTRACTOR, WITHOUT SPECIAL EQUIPMENT OR PROFESSIONAL SKILLS.	χ SE4 – CHECK DAM	WM2 – MATERIAL USE X WM3 – STOCKPILE MANAGEMENT	SLOPE
		BY GRADING CONTRACTOR	SE2 – SEDIMENT BASIN SE3 – SEDIMENT TRAP	X WM1 – MATERIAL DELIVERY & STORAGE	
DATE	DATE	GRADING CONTRACTOR CERTIFICATION	TEMPORARY SEDIMENT CONTROL X SE1 – SILT FENCE	NS16 – TEMPORARY BATCH PLANTS WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL	
STATE ENCROACHMENT PERMIT NO.	FLOODPLAIN DEVELOPMENT PERMIT	SEAL	EC15 – SOIL PREPARATION\ROUGHENING EC16 – NON-VEGETATED STABILIZATION	NS14 – MATERIAL & EQUIPMENT USE NS15 – DEMOLITION ADJACENT TO WATER	KEYWAYS AND EARTH MATERI ENGINEER (&
DATE	DATE	(SIGNATURE)	EC12 – STREAMBANK STABILIZATION EC14 – COMPOST BLANKETS	NS12 – CONCRETE CURING NS13 – CONCRETE FINISHING	
COUNTY ENCROACHMENT PERMIT NO.	VENTURA COUNTY WATERSHED PROTECTION DISTRICT WATERCOURSE PERMIT NO.	CIVIL ENGINEER	EC10 – VELOCITY DISSIPATION DEV. EC11 – SLOPE DRAINS	NS10 – VEHICLE & EQUIPMENT MAINTENANCE NS11 – PILE DRIVING OPERATIONS	Z MIN.
PERMITS			EC8 – WOOD MULCHING EC9 – EARTH DIKES & DRAINAGE SWALES	NS8 – VEHICLE & EQUIPMENT CLEANING NS9 – VEHICLE & EQUIPMENT FUELING	2' MIN.
LAND DEVELOPMENT & INSPECTION SERVICES MUST BE NOTIFIED TEN	N (10) WORKING DAYS PRIOR TO ANY EXPORT/IMPORT TO/FROM THE PROJECT SITE.	HAVE BEEN INSTALLED. ADEQUATE PROVISIONS HAVE BEEN MADE FOR DRAINAGE OF SURFACE WATERS FROM EACH BUILDING SITE AS OF THIS DATE. LOT NOS:	EC7 – GEOTEXTILES & MATS	NS7 – POTABLE WATER/IRRIGATION	SLOPE AWAY FROM KEYWAY
	L NATIVE PLANTING LANDSCAPE AREA % (PERCENT OF TOTAL LANDSCAPE AREA)	I CERTIFY TO THE SATISFACTORY COMPLETION OF GRADING IN ACCORDANCE WITH THE APPROVED PLANS. ALL DRAINAGE DEVICES REQUIRED BY THE GRADING PERMIT, GRADING PLANS AND GRADING ORDINANCE HAVE BEEN INSTALLED. EROSION TREATMENT OF SLOPES AND IRRIGATION SYSTEMS (WHERE REQUIRED) HAVE BEEN INSTALLED. ADEQUATE PROVISIONS HAVE BEEN MADE FOR DRAINAGE OF SURFACE WATERS FROM EACH BUILDING SITE AS OF THIS DATE.	EC5 – SOIL BINDERS EC6 – STRAW MULCH	NS5 – CLEAR WATER DIVERSION NS6 – ILLICIT CONNECTION/DISCHARGE	CLODE WWW
THE TOTAL AMOUNT OF IMPERVIOUS AREA TO BE CONSTRUCTED AS I	PART OF THIS PROJECT ISØSQ. FT.	BY CIVIL ENGINEER	EC3 – HYDRAULIC MULCH X EC4 – HYDROSEEDING	NS3 – PAVING & GRINDING OPERATIONS NS4 – TEMPORARY STREAM CROSSING	
AVERAGE NATURAL SLOPE IN THE AREA OF GRADING 22.7	%	FINAL GRADING CERTIFICATION	X EC1 – SCHEDULING X EC2 – PRESERVATION EXISTING VEGETATION	X NS1 – WATER CONSERVATION PRACTICES NS2 – DEWATERING OPERATIONS	
ABOVE.		SEAL	EROSION CONTROL	NON-STORMWATER MANAGEMENT	TREATM GRAI
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND NOTICE	JCTION IS 3.12 ACRES. PROJECTS THAT ARE 1.0 ACRE OR GREATER IN DISTURBED AREA WILL REQUOSE INTENT (NOI) AS APPROVED BY THE STATE REGIONAL WATER QUALITY CONTROL BOARD AS DESCRIPTION.			W FOR APPLICABLE PROJECT BMP'S	FILL PLACEM
THIS PROJECT INCLUDES POST CONSTRUCTION BMP'S X Y	ESNO	(SIGNATURE)	BMP DESCRIPTIONS AND DETAILS CAN BE OBTAINE WWW.CASQA.ORG	ED FROM THE CALIFORNIA STORMWATER HANDBOOKS AT	EIII DI (OD)
FILL:30,438 CU. YDS IMPORT:1	5,038 CU. YDS SOURCE	CIVIL ENGINEER REG. NO 31902 DATE		OR OR BUILDING OFFICIAL MAY PERFORM UNANNOUNCED SITE	
CUT:CU. YDS. EXPORT:	ØCU. YDS. DISPOSAL SITEN/A		BUILDING OFFICIAL). CERTAIN BMP'S ARE REQUIRED AS P APPLICANT IS RESPONSIBLE FOR ENSURING THAT THE E	NGINEER, QUALIFIED SWPP DEVELOPER, PRACTITIONER OR THE ART OF THE STORMWATER FORMS SW-1, SW-2 AND SW-HR. THE IMP'S LISTED HEREON, ARE IMPLEMENTED AND MAINTAINED AT	
EARTHWORK QUANTITIES		HAVE BEEN INCORPORATED IN THE DESIGN. LOT NOS:	ONLINE HANDBOOK MAY APPLY DURING THE CONSTR	O TO, THE LATEST EDITION OF THE CASQA CONSTRUCTION BMP UCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE	
PRIOR TO FINAL INSPECTION BY THE BUILDING OFFICIAL.		I CERTIFY TO THE SATISFACTORY COMPLETION OF ROUGH GRADING INCLUDING GRADING TO APPROXIMATE FINAL ELEVATIONS; PROPERTY LINES LOCATED AND STAKED, CUT AND FILL SLOPES CORRECTLY GRADED AND LOCATED IN ACCORDANCE WITH THE APPROVED DESIGN; SWALES AND TERRACES GRADED READY FOR PAVING; BERMS INSTALLED; AND REQUIRED DRAINAGE SLOPES PROVIDED ON THE BUILDING PADS. I FURTHER CERTIFY THAT WHERE REPORT OR REPORTS OF AN ENGINEERING GEOLOGIST AND/OR SOILS ENGINEER HAVE BEEN PREPARED RELATIVE TO THIS SITE, THE RECOMMENDATIONS CONTAINED IN SUCH REPORTS	PROJECT BMP'S		* FRO
20. FINAL SOILS ENGINEERING AND (IF APPLICABLE) ENGINEERING OF THAT THE WORK HAS BEEN COMPLETED ACCORDING TO THE A	GEOLOGY REPORTS SUMMARIZING ALL EARTHWORK PERFORMED SINCE ROUGH GRADING AND CONCLUPPROVED REPORTS SHALL BE SUBMITTED WITH THE AS-BUILT PLANS (RECORD DRAWING) TO THE CO		,	RUCTION OF EMERGENCY DEVICES WHEN RAIN IS IMMINENT.	H(II)
	EERING GEOLOGY REPORTS SUMMARIZING ALL EARTHWORK PERFORMED AND CONCLUDING THAT THE $^{\circ}$ S SHALL BE SUBMITTED TO THE COUNTY FOR APPROVAL OF THE ROUGH GRADING BY THE BUILDING OF			CY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT	
MINIMIZED. HOWEVER, IF USED SHOULD BE COATED TO MINIMIZE 18. INTERIM SOILS AND GEOLOGIC REPORTS SHALL BE SUBMITTED TO		(SIGNATURE)	5. SANITARY FACILITIES. PORTABLE SANITARY FACILITI FROM TRAFFIC AREAS, DRAINAGE COURSES, AND STO	ES SHALL BE LOCATED ON RELATIVELY LEVEL GROUND AWAY RM DRAIN INLETS.	FACE OF BUIL
	NY COUNTY RIGHTS OF WAY. THE USE OF CORRUGATED STEEL PIPE ON PRIVATE PROPERTY SHOUL	ENGINEERING GEOLOGIST CERT. NO DATE	 PUMPED WATER DISCHARGES. DISCHARGES OF PUMI STATE OF CALIFORNIA REGIONAL WATER QUALITY COI 	PED GROUND WATER REQUIRE A DISCHARGE PERMIT FROM THE NTROL BOARD (RWQCB).	
	EMPLOYED) SHALL PROVIDE RECOMMENDATIONS AND APPROVE CORRECTIVE WORK TO INSURE S	LOT NOS:	AS REQUIRED BY THE PERMIT ORDER NO. R4-2010-010	TORMWATER TREATMENT BMP'S ARE SUBJECT TO INSPECTIONS B, AS AMENDED FROM TIME TO TIME.	
15. ALL TEMPORARY EXCAVATED SLOPES OR BENCHES AND KEYS ENGINEER TO INSURE THAT ALL POTENTIAL PLANES OF FAILUF	FOR BUTTRESS OR STABILIZATION FILLS MUST BE EXAMINED BY THE ENGINEERING GEOLOGIST AND RE HAVE BEEN EXPOSED IN THE EXCAVATION AND WILL BE ADEQUATELY SUPPORTED BY THE PROP	POSED 15.408 LADEYRE COLIFT	GRADING, CLEARING, CONSTRUCTION, DEMOLITION, A	ND OTHER SOIL DISTURBANCE ACTIVITIES ARE PROHIBITED.	
	LL BE REPORTED TO THE STATE OF CALIFORNIA, DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES I		,	RING ALL GRADING ACTIVITIES. ES INTO THE COUNTY'S STORM DRAIN SYSTEM AS A RESULT OF	
	SHALL BE REPORTED TO THE WATER RESOURCES DIVISION, WATERSHED PROTECTION DISTRICT PRICE	DR TO	CAS000002, AS A NUMBER ASSIGNED TO THE PRO	JECT BY THE STATE WATER RESOURCES CONTROL BOARD, AND PROJECT STORMWATER POLLUTION PREVENTION PLAN	
TWELVE INCHES IN LARGEST DIMENSION, IT MUST BE BROKEN IN	TO SMALLER PARTICLE SIZES, BEFORE BEING USED AS FILL. TING UNDERGROUND STRUCTURES SUCH AS SEPTIC TANKS, IRRIGATION LINES, ETC.	SOILS ENGINEER REG. NO 31902 DATE (SIGNATURE)	ARE PART OF A COMMON PLAN OF DEVELOPMENT OF	CAUSE SOIL DISTURBANCE OF ONE ACRE OR MORE, OR THAT SALE THAT CAUSE SOIL DISTURBANCE OF ONE ACRE OR MORE CALIFORNIA STATEWIDE GENERAL CONSTRUCTION PERMIT NO.	
11. ALL MATERIALS DEEMED UNSUITABLE FOR PLACEMENT IN COMI	PACTED FILL SHALL BE REMOVED FROM THE SITE. MATERIALS SUCH AS CONSTRUCTION INERT DEBRI SINEER AND COUNTY PRIOR TO USE IN COMPACTED FILL. WHERE EXCAVATED MATERIAL IS LARGER	THAN	CONTROL BMP'S ARE LISTED ON COUNTY FORMS SW-1, SV	<i>I-</i> 2, OR SW-HR.	
10. ALL AREAS TO RECEIVE FILL SHALL BE INSPECTED AND APPR	OVED BY THE SOILS ENGINEER (AND ENGINEERING GEOLOGIST WHERE EMPLOYED) AFTER REMOVI CHES, AND PRIOR TO PLACEMENT OF SUBSURFACE DRAINAGE SYSTEMS OR FILL.	AL OF FOR TEST DATA, RECOMMENDED ALLOWABLE SOIL BEARING VALUES & OTHER SPECIAL RECOMMENDATIONS.	REQUIREMENTS. EFFECTIVE COMBINATION OF EROSIC (BMP'S) SHALL BE INSTALLED BEFORE GRADING BEGINS.	IN AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES DURING GRADING ACTIVITIES, ALL BMP'S SHALL BE UPDATED AS CHARGE OF CONSTRUCTION RELATED POLLUTANTS. EROSION	
	ESSIBLE SOILS, OR ANY ORGANIC MATERIALS OR RUBBISH, SHALL BE REMOVED AS REQUIRED BY THE	SOILS SEE REPORTS DATED:		IN WHICH GRADING ACTIVITIES OR OTHER SOIL DISTURBANCE SHALL COMPLY WITH THE LATEST AND APPLICABLE NPDES	TOP AN
	PROTECTED IN ACCORDANCE WITH THE VENTURA COUNTYWIDE MUNICIPAL STORMWATER NPDES PE LED AND MAINTAINED FULLY FUNCTIONAL.	ERMIT. LOT NOS:15498_LAPEYRE_COURT	GENERAL STORMWATER N	OTES:	mon 43
	NOM BOILDING AND SAFETT. INGINEERING GEOLOGIST, WHERE EMPLOYED) CONTAINED IN THE REPORTS AS APPROVED BY THE CO	AND ALL RECOMMENDATIONS THAT I HAVE MADE BASED ON FIELD INSPECTION OF THE WORK AND TESTING DURING GRADING. I FURTHER CERTIFY THAT WHERE THE REPORTS OF AN ENGINEERING GEOLOGIST, RELATIVE TO THIS SITE, HAVE RECOMMENDED THE INSTALLATION OF BUTTRESS FILLS OR OTHER SIMILAR STABILIZATION MEASURES, SUCH EARTHWORK CONSTRUCTION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED DESIGN.			
NO GRADING ACTIVITY SHALL OCCUR IN ANY WETLAND, BLUE-LII PWA & RESOURCE MANAGEMENT AGENCY (RMA), OR OTHER AUTI RETAINING WALLS AND BRIDGES REQUIRE A SEPARATE PERMIT F	HORITIES HAVING JURISDICTION.	I CERTIFY THAT THE ROUGH GRADING WORK INCORPORATES ALL RECOMMENDATIONS CONTAINED IN THE REPORT OR REPORTS FOR WHICH I AM RESPONSIBLE			
	N UNTIL AFTER 7:00 A.M. NO WORK BEYOND 4:30 PM UNLESS APPROVED BY PWA. NE STREAM, RED-LINE CHANNEL, OR FLOODPLAIN WITHOUT THE PROPER PERMITS & PERMISSION FROM	M THE AND YOUR FNOINEER	PUB	LIC WOI	
	IOR TO ANY GRADING ACTIVITY OR LAND DISTURBANCES WITH THE FOLLOWING PARTIES PRESENT: OVER, COUNTY GRADING INPECTOR(S), AND OTHER JURISDICTIONAL AGENCIES WHEN REQUIRED.				
	ALID ONLY TO THE EXTENT OF THE VENTURA COUNTY BUILDING CODE APPENDIX J - GRADING. PERMITAGENCIES OR INTERESTED PARTIES ARE THE RESPONSIBILITY OF THE PERMITTEE.	IS OR		UNTY	
GRADING ACTIVITIES SHALL BE IN ACCORDANCE WITH THE VENTU	JRA COUNTY BUILDING CODE APPENDIX J GRADING, LATEST EDITION.	JOB ADDRESS OR LOT AND TRACT NO: 15498 LAPEYRE COURT			₩ , ٦

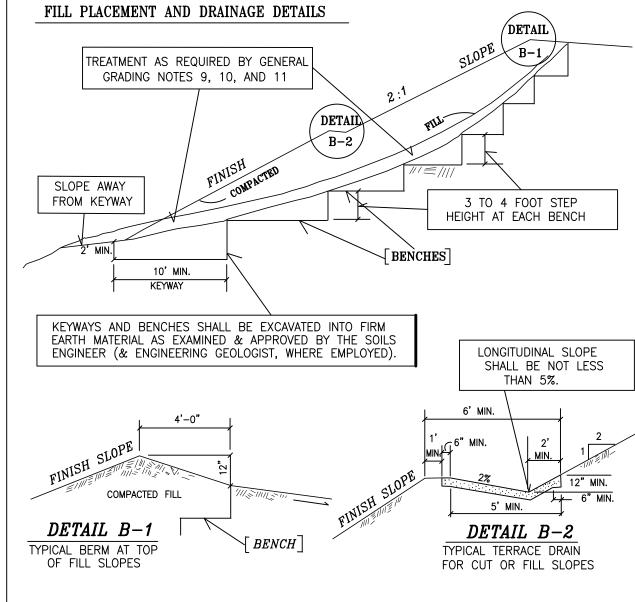
ENGINEERED GRADING INSPECTION CERTIFICATES

GENERAL GRADING NOTES:

AGENCY



DETAIL A



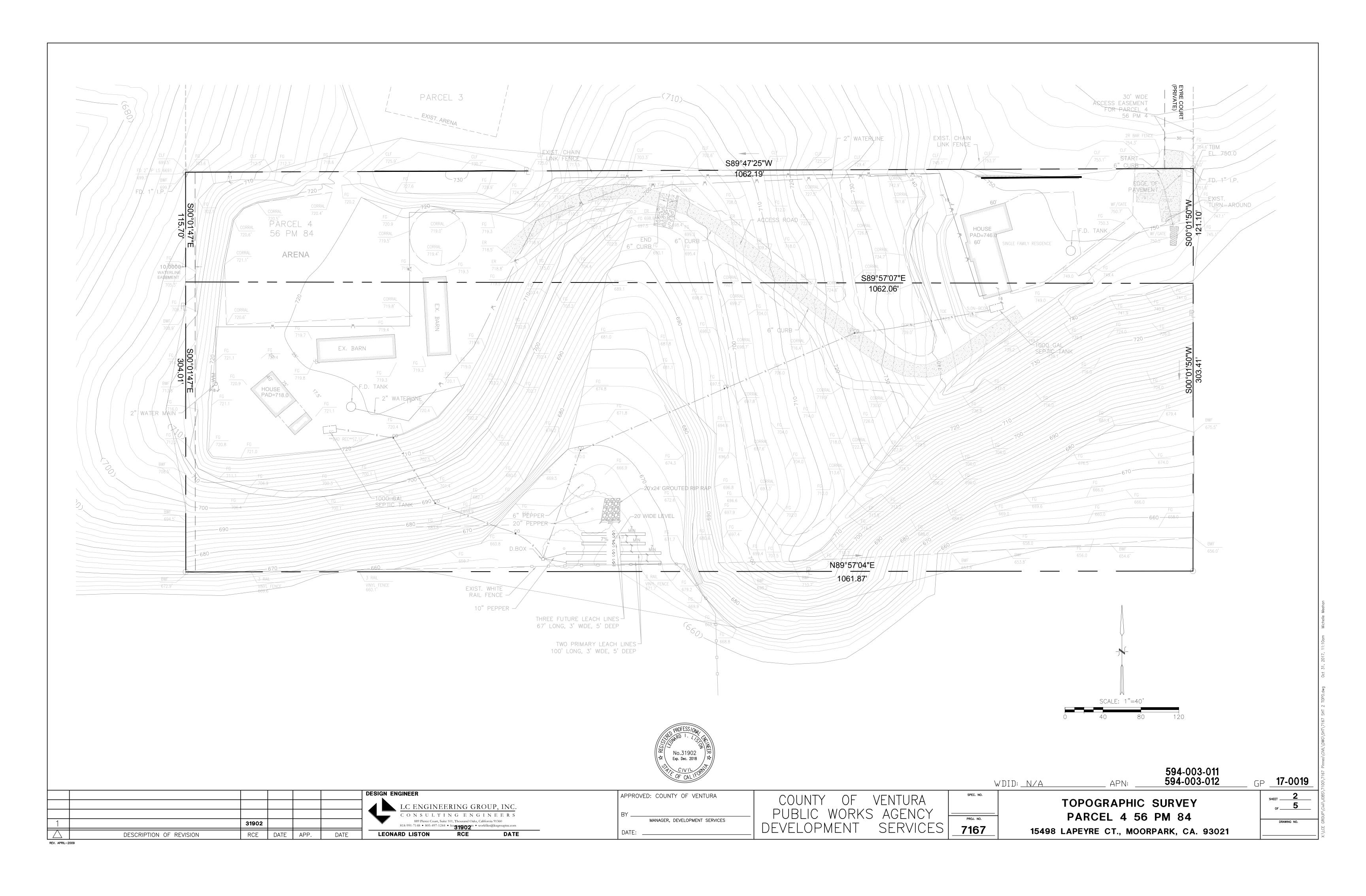
- INTERCEPTOR DRAINS & DOWNDRAINS SHALL BE CONSTRUCTED OF MINIMUM 3" CRETE REINFORCED WITH 6 \times 6 \times 10 \times 10 W.W.M. & SHALL BE OF EITHER R TRIANGULAR CROSS SECTION.
- DRAIN AT TOP OF CUT SLOPES AND DOWN DRAINS, MINIMUM WIDTH OF 3 FEET.

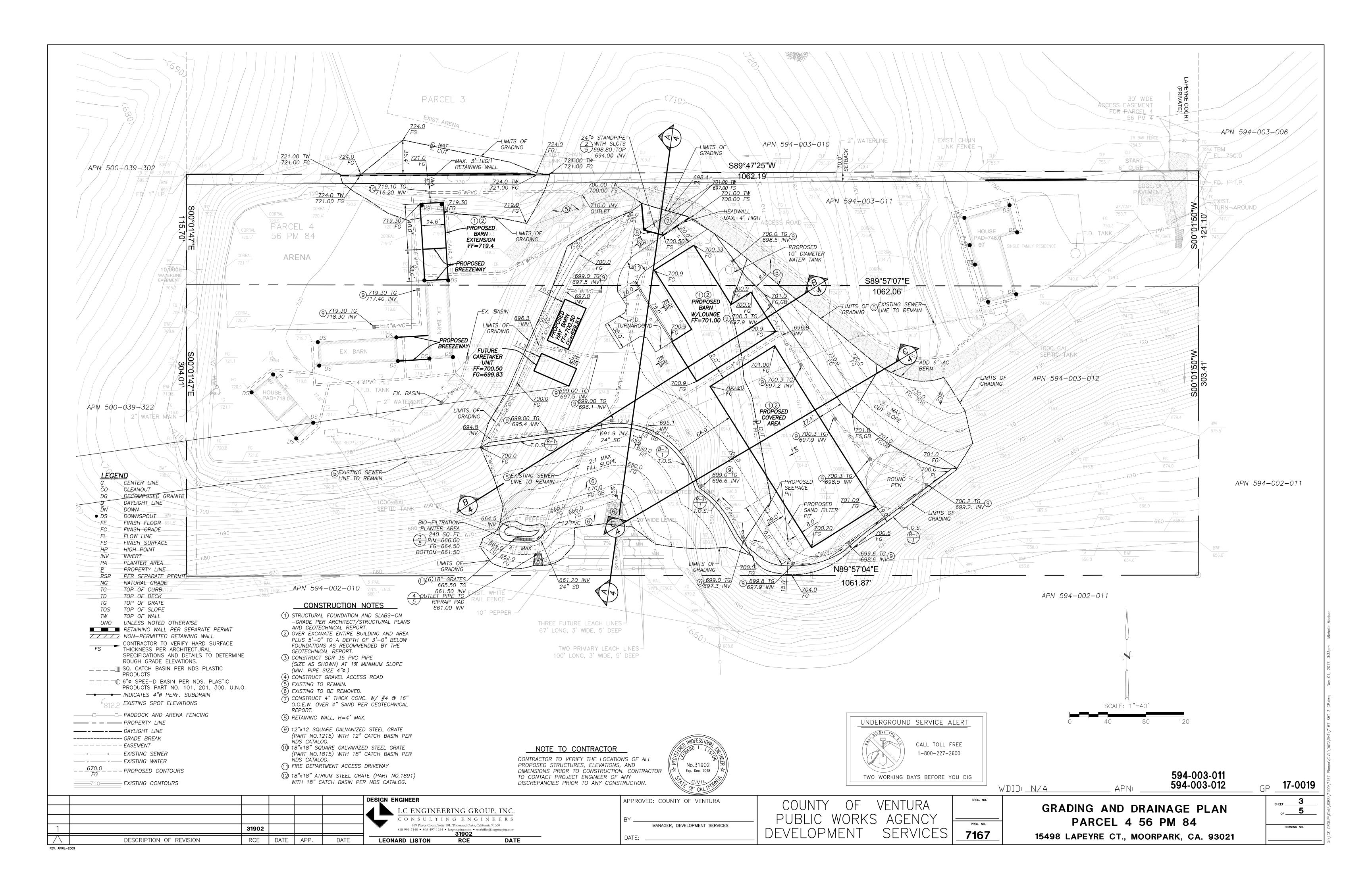
DETAIL B

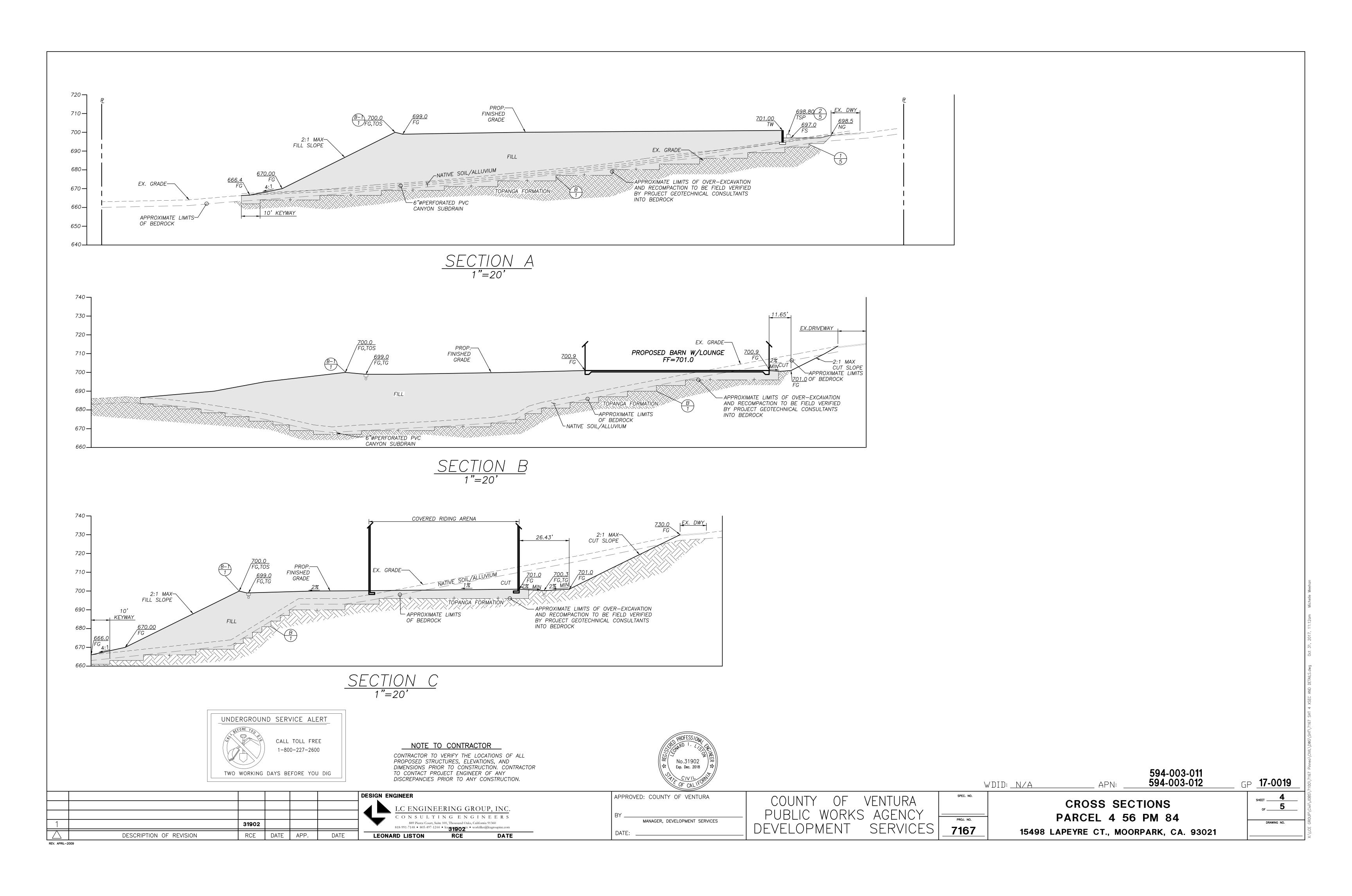
594-003-011 594-003-012

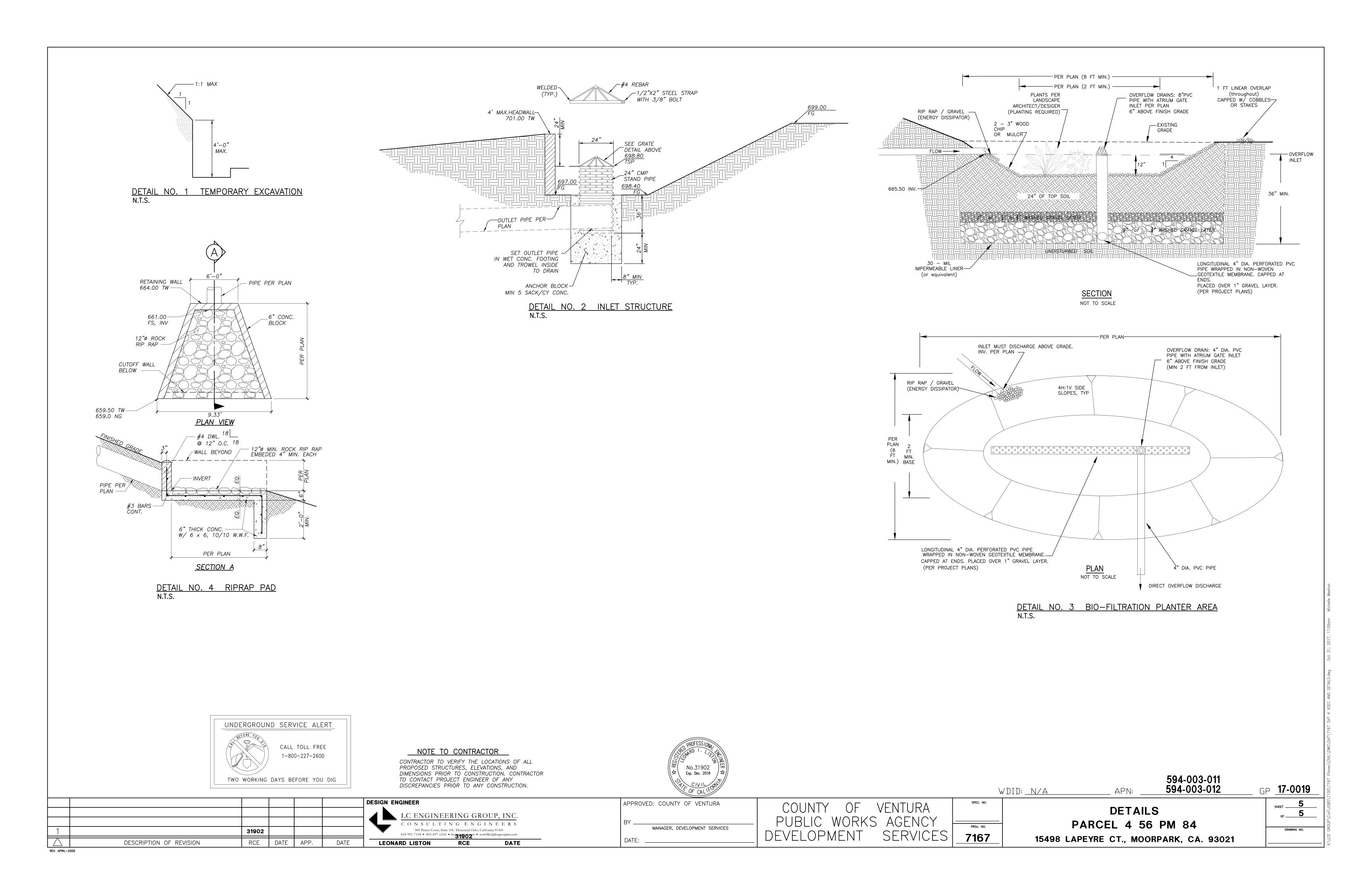
GP <u>17-0019</u>

OVER SHEET EL 4 56 PM 84 15498 LAPEYRE CT., MOORPARK, CA. 93021 DRAWING NO.











May 29, 2018

Project No. 5740

Charles Pinneo 15498 Lapeyre Court Moorpark, CA 93021

SUBJECT:

ADDENDUM GEOTECHNICAL ENGINEERING REPORT, RESPONSE TO THE COUNTY OF VENTURA PUBLIC WORKS AGENCY, REVIEW OF GRADING PERMIT: 17-0019- 2nd PLAN CHECK, PROPOSED GRADING AND CONSTRUCTION OF RIDING ARENAS, ROUND PEN, PASTURES AND RELATED EQUESTRIAN IMPROVEMENTS, PINNEO RIDING AREA, APN 500-0-393-370, 15498 LAPEYRE COURT, MOORPARK, COUNTY OF VENTURA, CALIFORNIA.

REFERENCES:

UPDATE GEOTECHNICAL ENGINEERING REPORT AND CHANGE OF GEOTECHNICAL CONSULTANT OF RECORD, PROPOSED GRADING AND CONSTRUCTION OF RIDING ARENAS, ROUND PEN, PASTURES AND RELATED EQUESTRIAN IMPROVEMENTS, PARCEL 4 56 PM 84, APN 500-0-393-370, 15498 LAPEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY CALWEST GEOTECHNICAL, PROJECT NO. 5740, DATED MARCH 23, 2017.

GRADING AND DRAINAGE PLAN, PARCEL 4 56 PM 84, APN 500-0-393-370, 15498 LAPEYERE COURT, MOORPARK, CALIFORNIA, PREPARED BY LC ENGINEERING GROUP, INC., PROJECT NO. 7167, DATED MAY 26, 2016.

GEOLOGIC AND SOILS ENGINEERING REPORT FOR PROPOSED BARNS AND WATER TANK, GP9771, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED OCTOBER 26, 2006.

ADDENDUM TO OUR GEOLOGIC AND GEOTECHNICAL ENGINEERING REPROT ON COMPLETED ROUGH GRADING FOR PROPSOED SINGLE FAMILY RESIDENCE, GUEST HOUSE, AND ACCESS DRIVEWAY, GP9771, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED NOVEMBER 4, 2005.

GEOLOGIC AND GEOTECHNICAL ENGINEEING REPORT ON COMPLETED ROUGH GRADING FOR PROPOSED SINGLE FAMILY RESIDENCE, GUEST HOUSE, AND ACCESS DRIVEWAY, GP9771, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED OCTOBER 24, 2005.

RESPONSE TO COUNTY OF VENTURA RESOURCE MANAGEMENT AGENCY, ENVIRONMENTAL HEALTH DIVISION REVIEW FOR PROPOSED SINGLE FAMILY RESIDENCE, GUEST HOUSE, AND CARETAKER'S RESIDENCE, APN 500-0-393-370, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED AUGUST 23, 2005.

CONSULTING ENGINEERS

May 29, 2018

Project No. 5740

Charles Pinneo 15498 Lapeyre Court Moorpark, CA 93021

SUBJECT:

ADDENDUM GEOTECHNICAL ENGINEERING REPORT, RESPONSE TO THE COUNTY OF VENTURA PUBLIC WORKS AGENCY, REVIEW OF GRADING PERMIT: 17-0019- 2nd PLAN CHECK, PROPOSED GRADING AND CONSTRUCTION OF RIDING ARENAS, ROUND PEN, PASTURES AND RELATED EQUESTRIAN IMPROVEMENTS, PINNEO RIDING AREA, APN 500-0-393-370, 15498 LAPEYRE COURT, MOORPARK, COUNTY OF VENTURA, CALIFORNIA.

REFERENCES:

UPDATE GEOTECHNICAL ENGINEERING REPORT AND CHANGE OF GEOTECHNICAL CONSULTANT OF RECORD, PROPOSED GRADING AND CONSTRUCTION OF RIDING ARENAS, ROUND PEN, PASTURES AND RELATED EQUESTRIAN IMPROVEMENTS, PARCEL 4 56 PM 84, APN 500-0-393-370, 15498 LAPEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY CALWEST GEOTECHNICAL, PROJECT NO. 5740, DATED MARCH 23, 2017.

GRADING AND DRAINAGE PLAN, PARCEL 4 56 PM 84, APN 500-0-393-370, 15498 LAPEYERE COURT, MOORPARK, CALIFORNIA, PREPARED BY LC ENGINEERING GROUP, INC., PROJECT NO. 7167, DATED MAY 26, 2016.

GEOLOGIC AND SOILS ENGINEERING REPORT FOR PROPOSED BARNS AND WATER TANK, GP9771, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED OCTOBER 26, 2006.

ADDENDUM TO OUR GEOLOGIC AND GEOTECHNICAL ENGINEERING REPROT ON COMPLETED ROUGH GRADING FOR PROPSOED SINGLE FAMILY RESIDENCE, GUEST HOUSE, AND ACCESS DRIVEWAY, GP9771, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED NOVEMBER 4, 2005.

GEOLOGIC AND GEOTECHNICAL ENGINEEING REPORT ON COMPLETED ROUGH GRADING FOR PROPOSED SINGLE FAMILY RESIDENCE, GUEST HOUSE, AND ACCESS DRIVEWAY, GP9771, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED OCTOBER 24, 2005.

RESPONSE TO COUNTY OF VENTURA RESOURCE MANAGEMENT AGENCY, ENVIRONMENTAL HEALTH DIVISION REVIEW FOR PROPOSED SINGLE FAMILY RESIDENCE, GUEST HOUSE, AND CARETAKER'S RESIDENCE, APN 500-0-393-370, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED AUGUST 23, 2005.

UPDATED GEOLOGIC/GEOTECHNICAL ENGINEERING REPORT AND GRADING PLAN REVIEW, PROPOSED SINGLE FAMILY RESIDENCE, GUEST HOUSE, CARETAKER'S RESIDENCE, BARN, ARENA, AND ACCESS DRIVEWAYS, PARCEL 4, PARCEL MAP NO. 4878, La PEYERE COURT, TIERRA REJADA VALLEY, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARE B GOLD COAST GEOSERVICES, FILE NO. GC04-0811964, DATED SEPTEMBER 27, 2004.

ADDITIONAL REFERENCES ARE LISTED IN THE ABOVE REFERENCED REPORTS.

Introduction

This Addendum Geotechnical Engineering Report has been prepared at your request and is in response to the County of Ventura Public Works Agency Review of Grading Permit:17-0019 – 2ND Plan check, Pinneo Riding area, APN 500-0-393-370, 15498 Lapeyre Court, Moorpark, California, dated May 4, 2018, included in Appendix A. The Review Sheet requests additional information and/or clarification to one Geotechnical/Geologic Review Comment, prior to approval. For convenience to the reviewer, the review item is restated, followed immediately by our response.

1. Geotechnical/Geological Review:

The submitted plan by LC Engineering group indicates about 15,000 yards of import to the project, but does not provide any characteristics for the import or processing recommendations. Please provide.

Response: Based on our consultation with the client and the project civil engineer, LC Engineering Group, Inc, approximately 15,000 cubic yard of import soil will be required to complete the proposed grading for the equestrian improvements at the subject site. All import sources and material should be approved by a representative of this office prior to transport to the site. The import material should be comparable to the onsite native soil and alluvium with a low to moderate expansive potential. The import should not include highly expansive soil. Lastly, all import material should be tested and approved in our laboratory prior to transport to the site.

SITE PREPARATION AND GRADING

All grading operations should be performed in compliance with all applicable grading codes and the minimum specifications outlined below. Observation and testing will be necessary during these phases of the project to allow CalWest Geotechnical to provide certification of the finished project.

Site Preparation and Excavation

A. Any trees or shrubs designated for removal should be cut down and all stumps and roots should be removed. All major vegetation, organic soil and debris material should be stripped and wasted from the site.

B. The exposed surface should be scarified to a minimum depth of six (6) inches, moisture conditioned to produce a soil-water content of about two (2) percent above optimum moisture content and compacted to a minimum 90 percent relative compaction, based on ASTM Test D1557.

Placement

- A. Soil material to be placed as certified compacted fill may be placed to design grades using onsite inorganic soils or approved import. All fill placed on sloping ground (greater than 5:1 H:V) should be keyed and benched as described below under "Keyways, Benching, and Subdrains".
- B. Soil proposed for use as structural fill should be inorganic, free from deleterious materials, and contain no more than 15 percent by weight of rocks larger than four (4) inches (largest dimension).
- C. Rocks larger than six (6) inches should not be placed in the upper ten (10) feet of any certified compacted fill.
- D. Where in-place moisture content exceeds optimum values, the materials may need to be spread and dried, or mixed with dryer material. Final determination will be provided in the field by the project geotechnical consultants at the time the excavations take place.
- E. Soil material containing excessive organic debris will not be suitable for use in the certified compacted fill. Materials deemed unsuitable should be wasted offsite or as designated by the project architect or geotechnical consultant.
- F. The approved material should be placed in layers, each not exceeding eight (8) inches in thickness (before compaction), water conditions to about two percent above optimum moisture content and compacted to a minimum 90 percent relative compaction based on ASTM Test D1557.
- G. Fill compaction tests should be performed during placement of the future fills to verify acceptable compaction and moisture content. At a minimum, one test should be performed within each 12 to 24 inches (vertical depth) or 500 cubic yards of fill (whichever is less). More frequent testing may be required by the geotechnical consultant.
- H. Graded cut slopes and fill slopes should be constructed at a maximum gradient of 2:1 (H:V). Fill slopes should be constructed by overfilling and cutting back to the compacted core.
- I. If construction takes place during the winter months or unseasonable rainy periods, additional winterizing and erosion-control recommendations may be necessary.

Keys, Benching, and Subdrains

- A. All fill placed on slopes exceeding a 5:1 (H:V) gradient should be provided with a keyway at the toe of the slope. The keyway should have a minimum width of 10 feet and extend below the surficial soil to expose a minimum of two (2) feet of dense alluvial deposits or site bedrock on the downhill side of the key. The bottom of the key should be inclined into the slope at a minimum gradient of two (2) percent.
- B. Fill placed above the level of the keyway should be placed above horizontal benches excavated into site bedrock. Benches should be a minimum width of four (4) feet. A minimum 12" of site bedrock material must be visible above the fill level at all times.
- C. Subdrains should be placed below all canyon fills and in all fill slope keyways. Subdrains should consist perforated SDR-35 PVC pipe placed with the perforations downward in a blanket of ¾-inch durable aggregate such that the subdrain pipe is surrounded by a minimum 12 inches of gravel on all sides. The gravel blanket should be wrapped with a geosynthetic filter such as Mirafi 140 or suitable equivalent. Fabric joints should be overlapped a minimum of three (3) feet. Minimum specifications for pipe diameter, aggregate volume and fabric width are provided as follows:

Run Length (ft)	Pipe Diameter (in)	Aggregate Volume (ft)	Fabric Width (ft)
0-200	4"	4.5	10.5'
200 – 400	6"	5.0	11.0'
400 – 600	8"	5.6	11.5'

The project geotechnical consultant should observe and approve all subdrain installations prior to placing compacted fill.

Summary and Conclusions

Cal West Geotechnical has prepared this Addendum Geotechnical Report in response to the subject County of Ventura Public Works Agency, review of Grading Permit- 17-0019- 2nd Plan check, dated May 4, 2018, included in Appendix A.

Based on our response provided herein, and the geotechnical data/ recommendations presented in this and our referenced reports, it continues to be the opinion of this office the proposed grading and construction of riding arenas, round pen, pastures and related equestrian improvements is considered

feasible from a geotechnical engineering point of view, providing our recommendations are made part of the final design plans and implemented during construction.

Limitations and Uniformity of Conditions

This report is prepared for use by Charles Pinneo and his authorized agents and should not be considered transferable. Prior to use by others, the subject site and this report should be reviewed by Cal West Geotechnical to determine if any additional work is required to update this report.

The findings presented in this report are valid as of this date and may be invalidated wholly or partially by changes outside our control. Therefore, this report should be subject to review and should not be relied upon after a period of one year or if any significant changes are made.

The professional opinions and geotechnical advice contained in this report are not intended to imply total performance of the project or guarantee that unusual conditions will not be discovered during or after construction.

This report has been prepared in accordance with generally accepted engineering practices and makes no warranties, either expressed or implied, as to the professional opinions provided in this report.

Should you have any questions, please don't hesitate to call.

Respectfully submitted,

Leonard Liston
President
RCE 31902

ROBERSOLON

No. 31902

Exp. Dec. 2018

CIVIL RIP

CONTROL

Eli Katibah Staff Engineer

Enc: Appendix A - County of Ventura Public Works Agency, Review letter, dated October May 4, 2018.

cc: LC Engineering Group Inc.

APPENDIX

A

county of ventura



JEFF PRATT

Agency Director

Central Services Department

J. Tabin Costo, Director

Engineering Services Department Christopher Cooper, Director

> Transportation Department David Fleisch, Director

Water & Sanitation Department Michaela Brown, Director

Watershed Protection District Glenn Shephard, Director

May 4, 2018

LC Engineering Group 889 Pierce Court, Suite 101 Thousand Oaks, California 91360

Subject:

Grading Permit: 17-0019 - 2nd Plancheck

Pinneo, Riding Area, etc. [15498 Lapeyre Court, Moorpark

APN: 500-0-393-370

Reference:

 Calwest Geotechnical, March 23, 2017, Update Geotechnical Engineering Report and Change of Consultant of Record, Proposed Grading and Construction of Riding Arenas, Round Pen, Pastures and Related Equestrian Improvements, Parcel 4 56 PM 84, APN 500-0-393-270, 15498 Lapeyre Court, Moorpark Area, County of Ventura.

The second submittal was accepted by the County on April 3, 2018. The grading plans had significant changes to the design of the plan and most noticeably the project requires 15,000 cubic yards of imported earth material and will be placed on average slope gradient of 27 percent.

COMMENTS:

Due to the proposed project exceeding excavation or fill of 10,000 cubic yard coupled with the existing average natural slope within the area to be graded exceeding 10% (VCBC §J103.3), the project appears subject to a discretionary grading permit. Unless the proposed project's excavation or fill can be reduced to less than an 10,000 cubic yards or it can be demonstrated that the average natural slope of existing area to be graded is less than 10% the project will require a discretionary grading permit.

Due to the location of the project relative to archaeological records (Section 1.8 of the Ventura County General Plan Resource Appendix 2011 edition) on file with the Resource Management Agency, the project is also subject to a discretionary grading permit. You will need to provide "Phase 1 Archaeological Survey" for the area prepared by a qualified Archaeologist. Otherwise, this item maybe presented with the discretionary grading permit.



Due to the amount of imported earth material, the grading code only permits up to 10 trucks per day with a ministerial permit, however, prior to submitting the discretionary permit application you should determine how trucks per day the project requires and provide that information in the project description.

DISCRETIONARY GRADING PERMIT PROCESS

A discretionary grading permit application requires approval from a decision by the building official with consideration of an environmental review for potential impacts and a public hearing.

A discretionary grading permit application would be distributed to other County agencies (Watershed Protection District, Environmental Health, Air Pollution Control District, Fire District, Sheriff, General Services, Etc.) for input and special considerations.

All discretionary permit applications are subject to the California Environmental Quality Act (CEQA) and reviewed to determine whether they are exempt from environmental review or require a Negative Declaration or Environmental Impact Report (EIR). If a Negative Declaration or EIR is required, State law requires a certain amount of public review for the document.

Once an application has been deemed complete, State Law requires that a decision be made within either 6 months or 1 year depending on the type of environmental document prepared for the project. In Ventura County, most discretionary grading permit applications can take 5-8 months to process from the date the application is deemed complete.

The time and costs associated with processing a discretionary grading permit varies widely depending on the type and the complexity of the project. Estimates of processing time and costs have been identified and based on historic data; a initial deposit of \$6485.00 would be required to initiate the processing of the discretionary grading permit. The deposit is only an initial estimate used to cover the actual cost of permit processing. After the deposit is exhausted, a monthly bill is sent to the applicant requesting payment for staff time spent on the project. In addition, separate fees may be charged by other County agencies (e.g., Environmental Health, Public Works Agency, etc.) for their review and processing.

The project may also require a Conditional Use Permit from Planning and it would be best to combine the discretionary grading into the Conditional Use permit with Planning. Please check with Planning Department and provide a zoning clearance number.



Geotechnical/Geological Review:

The Geotechnical Report has been reviewed and the following comments are provided:

The submitted plan by LC Engineering group indicates about 15, 000 yards of import to the project, but does not provide any characteristics for the import or processing recommendations. Please provide.

Grading & Drainage Review:

A complete submittal is required to continue the plancheck process. Please provide all the items missing from the grading permit submittal. The following are the items missing or incomplete from the submittal:

- Address all √(checked) items as identified on DS-Form 5.
- Address and/or respond to all redline comments on the plan.
- The grading plans cannot be approved until documentation form Planning regarding the necessity for a Conditional Use Permit or Zoning Clearance (if not) has been provided. Conditions in the approval in a future land use permit may require additional requirements for the grading plan.
- Provide a drainage study or hydrology report. The requirements of J105.2.2 –
 Engineered Grading Requirements are applicable and the hydrology report
 submitted must demonstrate that the proposed site drainage design will either
 retain or detain the difference from predevelopment to post development
 conditions for several storm frequencies (report is missing some). Please use
 the Hydrology Manual, Section 6.15.1 100-Year Undeveloped Condition
 Peak Mitigation for the mitigation calculations. The pre and post development
 subareas should be identical in the analysis.

Storm Water Quality:

Please respond to the Stormwater/Water Quality Plancheck Review Memo, dated April 30, 2018.

Please respond to the plan check reviews. A response to comments may be added directly to the Grading Plan Checklist and/or the marked up. The revised plans should be submitted along with the marked up plans and checklist. When new information is provided after a plan check review due to corrections or otherwise, additional plan review time may be necessary upon resubmittal. Review of new information may result in additional comments and require corrections.

Any forms missing from the submittal can be downloaded from the PWA Development & Inspection Services website at http://vcpublicworks.org/dis.



To ensure that the plancheck is performed in an expedited manner, please return all of the enclosed materials and provide responses to all comments. If the plan preparer feels a comment is not applicable, please state so and provide justification.

If you have, any further questions please feel free to contact me at (805) 654-2034. For any questions related to the Stormwater Quality Review, contact David Kirby at (805) 662-6737.

Sincerely,

James OTousa | Engineering Manager II

Public Works Agency | Engineering Services Dept.

Development & Inspection Services

Jim.OTousa@ventura.org

(805) 654-2034

Encl:

Grading Plans with redline comments (1 Set)

Grading Plan Checklist (DS-35)

County Stormwater Program Section – 1st Plan Review.

March 23, 2017

Project No. 5740

Charles Pinneo 15498 Lapeyre Court Moorpark, CA 93021

SUBJECT:

UPDATE GEOTECHNICAL ENGINEERING REPORT AND CHANGE OF GEOTECHNICAL CONSULTANT OF RECORD, PROPOSED GRADING AND CONSTRUCTION OF RIDING ARENAS, ROUND PEN, PASTURES AND RELATED EQUESTRIAN IMPROVEMENTS, PARCEL 4 56 PM 84, APN 500-0-393-370, 15498 LAPEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA.

REFERENCES: GRADING AND DRAINAGE PLAN, PARCEL 4 56 PM 84, APN 500-0-393-370, 15498 LAPEYERE COURT, MOORPARK, CALIFORNIA, PREPARED BY LC ENGINEERING GROUP, INC., PROJECT NO. 7167, DATED MAY 26, 2016.

> GEOLOGIC AND SOILS ENGINEERING REPORT FOR PROPOSED BARNS AND WATER TANK, GP9771, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED OCTOBER 26, 2006.

> ADDENDUM TO OUR GEOLOGIC AND GEOTECHNICAL ENGINEERING REPROT ON COMPLETED ROUGH GRADING FOR PROPSOED SINGLE FAMILY RESIDENCE, GUEST HOUSE, AND ACCESS DRIVEWAY, GP9771, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED NOVEMBER 4, 2005.

> GEOLOGIC AND GEOTECHNICAL ENGINEEING REPORT ON COMPLETED ROUGH GRADING FOR PROPOSED SINGLE FAMILY RESIDENCE, GUEST HOUSE, AND ACCESS DRIVEWAY, GP9771, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED OCTOBER 24, 2005.

> RESPONSE TO COUNTY OF VENTURA RESOURCE MANAGEMENT AGENCY, ENVIRONMENTAL HEALTH DIVISION REVIEW FOR PROPOSED SINGLE FAMILY RESIDENCE, GUEST HOUSE, AND CARETAKER'S RESIDENCE, APN 500-0-393-370, 15498 La PEYRE COURT, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARED BY GOLD COAST GEOSERVICES, INC., FILE NO. GC04-081964, DATED AUGUST 23, 2005.

> UPDATED GEOLOGIC/GEOTECHNICAL ENGINEERING REPORT AND GRADING PLAN REVIEW, PROPOSED SINGLE FAMILY RESIDENCE, GUEST HOUSE, CARETAKER'S RESIDENCE, BARN, ARENA, AND ACCESS DRIVEWAYS, PARCEL 4, PARCEL MAP NO. 4878, La PEYERE COURT, TIERRA REJADA VALLEY, MOORPARK AREA, COUNTY OF VENTURA, CALIFORNIA, PREPARE B GOLD COAST GEOSERVICES, FILE NO. GC04-0811964, DATED SEPTEMBER 27, 2004.

INTRODUCTION

This Update Geotechnical Engineering Report and Change of Geotechnical Consultant of Record presents the results of our geotechnical engineering review and evaluation performed for the proposed grading and construction of riding arenas, round pen, pastures and related equestrian improvements at 15498 La Peyre Court, Moorpark area, County of Ventura, California. The Location Map in Appendix A shows the approximate location of the subject site and surrounding vicinity. The following report describes our scope of work and presents our professional opinions regarding the proposed improvements, in the form of findings, conclusions and geotechnical recommendations.

This Update Geotechnical Engineering Report is based on information contained in the referenced reports prepared by Gold Coast Geoservices, Inc., review of the Grading and Drainage Plan, prepared by LC Engineering Group, Inc., and a recent site reconnaissance by a representative of this office. The site reconnaissance was performed to visually evaluate changes in the surface condition of the subject site subsequent to the preparation of the referenced reports.

SCOPE OF WORK

Our geotechnical review and evaluation has been directed at identification and evaluation of geotechnical conditions at the subject site that may impact the proposed improvements. Our review and evaluation was conducted during January through March 2017 and included, but may not be limited to the following tasks:

- Consultation with the client and project civil engineer, LC Engineering Group Inc., during the site reconnaissance and preparation of this report.
- Review of the referenced reports, County correspondence, and the current site Grading and Drainage Plan.
- Reviewed published geotechnical information, relevant to the site and surrounding areas, available in our files.
- Review of pertinent records on file at the County of Ventura Department of Public Works.
- Performed a site reconnaissance to assess surficial conditions at the subject site.
- Preparation of a Geotechnical Map and Cross-sections, utilizing as a basis, the Grading and Drainage Plan prepared by LC Engineering Group, Inc. The Geotechnical Map and Crosssections are included in Appendix C. We make no representations regarding the accuracy of the supplied Grading and Drainage Plan.
- Review and geotechnical engineering analysis of the available geotechnical data.

 Preparation of this formal report presenting our professional opinions regarding the proposed improvements, in the form of findings, conclusions and geotechnical recommendations.

PROPOSED IMPROVEMENTS

Information concerning the proposed improvements was provided by the client and project civil engineer, LC Engineering Group, Inc. It is our understanding the proposed improvements will consist of grading and construction of riding arenas, round pen, pastures, drainage devices, and related equestrian improvements at the subject site.

Grading associated with the proposed improvements will include the removal and recompaction of the near surface soils to a certified fill condition, in order to provide for a uniform subgrade in the area of the proposed improvements. Cut and fill graded slopes are proposed at a maximum gradient of 2:1(H:V). Grading will also include fine grading to provide for proper site drainage. Grading devices also include the installation of a 24" stand pipe and associated head wall at the north end of the site to collect and transfer drainage to a suitable location. Specific grading recommendations are presented in later sections of this report. The Geotechnical Map and Cross-sections included in Appendix C delineate the topographic conditions and approximate locations of the proposed site improvements.

SITE DESCRIPTION

The subject site consists of an approximate ten acre parcel located in the Tierra Rejada Valley, Moorpark area, County of Ventura, California. The subject site is bound by Tierra Rejada Road to the north, La Peyre Road to the east and open space to the south and southwest, with agricultural and equestrian land use within the subject site and surrounding properties. The subject site also contains an existing residence at the northeast portion of the site and a guest house, barns and riding horse arena at the northwestern portion of the site with access driveways. The northeastern and northwestern portion of the site is relatively level with surface drainage directed to the south. A north to south trending ravine crosses the central portion of the subject site. The east side of the ravine consists of ascending slopes ranging in gradient from 4:1 (H:V) to 2.5:1 (H:V) for an overall height of approximately 22 feet. The west side of the ravine consists of ascending slopes raging in gradient from 4:1 (H:V) to 3:1 (H:V) for an overall height of approximately 30 feet.

It is proposed to fill in the existing ravine with certified compacted fill with a graded fill slope at an approximate gradient 2:1 (H:V) along the southern portion of the site and a level pad area at the north portion. The grading will be performed from an approximate lowest elevation at the bottom of the ravine of 673 feet to the proposed finish grade elevation at the pad area of approximately of 700 feet. The existing and proposed topographic conditions of the subject site are presented on the Geotechnical Map and Cross-sections included Appendix C.

PREVIOUS GEOTECHNICAL STUDIES

Based on our research, the subject site was previously investigated by Gold Coast Geoservices, Inc., circa 2004-2006 for the previously proposed single family residence, guest house, caretaker's residence, barn, arena, and access driveways. Their investigation included in part, the excavation logging and sampling of fifteen (15) exploratory backhoe trenches.

Gold Coast Geoservices, Inc., concluded that the subject site was suitable for the proposed project provided their recommendations were implemented during design and construction. Detailed findings, conclusions and recommendations of their investigations are presented in the referenced reports on file at the County of Ventura Department of Public Works.

Gold Coast Geoservices, Inc., prepared a Geologic and Geotechnical Engineering Report on Completed Rough Grading for the single family residence, guest house, and associated access driveway, dated October 24, 2005. The referenced report indicates the building pads for the residences and access driveway were prepared via conventional cut and fill grading procedures. The proposed residence and guest house were each provided with a minimum of five (5) feet thick compacted fill blanket. The compacted fill extended a minimum of five (5) feet beyond the building footprint. A copy of the Rough Grade Compaction Map included in the referenced report prepared by Gold Coast Geoservices, Inc., delineating the limits of the certified compacted fill is included in Appendix C. Detailed findings, conclusions and recommendations are presented in the referenced report, dated October 24, 2005 on file at the County of Ventura Department of Public Works.

CalWest Geotechnical has reviewed the referenced reports prepared by Gold Coast Geoservices, Inc., and accepts responsibility as geotechnical consultant of record for the current proposed improvements.

SUBSURFACE CONDITIONS

Subsurface conditions beneath the subject site have been interpreted and characterized based on the subsurface investigation performed at the subject site by Gold Coast Geoservices, Inc. As previously mentioned, the subsurface exploration included fifteen (15) exploratory backhoe trenches within the subject site. Gold Coast Geoservices, Inc., observed during their subsurface exploration includes soil and alluvium deposits over sandstone and Conejo Volcanic bedrock.

The descriptions provided below pertain only to subsurface conditions revealed at the time of their field exploration in 2004-2006. Certain subsurface conditions, such as groundwater levels and the consistency of near-surface soils may vary with the seasons.

The logs of the exploratory backhoe trenches prepared by Gold Coast Geoservices, Inc., are included in Appendix B.

SEISMIC CONSIDERATIONS

The subject site, as all of the Southern California area, is located in a seismically active region and will be subject to moderate to strong ground shaking should any of the active Southern California faults produce an earthquake. Potential hazards from earthquakes in the vicinity of the site, aside from strong ground shaking, may include fault rupture, landslides, liquefaction, and seismically induced settlement.

California Building Code 2016 Seismic Parameters

Section 1613 of the California Building Code 2016 provides load specifications for seismic design and related parameters for every structure, including non-structural components that are permanently attached to the structure. CBC 2016 seismic load design parameters are shown in tabulated format below:

Table 1. CBC 2016 SEISMIC DESIGN PARAMETERS

Parameter	Value	Reference
Site Latitude	34.2642 ⁰	-
Site Longitude	-118.8383 ⁰	-
Short term mapped acceleration parameter (0.2 second)	$S_S = 2.423$ g	USGS
Long term mapped acceleration parameter (1-second)	$S_I = 0.864$ g	USGS

Parameter	Value	Reference		
Site Classification	В	ASCE 7 Table 20.3-1		
Site Coefficient value (short term)	Fa = 1.0	CBC 2016 Table 1613.3.3.(1)		
Site Coefficient value (long term)	Fv = 1.0	CBC 2016 Table 1613.3.3.(2)		
Adjusted maximum considered earthquake spectral response acceleration parameter (short term)	$S_{MS} = 2.423g$	Eq. 16-37 CBC 2016		
Adjusted maximum considered earthquake spectral response acceleration parameter (long term)	$S_{M1} = 0.864g$	Eq. 16-38 CBC 2016		
Design spectral response acceleration parameter (short term)	S _{DS} =1.616g	Eq. 16-39 CBC 2016		
Design spectral response acceleration parameter (long term)	S _{D1} =0.575g	Eq. 16-40 CBC 2016		

Faulting and Fault Rupture

A fault is a discontinuity in the lithology of earth's crust. Occasionally, faults are sources of earthquakes due to movement along the defined fault plane resulting in sudden release of energy. Sites near seismically active faults can experience vigorous shaking due to sudden release of seismic energy. Fault movement can also propagate to the surface, resulting in fault surface rupture.

The subject property is not located within a State-designated Earthquake Fault Zone and no known potentially active or potentially active faults cross the site. Adverse effect due to fault surface rupture is considered to be low to nil for the proposed development. Surface manifestations of any fault rupture are unlikely to impact future development.

SLOPE STABILITY

Slope stability analyses were not prepared as part of this report; since, as previously stated, the area of the proposed improvements is practically level to gently sloping terrain at an approximate gradient of 4:1 (H:V) to 3:1 (H:V). Accordingly, the subject site is considered to be grossly stable from a geotechnical point of view.

FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

CalWest Geotechnical has prepared this Update Geotechnical Engineering Report and Change of Geotechnical Consultant for the proposed grading and construction of riding arenas, round pen, pastures, drainage devices, and related equestrian improvements at 15498 La Peyre Court, Moorpark area, County of Ventura, California. Based upon our geotechnical engineering review and evaluation, as presented in this report, it is the opinion of CalWest Geotechnical the proposed improvements are considered feasible from a geotechnical engineering standpoint, provided our recommendations are made part of the development plans and are implemented during construction.

As previously stated, the proposed improvements will consist of grading and construction of riding arenas, round pen, pastures, drainage devices, and related equestrian improvements at the subject site.

Grading associated with the proposed improvements will include the removal and recompaction of the near surface soils to a certified fill condition, in order to provide for a uniform subgrade in the area of the proposed of riding arenas, round pen, pastures and related equestrian improvements. Cut and fill graded slopes are proposed at a maximum gradient of 2:1(H:V). Grading will also include fine grading to provide for proper site drainage. Grading devices also include the installation of a 24" stand pipe and associated head wall at the north end of the site to collect and transfer drainage to a suitable location. Specific grading recommendations are presented in later sections of this report. The Geotechnical Map and Cross-sections included in Appendix C delineate the topographic conditions and approximate locations of the proposed site improvements.

The recommendations which follow are presented as guidelines to be utilized during the design and construction of the proposed project, and have been prepared with the understanding that CalWest Geotechnical will be given the opportunity to review the improvement plans prior to construction, and will observe, test and advise during site grading and foundation construction to allow this office to provide certification of the finished project. Prior to construction, it is recommended that a meeting be held with the project engineering consultants, owner and general contractor to review the plans and specifications, and to discuss scheduling of the project.

SITE PREPARATION, GRADING, COMPACTION AND UTILITY TRENCH BACKFILL

All grading operations should be performed in compliance with all applicable grading codes and the minimum specifications outlined below. Observation and testing will be necessary during these phases of the project to allow CalWest Geotechnical to provide certification of the finished project.

Site Preparation and Excavation

- A. Any trees or shrubs designated for removal should be cut down and all stumps and roots should be removed. All major vegetation, organic soil and debris material should be stripped and wasted from the site.
- B. All abandoned utility lines designated for removal should be excavated and removed from the site. Unreinforced concrete irrigation lines may be crushed to a size acceptable to the geotechnical consultants and distributed in the future compacted fill. Abandoned cesspools and seepage pits encountered during grading should be excavated under the observation of a representative of this office and backfilled with pea gravel, or where possible, with certified compacted fill.
- C. All artificial fill and near surface soils, and any upper alluvium, located in areas to be constructed upon with paving or in areas to receive certified compacted fill, should be excavated to a minimum depth below to expose the dense natural alluvium or site bedrock. The approximate horizontal and vertical extent of these excavations should be verified by the project geotechnical consultants in the field.
- D. The soil surface exposed by stripping and excavation activities should be scarified to a minimum depth of eight inches, moisture conditioned to produce a soil-water content of about two percent above optimum moisture content and compacted to a minimum 90 percent relative compaction, based on ASTM Test D1557.
- E. For preliminary planning purposes, the following earth quantities may be implemented. Soil shrinkage is estimated on the order of 10 to 15 percent due to excavation and recompaction during the grading operation at the subject site. The volume change does not include an allowance for vegetation or organic stripping, removal of subsurface improvements or topographic anomalies.
- F. The exposed surface should be scarified to a minimum depth of six (6) inches, moisture conditioned to produce a soil-water content of about two (2) percent above optimum moisture content and compacted to a minimum 90 percent relative compaction, based on ASTM Test D1557.

Placement

- A. At the completion of scarification, certified compacted fill may be placed to design grades using onsite inorganic soils or approved import. All fill placed on sloping ground (greater than 5:1 H:V) should be keyed and benched as described below under "Keyways, Benching, and Subdrains".
- B. Soil proposed for use as structural fill should be inorganic, free from deleterious materials, and contain no more than 15 percent by weight of rocks larger than four (4) inches (largest dimension).
- C. We do not anticipate significant quantities of oversized materials; however, if excavations within well-cemented bedrock units produce irreducible rock that exceeds a maximum dimension of 12 inches, it should not be placed in certified compacted fill without specific geotechnical approval of the material, the disposal location and the disposal method. All disposal areas for oversized materials should be mapped by the project geotechnical consultant and indicated on the final asbuilt geotechnical map.
- D. Rocks larger than six (6) inches should not be placed in the upper ten (10) feet of any certified compacted fill.
- E. We expect that materials excavated onsite will be suitable for use as certified compacted fill provided they do not contain appreciable quantities of organic debris.
- F. Where in-place moisture content exceeds optimum values, the materials may need to be spread and dried, or mixed with dryer material. Final determination will be provided in the field by the project geotechnical consultants at the time the excavations take place.
- G. Excavated material containing excessive organic debris will not be suitable for use in the certified compacted fill. Materials deemed unsuitable should be wasted offsite or as designated by the project architect or geotechnical consultant.
- H. The approved material should be placed in layers, each not exceeding eight (8) inches in thickness (before compaction), water conditions to about two percent above optimum moisture content and compacted to a minimum 90 percent relative compaction based on ASTM Test D1557.
- I. Fill compaction tests should be performed during placement of the future fills to verify acceptable compaction and moisture content. At a minimum, one test should be performed within each 12 to 24 inches (vertical depth) or 500 cubic yards of fill (whichever is less). More frequent testing may be required by the geotechnical consultant.

- J. Graded cut slopes and fill slopes should be constructed at a maximum gradient of 2:1 (H:V). Fill slopes should be constructed by overfilling and cutting back to the compacted core.
- K. If construction takes place during the winter months or unseasonable rainy periods, additional winterizing and erosion-control recommendations may be necessary.

Keys, Benching, and Subdrains

- A. All fill placed on slopes exceeding a 5:1 (H:V) gradient should be provided with a keyway at the toe of the slope. The keyway should have a minimum width of 10 feet and extend below the surficial soil to expose a minimum of two (2) feet of dense alluvial deposits or site bedrock on the downhill side of the key. The bottom of the key should be inclined into the slope at a minimum gradient of two (2) percent.
- B. Fill placed above the level of the keyway should be placed above horizontal benches excavated into site bedrock. Benches should be a minimum width of four (4) feet. A minimum 12" of site bedrock material must be visible above the fill level at all times.
- C. Subdrains should be placed below all canyon fills and in all fill slope keyways. Subdrains should consist perforated SDR-35 PVC pipe placed with the perforations downward in a blanket of ¾-inch durable aggregate such that the subdrain pipe is surrounded by a minimum 12 inches of gravel on all sides. The gravel blanket should be wrapped with a geosynthetic filter such as Mirafi 140 or suitable equivalent. Fabric joints should be overlapped a minimum of three (3) feet. Minimum specifications for pipe diameter, aggregate volume and fabric width are provided as follows:

Run Length (ft)	Pipe Diameter (in)	Aggregate Volume (ft)	Fabric Width (ft)
0-200	4"	4.5	10.5'
200 – 400	6"	5.0	11.0'
400 – 600	8"	5.6	11.5'

The project geotechnical consultant should observe and approve all subdrain installations prior to placing compacted fill.

Utility Trench Backfill

Contractors should strictly adhere to specifications set forth in the State of California Construction Safety Orders for "Excavations, Trenches, Earthwork". For the purposes of this section of the report, bedding is defined as material placed in a trench up to two (2) feet above a utility pipe, and backfill is defined as all material placed in a trench above the bedding.

- A. Unless concrete bedding is required around utility pipes, free-draining sand should be used as bedding. Sand proposed for use in bedding should be tested in our laboratory to verify its suitability and to measure its compaction characteristics. Sand bedding should be compacted to achieve at least 90 percent relative density based on ASTM Test D1557.
- B. Ponding and jetting compaction methods are not permitted.
- C. Until the total backfill above the top of the pipe exceeds two (2) feet, machine-placed backfill material should not be allowed to *freefall* more than two (2) feet.
- D. Approved, onsite, inorganic soil or imported materials may be used above the base as utility trench backfill. If imported material is proposed for this use, a sample should be tested and approved by the project geotechnical engineer before any is delivered to the site.
- E. Proper compaction of trench backfill will be necessary under and adjacent to certified compacted fill, building foundations, concrete slabs and vehicle pavements. In these areas, backfill should be conditioned with water to produce a soil-water content of about two percent above optimum content, and placed in horizontal layers not exceeding six (6) inches in thickness (before compaction).
- F. Each layer should be compacted to at least 90 percent relative compaction based on ASTM Test D1557. The upper 12 inches of trench backfill under vehicle pavements should be compacted to at least 95 percent relative compaction.
- G. Where any trench crosses the perimeter foundation line of any building, the trench should be completely plugged and sealed with compacted clay soil for a horizontal distance of two feet on either side of the foundation.

TEMPORARY EXCAVATIONS AND SHORING

All excavations in alluvium deposits or site bedrock that exceed five (5) or eight (8) feet in vertical height, respectively, should have the upper portion trimmed to a 1:1 (H:V) gradient. Otherwise, these excavations should be supported by slot-cutting or by a temporary shoring system.

The geotechnical consultants should be present during grading to observe the temporary excavation. All excavations should be stabilized within 30 days of initial excavation. Water should not be allowed to pond on top of the excavations, nor to flow towards it. No vehicular surcharge should be allowed within five (5) feet of the top of the cut.

FOUNDATIONS

Conventional Spread Footings: The foundation of the proposed round pen, any ancillary site structures, and the head wall may be comprised of continuous and isolated spread footings founded entirely into the future certified compacted fill, or entirely into sedimentary bedrock, and to a depth that complies with the foundation setback recommendations presented in the following sections of this report, or as specified by the project civil/structural engineer, whichever is deeper.

All continuous footings should be reinforced with a minimum of two #4 steel bars placed near the top and bottom of the footing. Reinforcement for pad footings should be specified by the project civil/structural engineer. Footings may be sized utilizing the following design parameters:

FOUNDATIONS BEARING INTO FUTURE CERTIFIED COMPACTED FILL

Foundation Type	Minimum Width (in)	Maximum Vertical Bearing (psf)	Allowable Coefficient of Friction	Allowable Passive Earth Pressure (psf/ft depth)	Maximum Passive Earth Pressure (psf)	Minimum Embedment Depth (in)
Continuous	12	2000	0.30	300	4000	12
Pad	24	2000	0.30	300	4000	12

The bearing capacity may be increased by 10 percent for each additional foot of width or depth to a maximum bearing capacity of 3000 psf.

FOUNDATIONS BEARING INTO SEDIMENTARY BEDROCK

Foundation Type	Minimum Width (in)	Maximum Vertical Bearing (psf)	Allowable Coefficient of Friction	Allowable Passive Earth Pressure (psf/ft depth)	Maximum Passive Earth Pressure (psf)	Minimum Embedment Depth (in)
Continuous	12	2500	0.35	400	4000	12
Pad	24	2500	0.35	400	4000	12

The bearing capacity may be increased by 10 percent for each additional foot of width or depth to a maximum bearing capacity of 3500 psf.

The bearing values presented above are net bearing values; the weight of concrete below grade may be neglected. Embedment depths should be measured from the lowest adjacent grade.

LATERAL DESIGN

The passive resistance parameters provided above include the total dead plus frequently applied live loads. The passive parameters may be increased by a factor of one third $\binom{1}{3}$ for short duration loading, such as the effects of wind and seismic forces. When combining passive pressure and friction for lateral resistance the passive component should be reduced by a factor of one third $\binom{1}{3}$.

FOUNDATION SETTLEMENT

Settlement occurs as a result of stresses imposed on a soil. Typically, the most significant stress is the weight of structure(s). However, in certain soils, significant variation of moisture content may also induce volumetric strains. When water infiltrates the soil pore space, depending on the quantity, it has the potential to increase the density or reduce the effective overburden pressure and in certain soils it can reduce the matric suction or leach out cementing agents.

Considering the known consistency of the recommended bearing materials (i.e. certified compacted fill over dense older alluvium deposits or bedrock), seismically induced settlement is not anticipated to occur within the subject site.

Soils susceptible to seismically induced settlement are typically noncemented cohesionless soils such as dry and loose sands or gravels, which during ground shaking may reach higher relative densities, resulting in volumetric strain.

Moreover, soils susceptible to hydroconsolidation are characterized by internal support systems consisting of cementing or other bonding agents which may leach out during a wetting process, resulting in a sudden decrease in the volume of voids. Typical soils that are prone to this phenomenon include: loess, valley alluvium in a low-rain fall climate and certain residual porous clays. Nonetheless, considering the grading recommendations presented in previous sections of this report, hydroconsolidation is not expected to influence the proposed development.

Based on the anticipated foundation loading and corresponding foundation design, in accordance with the preceding sections of this report, the differential settlement is not expected to exceed a $^{1}/_{4}$ inch, in 20 feet, the maximum settlement is not expected to exceed $^{1}/_{2}$ inch for the proposed d improvements. The majority of the settlement, if any, should occur during the construction phase, with post construction settlement being within acceptable ranges for the proposed type of structure.

FOUNDATION SETBACK

The foundations of all structures should be embedded such that the minimum horizontal distance from the face of the slope to the bottom of the foundation is at least $^{1}/_{3}$ the overall height of the adjacent descending slope that is steeper than 3:1 (H:V). The minimum setback is five (5) feet; the maximum required setback is 40 feet.

BUILDING CLEARANCE FOR ASCENDING SLOPE

All structures should be located such that the minimum horizontal distance from the building to the toe of an ascending slope is at least $\frac{1}{2}$ the overall height of the ascending slope that is steeper than 3:1 (H:V), with a maximum required clearance of 15 feet.

RETAINING WALLS

Standard cantilevered retaining walls up to six (6) feet in height may be designed utilizing the following parameters. Retaining wall foundations should be designed in accordance with the recommendations presented in previous sections of this report. The design parameters presented below incorporate the active pressures, backfill gradient of the backfill material.

- A. The average bulk density of material placed on the backfill side of the wall will be approximately 125 pcf.
- B. Standard cantilever retaining wall, may be designed for the following equivalent fluid weights:
 - 35 pcf/ft for level backfill behind the retaining wall
 - 48 pcf/ft for 2:1 (H:V) slope behind the retaining wall

- C. An increase in these pressures may be necessary if vehicular traffic or any building structures are to be located adjacent to the retaining wall. Construction traffic and compaction equipment should be kept a minimum of three feet from the retaining wall unless these surcharges are accounted for in the design.
- D. Subdrains should be placed behind all retaining walls. Subdrains should consist of perforated SDR-35 PVC pipe placed with the perforations downward in a blanket of ³/₄" durable aggregate such that the subdrain pipe is surrounded by a minimum of 12" of gravel on all side. A curtain gravel drain (or approved equivalent), at least 12 inch thick, should extend from the subdrain pipe upwards to a height of two (2) feet below surface grade. Additionally, the gravel blanket should be wrapped with a geosynthetic filter fabric such as Mirafi 140 or a suitable equivalent. Fabric joints should be overlapped a minimum of three feet. Minimum specifications for pipe diameter, aggregate volume and fabric width are provided as follows:

SUBDRA	ATN	SPECIE	TCA	FIONS

Run Length (ft)	Pipe Diameter (in)	Aggregate Volume (ft³)	Fabric Width (ft)
0 - 200'	4"	4.5	10.5'
200 - 400'	6"	5.0	11.0'
400 - 600'	8"	5.6	11.5'

The project geotechnical consultant should observe and approve all subdrain installations prior to placing compacted fill.

E. Wall backfill areas not occupied by specified drainage materials should be backfilled with structural fill placed as specified above under "Site Preparation and Excavation, Fill Placement, and Utility Trench Backfill".

DRAINAGE AND MOISTURE PROTECTION

The site should be fine graded to direct drainage away from any structures. Drainage should not be allowed to pond anywhere on the pad, against foundations or pavements, and should be directed toward suitable collection discharge facilities. Where possible, the grade should slope away from buildings (i.e. foundations) at a minimum 5% grade for at least ten (10) feet.

To promote the rapid drainage of surface water from pavements and to minimize the risk of water ponding on pavements, we recommend that pavements be designed with surface gradients of at least one percent along principal directions of drainage. Water seepage or the spread of extensive root systems into the soil subgrades of foundations, slabs or pavements could cause differential movements and consequent distress in these structural elements. This potential risk should be given consideration in the landscape design.

ADDITIONAL SERVICES

It is recommended that this office be provided an opportunity for a general review of the final design plans and supporting documents for overall compliance with the recommendations presented in this report. Additionally, this office should be retained to provide services during grading, foundation excavation and overall construction phases of the project. Observation of foundation excavations should be performed prior to the placement of concrete and reinforcing steel to confirm that the foundations are founded in the recommended bearing materials. Field and laboratory testing of compacted fill should be performed to verify compliance with recommendations presented herein.

PLAN REVIEW

CalWest Geotechnical should review all final design plans and supporting documents. This will allow us to perform a general review for compliance with the recommendations presented in this report.

SITE OBSERVATIONS

Prior to the start of construction, we recommend that a meeting be held with the contractor to discuss the project and that a representative of CalWest Geotechnical be present at that meeting. We further recommend that CalWest Geotechnical perform the following tasks prior to, and during, the construction of the project:

- 1. Review all final design plans and supporting documents;
- 2. Observe and advise during all excavations (temporary, foundation and subgrade);
- 3. Observe and advise during the installation of sub drainage systems;
- 4. Observe, test and advise during all grading and placement of certified compacted fill;
- 5. Observe the construction of all temporary excavations and temporary shoring systems (if utilized).
- 6. Observe and test during placement of utility trench backfill.

ACKNOWLEDGEMENTS

California, historically, has experienced major destruction due to storms, flooding, firestorms, and earthquakes. The design of drainage control devices is based on rainfall records and the requirements of the authoritative building department agencies. Even so, the capacity of drainage devices often is exceeded, which results in considerable damage. Slopes associated with hillside developments, which have performed satisfactorily over a long period of time, in a majority of cases, could fail as a result, even though such slopes have been designed to the minimum standards set forth by the Uniform Building Code or other authoritative codes.

As for the design of earthquake forces, the records on which engineering design is based, have been accumulated over a relatively short time frame. Every earthquake provides new information and data as to the cause and effect of large earthquakes. As an example, the January 17, 1994 Northridge earthquake recorded ground accelerations that exceeded all previous earthquake records. In addition, the engineering industry has learned that there are many blind-thrust faults present in Southern California. The presence of these faults were known by petroleum geologists, but without much significance attached to the information by seismologists.

It should be understood that residential and commercial structures are constructed to the minimum standards as set forth by the California Building Code and other authoritative codes. Higher standards are utilized for hospitals, schools, and other critical structures, that must remain serviceable in the event of a disaster. Generally, Building Code requirements provide minimum standards to prevent catastrophic failure. Accordingly, it is believed that site structures are not likely to collapse, although considerable damage may occur.

PROPERTY OWNER'S RESPONSIBILITY

The property owner should care for drainage around the site structures and all graded slopes. To maintain the continued effectiveness of onsite drainage devices, there are important procedures that must be undertaken by the property owner on a regular basis. These procedures are specifically for drainage and debris protection, and therefore, the procedures should be performed prior to each rainy season, with sufficient time to allow for thorough maintenance.

In addition to maintenance of drainage devices, an inspection should be made for rodent activity. Small, burrowing rodents, such as ground squirrels and gophers, create avenues for infiltration of surface water, which could create surficial slope failures. Evidence of rodent infestation should result in the employment of a licensed exterminator. It should be emphasized that these procedures may require periodic performance if reinfestation occurs.

LIMITATIONS AND UNIFORMITY OF CONDITIONS

This report is prepared for use by Charles Pinneo and their authorized agents, and should not be considered transferable. Prior to use by others, the subject site and this report should be reviewed by CalWest Geotechnical to determine if any additional work is required to update this report.

The findings presented in this report are valid as of this date and may be invalidated wholly or partially by changes outside our control. Therefore, this report should be subject to review and should not be relied upon after a period of one year or if any significant changes are made.

It is the intent of this report to aid in the design and construction of the described project. Implementation of the advice presented in the "Conclusions and Recommendations" sections of this report is intended to reduce risk associated with construction projects. The professional opinions and geotechnical advice contained in this report are not intended to imply total performance of the project or guarantee that unusual conditions will not be discovered during or after construction.

The conclusions and recommendations contained within this report are based on field observations of the site conditions. Recommendations are based on the assumption that the subsurface conditions do not deviate appreciably from those indicated by the individual test pits placed on the subject site. If conditions encountered during construction appear to differ from those described in this report, this office should be notified so we may determine if any modifications are necessary. In this way, any required supplemental recommendations can be made with a minimum delay to the project.

The recommendations are based on the preliminary information provided to us at the start of the investigation. Any changes of this information may require additional work. This report has been prepared in accordance with generally accepted engineering practices and makes no warranties, either express or implied, as to the professional advice provided in this report.

Respectfully

No. 31902 Exp. Dec. 2018

RCE 31902

Eli Katibah Staff Engineer Pinneo March 23, 2017 Project No. 5740

Enc: Appendix A - Site Location Map

Appendix B - Logs of Exploratory Test Pits by Gold Coast Geoservices, Inc.

Appendix C - Geotechnical Map and Cross-sections

APPENDIX

A



PROJECT: Charles Pinneo

ADDRESS: 15498 Lapeyre Court, Moorpark, CA

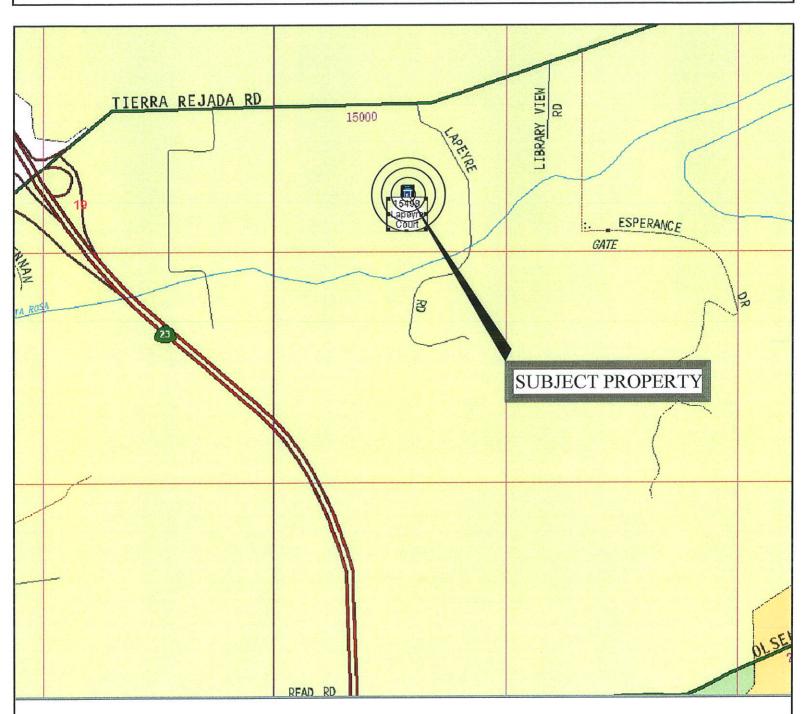
DRAWN: RD REF.: 497 A3

DATE: February, 2017 JOB #: G 5740

A DIVISION OF LC ENGINEERING, INC.

889 PIERCE COURT, SUITE 101 THOUSAND OAKS, CA. 91360 (818)991-7148 (805)497-1244 VICINITY MAP

SHEET TITLE

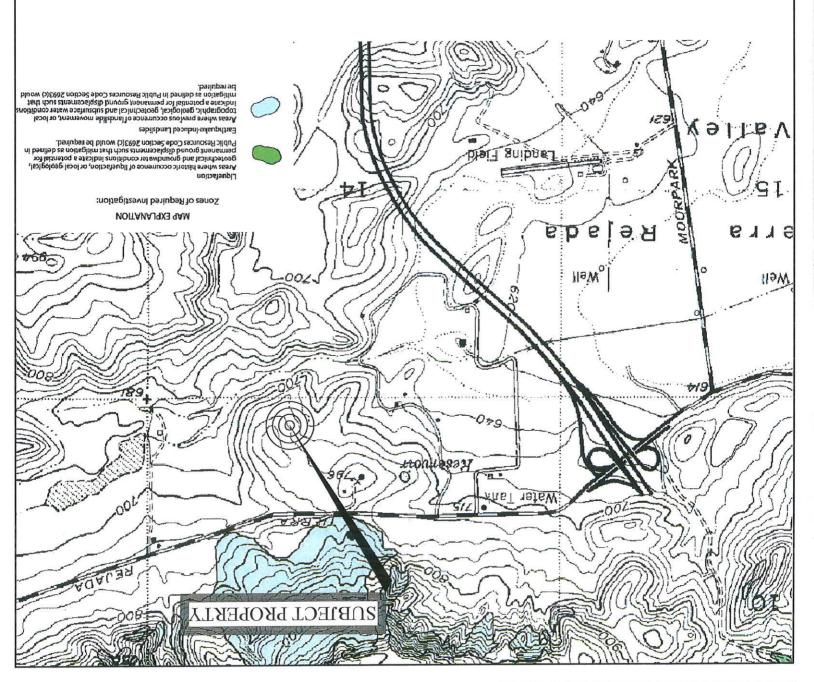




GRIDLINES ARE OFFSET BY APPROXIMATELLY 0.5 MILES.

REFERENCE: THOMAS BROTHERS MAP GUIDE, PAGE: 497

SHEET TITLE 4421-794(208) THOUSAND OAKS, CA. 91360 **ZEIZMIC HAZARD MAP** 8417-166(818) 889 PIERCE COURT, SUITE 101 A DIVISION OF LC ENGINEERING, INC. DKAWN: DATE: February, 2017 CONSULTING ENGINEERS 15498 Lapeyre Court, Moorpark, CA **ADDRESS: CEOLECHNICAL CYTME2L** Charles Pinneo PROJECT: C 2740 10B #:



USGS Design Maps Summary Report

User-Specified Input

Report Title Pinneo

Fri March 24, 2017 18:22:25 UTC

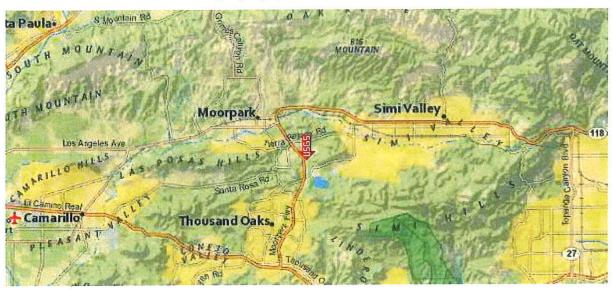
Building Code Reference Document ASCE 7-10 Standard

(which utilizes USGS hazard data available in 2008)

Site Coordinates 34.2642°N, 118.8383°W

Site Soil Classification Site Class B - "Rock"

Risk Category I/II/III



USGS-Provided Output

$$S_s = 2.423 g$$

$$S_{MS} = 2.423 g$$

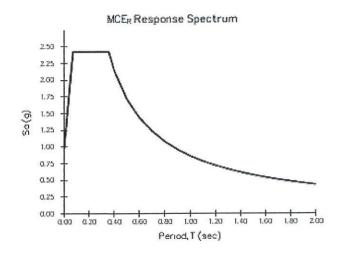
$$S_{DS} = 1.616 g$$

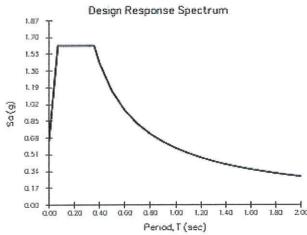
$$S_1 = 0.864 g$$

$$S_{M1} = 0.864 g$$

$$S_{D1} = 0.576 g$$

For information on how the SS and S1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the "2009 NEHRP" building code reference document.





For PGA_M, T_L , C_{RS} , and C_{R1} values, please view the detailed report.

APPENDIX

B

conejo volcanics - (Tcv) - Medium brown to pale pinkish brown basalt, very hard, dry, amygdaloidal locally, NATIVE SOIL - (Ns) - Medium brown to dark yellowish brown silty to clayey fine- to coarse-grained sand, dense volcanic pebble conglomerate, well cemented, dry, very hard, massive, weathered in upper 1 to 4 Weathered Zone TOPANGA FORMATION - (Tt) - Yellowish brown to grayish yellow fine- to coarse-grained sandstone and 09/03/04 S S ا - Reddish brown clayey silty sand, structureless, slightly moist, firm. ক LOGGED BY: Weathered Zone DATE 7.7 Weathered Zone weathered in upper 3 feet. to firm, dry. LOCATION: SEE PLOT PLAN, PLATE 1 ALLUVIUM - (Qal) 7 GC04-081964 m 1" = 5 SCALE: m 4 તં FILE NO:

 $Gold\ Coast\ Geoservices, Inc.*$ 5217 Verdugo way, suite b* camarillo, ca 93012 * (805) 484-5070 * Fax (805) 484-4295

PLATE

2.1

T-5 TO T-7 09/03/04	JOR	t, firm. hard, dry,	T-7				
TEST PIT LOG:	LOGGED BY:	- Reddish brown clayey silty sand, structureless, slightly moist, firm. :S - (Tcv) - Medium brown to pale pinkish brown basalt, very hard, loidal locally, weathered in upper 3 feet.					
PROJECT: PARCEL 4, LAPEYRE ROAD, MOORPARK FILE NO: GC04-081964	LOCATION : SEE PLOT PLAN, PLATE 1	 ALLUVIUM – (Qal) - Reddish brown clayey slity sand, structureless, slightly moist, firm. CONEJO VOLCANICS – (Tcv) - Medium brown to pale pinkish brown basalt, very hard, dry, amygdaloidal locally, weathered in upper 3 feet. 	T-6 T-6	2.2	(P)		

GOLD COAST GEOSERVICES, INC. * 5217 VERDUGO WAY, SUITE B* CAMARILLO, CA 93012 * (805) 484-5070 * FAX (805) 484-4295_

TOPANGA FORMATION -- (Tt) - Yellowish brown to grayish yellow fine- to coarse-grained sandstone and volcanic CONEJO VOLCANICS - (Tcv) - Medium brown to pale pinkish brown basalt, very hard, amygdaloidal locally, pebble conglomerate, well cemented, dry, very hard, massive, weathered in upper 1 to 2 feet. 09/03/04 Š NATIVE SOIL - (Ns) - Medium brown to dark yellowish brown silty to clayey sand, dense to firm, dry. 4 N T-10 - Reddish brown clayey silty sand, structureless, slightly moist, firm. LOGGED BY: DATE: ٠ -က weathered in upper 3 feet. LOCATION: SEE PLOT PLAN, PLATE 1 ALLUVIUM - (Qal) Η̈́ GC04-081964 1" = 5' SCALE: ന ď 4 FILE NO: PLATE 2.3

2 - 2

 $Gold\ Coast\ Geoservices, Inc.*$ 5217 Verdugo way, suite b* camarillo, ca 93012 * (805) 484-5070 * Fax (805) 484-4295

TOPANGA FORMATION - (Tt) - Yellowish brown to grayish yellow fine- to coarse-grained sandstone and volcanic T-11 TO T-15 pebble conglomerate, well cemented, dry, very hard, massive, weathered in upper 1 to 2 feet. 09/03/04 JCR ALLUVIUM - (Qal) - Reddish brown clayey silty sand, structureless, slightly moist, firm. 7-13 TEST PIT LOG: LOGGED BY: DATE: Weathered Zone (N Zone Weathered T-12 PARCEL 4, LAPEYRE ROAD, MOORPARK Weathered Zone T-14 LOCATION: SEE PLOT PLAN, PLATE 1 T-11 GC04-081964 II Si <u></u> SCALE: ~ PROJECT: FILE NO:

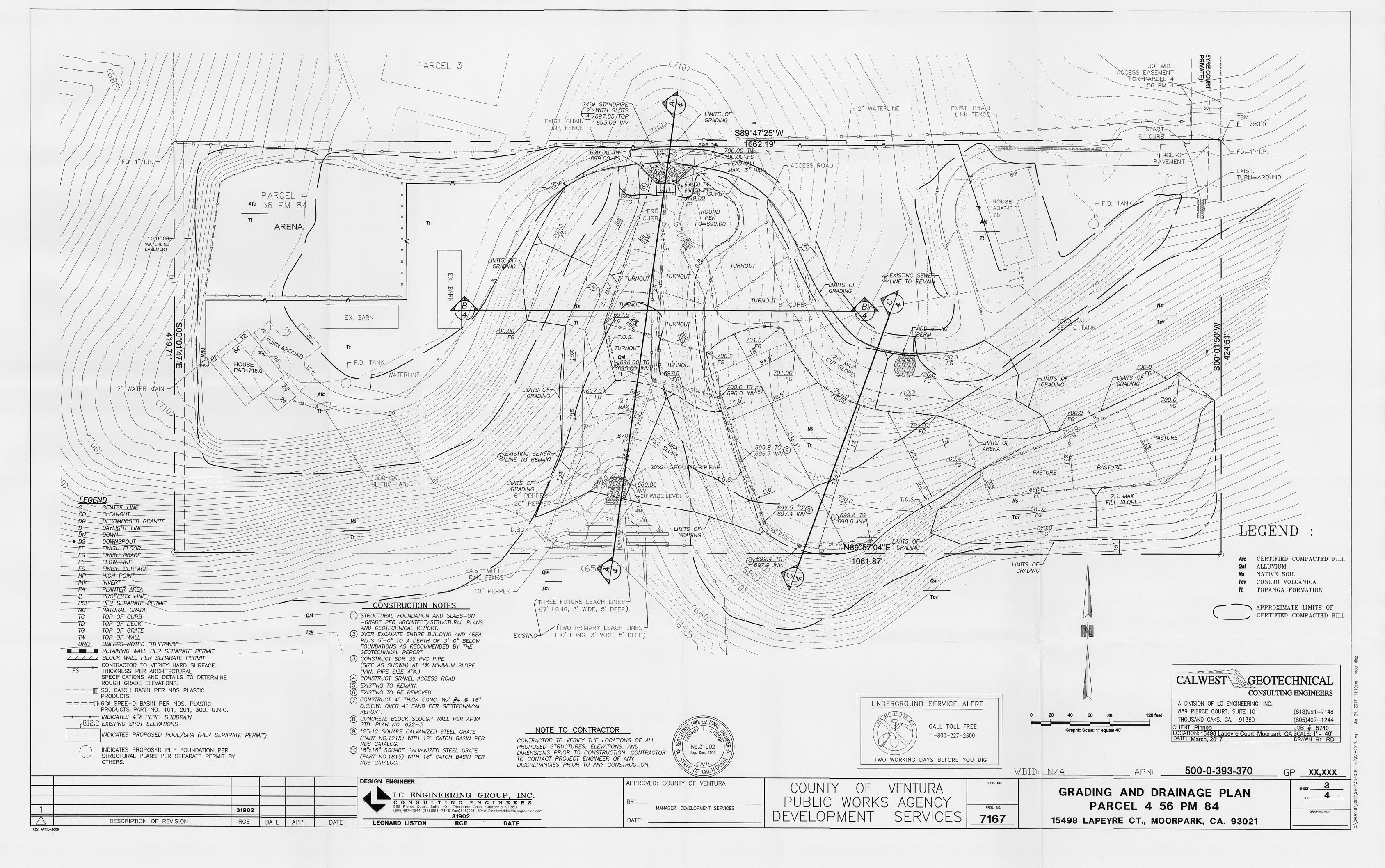
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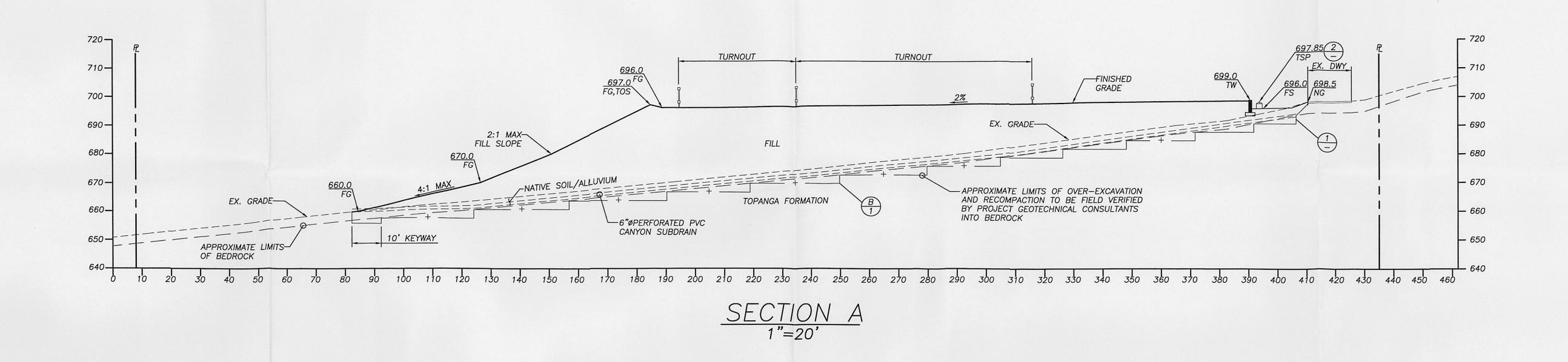
APPENDIX

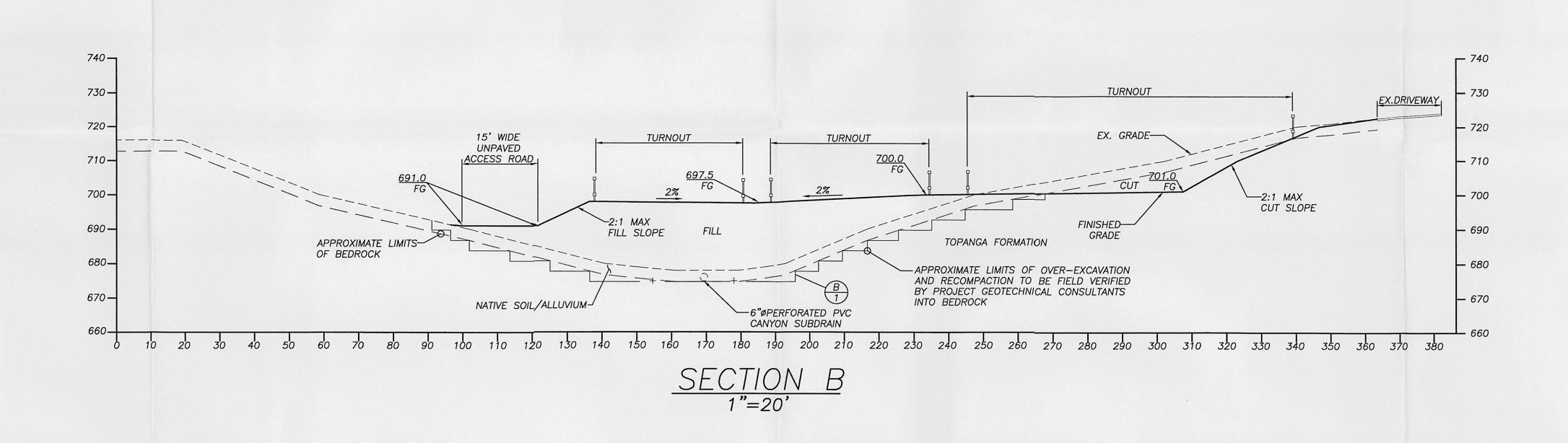
C

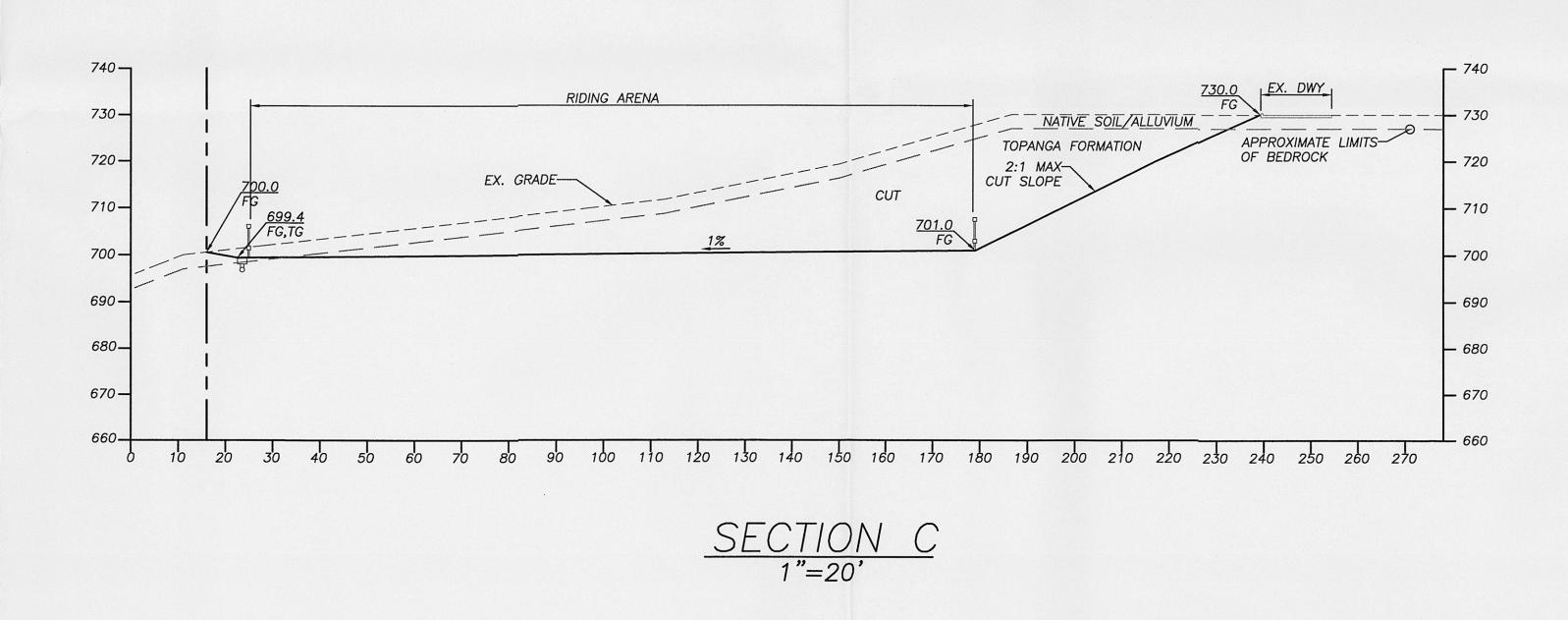
GEOTECHNICAL MAP



GEOTECHNICAL CROSS-SECTIONS







CALWEST GEOTECHNICAL

CONSULTING ENGINEERS

A DIVISION OF LC ENGINEERING, INC.

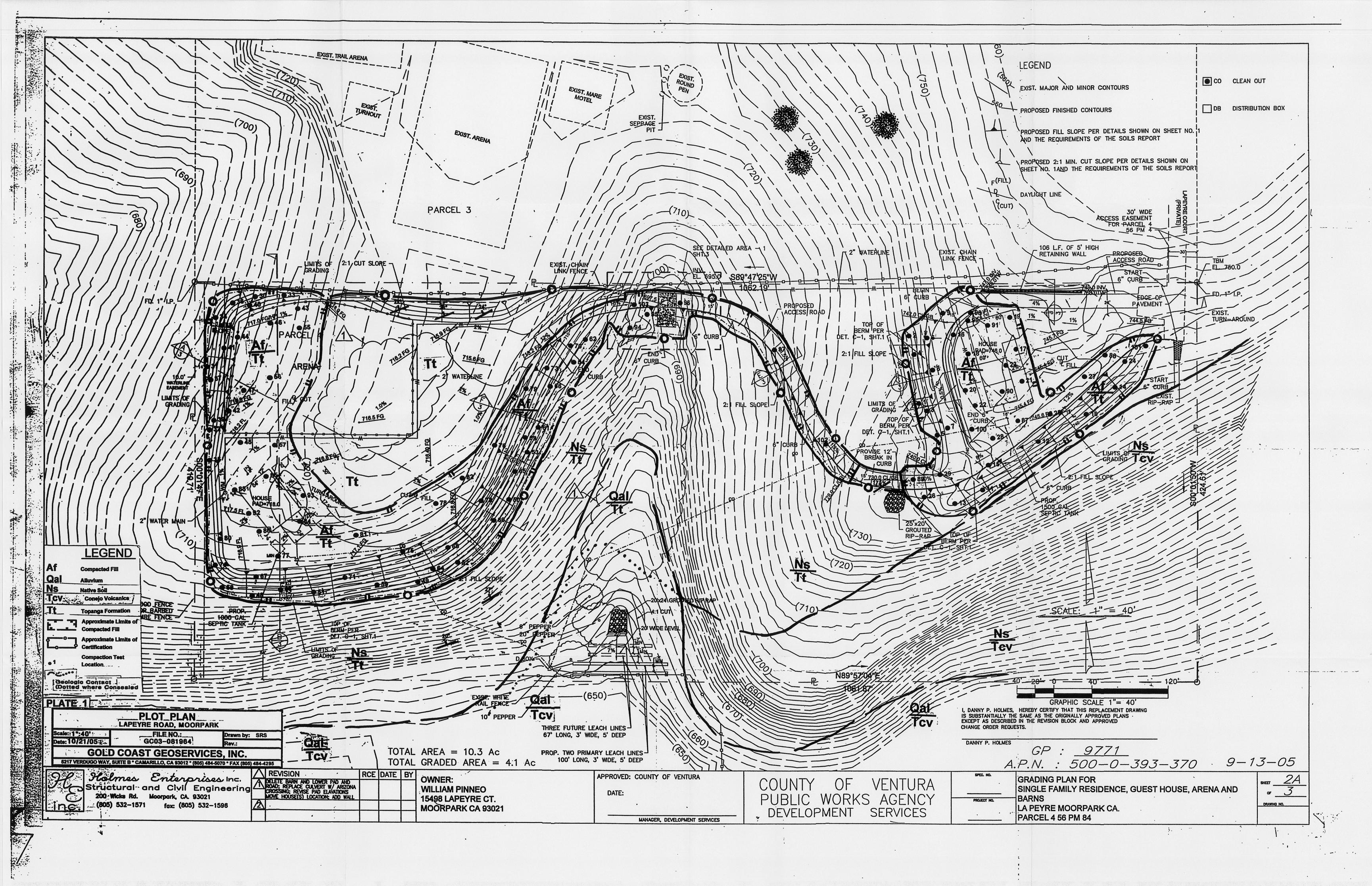
889 PIERCE COURT, SUITE 101 (818)991–7148

THOUSAND OAKS, CA. 91360 (805)497–1244

CLIENT: Pinneo JOB #: 5740

LOCATION: 15498 Lapeyre Court, Moorpark, CA SCALE: 1" = 20'

DATE: March 2017 DRAWN BY: RD







LC ENGINEERING GROUP, INC.

HYDROLOGY AND HYDRAULICS STUDY

5/23/2018 PROJECT NO. 7167

LOCATION:

15498 Lapeyre Court Moorpark, California

CLIENT: Charles Pinneo



HYDROLOGY AND HYDRAULICS STUDY

5/23/2018 PROJECT NO. 7167

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Table of Contents

1.	Description of Project Area	. 1
2.	Hydrologic Analysis	. 1
a	. Watershed Area:	. 1
b	. Hydrologic Parameters:	. 1
c.	. Hydrologic Calculations:	. 2
3.	Detention Calculations	. 2
4.	Hydraulic Calculations	. 2
5.	MS4 Permit Compliance	. 3
6.	Discussion	. 3
7.	Summary	. 3
8.	Limitations	3

List of Appendices

Appendix A – Figures

Appendix B – Hydrology and Hydraulic Calculations

Appendix C – Hydrology Maps

List of Figures

- Figure 1 Ventura County Watershed Protection District Hydrology Manual 100-Year, 1-Day Rainfall Contours for Ventura County
- Figure 2 Ventura County Watershed Protection District Hydrology Manual –

 Maximum Rainfall Intensities
- Figure 3 Ventura County Watershed Protection District Hydrology Manual Runoff

 Coefficient Curve for Soil Number 2
- Figure 4 Ventura County Watershed Protection District Hydrology Manual –

 Exhibit 13 Direct Runoff for Various Curve Numbers NRCS
- Figure 4 Ventura County Watershed Protection District Hydrology Manual –

 Exhibit 14A AMC II NCRS Curve Numbers for Undeveloped Land
- Figure 5- Ventura County Watershed Protection District Hydrology Manual –

 Exhibit 14B– AMC II NCRS Curve Numbers for Developed Land

1. Description of Project Area

The subject property is located at 15498 Lapeyre, in the County of Ventura, California. The proposed area of development is a 10-acre agricultural use site with a single family home, a caretaker's residence, two barns and associated equestrian facilities.

The proposed improvements consist of grading the undeveloped area of the site to add an additional barn, caretaker's residence, and riding arena.

2. Hydrologic Analysis

a. Watershed Area:

The aerial limits for the watershed area were determined from the Topographic Survey utilized as the base sheet for the Hydrology Maps and site Grading and Drainage Plan. The existing and developed area subarea boundaries are the same. Only the drainage within the site will be modified. In both the existing and developed conditions, there is a considerable amount of area, 9.2 acres, contributing offsite flow. This flow is generally overland sheet flow from the adjacent property, and it enters the property in a wide natural drainage conveyance. In the existing condition, flow from both residences and the barn area is conveyed via sheet flow and some onsite drainage facilities to the existing asphalt driveway. At the low point in the driveway there is a riprap pad. Low flows are conveyed in a 12" pipe which flows southerly, but the majority of the flow is conveyed in the natural wide conveyance. At the southerly end of the natural conveyance there is an existing 20'x24' grouted riprap pad with 6"-12" rocks embedded in concrete.

In the developed condition, the natural conveyance will be filled, and the offsite flow and flow from the driveway will be collected and conveyed in a 24" pipe. In order to capture the water at the low point in the driveway, a small wall with a maximum of height of 3 feet will be constructed, along with a slotted CMP standpipe. The standpipe will allow the water to be slowed down and for sediment to be deposited and later removed. The proposed graded areas will have catch basins and pipes to collect the water and convey it to the pipe. The pipe will outlet onto the existing riprap pad near the southerly portion of the property. Riprap calculations are included in Appendix B.

b. Hydrologic Parameters:

The hydrology parameters were obtained from the Ventura County Watershed Protection District – Hydrology Manual, dated December 2006, from the 100-year, 1-Day Rainfall Contours for Ventura County map, included in Appendix A. The project is located in the J' rainfall zone and has a soil type of 2.

c. Hydrologic Calculations:

The referenced Ventura County Watershed Protection District Hydrology Manual and TC Calculator were used to determine the design discharge for the 10-, 50-, and 100-year storm events. The 2-year discharge was determined by using the LA County Hydrology Manual multiplier of 0.387 times the 50-year discharge. The existing and developed area subarea boundaries are the same. There was a minor increase in impervious area proposed for this project from 4% to 5% for the overall subarea. The resulting discharge is shown in the following table:

	Existing Discharge (cfs)	Developed	Discharge
		(cfs)	
2-year	11.93	12.44	
10-year	16.87	16.94	
50-year	30.82	32.15	
100-year	39.75	39.82	

Calculations are included in Appendix B.

3. Detention Calculations

Since there was a minor increase in the peak discharge for all 4 rainfall events, detention is required. In order to determine the required storage volume, the 100-Year Undeveloped Condition Peak Mitigation method, detailed in Section 6.15.1 of the Hydrology Manual, was used. In the undeveloped condition, a CN of 81 for pasture, fair cover was determined based on Exhibit 14A from the Hydrology Manual. For the developed condition, a CN of 83 for farmsteads was determined based on Exhibit 14B from the Hydrology Manual. The equation on Exhibit 13 from the Hydrology Manual was used to compute the runoff depths and net yield. Although the manual states to subtract 0.50 inch from the net yield to determine the required volume, that would result in a negative number, so the additional depression storage was set to zero. The proposed impervious area is 0.36 acres, resulting in a required detention volume of 282 cubic feet. The proposed basin is 429 cubic feet. Calculations are included in Appendix B.

4. Hydraulic Calculations

Hydraulic Calculations were performed to size pipes and grating basins, and are included in Appendix B. Additionally, standpipe calculations were performed to ensure that the standpipe has adequate capacity to capture the flow during the 100-year event. Riprap calculations were also completed, showing that the proposed riprap pad is adequately sized. The appropriate structure sizes have been identified on the grading and drainage plans.

5. MS4 Permit Compliance

This project is an existing single family residence and more than 10,000 square feet of additional impervious area proposed, and disturbs more than one acre of land. However, the Ventura County Watershed Protection District determined that this project does not trigger the MS4 Permit Requirement for Post-Construction Stormwater Mitigation Plan (PCSMP) because it is located outside of the unincorporated urban area and the proposed impervious surfaces won't exceed 1 acre.

6. Discussion

This hydrology and hydraulics was completed in order to compare the predeveloped and developed conditions discharges as well as to size onsite storm drain facilities. The total discharge for the site, including the offsite area contributing flow to the site increased slightly for the 2-,10-, 50- and 100-year events. Therefore, detention is required and will be provided. The project is not subject to the requirements for the MS-4 permit due to its location in a non-urban area.

7. Summary

Based on the above discussion, calculations, and above described improvements, it is the opinion of this office that development of the subject property as planned will not result in an adverse impact to the adjacent properties or to the existing storm drain system.

During construction, erosion control devices should be installed, which would include, at a minimum, sand bags and silt fences, along with other typical erosion control devices.

8. Limitations

This report is prepared for use by Charles Pinneo and his authorized agents and should not be considered transferable. Prior to the use by others, the subject site and this report should be reviewed by this office to determine if any additional work is required to update this report. It is the intent of this report to aid in the design and construction of the described project. Implementation of the advice presented in this report is intended to reduce risk associated with construction projects. The professional opinions contained in this report are not intended to imply total performance of the project. Furthermore, the opinions contained within this report are based on the referenced materials.

This report has been prepared in accordance with generally accepted engineering practices and makes no warranties, either expressed or implied, as to the professional opinions provided.

Should you have any questions, please don't hesitate to call.

Respectfully submitted,

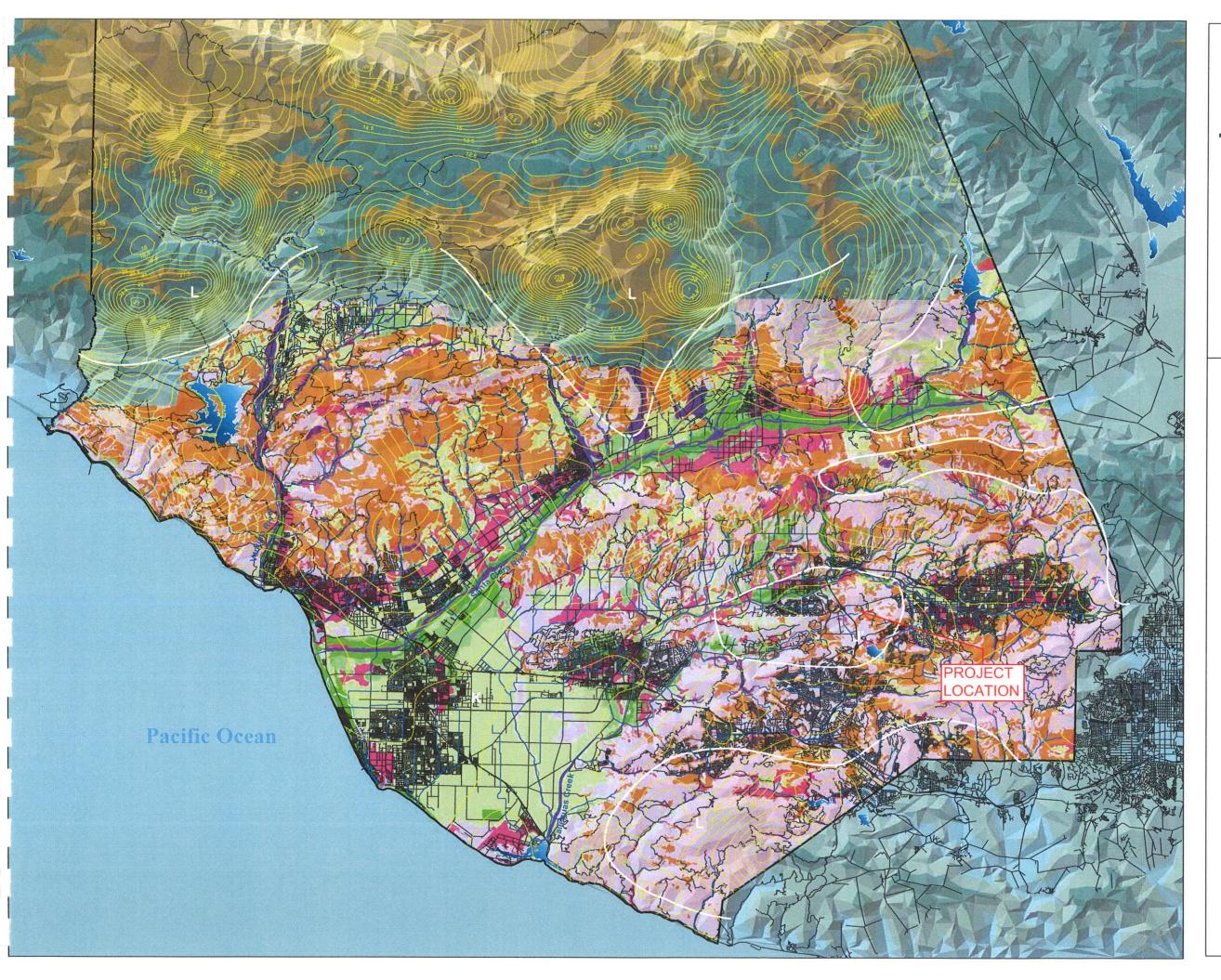
Michelle Meehan

PE 57460

Leonard Listor President RCE 31902 No. 31902 Exp. Dec. 2018

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APPENDIX A



100-Year, 1-Day Rainfall Contours for Ventura County

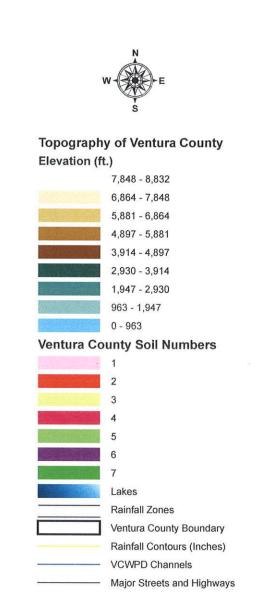


EXHIBIT 2. MAXIMUM RAINFALL INTENSITIES

Zone	J	Jp	K	L	J	Jp	K	L	J	Jp	K	L	J	Jp	K	L
Year	10	10	10	10	25	25	25	25	50	50	50	50	100	100	100	100
Cum. Rain (in.)	3.17	4.38	5.53	7.21	3.91	5.28	6.41	8.81	5.0	6.0	8.0	11.0	7.0	6.66	10.6	15.0
Тс		L	J	<u> </u>	I	Maxi	imum l	 Rainfal	l Intens	sity (in	/hr)			Linominion		
(min)	Maximum Rainfall Intensity (in/hr)															
5	2.16	2.16	3.72	4.31	2.64	3.34	4.27	4.94	2.94	3.79	4.55	5.58	3.23	4.06	5.10	6.11
6	2.02	2.01	3.40	3.90	2.52	2.94	3.80	4.39	2.80	3.34	4.10	5.05	2.90	3.55	4.59	5.43
7	1.86	1.90	3.09	3.56	2.30	2.65	3.45	3.99	2.55	3.01	3.77	4.63	2.67	3.19	4.23	4.95
8	1.74	1.82	2.86	3.30	2.14	2.58	3.19	3.69	2.36	2.93	3.52	4.28	2.50	2.99	3.95	4.58
9	1.63	1.76	2.68	3.07	1.99	2.44	2.99	3.45	2.21	2.77	3.33	4.00	2.36	2.87	3.74	4.30
10	1.53	1.70	2.52	2.86	1.87	2.29	2.81	3.24	2.08	2.60	3.16	3.76	2.25	2.78	3.57	4.07
11	1.45	1.64	2.40	2.70	1.76	2.17	2.66	3.07	1.95	2.46	3.02	3.56	2.13	2.67	3.39	3.88
12	1.38	1.59	2.29	2.56	1.66	2.07	2.53	2.92	1.85	2.35	2.90	3.39	2.02	2.58	3.23	3.72
13	1.33	1.55	2.20	2.44	1.58	1.98	2.43	2.80	1.76	2.25	2.80	3.25	1.94	2.49	3.10	3.59
14	1.28	1.51	2.12	2.34	1.52	1.90	2.34	2.70	1.68	2.16	2.72	3.13	1.86	2.42	2.99	3.47
15	1.23	1.47	2.04	2.25	1.46	1.84	2.26	2.60	1.62	2.09	2.62	3.02	1.80	2.36	2.89	3.37
16	1.18	1.43	1.98	2.18	1.40	1.78	2.18	2.50	1.56	2.02	2.54	2.92	1.73	2.29	2.79	3.25
17	1.14	1.39	1.92	2.11	1.36	1.73	2.12	2.42	1.50	1.96	2.47	2.83	1.67	2.22	2.70	3.14
18	1.11	1.35	1.86	2.04	1.31	1.68	2.06	2.34	1.45	1.90	2.41	2.75	1.61	2.16	2.62	3.05
19	1.07	1.32	1.82	1.99	1.27	1.63	2.01	2.28	1.41	1.86	2.35	2.68	1.56	2.11	2.55	2.96
20	1.04	1.29	1.77	1.94	1.24	1.60	1.96	2.22	1.37	1.81	2.29	2.62	1.52	2.07	2.49	2.88
21	1.02	1.26	1.73	1.90	1.20	1.55	1.91	2.17	1.33	1.76	2.23	2.55	1.48	2.03	2.43	2.82
22	0.99	1.23	1.68	1.85	1.17	1.51	1.87	2.12	1.30	1.72	2.17	2.49	1.44	1.99	2.36	2.76
23	0.97	1.21	1.65	1.82	1.14	1.48	1.83	2.07	1.27	1.68	2.12	2.44	1.41	1.95	2.31	2.70
24	0.95	1.19	1.62	1.78	1.12	1.44	1.79	2.03	1.24	1.64	2.07	2.39	1.38	1.92	2.26	2.65
25	0.93	1.16	1.58	1.75	1.09	1.41	1.76	1.99	1.21	1.61	2.03	2.34	1.35	1.89	2.22	2.60
26	0.90	1.14	1.56	1.72	1.07	1.39	1.73	1.96	1.18	1.57	1.98	2.29	1.32	1.86	2.17	2.56
27	0.88	1.13	1.53	1.68	1.05	1.36	1.70	1.92	1.16	1.54	1.94	2.25	1.29	1.83	2.13	2.51
28	0.87	1.11	1.50	1.66	1.03	1.34	1.67	1.89	1.14	1.52	1.90	2.21	1.27	1.80	2.09	2.46
29	0.85	1.09	1.48	1.63	1.01	1.31	1.64	1.87	1.12	1.49	1.87	2.17	1.24	1.77	2.05	2.42
30	0.83	1.08	1.46	1.61	0.99	1.29	1,61	1.84	1.10	1,47	1.84	2.13	1.22	1.74	2.02	2.38

EXHIBIT 6B. RUNOFF COEFFICIENT CURVE-SOIL NUMBER 2 (NRCS TYPE C)

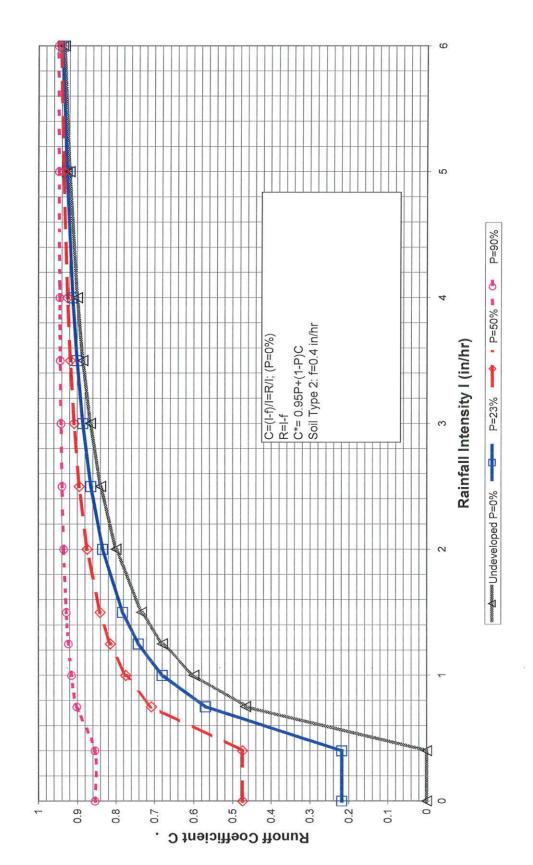


EXHIBIT 13. DIRECT RUNOFF FOR VARIOUS CURVE NUMBERS- NRCS

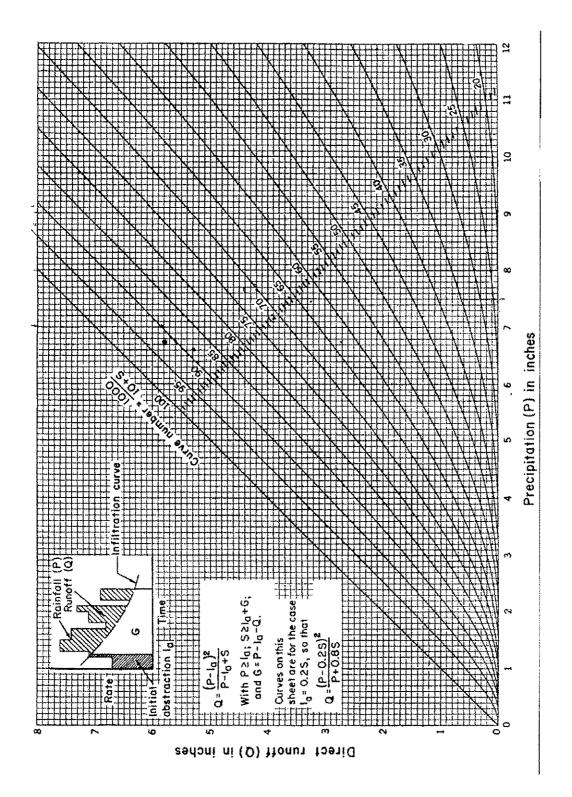


EXHIBIT 14A. AMC II NRCS CURVE NUMBERS FOR UNDEVELOPED LAND

UNDEVELOPED			HYDROLOGIC SOIL GROUP AND VCWPD NUMBERS								
LAND USE AND CONE	% Impe										
Poor: Less than 50% Cov	er										
Fair: From 50% to 75% Co			A (1), (2)	В		С		D (3)		
Good: More Than 75% Cover		Effective	Average	7	6	5	4	3	2	1	
Grassland (Annual Grass)	Poor	0	0	46	57	60	63	68	72	76	
11	Fair	0	0	21	42	47	53	60	66	70	
11	Good	0	0	~	-	41	47	54	59	64	
Open Brush (Sagebrush, Flattop Buckwheat)	Poor	0	0	31	51	55	60	66	70	75	
И	Fair	0	0	22	40	44	49	54	58	61	
и	Good	0	0	-	-	33	39	46	51	56	
Big Brush (Scrub Oak, Manzanita, Ceanothis)	Fair	0	0	23	39	42	46	51	54	59	
ft.	Good	0	0	-	-	29	34	41	46	51	
Chamise (Narrow Leaf Chaparral)	Fair	0	0	21	43	48	55	63	68	75	
4t	Good	0	0	-	-	44	49	55	60	64	
Oak Savannah (Sparse Oaks & Annual Grass)	Poor	0	0	34	53	57	62	67	71	_	
a	Fair	0	0	22	41	45	51	57	61	-	
Orchard	Poor	0	0	42	56	59	62	65	67	71	
Woodland	Fair	0	0	-	-	35	39	43	47	-	
Pinon & Juniper	Fair	0	0	b	-	43	48	54	58	62	
Forest	Fair	0	0	22	41	45	50	56	60	64	
Pasture or Range	Poor	0	0	61	76	78	81	84	87	89	
et.	Fair	0	0	40	61	65	71	77	81	84	
q	Good	0	0	29	52	57	64	71	76	80	
	<u>NOT</u> I	E: WPD MO EFFECTIV								AND	
Note (1)	Curve r	numbers fo	or soil typ	oes 6 a	and 7 r	not all	availa	ble			
Note (2)	For CNs	s<30, ensu	re that F	P-0.2*\$	S > 0						
Note (3)	Curve n	umbers fo	r soil typ	e 1 nc	ot all av	/ailabl	е				
Reference:		1967. Rev RCS TR-55									

EXHIBIT 14B. AMC II NRCS CURVE NUMBERS FOR DEVELOPED LAND

DEVELOPED		% IMPE	RVIOUS		UP (5))				
LAND USE	Condition	EFFEC-	AVER-	Α			В		D	
	(1)	TIVE	AGE	7	6	5	4	3	2	1
Open Spaces, Lawns, Parks, Golf Courses, Cemeteries, etc.	Good	0	. 0	29	52	57	64	71	76	80
d	Fair	0	0	42	61	65	71	77	81	84
Residential 1 ac. Lot	~	10	20	45	62	66	71	76	80	84
Residential 1/2 ac. Lot	_	13	25	45	65	68	73	78	81	85
Residential 1/3 ac. Lot	-	15	30	48	67	70	75	79	82	86
Residential 1/4 ac. Lot		19	38	53	70	73	77	81	84	87
Residential 1/5 ac. Lot	-	23	47	59	74	77	80	84	86	89
Residential 1/6 ac. Lot	•	28	56	66	79	81	84	86	88	90
Residential 1/8 ac. Lot		32	65	72	83	84	87	89	90	92
Residential - Condos	-	37	69	74	84	86	88	90	92	93
Industrial Unpaved Yards, etc.	-	36	72	77	86	87	89	91	92	93
Commercial & Business	-	50	85	88	90	91	93	93	95	95
Industrial Parks, Paved Parking, etc.	-	70	93	93	94	95	96	96	97	97
Parking Lots, Roofs, Driveways, Paved Streets with Curbs & Drains	-	90	100	98	98	98	98	98	98	98
Public Facilities & Institutions; Includes Schools, Government CenterS, Military Bases, etc. (2)	-	23	47	59	74	77	80	84	86	89
Transportation and utilities (3)	-	70	93	79	87	88	90	91	92	93
Newly graded/under construction - No veg.	-	0	0	71	83	85	88	90	92	94
Paved Streets with open ditches including right-of-way (3)	**	70	93	79	87	88	90	91	92	93
Gravel streets including right-of- way	-	0	0	71	82	84	86	88	90	91
Dirt street including right-of-way	-	0	0	66	79	81	83	86	88	89
Natural desert landscaping- native vegetation	_	0	0	55	72	75	79	83	86	88
Farmsteads- buildings, lanes, driveways, and surrounding lots (2)	,	23	47	51	69	72	76	80	83	86
Agriculture- Straight Row + Crop Residue Cover on >5% of surface	Good	0	0	57	72	74	77	80	83	85
Agriculture- Straight Row + Crop Residue Cover on <5% of surface	Poor	0	0	64	78	80	83	86	88	90

APPENDIX B

VENTURA COUNTY WATERSHED PROTECTION DISTRICT

TIME OF CONCENTRATION

TC Program Version: 2.6.2009.7

Project: 7167 PINNEO Date: 12:00:00 AM

Engineer: Michelle Meehan

Consultant:

SUMMARY OF COMPUTATIONS

Watershed Name: EXISTING

 Name
 Zone
 Storm
 Soil
 Area (acres)
 TC (min)

 1A
 J'
 10
 2.00
 19.8 / 20
 20.704 / 21

 1A
 J'
 25
 2.00
 19.8 / 20
 17.484 / 17

 1A
 J'
 50
 2.00
 19.8 / 20
 15.574 / 16

 1A
 J'
 100
 2.00
 19.8 / 20
 12.766 / 13

우

Watershed Name: EXISTING

water siled wake. Extoring

Sub-Area Name: 1A

Computing Tc for all rainfall frequencies for sub-area 1A...

Tc for frequency = 10.00: 20.704 Minutes

DATA FOR SUB AREA 1

SUB AREA TIME OF CONCENTRATION: 20.704 min. = 21 min.

SUB AREA INPUT DATA

Sub Area Name: 1A Total Area (ac): 19.8

Flood Zone: 3
Rainfall Zone: J'

Storm Frequency (years): 10 Development Type: Undeveloped

Soil Type: 2.00 Percent Impervious: 4

SUB AREA OUTPUT

Intensity (in/hr): 1.260

C Total: 0.676

Sum Q Segments (cfs): 16.87

Q Total (cfs): 16.87

Sum Percent Area (%): 100.0

Sum of Flow Path Travel Times (sec): 1,242.23

Time of Concentration (min): 20.704

DATA FOR FLOW PATH 1

Flow Path Name: FlowPath1

FLOW PATH TRAVEL TIME (min): 19.7848

Flow Type: Overland Length (ft): 810

Top Elevation (ft): 780
Bottom Elevation (ft): 702
Contributing Area (acres): 9.2
Percent of Sub-Area (%): 46.5

Overland Type: Mountain

```
Development Type: Undeveloped
Map Slope: 0.0963
Effective Slope: 0.0963
Q for Flow Path (cfs): 7.84
Avg Velocity (ft/s): 0.68
Passed Scour Check: YES
Scour Velocity (ft/sec): 3.49
DATA FOR FLOW PATH 2
______
Flow Path Name: FlowPath2
FLOW PATH TRAVEL TIME (min): 0.1128
Flow Type: Natural Channel
Length (ft): 35
Top Elevation (ft): 702
Bottom Elevation (ft): 699
Contributing Area (acres): 3.7
Percent of Sub-Area (%): 18.7
Overland Type: Mountain
Map Slope: 0.0857
Effective Slope: 0.0857
Q for Flow Path (cfs): 3.15
Q Top (cfs): 7.84
Q Bottom (cfs): 10.99
Velocity Top (ft/s): 3.25
Velocity Bottom (ft/s): 3.64
Avg Velocity (ft/s): 3.45
Wave Velocity (ft/s): 5.17
DATA FOR FLOW PATH 3
Flow Path Name: FlowPath3
FLOW PATH TRAVEL TIME (min): 0.8062
Flow Type: Natural Channel
Length (ft): 320
Top Elevation (ft): 699
Bottom Elevation (ft): 662
Contributing Area (acres): 6.9
Percent of Sub-Area (%): 34.8
Overland Type: Mountain
Map Slope: 0.1156
Effective Slope: 0.1084
Q for Flow Path (cfs): 5.88
Q Top (cfs): 10.99
Q Bottom (cfs): 16.87
Velocity Top (ft/s): 4.10
Velocity Bottom (ft/s): 4.72
Avg Velocity (ft/s): 4.41
Wave Velocity (ft/s): 6.62
To for frequency = 25.00: 17.484 Minutes
DATA FOR SUB AREA 1
SUB AREA TIME OF CONCENTRATION: 17.484 min. = 17 min.
SUB AREA INPUT DATA
Sub Area Name: 1A
Total Area (ac): 19.8
Flood Zone: 3
Rainfall Zone: J'
Storm Frequency (years): 25
Development Type: Undeveloped
Soil Type: 2.00
```

Percent Impervious: 4 SUB AREA OUTPUT Intensity (in/hr): 1.725 C Total: 0.742 Sum Q Segments (cfs): 25.33 Q Total (cfs): 25.33 Sum Percent Area (%): 100.0 Sum of Flow Path Travel Times (sec): 1,049.06 Time of Concentration (min): 17.484 DATA FOR FLOW PATH 1 Flow Path Name: FlowPath1 FLOW PATH TRAVEL TIME (min): 16.6816 Flow Type: Overland Length (ft): 810 Top Elevation (ft): 780 Bottom Elevation (ft): 702 Contributing Area (acres): 9.2 Percent of Sub-Area (%): 46.5 Overland Type: Mountain Development Type: Undeveloped Map Slope: 0.0963 Effective Slope: 0.0963 Q for Flow Path (cfs): 11.77 Avg Velocity (ft/s): 0.81 Passed Scour Check: YES Scour Velocity (ft/sec): 0.00 DATA FOR FLOW PATH 2 Flow Path Name: FlowPath2 FLOW PATH TRAVEL TIME (min): 0.0985 Flow Type: Natural Channel Length (ft): 35 Top Elevation (ft): 702 Bottom Elevation (ft): 699 Contributing Area (acres): 3.7 Percent of Sub-Area (%): 18.7 Overland Type: Mountain Map Slope: 0.0857 Effective Slope: 0.0857 Q for Flow Path (cfs): 4.73 Q Top (cfs): 11.77 Q Bottom (cfs): 16.50 Velocity Top (ft/s): 3.73 Velocity Bottom (ft/s): 4.17 Avg Velocity (ft/s): 3.95 Wave Velocity (ft/s): 5.92 DATA FOR FLOW PATH 3 Flow Path Name: FlowPath3 FLOW PATH TRAVEL TIME (min): 0.7042 Flow Type: Natural Channel Length (ft): 320 Top Elevation (ft): 699 Bottom Elevation (ft): 662 Contributing Area (acres): 6.9 Percent of Sub-Area (%): 34.8 Overland Type: Mountain Map Slope: 0.1156

Effective Slope: 0.1084

```
Q for Flow Path (cfs): 8.83
Q Top (cfs): 16.50
Q Bottom (cfs): 25.33
Velocity Top (ft/s): 4.69
Velocity Bottom (ft/s): 5.41
Avg Velocity (ft/s): 5.05
Wave Velocity (ft/s): 7.57
To for frequency = 50.00: 15.574 Minutes
DATA FOR SUB AREA 1
SUB AREA TIME OF CONCENTRATION: 15.574 min. = 16 min.
_____
SUB AREA INPUT DATA
Sub Area Name: 1A
Total Area (ac): 19.8
Flood Zone: 3
Rainfall Zone: J'
Storm Frequency (years): 50
Development Type: Undeveloped
Soil Type: 2.00
Percent Impervious: 4
SUB AREA OUTPUT
Intensity (in/hr): 2.019
C Total: 0.771
Sum Q Segments (cfs): 30.82
Q Total (cfs): 30.82
Sum Percent Area (%): 100.0
Sum of Flow Path Travel Times (sec): 934.46
Time of Concentration (min): 15.574
DATA FOR FLOW PATH 1
Flow Path Name: FlowPath1
FLOW PATH TRAVEL TIME (min): 14.8224
Flow Type: Overland
Length (ft): 810
Top Elevation (ft): 780
Bottom Elevation (ft): 702
Contributing Area (acres): 9.2
Percent of Sub-Area (%): 46.5
Overland Type: Mountain
Development Type: Undeveloped
Map Slope: 0.0963
Effective Slope: 0.0963
Q for Flow Path (cfs): 14.32
Avg Velocity (ft/s): 0.91
Passed Scour Check: YES
Scour Velocity (ft/sec): 4.16
DATA FOR FLOW PATH 2
Flow Path Name: FlowPath2
FLOW PATH TRAVEL TIME (min): 0.0923
Flow Type: Natural Channel
Length (ft): 35
Top Elevation (ft): 702
Bottom Elevation (ft): 699
Contributing Area (acres): 3.7
Percent of Sub-Area (%): 18.7
```

Overland Type: Mountain

```
Map Slope: 0.0857
Effective Slope: 0.0857
Q for Flow Path (cfs): 5.76
Q Top (cfs): 14.32
Q Bottom (cfs): 20.08
Velocity Top (ft/s): 3.98
Velocity Bottom (ft/s): 4.45
Avg Velocity (ft/s): 4.21
Wave Velocity (ft/s): 6.32
DATA FOR FLOW PATH 3
Flow Path Name: FlowPath3
FLOW PATH TRAVEL TIME (min): 0.6597
Flow Type: Natural Channel
Length (ft): 320
Top Elevation (ft): 699
Bottom Elevation (ft): 662
Contributing Area (acres): 6.9
Percent of Sub-Area (%): 34.8
Overland Type: Mountain
Map Slope: 0.1156
Effective Slope: 0.1084
Q for Flow Path (cfs): 10.74
Q Top (cfs): 20.08
Q Bottom (cfs): 30.82
Velocity Top (ft/s): 5.01
Velocity Bottom (ft/s): 5.77
Avg Velocity (ft/s): 5.39
Wave Velocity (ft/s): 8.08
To for frequency = 100.00: 12.766 Minutes
DATA FOR SUB AREA 1
SUB AREA TIME OF CONCENTRATION: 12.766 min. = 13 min.
SUB AREA INPUT DATA
Sub Area Name: 1A
Total Area (ac): 19.8
Flood Zone: 3
Rainfall Zone: J'
Storm Frequency (years): 100
Development Type: Undeveloped
Soil Type: 2.00
Percent Impervious: 4
SUB AREA OUTPUT
Intensity (in/hr): 2.492
C Total: 0.805
Sum Q Segments (cfs): 39.75
Q Total (cfs): 39.75
Sum Percent Area (%): 100.0
Sum of Flow Path Travel Times (sec): 765.97
Time of Concentration (min): 12.766
DATA FOR FLOW PATH 1
Flow Path Name: FlowPath1
FLOW PATH TRAVEL TIME (min): 12.0753
Flow Type: Overland
Length (ft): 810
Top Elevation (ft): 780
```

7167 EX.out

Bottom Elevation (ft): 702 Contributing Area (acres): 9.2 Percent of Sub-Area (%): 46.5 Overland Type: Mountain Development Type: Undeveloped Map Slope: 0.0963 Effective Slope: 0.0963 Q for Flow Path (cfs): 18.47 Avg Velocity (ft/s): 1.12 Passed Scour Check: YES Scour Velocity (ft/sec): 4.54 DATA FOR FLOW PATH 2 Flow Path Name: FlowPath2 FLOW PATH TRAVEL TIME (min): 0.0848 Flow Type: Natural Channel Length (ft): 35 Top Elevation (ft): 702 Bottom Elevation (ft): 699 Contributing Area (acres): 3.7 Percent of Sub-Area (%): 18.7 Overland Type: Mountain Map Slope: 0.0857 Effective Slope: 0.0857 Q for Flow Path (cfs): 7.43 Q Top (cfs): 18.47 Q Bottom (cfs): 25.90 Velocity Top (ft/s): 4.33 Velocity Bottom (ft/s): 4.85 Avg Velocity (ft/s): 4.59 Wave Velocity (ft/s): 6.88 DATA FOR FLOW PATH 3 Flow Path Name: FlowPath3 FLOW PATH TRAVEL TIME (min): 0.6061 Flow Type: Natural Channel Length (ft): 320 Top Elevation (ft): 699 Bottom Elevation (ft): 662 Contributing Area (acres): 6.9 Percent of Sub-Area (%): 34.8 Overland Type: Mountain Map Slope: 0.1156 Effective Slope: 0.1084 Q for Flow Path (cfs): 13.85

Q Top (cfs): 25.90 Q Bottom (cfs): 39.75 Velocity Top (ft/s): 5.45 Velocity Bottom (ft/s): 6.28 Avg Velocity (ft/s): 5.87 Wave Velocity (ft/s): 8.80

VENTURA COUNTY WATERSHED PROTECTION DISTRICT

TIME OF CONCENTRATION

TC Program Version: 2.6.2009.7

Project: 7167 PINNEO Date: 12:00:00 AM

Engineer: Michelle Meehan

Consultant:

SUMMARY OF COMPUTATIONS

Watershed Name: DEVELOPED

Name	Zone	Storm	Soil	Area (acres)	TC (min)
1A 1A 1A 1A	ፓ' ፓ' ፓ'	25 50	2.00 2.00 2.00 2.00	19.8 / 20 19.8 / 20 19.8 / 20 19.8 / 20	20.628 / 21 17.474 / 17 15.403 / 15 12.637 / 13

2

Watershed Name: DEVELOPED

Sub-Area Name: 1A

Computing Tc for all rainfall frequencies for sub-area 1A...

Tc for frequency = 10.00: 20.628 Minutes

DATA FOR SUB AREA 1

SUB AREA TIME OF CONCENTRATION: 20.628 min. = 21 min.

SUB AREA INPUT DATA

Sub Area Name: 1A Total Area (ac): 19.8

Flood Zone: 3 Rainfall Zone: J'

Storm Frequency (years): 10
Development Type: Undeveloped

Soil Type: 2.00 Percent Impervious: 5

SUB AREA OUTPUT

Intensity (in/hr): 1.260

C Total: 0.679

Sum Q Segments (cfs): 16.94

Q Total (cfs): 16.94

Sum Percent Area (%): 100.0

Sum of Flow Path Travel Times (sec): 1,237.68

Time of Concentration (min): 20.628

DATA FOR FLOW PATH 1

Flow Path Name: FlowPath 1

FLOW PATH TRAVEL TIME (min): 19.7848

Flow Type: Overland Length (ft): 810

Top Elevation (ft): 780
Bottom Elevation (ft): 702
Contributing Area (acres): 9.2
Percent of Sub-Area (%): 46.5

Overland Type: Mountain

Development Type: Undeveloped Map Slope: 0.0963 Effective Slope: 0.0963 Q for Flow Path (cfs): 7.87 Avg Velocity (ft/s): 0.68 Passed Scour Check: YES Scour Velocity (ft/sec): 3.49 DATA FOR FLOW PATH 2 Flow Path Name: FlowPath 2 FLOW PATH TRAVEL TIME (min): 0.0869 Flow Type: Natural Channel Length (ft): 35 Top Elevation (ft): 702 Bottom Elevation (ft): 696 Contributing Area (acres): 3.6 Percent of Sub-Area (%): 18.2 Overland Type: Mountain Map Slope: 0.1714 Effective Slope: 0.1444 Q for Flow Path (cfs): 3.08 Q Top (cfs): 7.87 Q Bottom (cfs): 10.95 Velocity Top (ft/s): 4.23 Velocity Bottom (ft/s): 4.72 Avg Velocity (ft/s): 4.48 Wave Velocity (ft/s): 6.71 DATA FOR FLOW PATH 3 Flow Path Name: FlowPath 3 FLOW PATH TRAVEL TIME (min): 0.4999 Flow Type: Pipe Length (ft): 290 Top Elevation (ft): 696 Bottom Elevation (ft): 666 Contributing Area (acres): 2.6 Percent of Sub-Area (%): 13.1 Initial Pipe Diameter (in): 24 Calculated Pipe Diameter (in): 15 Used Pipe Diameter (in): 24 Manning's N: 0.012 Map Slope: 0.1034 Q for Flow Path (cfs): 2.22 Q Top (cfs): 10.95 Q Bottom (cfs): 13.18 Avg Velocity (ft/s): 7.28 Wave Velocity (ft/s): 9.67 DATA FOR FLOW PATH 4 Flow Path Name: FlowPath 4 FLOW PATH TRAVEL TIME (min): 0.2564 Flow Type: Natural Channel Length (ft): 74 Top Elevation (ft): 666 Bottom Elevation (ft): 662 Contributing Area (acres): 4.4 Percent of Sub-Area (%): 22.2 Overland Type: Mountain Map Slope: 0.0541 Effective Slope: 0.0541 Q for Flow Path (cfs): 3.76

Q Top (cfs): 13.18

```
Q Bottom (cfs): 16.94
Velocity Top (ft/s): 3.07
Velocity Bottom (ft/s): 3.34
Avg Velocity (ft/s): 3.21
Wave Velocity (ft/s): 4.81
Tc for frequency = 25.00: 17.474 Minutes
DATA FOR SUB AREA 1
SUB AREA TIME OF CONCENTRATION: 17.474 min. = 17 min.
SUB AREA INPUT DATA
Sub Area Name: 1A
Total Area (ac): 19.8
Flood Zone: 3
Rainfall Zone: J'
Storm Frequency (years): 25
Development Type: Undeveloped
Soil Type: 2.00
Percent Impervious: 5
SUB AREA OUTPUT
Intensity (in/hr): 1.725
C Total: 0.744
Sum Q Segments (cfs): 25.40
Q Total (cfs): 25.40
Sum Percent Area (%): 100.0
Sum of Flow Path Travel Times (sec): 1,048.45
Time of Concentration (min): 17.474
DATA FOR FLOW PATH 1
Flow Path Name: FlowPath 1
FLOW PATH TRAVEL TIME (min): 16.6816
Flow Type: Overland
Length (ft): 810
Top Elevation (ft): 780
Bottom Elevation (ft): 702
Contributing Area (acres): 9.2
Percent of Sub-Area (%): 46.5
Overland Type: Mountain
Development Type: Undeveloped
Map Slope: 0.0963
Effective Slope: 0.0963
Q for Flow Path (cfs): 11.80
Avg Velocity (ft/s): 0.81
Passed Scour Check: YES
Scour Velocity (ft/sec): 0.00
DATA FOR FLOW PATH 2
______
Flow Path Name: FlowPath 2
FLOW PATH TRAVEL TIME (min): 0.0759
Flow Type: Natural Channel
Length (ft): 35
Top Elevation (ft): 702
Bottom Elevation (ft): 696
Contributing Area (acres): 3.6
Percent of Sub-Area (%): 18.2
Overland Type: Mountain
Map Slope: 0.1714
```

Page 3

Effective Slope: 0.1444

```
Q for Flow Path (cfs): 4.62
Q Top (cfs): 11.80
Q Bottom (cfs): 16.42
Velocity Top (ft/s): 4.84
Velocity Bottom (ft/s): 5.40
Avg Velocity (ft/s): 5.12
Wave Velocity (ft/s): 7.68
DATA FOR FLOW PATH 3
Flow Path Name: FlowPath 3
FLOW PATH TRAVEL TIME (min): 0.4926
Flow Type: Pipe
Length (ft): 290
Top Elevation (ft): 696
Bottom Elevation (ft): 666
Contributing Area (acres): 2.6
Percent of Sub-Area (%): 13.1
Initial Pipe Diameter (in): 24
Calculated Pipe Diameter (in): 15
Used Pipe Diameter (in): 24
Manning's N: 0.012
Map Slope: 0.1034
Q for Flow Path (cfs): 3.34
Q Top (cfs): 16.42
Q Bottom (cfs): 19.76
Avg Velocity (ft/s): 7.95
Wave Velocity (ft/s): 9.81
DATA FOR FLOW PATH 4
Flow Path Name: FlowPath 4
FLOW PATH TRAVEL TIME (min): 0.2240
Flow Type: Natural Channel
Length (ft): 74
Top Elevation (ft): 666
Bottom Elevation (ft): 662
Contributing Area (acres): 4.4
Percent of Sub-Area (%): 22.2
Overland Type: Mountain
Map Slope: 0.0541
Effective Slope: 0.0541
Q for Flow Path (cfs): 5.65
Q Top (cfs): 19.76
Q Bottom (cfs): 25.40
Velocity Top (ft/s): 3.52
Velocity Bottom (ft/s): 3.82
Avg Velocity (ft/s): 3.67
Wave Velocity (ft/s): 5.50
To for frequency = 50.00: 15.403 Minutes
DATA FOR SUB AREA 1
SUB AREA TIME OF CONCENTRATION: 15.403 min. = 15 min.
SUB AREA INPUT DATA
Sub Area Name: 1A
Total Area (ac): 19.8
Flood Zone: 3
Rainfall Zone: J'
Storm Frequency (years): 50
Development Type: Undeveloped
```

Soil Type: 2.00

Percent Impervious: 5 SUB AREA OUTPUT ----Intensity (in/hr): 2.088 C Total: 0,778 Sum Q Segments (cfs): 32.15 Q Total (cfs): 32.15 Sum Percent Area (%): 100.0 Sum of Flow Path Travel Times (sec): 924.16 Time of Concentration (min): 15.403 ______ DATA FOR FLOW PATH 1 Flow Path Name: FlowPath 1 FLOW PATH TRAVEL TIME (min): 14.8224 Flow Type: Overland Length (ft): 810 Top Elevation (ft): 780 Bottom Elevation (ft): 702 Contributing Area (acres): 9.2 Percent of Sub-Area (%): 46.5 Overland Type: Mountain Development Type: Undeveloped Map Slope: 0.0963 Effective Slope: 0.0963 Q for Flow Path (cfs): 14.94 Avg Velocity (ft/s): 0.91 Passed Scour Check: YES Scour Velocity (ft/sec): 4.22 DATA FOR FLOW PATH 2 Flow Path Name: FlowPath 2 FLOW PATH TRAVEL TIME (min): 0.0702 Flow Type: Natural Channel Length (ft): 35 Top Elevation (ft): 702 Bottom Elevation (ft): 696 Contributing Area (acres): 3.6 Percent of Sub-Area (%): 18.2 Overland Type: Mountain Map Slope: 0.1714 Effective Slope: 0.1444 O for Flow Path (cfs): 5.85 Q Top (cfs): 14.94 Q Bottom (cfs): 20.79 Velocity Top (ft/s): 5.24 Velocity Bottom (ft/s): 5.85 Avg Velocity (ft/s): 5.54 Wave Velocity (ft/s): 8.31 DATA FOR FLOW PATH 3 Flow Path Name: FlowPath 3 FLOW PATH TRAVEL TIME (min): 0.3029 Flow Type: Pipe Length (ft): 290 Top Elevation (ft): 696 Bottom Elevation (ft): 666 Contributing Area (acres): 2.6 Percent of Sub-Area (%): 13.1 Initial Pipe Diameter (in): 24 Calculated Pipe Diameter (in): 18

Used Pipe Diameter (in): 24

```
Manning's N: 0.012
Map Slope: 0.1034
Q for Flow Path (cfs): 4.22
Q Top (cfs): 20.79
Q Bottom (cfs): 25.01
Avg Velocity (ft/s): 12.30
Wave Velocity (ft/s): 15.96
DATA FOR FLOW PATH 4
Flow Path Name: FlowPath 4
FLOW PATH TRAVEL TIME (min): 0.2071
Flow Type: Natural Channel
Length (ft): 74
Top Elevation (ft): 666
Bottom Elevation (ft): 662
Contributing Area (acres): 4.4
Percent of Sub-Area (%): 22.2
Overland Type: Mountain
Map Slope: 0.0541
Effective Slope: 0.0541
Q for Flow Path (cfs): 7.15
Q Top (cfs): 25.01
Q Bottom (cfs): 32.15
Velocity Top (ft/s): 3.80
Velocity Bottom (ft/s): 4.14
Avg Velocity (ft/s): 3.97
Wave Velocity (ft/s): 5.95
To for frequency = 100.00: 12.637 Minutes
DATA FOR SUB AREA 1
SUB AREA TIME OF CONCENTRATION: 12.637 min. = 13 min.
SUB AREA INPUT DATA
Sub Area Name: 1A
Total Area (ac): 19.8
Flood Zone: 3
Rainfall Zone: J'
Storm Frequency (years): 100
Development Type: Undeveloped
Soil Type: 2.00
Percent Impervious: 5
SUB AREA OUTPUT
Intensity (in/hr): 2.492
C Total: 0.807
Sum Q Segments (cfs): 39.82
Q Total (cfs): 39.82
Sum Percent Area (%): 100.0
Sum of Flow Path Travel Times (sec): 758.19
Time of Concentration (min): 12.637
DATA FOR FLOW PATH 1
Flow Path Name: FlowPath 1
FLOW PATH TRAVEL TIME (min): 12.0753
Flow Type: Overland
Length (ft): 810
Top Elevation (ft): 780
Bottom Elevation (ft): 702
```

Contributing Area (acres): 9.2

```
Percent of Sub-Area (%): 46.5
Overland Type: Mountain
Development Type: Undeveloped
Map Slope: 0.0963
Effective Slope: 0.0963
Q for Flow Path (cfs): 18.50
Avg Velocity (ft/s): 1.12 Passed Scour Check: YES
Scour Velocity (ft/sec): 4.54
DATA FOR FLOW PATH 2
                         _____
Flow Path Name: FlowPath 2
FLOW PATH TRAVEL TIME (min): 0.0654
Flow Type: Natural Channel
Length (ft): 35
Top Elevation (ft): 702
Bottom Elevation (ft): 696
Contributing Area (acres): 3.6
Percent of Sub-Area (%): 18.2
Overland Type: Mountain
Map Slope: 0.1714
Effective Slope: 0.1444
Q for Flow Path (cfs): 7.24
Q Top (cfs): 18.50
Q Bottom (cfs): 25.74
Velocity Top (ft/s): 5.62
Velocity Bottom (ft/s): 6.28
Avg Velocity (ft/s): 5.95
Wave Velocity (ft/s): 8.92
DATA FOR FLOW PATH 3
Flow Path Name: FlowPath 3
FLOW PATH TRAVEL TIME (min): 0.3029
Flow Type: Pipe
Length (ft): 290
Top Elevation (ft): 696
Bottom Elevation (ft): 666
Contributing Area (acres): 2.6
Percent of Sub-Area (%): 13.1
Initial Pipe Diameter (in): 24
Calculated Pipe Diameter (in): 18
Used Pipe Diameter (in): 24
Manning's N: 0.012
Map Slope: 0.1034
Q for Flow Path (cfs): 5.23
Q Top (cfs): 25.74
Q Bottom (cfs): 30.97
Avg Velocity (ft/s): 12.87
Wave Velocity (ft/s): 15.96
DATA FOR FLOW PATH 4
Flow Path Name: FlowPath 4
FLOW PATH TRAVEL TIME (min): 0.1929
Flow Type: Natural Channel
Length (ft): 74
Top Elevation (ft): 666
Bottom Elevation (ft): 662
Contributing Area (acres): 4.4
Percent of Sub-Area (%): 22.2
Overland Type: Mountain
Map Slope: 0.0541
```

Effective Slope: 0.0541

Q for Flow Path (cfs): 8.85 Q Top (cfs): 30.97 Q Bottom (cfs): 39.82 Velocity Top (ft/s): 4.08 Velocity Bottom (ft/s): 4.44 Avg Velocity (ft/s): 4.26 Wave Velocity (ft/s): 6.39

Developed Conditions 15498 Lapeyre Court Moorpark, ĆA job number 7167 interior discharge subarea discharge area (10-year) (100-year) (cfs) (cfs) (acres) 1A(1) 1A(2) 18.5 9.2 7.9 3.6 3.1 7.2

2.2

3.8

5.2

8.9

2.6

4.4

1A(3) 1A(4)

Grating Basin Sizing 15498 Lapeyre Court Moorpark, CA

job number

100-year grate sizing

					calculated	grate	grate size	actual
	100-year	# of basins	discharge	assumed max.	grate size	type		opening
Grating Basin	Discharge		per basin	head on grate	opening			size
area	(Q)			(H)				İ
	(cfs)		(cfs)	(ft)	(sq ft)			(sq ft)
1A(2) (1/4)	1.8	4	0.45	0.1	0.58	square	12"	0.790
1A(3)	5.2	16	0.33	0.1	0.42	square	12"	0.790
1A(3)	5.2	5	1.04	0.5	0.60	atrium	18"	0.621

FORMULA:

Q =A*.61*(2gh)^0.5 a = Q/(((2gh)^0.5)*.61)

CATCH BASIN SIZE:	6" AREA DRAIN	12"X12" (part 1213)	12"x12" (part 1215)	18"X18"	Channel drain 6"x18'	Channel drain 6"x20'	12" ATRIUM GRATE	18" ATRIUM GRATE
OPEN AREA (in²) OPEN AREA	9.1	59.5	113.78	239	357.3	397	50.6	89.43
OPEN AREA (ft²)	0.063	0.413	0.790	1.660	2.481	2.757	0.351	0.621

Determination of Required Pipe Size (100-year event)

15498 Lapeyre Court

Moorpark, CA

job number 7167

For Hancor HDPE pipe, Kprov from Hancor Water Management Drainage Handbook, table 3-1

Kprov
2.5
7.3
15.7
28.5
46.3
84.0
136.6
206.0
294.4
533.0
866.8

Equations:

 $Kreq = Q/((S)^0.5)$

Kreq=Krequired

Kprov=46.3d^(8/3) Kprov=Kprovided

Kprov must be greater than Kreq

contributing subareas	Q100 (cfs)	slope	Kreq	Pipe Size (in)	Kprov	Kreq/Kprov
1A(2) (1/4)	1.8	0.050	8.0	6	7.3	110%
1A(1-2)	24.7	0.010	247.0	24	294.4	84%
1A(3) (1/4)	1.8	0.010	18.0	8	15.7	115%
1A(3) (half)	2.6	0.010	26.0	12	46.3	56%
1A(3)	5.2	0.020	36.8	12	46.3	79%
1A(1-3)	31.0	0.020	219.2	24	294.4	74%

Detention Volume for Attenuating Peak Runoff from Small Developed Areas 15498 Lapeyre Court

Moorpark, CA job number 7167

	undeveloped	developed
100-yr 1-d Rain in	6.5	6.5
Soil Type	2	2
Land Use	pasture, poor	farmstead
CN Exhibit 14	81	83
S = 1000/CN-10	2.35	2.05
Yield in	4.34	4.56
Volume	Calculation	
Yield Difference in		0.22
Surface Storage		0.00
Net Yield		0.22
Impervious Area ac		0.360
Vol Increase CF- Max		
Basin Size Req'd		281.72
proposed deter	ition basin vol	ume
bottom of basin (sq ft)		240
top of basin (at TG		
elevation) (sq ft)		617
depth of basin (ft)		1
volume (cubic ft)		428.5

Standpipe Calculations

15498 Lapeyre Court

Moorpark, CA

job number 7167

Weir equation for sharp crested weir:

Q=K(2*g)^0.5*LH^1.5

K=0.4+0.05*(h/p), where p is equal to the height from the top of the debris to the top of the riser

28.7 cfs

BASIN 1

elevation of top of standpipe= 698.8 ft elevation of bottom of basin= 697 ft top of basin = 700 ft discharge, Q100= 25.7 cfs head above weir, H = 1.2 ft 1.8 ft p =weir coefficient, K 0.433333 diameter of riser = 2 ft length of weir (circumference), L = 6.28 ft

top of standpipe capacity, Q =

24" PIPE ORIFICE CALCS

Project Description and the Project of the contract of the project of the contract of the cont

Solve For

Headwater Elevation

Input Data

Discharge	25.70	ft³/s
Centroid Elevation	695.00	ft
Tailwater Elevation	696.18	ft
Discharge Coefficient	0.62	
Diameter	2.00	ft

and the control of th	and the second second second	42.45
Headwater Elevation	698.89	ft
Headwater Height Above Centroid	3.89	ft
Tailwater Height Above Centroid	1.18	ft
Flow Area	3.14	ft²
Velocity	8.18	ft/s

STORM DRAIN ANALYSIS PLUS

Original version by Los Angeles County Public Works Portions Copyrighted by CIVILSOFT, 1986, 1987, 1989

Version 1.20 Serial Number 07010233

May 23, 2018 10:53:45

Input file : 7167A100.DAT
Output file: 7167A100.OUT

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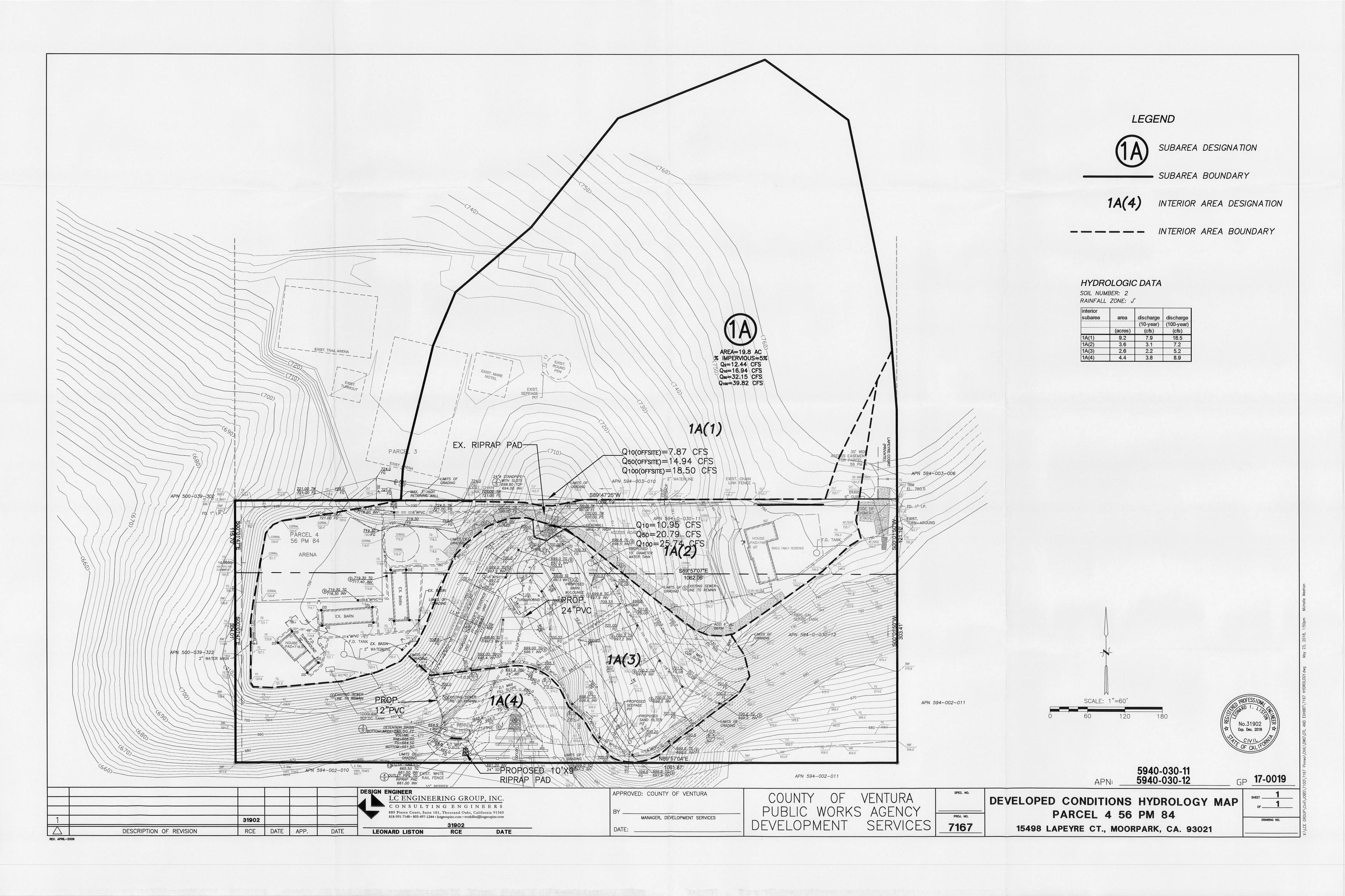
Energy Dissipator Design - RIP RAP	PAD	
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Job Number 7167		
27-Mar-18		
Discharge, Q =	30.9	cfs
pipe diameter, D =	2	ft
flow area at end of pipe, Ao =	1.39	sq ft
equivalent depth, $y_e = (A/2)*0.5 =$	0.83	ft
depth, $y_n =$	0.91	ft
velocity, V _o =	20.9	ft/sec
Froude number, Fr=Vo/(g*y _e)1/2=	4.04	
tailwater depth, TW=	0.96	ft
$D_{50}=0.2*D*(Q/(g^{0.5})(D^{2.5}))^{1.33*}(D/TW)$	0.79	ft
$D'=(D+y_n)/2$	1.46	ft
from table 10.1, HEC-14, Apron Length=5D=	10.00	ft
from table 10.1, HEC-14, Apron Depth=2.4*D ₅₀ =	1.90	ft
Width of Apron=W1=3*D	6.00	ft
Width of Apron=W2=W1+2*L/3	9.33	ft

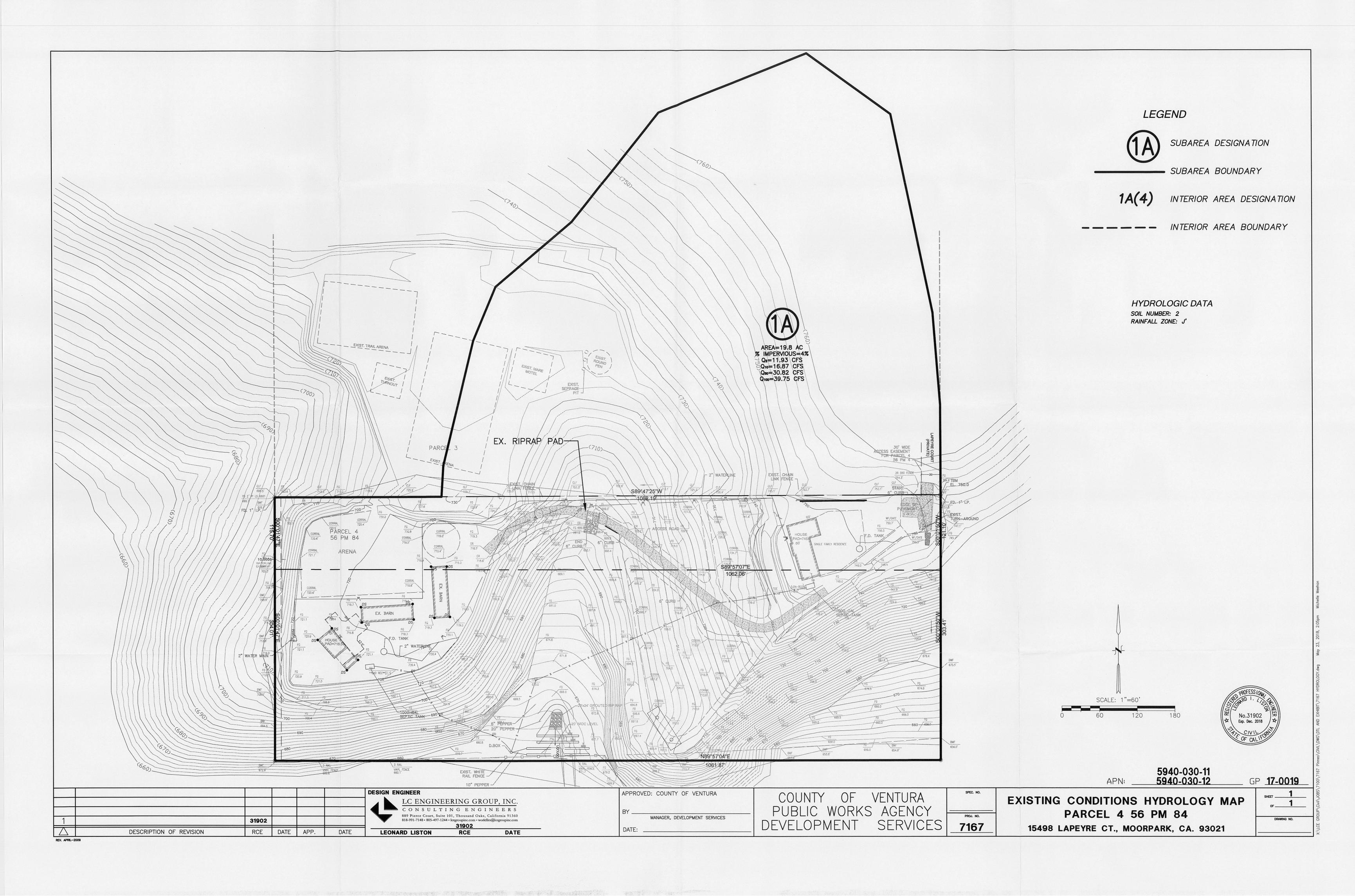
Table 10.1. Example Riprap Classes and Apron Dimensions

Class	D ₅₀ (mm)	D ₅₀ (in)	Apron Length ¹	Apron Depth
1	125	5	4D	3.5D ₅₀
2	150	6	4D	3.3D ₅₀
3	250	10	5D	2.4D ₅₀
4	350	14	6D	2.2D ₅₀
5	500	20	7D	2.0D ₅₀
6	550	22	8D	2.0D ₅₀

¹D is the culvert rise.

APPENDIX C





ATTACHMENT 6

ATTACHMENT 6 – WORKS CITED

- California, State of. 2018a. "California Environmental Quality Act (CEQA)." California Public Resources code, Division 13, §§ 21000 et seq.
- California, State of. 2015b. "Government Code."
- California, State of. 2018c. "Public Resources Code."
- California, State of. 2018. "Guidelines for Implementation of the California Environmental Quality Act (CEQA Guidelines)." Title 14, California Code of Regulations, Chapter 3, § 15000 et seq.
- CalWest Geotechnical Consulting Engineers. 2018. "Addendum Geotechnical Engineering Report."
- CalWest Geotechnical Consulting Engineers. 2017. "Update Geotechnical Engineering Report."
- County of Ventura. 2011. "Ventura County Initial Study Assessment Guidelines."
- County of Ventura. 2016. "Ventura County General Plan Goals, Policies and Programs."
- County of Ventura. 2018. "Resource Management Agency (RMA) Geographic Information System (GIS) Aerial Imagery and Maps."
- County of Ventura. 2016. "Ventura County 2016 Building Code Ordinance Number 4496, Appendix J Grading."
- Envicom Corporation. 2018. "Initial Study Biological Assessment (ISBA)."
- LC Engineering Group, Inc. 2018. "Hydrology and Hydraulics Study."
- Ventura County Air Pollution Control District. 2016. "Ventura County 2016 Air Quality Management Plan."
- Ventura County Fire Protection District. 2017. "VCFPD Access Standards."
- Ventura County Fire Protection District. 2016. "Ventura County Fire Code."



Public Works Agency Staff Report – Hearing on August 30th, 2019

WORKS County of Ventura · Public Works Agency · Engineering Services Division
800 S. Victoria Avenue, Ventura, CA 93009-1670

EXHIBIT 5

county of ventura

Discretionary Grading Permit No.: GP17-0019

Location: 15498 Lapeyre Court, Moorpark



August 16th, 2019

Permittee: Charles Pinneo

Jeff Pratt Agency Director

Central Services Debra Cavaletto, Acting Director

Engineering Services

Christopher Cooper, Director

Transportation

David Fleisch, Director

Water & Sanitation

Michaela Brown, Director

Watershed Protection Glenn Shephard, Director

DRAFT CONDITIONS OF APPROVAL AND MITIGATION MONITORING AND REPORTING

Assessor's Parcel Numbers (APNs): 594-0-030-110 and 594-0-030-125

- 1. APCD Rules and Regulations for Project Grading
- **a. Purpose**: To ensure that fugitive dust and particulate matter that may result from site preparation and grading activities are minimized to the greatest extent feasible.
- **b. Requirement**: The Permittee shall comply with the provisions of applicable VCAPCD Rules and Regulations, which include but are not limited to, Rule 50 (Opacity), Rule 51 (Nuisance), and Rule 55 (Fugitive Dust).
- **c. Documentation**: The project applicant shall ensure compliance with the following provisions:
 - I. The area disturbed by clearing, grading, earth moving, or excavation operations shall be minimized to prevent excessive amounts of dust;
 - II. Pre-grading/excavation activities shall include watering the area to be graded or excavated before commencement of grading or excavation operations. Application of water should penetrate sufficiently to minimize fugitive dust during grading activities;
- III. All trucks shall cover their loads as required by California Vehicle Code §23114.
- IV. Fugitive dust throughout the construction site shall be controlled by the use of a watering truck or equivalent means (except during and immediately after rainfall). Water shall be applied to all unpaved roads, unpaved parking areas or staging areas, and active portions of the construction site. Environmentallysafe dust control agents may be used in lieu of watering.





- V. Graded and/or excavated inactive areas of the construction site shall be monitored at least weekly for dust stabilization. Soil stabilization methods, such as water and roll compaction, and environmentally safe dust control materials, shall be periodically applied to portions of the construction site that are inactive for over four days. If no further grading or excavation operations are planned for the area, the area should be hydro-seeded and watered until growth is evident, or periodically treated with environmentally safe dust suppressants, to prevent excessive fugitive dust.
- VI. Signs shall be posted onsite limiting traffic to 15 miles per hour or less.
- VII. All clearing, grading, earth moving, or excavation activities shall cease during periods of high winds (i.e., wind speed sufficient to cause fugitive dust to be a nuisance or hazard to adjacent properties). During periods of high winds, all clearing, grading, earth moving, and excavation operations shall be curtailed to the degree necessary to prevent fugitive dust created by onsite activities and operations from being a nuisance or hazard, either offsite or onsite.
- VIII. Personnel involved in grading operations, including contractors and subcontractors, should be advised to wear respiratory protection in accordance with California Division of Occupational Safety and Health regulations.
- IX. Signs displaying the APCD Complaint Line Telephone Number (805) 654-2797 for public complaints shall be posted in a prominent location onsite but clearly visible to the public off the site.
- X. Unpaved parking areas should be covered with gravel to minimize fugitive dust.
- d. Timing: Throughout the grading phases of the project.
- **e. Reporting and Monitoring**: Dust control is a standard condition on all Grading Permits issued by Publics Works Agency and grading inspector shall perform periodic site inspections throughout the grading period. Monitoring and Enforcement of dust-related provisions for grading operation shall also be conducted by APCD staff and is complaint-driven. (APCD-1).

2. <u>Biological Resource Condition:</u>

a. Purpose: The project site contains suitable habitat for breeding and nesting birds, where construction activities can potentially impact protected breeding and nesting birds. Mitigation, monitoring and avoidance measures are necessary to protect biological resources.





- b. Requirement: If work during the nesting season cannot be avoided, prior to vegetation removal activities, the Applicant shall have a County approved qualified biologist survey all breeding and nesting habitat within 500 feet of the development footprint for breeding and nesting birds. If no breeding/nesting birds are observed site preparation and grading activities may begin. If breeding activities and/or an active nest is located, a buffer shall be established by the biologist and this area shall not be disturbed until the nest becomes inactive, the young have fledged, the young are no longer being fed by the parents, the young have left the area and the young will no longer be impacted by the project. In the case that a special-status bird is found nesting within 500 feet of the project activities, project activities shall be stopped until the Applicant consults with the CDFW, and the USFWS (when applicable), to determine how to proceed:
 - I. The breeding and nesting season shall be observed January 1 through September 1.
 - II. If work is conducted during the bird breeding and nesting season, a County-approved qualified biologist will conduct a preconstruction survey for nesting birds within the project site and suitable nesting habitat within 500 feet of the project site. Surveys shall be conducted every 3-4 days for two consecutive weeks with the last survey no more than three days prior to project implementation. If the biologist does not find any active nests within the survey area during the preconstruction survey, the construction work will be allowed to proceed. If the biologist finds an active nest within the project site and determines that the nest may be impacted, the biologist will delineate an appropriate buffer zone around the nest prior to the initiation of work. The size of the buffer zone will depend on the affected species and the type of construction activity;
 - III. Any active nests observed during the survey will be mapped on an aerial photograph;
 - IV. Only construction activities (if any) that have been approved by the biological monitor will take place within the buffer zone until the nest is vacated; and,
 - V. The biologist shall serve as a construction monitor during those periods when construction activities occur near active nest areas to ensure there are no inadvertent impacts on the nests.





- c. Documentation: The Permittee shall submit the pre-construction nesting birds survey report and a plan for continued surveys and avoidance measures to the Lead Agency prior to work beginning if Permittee plans to conduct construction activities during the breeding and nesting season.
- **d. Timing:** Throughout the project.
- **e. Monitoring and Reporting:** A letter from County-approved biologist documenting the results of the surveys shall be submitted to the County prior to commencement of grading for the project.

3. Environmental Health Division:

Existing Onsite Wastewater Treatment System (OWTS)

The site plan for proposed project depicts an existing OWTS consisting of two 1000- gallon septic tanks which drain into one leach field at the southern end of the property. Site plan also depicts a proposed detention basin directly adjacent to the existing leach field. The existing distribution box and sewer lines from both existing septic tanks are within the proposed grading area. The existing sewer line from the septic tank adjacent to the house pad at the western end of the property passes through the proposed detention basin. Grading activities may result in damage to OWTS sewer piping, and the location of the new buildings and the new detention basin may require the sewer lines to be relocated/reconfigured. An OWTS repair permit issued by this Division is required for any OWTS component damaged, removed, or relocated resulting from this grading project. An OWTS setback certification to verify adequate distance of the proposed detention basin to the existing leach field is required.

Proposed OWTS for New Buildings

Proposed project description includes "importing and grading" to create an area for new structures which will require the installation of a new OWTS. The site plan for proposed project shows the proposed seepage pits and sand filter are located within the proposed grading area. An evaluation of the proposed OWTS shall be conducted by this Division prior to construction. Division Liquid Waste staff will determine if the proposed seepage pits are properly designed and sited based on soil conditions after





the grading activities have been completed. An OWTS that is improperly installed, failing, damaged, or poorly maintained has the potential to create a public nuisance and/or health concern and contaminate groundwater. Conformance with the Ventura County Building Code, State OWTS policy, and EHD guidelines, as well as proper routine maintenance of OWTS, will reduce any project- specific and cumulative impacts to a level considered less than significant.

1. New OWTS Installation

- a. Purpose: To demonstrate the feasibility for the installation of an onsite wastewater treatment system (OWTS), also known as a septic system or individual sewage disposal system. To demonstrate compliance with state and local regulations related to the design and installation of an OWTS. Only domestic waste as defined in the Ventura County General Plan and the Ventura County Building Code Ordinance is allowed to be discharged into the on-site sewage disposal system.
- b. Requirement: Permittee shall submit a soils/geotechnical report and OWTS system design satisfactory to the Ventura County Environmental Health Division, Liquid Waste Program (EHD). Permittee shall also obtain the approval of the EHD to install an OWTS on the property.
- c. Documentation: Submit soils/geotechnical report, OWTS design, and OWTS application to the EHD for review and approval. Submit all applicable documentation, including permit application, site plan, system design, bedroom and fixture unit equivalent worksheet, etc., to EHD for review and approval.
- d. **Timing:** Prior to the issuance of a building permit pertaining to the project, OWTS design approval and permit to construct the septic systems shall be obtained from EHD.
- e. Monitoring: To assure compliance with this condition, EHD staff shall review and verify all relevant documentation, including but not limited to: geotechnical report, system design calculations, building codes, and historic geological data for the area. Once the OWTS design has been evaluated to the satisfaction of EHD, the OWTS plans will be approved and EHD shall issue a permit to construct, conduct site inspections, and give final approval of the OWTS.





f. Ongoing Maintenance: Once the OWTS has been installed and finalized by EHD, it is the owner's responsibility to properly maintain the system so as to prevent OWTSfailure or an unauthorized sewage release, and to prevent creating a public nuisance, health concern, or impact the environment. The septic tank shall be serviced, as needed, by a septic pumper truck registered and permitted by Ventura

County EHD, and all pumping activities shall be reported to EHD. All

County EHD, and all pumping activities shall be reported to EHD. All septage wastes must be disposed of in an approved manner. EHD staff will also receive and respond to any complaints related to OWTS and/or unauthorized sewage releases.

4. Transportation Department (PWA)

- 1. TRAFFIC IMPACT MITIGATION FEE:
- a. **Purpose:** To address the cumulative adverse impacts of traffic on the Regional Road Network, Ventura County General Plan Goals, Policies, and Programs Section 4.2.2-6 and Ventura County Ordinance Code, Division 8, Chapter 6 require that the PWATD collect a Traffic Impact Mitigation Fee (TIMF).
- b. Requirement: The applicant/permittee shall deposit a TIMF with the PWATD. The trip generation rate and TIMF will be calculated based on the applicant's information. The applicant/permittee may choose to submit additional information or provide a Traffic Study to supplement the information currently provided to establish the trip generation rate. The TIMF may be adjusted for inflation at the time of deposit in accordance with the latest version of the Engineering News Record Construction Cost Index.

Based on the applicant's information:

b. The TIMF due to the County would be:

 $2^{(1)}$ DU (Other Housing) x \$176.00⁽²⁾ per DU = \$352.00 Notes

- 1. *Construction of 2 caretaker units under one building, Other Housing Dwelling Unit (DU), based on the information provided by the applicant.
- 2. County TIMF for the Other Housing DU in the Moorpark Area District #4.





- 3. The TIMF due to the City of Moorpark will not be collected. The reciprocal agreement between the City and the County allows for the collection of Traffic Mitigation Fee based on the City's "normal procedures" or based on Traffic Impact Mitigation Fee (TIMF) Program adopted by the City. The City of Moorpark has not confirmed what the "normal procedure" is or adopted a TIMF program. Until either the City Council adopts the required TIMF Program and establishes the rate or the City can provide information showing how the City's normal procedures comply with the requirement to adopt a TIMF Program, the County will discontinue collecting the City reciprocal TIMF for projects approved by the County.
- **c. Documentation:** The applicant/permittee shall come to the PWA Transportation Department counter, fill out the TIMF form, and pay the TIMF. The applicant/permittee shall provide a copy of the Conditions of Approval for the project. The fee may not be collected without sufficient documentation.
- **d. Timing:** This condition shall be met prior to the issuance of Use Inauguration.
- **e. Monitoring and Reporting:** The PWATD will review and approve the payment of the TIMF. (TD 1, RMA 135).

5. <u>Ventura County Fire Protection District</u>

Access Road Width- An onsite access road/driveway width shall be a minimum of 15 feet.

Alternate Access Pavers - Alternate access pavers and Grass Crete shall be capable of supporting 20,000 lbs. of fire apparatus.

Access Road Location - The access / driveway shall be extended to within 150 feet of all portions of the exterior walls of the first story of any building and shall be in accordance with Fire District access standards.

Driveway Horizontal Turn Radius. No driveway shall have a centerline horizontal radius curvature of less than 40 feet. When transitioning from one curve to another curve in the opposite direction, a recovery distance of not less than 40 feet shall be provided.

Vertical Curve. The vertical curve of a driveway shall not allow for transitions between grades that exceed 6% elevation change along any 10 foot section.





These transitions shall include; angle of approach, angle of departure and high centering of fire apparatus.

Driveway Turnaround Location. *Turnarounds* shall be located within 150 feet of the termination of the *driveway*.

SRA Driveway Surface, Construction and Grade Limitations. *SRA Driveways* shall have a structural cross section and surface complying with one of the following based upon grade limitations as indicated below:

- I. Alternate surfaced driveways constructed in accordance with Chapter 10 shall be permitted to be installed where grades do not exceed 10%. All alternate surfaced *driveways* shall be certified by a State of California registered civil engineer.
- II. Grades up to 16% shall be asphalt or concrete. Structural sections shall be in accordance approved public road standards for the jurisdiction the structure will be constructed. When there are no approved road standards, the Ventura County Road Standards shall apply.

6. <u>Watershed Protection District (WPD) County Stormwater Program</u> Conditions:

- 1. Compliance with the Stormwater Development Construction Program
 - a. Purpose: To ensure compliance with the Los Angeles Regional Water Quality Control Board NPDES Municipal Stormwater Permit No.CAS004002 (Permit) the proposed project will be subject to the construction requirements for surface water quality and storm water runoff in accordance with Part 4.F., "Development Construction Program" of the Permit.
 - b. Requirement: The construction of the proposed project shall meet requirements contained in Part 4.F. "Development Construction Program" of the Permit through the inclusion of effective implementation of the Construct ion BMPs during all ground disturbing activities. In addition, Part 4.F requires additional inspections to be conducted by the Qualified Stormwater Pollution Prevention Plan (SWPPP) Developer, Qualified SWPPP Practitioner, or Certified Professionals in Erosion and Sediment Control (CPESC).
 - **c. Documentation**: The Permittee shall submit to the Watershed Protection District County Stormwater Program Section (CSP) for review and





approval a completed and signed SW-2 form (Best Management Practices for Construct ion One Acre and Larger) and an SW-HR form (Best Management Practices for Construction at High Risk Sites), which can be found at http://onestoppermit.ventura .org/.

- **d. Timing**: The above listed item shall be submitted to the CSP for review and approval prior to Grading Permit issuance.
- e. Monitoring and Reporting: CSP will review the submitted materials for consistency with the NPDES Municipal Stormwater Permit. Grading inspectors will conduct inspections during construction to ensure effective installation of the required BMPs and record keeping of conducting required inspections by the project proponents Qualified SWPPP Developer, Qualified SWPPP Practitioner, or CPESC. (CSP-1).
- 2. State General Construction Stormwater Permit No. CAS000002 Requirements
 - a. Purpose: To ensure compliance with all water quality provisions in NPDES State General Construction Stormwater Permit No. CAS000002, Waste Discharge Requirements for Discharges of Stormwater Runoff Associated with Construction Activities.
 - **b.** Requirement: Proper filing of all compliance documents required under the General Construction Permit No. CAS000002.
 - c. **Documentation**: The Permittee shall prepare and submit the following items to the Watershed Protection District County Stormwater Program Section (CSP) for review:
 - I. Current Notice of Intent (NOI) in accordance with the State Water Resources Control Board requirements under the General Construction Stormwater Permit (No. CAS000002);
 - II. Current Stormwater Pollution Prevention Plan (SWPPP) in accordance with the State Water Resources Control Board requirements under the General Construction Permit; and
 - III. If applicable, Change of Information (COI) form and a copy of modified SWPPP at any time a transfer of ownership takes place for the entire development or portions of the common plan of development where construction activities are still on-going.





- d. Timing: The above listed items (i and ii) shall be submitted to the CSP staff for review prior to Grading Permit issuance. In addition, if applicable, the COI form and a copy of modified SWPPP (item iii) shall be submitted anytime during project duration.
- e. **Monitoring and Reporting**: CSP staff will review the submitted materials for consistency with the General Construction Permit. Up-to-date and site-specific SWPPP shall be kept on-site for periodic review by the Grading Permit inspectors. (CSP-2).

<u>Mitigation Measure BIO-1: Compensatory Mitigation for the Loss of Prickly Pear Cactus Scrub</u>

Purpose: To mitigate potentially significant impacts to coast prickly pear – mixed coastal sage scrub vegetation communities at a 2:1 mitigation to impact ratio for the loss of 0.41 acres.

Requirement: At least 0.82 acres of prickly pear cactus scrub shall be restored and permanently protected on-site. The areas selected to be restored on-site (Restoration Areas) shall be located outside of development and fuel modification areas and shall be permanently maintained in open space through a deed restriction. The Restoration Plan shall be prepared by a County-approved qualified biologist. The Restoration Plan shall include the following:

- 1. Restoration of prickly pear cactus scrub and the establishment of prickly pear cactus scrub and its ecosystem's functions and values.
- 2. A site plan showing the location of the designated Restoration Area(s). To ensure the restoration site meets or exceeds the success criteria, the location of a reference site for prickly pear cactus scrub shall be described by an address, Assessor's Parcel Number, or other distinguishing characteristics whereby the reference site can be found. The following data for the reference site shall include:
 - a. An ecologically intact example of the alliance with minimal disturbance;
 - b. Total percent cover by native plant species;
 - c. Species richness; and
 - d. Total percent cover by non-native plant species.

The above-referenced data should be based on at least 30 data points collected within the proposed reference site in order to base a through d on a statistically





defensible value. The data collection method should be specified (e.g. point intercept, line intercept, quadrats, or some other valid method of determining cover values).

- 3. Success Criteria Restoration shall accomplish a target survivorship of 80%-90% of transplanted individuals in excellent or good health, <1% of non-native herbaceous species after five years, and 0% for other invasive plants that are ranked high or moderate on the California Invasive Plant Council (Cal-IPC) list within the restoration area.</p>
- 4. Identification of the name, address, phone number, email address, and the responsibilities of the individuals responsible for implementing the plan, including, but not limited to, the Biological Monitor (who must be a Qualified Biologist) and Restoration Contractor. The Permittee shall notify the Planning Division if any changes or additions occur to the designated Responsible Parties.
- 5. Condition Criteria Prior to earth disturbing activities, cactus pads intended for propagation will be collected. Collected material shall be in condition without excessive blemishes, abnormalities, and pest infestation. To ensure suitable salvaged material is collected and propagated the following activities shall be implemented:
 - a. On the first day of grubbing activities the Responsible Parties will identify material that meets the salvage criteria identified in the Restoration Plan including techniques for cactus pad collection;
 - b. The Responsible Parties shall conduct a pre-construction meeting with the contractors, construction workers and other consultants, for the purpose of identifying biological resources to avoid, including but not limited to, prickly pear cactus scrub areas designated for restoration; and
 - c. Prior to the propagation of the salvaged cactus pads, the Biological Monitor will inspect the salvaged material to ensure it meets the criteria established in the Restoration Plan.
- 6. A description of the methods for extraction, stockpiling, transplanting, and seeding.
- 7. A Maintenance and Monitoring Plan to ensure that the restored plant communities meet the success criteria by Year 5. The Maintenance and Monitoring Program





shall include, but not be limited to, Quantitative and Qualitative Monitoring Methods, Adaptive Management and Contingency Measures, weed control and Best Management Practices to avoid impacting the prickly pear cactus scrub, including the remaining prickly pear cactus scrub adjacent to impact areas and the Restoration Areas, during grading and construction activities.

The Permittee shall record the site plan that graphically shows the Restoration Areas with the Conditions of Approval for Case No. GP17-0019 in the Office of County Recorder. The recordation of the approved Restoration Site Plan and conditions of approval serve as notification that future development will be prohibited in the Restoration Areas and that the Restoration areas shall remain preserved.

Documentation: The Permittee shall provide the Planning Division with a Restoration Plan prepared by a County-approved qualified biologist that meets the requirements of this condition. The Permittee shall submit a copy of the recorded conditions of approval and Restoration Site Plan to the Planning Division. The Permittee shall submit a report with photographs of the restoration area and a description of the restoration work to demonstrate to the Planning Division that implementation of the Restoration Plan has commenced. The Permittee shall provide annual reports prepared by a County-approved qualified biologist on the progress of the restoration area for five years (or more, if the success criteria have not been met by Year 5).

Timing: Prior to issuance of a Zoning Clearance for construction, the Permittee shall (1) submit the Restoration Plan to the Planning Division for review and approval; (2) record the conditions of approval and the approved Restoration Site Plan; and, (3) provide a copy of the recorded conditions of approval and Restoration Site Plan to the Planning Division. Implementation of the Restoration Plan shall commence prior to occupancy. The annual reports must be provided to the Planning Division by December 31st of each year during the monitoring period.

Monitoring and Reporting: The Planning Division shall review the Permittee's description of the restoration work performed, photographs of the restoration area, and conduct a site visit, to confirm that implementation of the Restoration Plan has commenced prior to occupancy. The restoration area must be monitored by a County-approved qualified biologist for at least five years (or more, if the success criteria have not been met by Year 5). The biologist shall provide an annual report on the status of the restoration area, including results of qualitative monitoring (i.e., photographs taken at





permanent photo-points, observations of the health and condition of plantings and wildlife use of the restoration area, if feasible) and quantitative monitoring (i.e., randomly placed transects to estimate cover and richness), to the Planning Division for the length of the monitoring period. The Permittee shall submit the annual reports to the Planning Division to demonstrate compliance with this condition and the success criteria. The release of the requirement for monitoring the restoration area may occur when the Planning Division determines that the success criteria have been met by Year 5 or later, based on the annual reports and a Planning Division staff site inspection.







Permittee shall implement the Conditions of Approval and the Mitigation Measure described above, which have been developed in conjunction with the preparation of a Mitigated Negative Declaration for the Discretionary Grading Permit, GP17-0019. The Permittee understands that these conditions and mitigation measures are conditions of approval of grading permit number GP17-0019, in order to reduce the environmental impacts to a less-than-significant level. These conditions of grading permit number GP17-0019 are in addition to the standard conditions for grading per the 2016 Ventura County Building Code, Appendix J-Grading and the Los Angeles Regional Water Quality Control Board Municipal Separate Storm Sewer System (MS4) Permit, NPDES No. CAS004002.

Permittee shall defend, indemnify and hold harmless the County of Ventura and its boards, agencies, departments, officers, employees, agents and volunteers from and against any and all claims, lawsuits, judgments, debts, demands and liability, including, without limitation, liabilities, defense and legal costs, interest, attorney's fees and expenses of any kind whatsoever arising directly or indirectly out of acts, or omissions, of Permittee or Permittee's representatives, in the performance of any activities in connection with grading permit number GP17-0019.

PERMITTEE		
Charles Pinneo	Date	







Public Works Agency Staff Report – Hearing on August 30th, 2019

County of Ventura · Public Works Agency · Engineering Services Division

800 S. Victoria Avenue, Ventura, CA 93009-1670

EXHIBIT 6



County of Ventura Public Works Agency Engineering Services Department MEMORANDUM

Date:

August 15th, 2019

To:

Chris E. Cooper, Director Engineering Services

Jim O'Tousa, Interim Manager – Development and Inspection Services

From:

Jeff Pratt, Public Works Agency Director

Subject:

Discretion Grading Permit GP17-0019 – Delegation of Building Official

Duties Including the Public Hearing and Issuing the Discretionary

Grading Permit

<u>Brian D'Anna</u> will serve on my behalf as the Building Official at the Public Hearing on Friday, August 30th, 2019. Your role will also include issuing or denying the permit after holding the Public Hearing and overseeing the appeal process, if an appeal is filed by any interested party.

If the discretionary permit is issued, <u>Jim O'Tousa</u>, will serve as the Building Official for the construction period after the permit issuance, which includes project closure.

Please follow the procedures for administering and processing a discretionary grading permit in accordance with the 2016 Ventura County Building Code, Appendix J – Grading.

Appointment Date:

Jeff Pratt, Agency Director