



PERMIT APPLICATION FOR AGRICULTURAL GRADING, DRAINAGE, AND/OR VINEYARD/ORCHARD SITE DEVELOPMENT (VESCO)

OFFICE USE ONLY

- Tree Removal Regular Ag Grading Regular Ag Drainage
- Cohesionless Soils Engineered Grading Engineered Drainage

CHECK ALL THAT APPLY

- New Vineyard Level I
- Replant Orchard Level II

NOTE: PERMIT MUST BE APPROVED BEFORE ANY WORK BEGINS.

Incomplete applications will not be accepted. Applications submitted after September 15th may not be issued in same calendar year. See Page 13 for instructions on completing this application packet. An intake appointment is no longer required but can be scheduled if needed. Please call (707) 565-2371 to schedule an appointment.

<u>OFFICE USE ONLY</u>	
Date Received: _____ / _____ / _____	
Fee Paid: \$ _____ AG #: _____	
Permit Issued: _____ / _____ / _____	
Issued By: _____	
ACO #: _____	
Site Address: _____	
City: _____	
APN(s): _____	
Application Acreage: _____ Setbacks: Yes No	

PART A – CONTACT INFORMATION

PROPERTY OWNER: _____ Check if **BILLING CONTACT:**

BUSINESS NAME: _____

BILLING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

APPLICANT/LEASEE (if different): _____ Check if **BILLING CONTACT:**

BUSINESS NAME: _____

BILLING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

PROJECT SITE MANAGER (on site): _____ Check if **BILLING CONTACT:**

BUSINESS NAME: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

PROJECT ENGINEER: _____ Check if **BILLING CONTACT:**

BUSINESS NAME: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

PART B – PROJECT DETAILS / PROJECTS WITH GRADING AND/OR DRAINAGE

PROJECT DETAILS

SITE ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

ASSESSOR'S PARCEL NUMBER(S): _____

TOTAL ACREAGE OF PARCEL(S): _____ ACREAGE OF SOIL DISTURBANCE: _____

ACRES TO BE PLANTED/REPLANTED: _____ ACRES OF TREE CANOPY TO BE REMOVED: _____

EXISTING VINEYARD/ORCHARD ACREAGE: _____ EXISTING LAND USE & VEGETATION (check one):

- Ag Crop Pasture Rangeland
- Timberland Other: _____

HIGHEST SLOPE: _____ METHOD USED TO DETERMINE SLOPE (check one):

- USGS Topo Clinometer Field Survey LiDAR
- Other: _____

NRCS SOIL TYPE(S): _____

PROJECTS WITH GRADING

TOTAL VOLUME OF CUTS (in YD³): _____ TOTAL VOLUME OF FILLS (in YD³): _____

GREATEST SLOPE CREATED BY CUTS: _____ GREATEST DEPTH OF CUT SLOPES CREATED: _____

HEIGHT OF CUT SLOPES CREATED: _____ HIGHEST NATURAL SLOPE OF GRADING AREA: _____

ACRES TO BE GRADED: _____ FILL MATERIAL(S) TO BE USED: Rock Soil
 Other: _____

IS PROJECT WITHIN ANY OF THE FOLLOWING AREAS? (check all that apply):

SPECIAL FLOOD HAZARD AREA: Yes No

DESCRIBE: _____

FLOOD-PRONE URBAN AREA: Yes No

DESCRIBE: _____

GEOLOGICAL HAZARD AREA COMBINING DISTRICT: Yes No

DESCRIBE: _____

PROJECTS WITH DRAINAGE

TYPE(S) OF DRAINAGE IMPROVEMENT: Circular Pipe V-Ditch Sheet Flow

CROSS SECTIONAL AREA (SQ FT) OF DRAINAGE IMPROVEMENT: _____

ACRES OF DRAINAGE BASIN AFFECTED BY DRAINAGE IMPROVEMENT: _____

PART C – SITE DETAILS / BMPs / TIMELINE

SITE DETAILS

HYDROLOGY: List hydrological features (perennial/ephemeral streams, wetlands, ponds, etc.) that occur in development area. Include planned setback requirements. *Follow setbacks in accordance with Sonoma County Code, Chapter 36, and Best Management Practices for Agricultural Erosion and Sediment Control available at www.sonomacounty.ca.gov/AWM.*

SENSITIVE SITES: Identify areas (critical habitat, riparian areas, archeological sites, etc.) in development area that may need to be protected from erosion or sedimentation. *Refer to US Fish & Wildlife Service’s Critical Habitat Mapper at <http://ecos.fws.gov/crithab> to find out if your project is in a sensitive habitat.*

VEGETATION: Describe proposed changes to species composition (tree removal, riparian restoration, etc.) in development area.

BEST MANAGEMENT PRACTICES (BMPs)

FARMING PRACTICES: List land preparation strategies (ripping, discing, terracing, dry farming, etc.) planned in development area.

DRAINAGE: Describe drainage structures proposed in development area (check where appropriate and describe below):

- Surface Sheet Flow Circular Pipe V-Ditch Sub-Drain

PART C – SITE DETAILS / BMPs / TIMELINE

BEST MANAGEMENT PRACTICES (BMPs)

ROADS AND AVENUES: Choose type of roads and avenues in development area (check where appropriate and describe below):

- All-Weather Rocked
- Grassy Avenues
- Insloped
- Outsloped
- Water Bars
- Other

EROSION AND SEDIMENT CONTROLS: Choose appropriate BMPs proposed to control erosion and sedimentation in development area (check where appropriate and describe below):

- Cover Crop
- Straw Mulch
- Straw Wattles
- Jute Netting
- Straw Bale Dikes
- Vegetated Filter Strips
- Other

TIMELINE

TIMELINE: Include all phases of projects (including agricultural grading and/or drainage improvements) and list implementation dates for both temporary and final erosion and sediment control measures.

REMINDERS

- VESCO permits expire five (5) years from date of issue.
- Grading/drainage permits expire three (3) years from date of issue.
- Biological assessments or studies expire three (3) years after they are conducted.
- Agricultural grading, agricultural drainage, and vineyard/orchard site development is prohibited during the “rainy season” as noted below:
 - All site preparation and winterization for new development, grading, and drainage shall occur between April 1st and October 15th.
 - All site preparation and winterization for replanting projects shall occur between April 1st and November 15th.

OFFICE USE ONLY

Other permits that may be required (may include, but not limited to):

PART D – AUTHORIZATION

PROJECT AUTHORIZATION DECLARATION

I, _____, declare under penalty of perjury that the information provided in connection with this application is true and correct to the best of my knowledge. I understand that issuance of a permit does not relieve me of the obligation to comply with other federal, state, or local laws or regulations, or from liability for violations of those laws and regulations. I acknowledge that the County is not authorizing a take of any federal or state endangered species by issuance of this permit, and I further declare under penalty of perjury that I will take all steps necessary to comply with any applicable provisions of the state and federal endangered species acts, and all other applicable state and federal laws, including by reviewing a biological assessment or study that has been prepared for the site by a qualified expert with respect to impacts on endangered species, where applicable. I waive any claims of liability for damages against the County of Sonoma and its contractors, and agree to indemnify the County of Sonoma and its contractors from and against any claims, suits, or liabilities, arising out of activities I undertake based on the issuance of this permit. I further understand that if a permit is not issued within one year following the filing of a permit application, the permit application shall expire without any further action by the Department of Agriculture/Weights & Measures. The Department of Agriculture/Weights & Measures may grant one 180-day extension, if the applicant files a written request before expiration of the original one-year period and shows that the extension is warranted due to a lawsuit, permit authority error, or other circumstances beyond the control of the applicant. Otherwise a new, complete permit application and associated fees must be submitted. I further understand that VESCO permits expire five years from the issue date and Grading and Drainage permits expire three years from the issue date.

Also, additional fees apply for engineering and/or geological review and site visit(s) for all Level II projects and Grading and Drainage projects. Additional fees may apply if additional plan review(s) and/or site visit(s) are required by Department staff beyond the initial Department staff inclusions as stated on page 7. If additional fees are applied, they will be based on the at-cost hourly rates, as stated on page 8, and billed by the ¼ hour. The applicant will be billed for the actual time spent to provide these services and payment will be due within 30 days. Applicant understands and agrees that the applicant is responsible for paying these costs even if the application is withdrawn.

I authorize entry by the Department of Agriculture/Weights & Measures and its contractors onto all areas where development is occurring under this permit at all reasonable times or whenever an emergency exists to determine whether I am complying with permit terms.

APPLICANT/OWNER NAME (print): _____

APPLICANT/OWNER SIGNATURE*: _____

TITLE: _____ DATE: _____

**Application for permit must be authorized by the owner of the property. If not signed by the owner, written consent from the property owner must be included with the application packet.*

PART E – CHECKLIST

APPLICATION CONTENTS CHECKLIST: See pages 7 – 9 for explanation of levels and fees. For vineyard/orchard development projects, online mapping resources are available at <http://sonomacounty.ca.gov/AWM-map>. Search for project parcel(s) and activate air photo/USGS layers.

LEVEL I PROJECTS

- Completed application packet.
- Appropriate fees.
- Recent color aerial photo taken within last two years with areas to be planted or replanted outlined.
- Completed biological assessment or study of project area. ***Biological assessment or study is required for ALL NEW vineyard and/or orchard planting. Focused Species Assessment (FSA) is also required for all vineyard and/or orchard replanting within the designated critical habitats for California tiger salamander (*Ambystoma californiense*) or California red-legged frog (*Rana draytonii*).*** These habitat boundaries can be viewed at <https://ecos.fws.gov/ecp/>. Additional information regarding biological assessment requirements can be viewed at <http://sonomacounty.ca.gov/Agriculture-Weights-and-Measures/Agriculture-Division/Ordinances/Grading-Drainage-Vineyard/>.
- Completed crop acreage survey.
- Frost protection registration or negative declaration form required for new or amended systems using water in the Russian River watershed. Additional information located at <http://sonomacounty.ca.gov/Agriculture-Weights-and-Measures/Agriculture-Division/Services/Frost-Protection-for-Vineyards-and-Orchards/>.

LEVEL II PROJECTS

- All items required above for Level I projects.
- One (1) copy of engineered erosion control plans.
- Electronic copy of engineered erosion control plans (on physical media or sent via email).
- One (1) copy of sheetflow calculation documentation: <http://sonomacounty.ca.gov/Agriculture-Weights-and-Measures/Agriculture-Division/Ordinances/Grading-Drainage-Vineyard/>.
- Completed tree removal worksheet if applicable (NOT required for grading and drainage).
- Electronic copy of all plans and reports (on physical media or sent via email).

LEVEL I AND LEVEL II WITH AGRICULTURAL GRADING AND/OR DRAINAGE PROJECTS

- One (1) copy each of Engineered Grading and/or Drainage Improvement Plans, Drainage Report, and Geotechnical Report.
- Electronic copy of all plans and reports (on physical media or sent via email).

GRADING AND DRAINAGE PROJECT

- For Drainage requirements, please reference Permit Sonoma’s Drainage Report Required Contents (DRN-006): <https://sonomacounty.ca.gov/PRMD/Instructions-and-Forms/DRN-006-Drainage-Report-Required-Contents/>.
- For Grading requirements, please reference Permit Sonoma’s Grading Permit Required Application Contents (GRD-004): <https://sonomacounty.ca.gov/PRMD/Instructions-and-Forms/GRD-004-Grading-Permit-Required-Application-Contents/>.

PART F – INFORMATION: PROJECT FEES

VESCO LEVEL I

Project Size	No Grading or Drainage Fee	With Grading and/or Drainage Fee
< 10 Acres	\$1,151.00	\$1,676.00
10 < 50 Acres	\$2,114.00	\$2,629.00
50 < 100 Acres	\$2,722.00	\$3,312.00
> 100 Acres	\$3,488.00	\$4,199.00
Fees and Inclusions	Fees above include Application Fee, Technology Fee ¹ , and CEQA Fee ² .	
Additional Fees ³	N/A	Applicable At-Cost Engineer/Geologist Charges
Project Fee Inclusions ⁴	1 Plan Review 1 Site Visit	1 Plan Review 2 Site Visits

VESCO LEVEL II

Project Size	No Grading or Drainage Fee	With Grading and/or Drainage Fee
< 10 Acres	\$6,809.00	\$6,702.00
10 < 50 Acres	\$6,308.00	\$9,899.00
50 < 100 Acres	\$8,774.00	\$11,499.00
> 100 Acres	\$9,978.00	\$12,034.00
Fees and Inclusions	Fees above include Application Fee, Technology Fee ¹ , and CEQA Fee ² .	
Additional Fees ³	Applicable At-Cost Engineer/Geologist Charges	Applicable At-Cost Engineer/Geologist Charges
Project Fee Inclusions ⁴	2 Plan Reviews 2 Site Visits	2 Plan Reviews 3 Site Visits

VESCO LEVEL II WITH TREE REMOVAL

Project Size	No Grading or Drainage Fee	With Grading and/or Drainage Fee
< 10 Acres	\$6,745.00	\$8,347.00
10 < 50 Acres	\$9,372.00	\$8,622.00
50 < 100 Acres	\$10,247.00	\$11,574.00
> 100 Acres	\$10,442.00	\$14,136.00
Fees and Inclusions	Fees above include Application Fee, Technology Fee ¹ , and CEQA Fee ² .	
Additional Fees ³	Applicable At-Cost Engineer/Geologist Charges	Applicable At-Cost Engineer/Geologist Charges
Project Fee Inclusions ⁴	2 Plan Reviews 2 Site Visits	2 Plan Reviews 3 Site Visits

¹ Technology Fee of \$18.00 (Level I No Grading or Drainage, Level II No Grading or Drainage, or Grading and/or Drainage Only) or \$36.00 (Level I with Grading and/or Drainage or Level II with Grading and/or Drainage) set by Permit Sonoma.

² CEQA Notice of Exemption Fee of \$50.00 set by the Sonoma County Recorder.

³ Project applicant will be billed at-cost for plan review and/or site visit services. See at-cost hourly rates on page 9. These fees are set by the Department’s Engineering consultant.

⁴ Additional services beyond listed inclusions will be charged at staff rate of \$292.00/hour (¼ hour minimum).

Frost Protection Registration Fee of \$88.00 may be applicable and is not included in the fees above. Please see pages 19 – 21 for additional information.

PART F – INFORMATION: PROJECT FEES

GRADING AND/OR DRAINAGE ONLY

Project Size	Grading and/or Drainage Only
< 10 Acres	\$1,241.00
10 < 50 Acres	\$1,393.00
50 < 100 Acres	\$1,617.00
> 100 Acres	\$1,844.00
Fees and Inclusions	Fees above include Application Fee, Technology Fee ¹ , and CEQA Fee ² .
Additional Fees ³	Applicable At-Cost Engineer/Geological Charges
Project Fee Inclusions ⁴	1 Plan Review 1 Site Visit

¹ Technology Fee of \$18.00 (Level I No Grading or Drainage, Level II No Grading or Drainage, or Grading and/or Drainage Only) set by Permit Sonoma.

² CEQA Notice of Exemption Fee of \$50.00 set by the Sonoma County Recorder.

³ Project applicant will be billed at-cost for plan review and/or site visit services. See at-cost hourly rates on page 9. These fees are set by the Department’s Engineering consultant.

⁴ Additional services beyond listed inclusions will be charged at staff rate of \$292.00/hour (¼ hour minimum).

Frost Protection Registration Fee of \$88.00 may be applicable and is not included in the fees above. Please see pages 19 – 21 for additional information.

PART F – INFORMATION: AT-COST FEES

AT-COST FEES: At-cost fees will be charged on an actual (“at-cost”) basis, calculated based on hourly rates, including travel time, set forth herein and with a minimum charge for ¼ hour (15 minutes) and then rounded to the nearest ¼ hour.

The amount of time and type of staff rendering services will vary depending on services requested. Pre-application consultative services, additional reviews and/or staff visits, and review of multiple revisions to project plans and/or previously accepted projects are billed at-cost at the hourly rates below.

Level I projects with grading and/or drainage and all Level II projects will accrue engineering review fees at-cost at the hourly rates below. Invoices will be issued by the Department of Agriculture/Weights & Measures throughout the review process and, in some cases, after the permit has been issued, so as not to delay permit issuance.

Additional plan review and/or site visits beyond the initial Department staff inclusions noted in the project fees on pages 7 – 8 include:

- Additional plan review required by Department staff to approve and issue permit.
- Additional site visit(s) required by Department staff to approve and issue permit and/or verify compliance.
- Site visit(s) for non-compliance and/or to ensure corrective action has been taken.
- Multi-phase site visits apply to projects constructed in phases and therefore require additional site visits due to timing of construction.

Pre-application consultative services are available and include pre-application site visits, evaluation, and development plan and/or drawing review. All pre-application consultative services are billed at-cost. To request pre-application consultative services, please contact the Department.

AT-COST HOURLY RATES

POSITION	HOURLY RATE
Land Stewardship Staff	\$292.00
Senior Technician	\$98.00
Assistant Engineer	\$110.00
Staff Engineer	\$135.00
Associate Engineer	\$145.00
Senior Geotechnical Engineer	\$200.00
Assistant Geologist	\$105.00
Senior Geologist	\$140.00
Principal Engineering Geologist	\$190.00

PART F – INFORMATION: PROJECT DETERMINATIONS

TYPES OF HIGHLY ERODIBLE SOILS INCLUDE DIABLO, DIBBLE, GOLDRIDGE, LAUGHLIN, LOS OSOS, STEINBECK, AND SUTHER.

PLANTING ON SITES WITH SLOPE GREATER THAN 50% IS PROHIBITED.

TREE REMOVAL ON SITES WITH SLOPE GREATER THAN 40% WITH COHESIONLESS SOILS IS PROHIBITED.

VESCO PROJECT LEVEL DETERMINATION

	LEVEL I	LEVEL II
Planting area with no highly erodible soils	Less than 15% slope	15% to 50% slope
Replanting area with no highly erodible soils	Less than 30% slope	30% or greater slope
Planting area with any highly erodible soils	Less than 10% slope	10% to 50% slope
Replanting area with any highly erodible soils	Less than 15% slope	15% or greater slope
Planting with tree removal, natural slope descending below ridgetop (see flow chart for new development projects)	Less than 50% slope for more than 500 feet in slope length above a blue-line stream	50% or greater slope for more than 500 feet in slope length above a blue-line stream
Planting with tree removal, location of ridgetop (see flow chart for new development projects)	Not on a designated watershed or sub-watershed divide	On a designated watershed or sub-watershed divide

GRADING TYPE DETERMINATION

	REGULAR GRADING	ENGINEERED GRADING
Volume (combined total of cut and fill)	Does not exceed 5,000 cubic yards	Exceeds 5,000 cubic yards
Cut	No greater than 2 feet in depth and does not create cut slope greater than 5 feet in height	Greater than 2 feet in depth or creates a cut slope greater than 5 feet in height
Fill in flood-prone urban area or special flood hazard area	Does not exceed 50 cubic yards	Exceeds 50 cubic yards
Fill outside flood-prone urban area or special flood hazard area	No greater than 3 feet in depth	Greater than 3 feet in depth
Natural slope of grading area	Less than 15% slope	15% or greater slope
Geologic Hazard Area Combining District	Grading area is not in the Geologic Hazard Area Combining District	Grading area is wholly or partially in the Geologic Hazard Area Combining District ¹
Geologic hazards	Grading area contains no geologic hazards	Grading area contains any geologic hazards ²

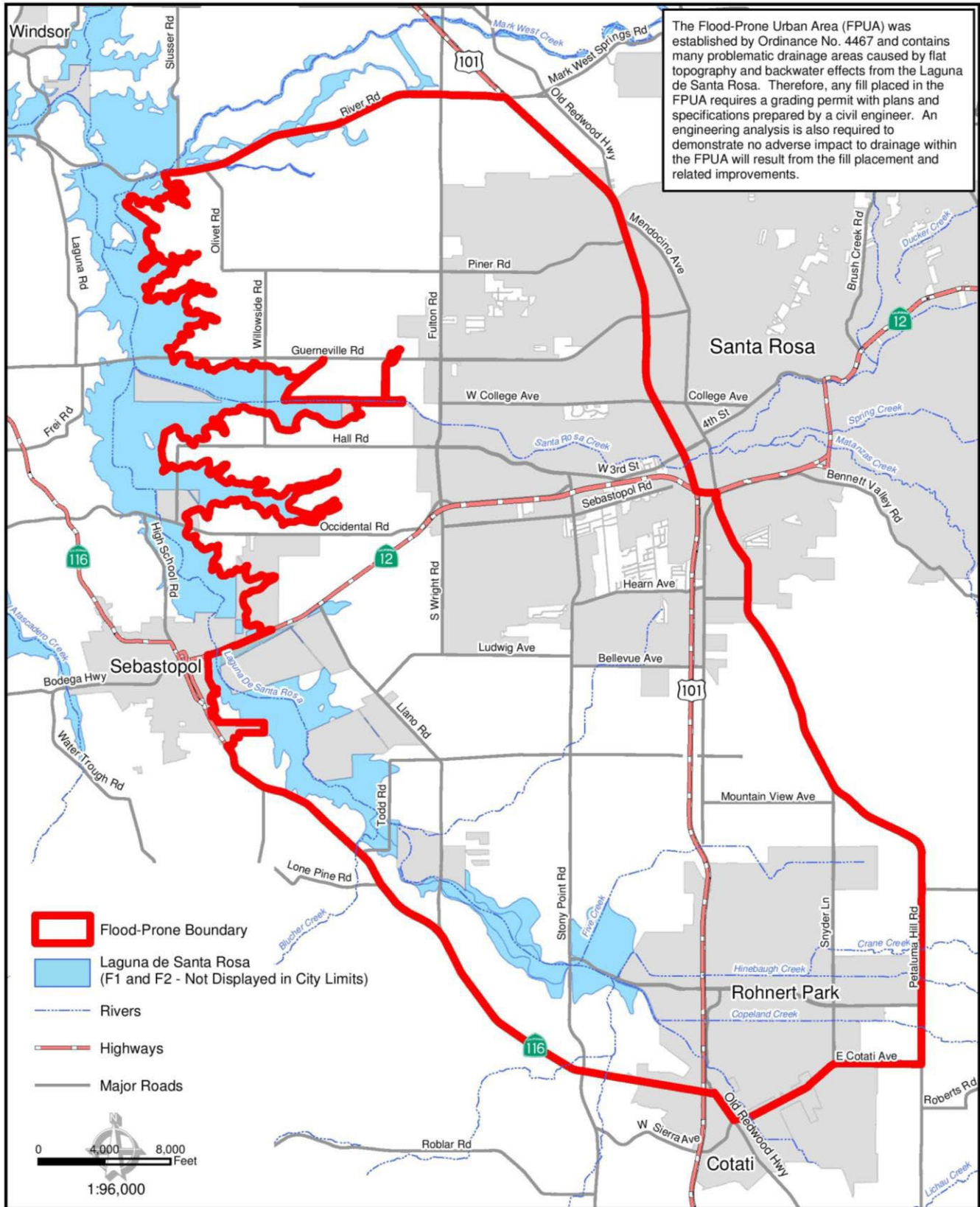
1 – The engineered grading designation shall apply only to the portion of the grading area that is in the Geological Hazard Area Combining District.

2 – The engineered grading designation shall apply only to the portion of the grading area that is directly affected by the geologic hazards.

DRAINAGE IMPROVEMENT TYPE DETERMINATION

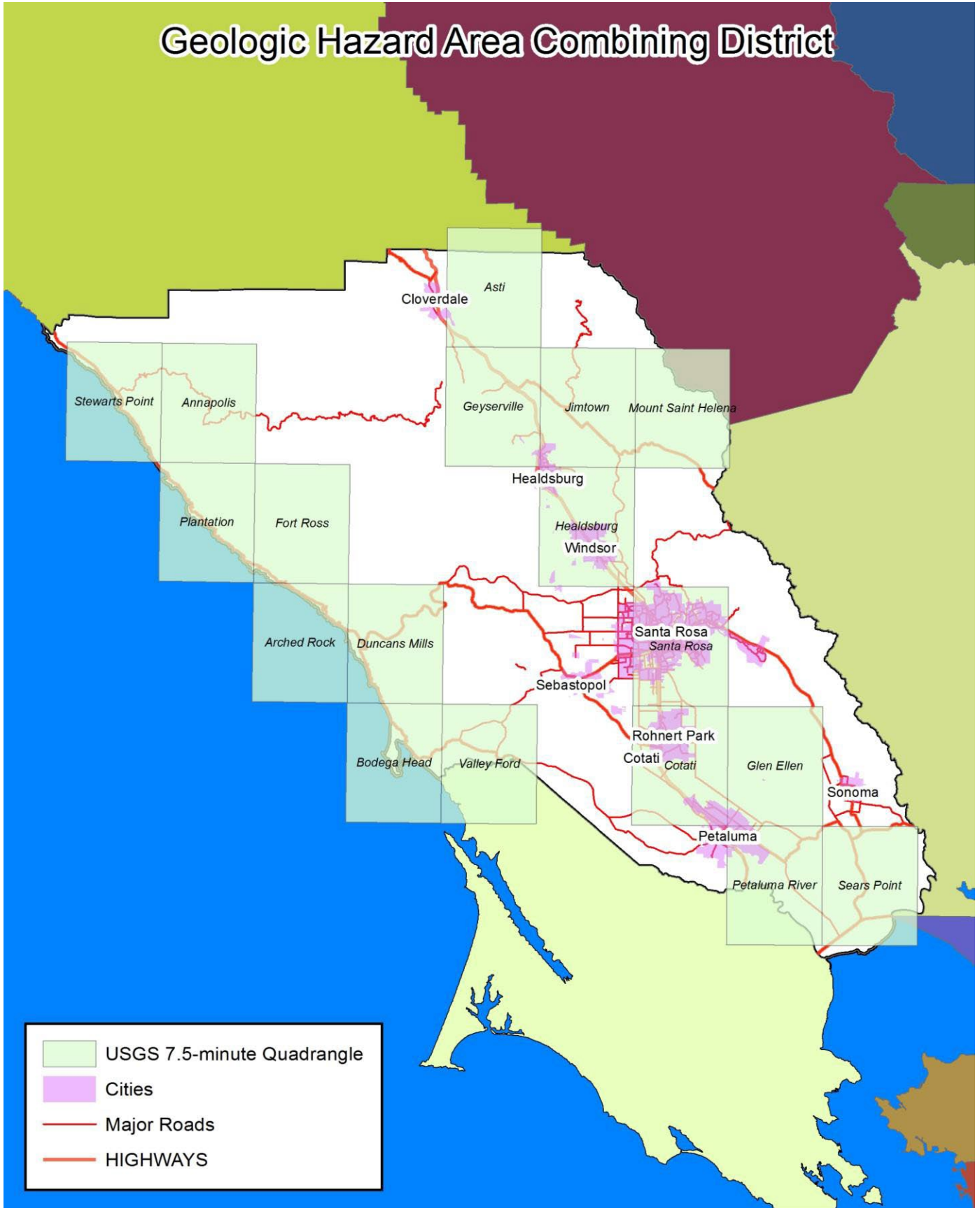
	REGULAR DRAINAGE	ENGINEERED DRAINAGE
Cross-sectional area of drainage improvement	Does not exceed 2 square feet	Exceeds 2 square feet

FLOOD-PRONE URBAN AREA



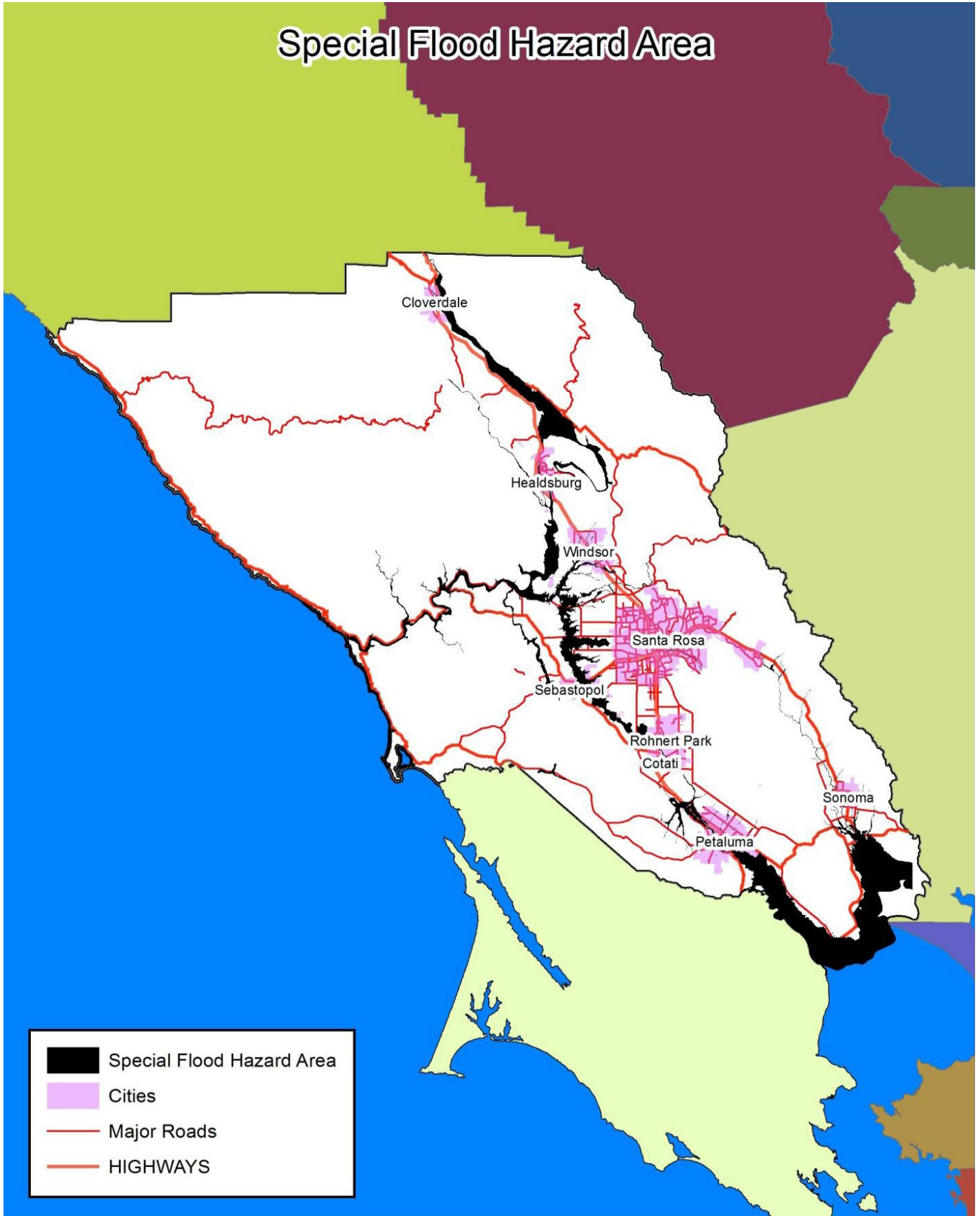
Sonoma County

Geologic Hazard Area Combining District



Created on 07/09/2013
Sonoma County Agricultural Commissioner's Office





Created on 07/09/2013
Sonoma County Agricultural Commissioner's Office



PART F – INFORMATION: INSTRUCTIONS

PART A

1. Check appropriate boxes to characterize proposed development: New, Replant, Vineyard, Orchard, and Project Level.
2. Please provide billing/ mailing address, contact numbers, and email address for property owner, applicant/lease (if different), project site manager, and project engineer (if applicable). NOTE: owner must be legal owner of the parcel(s) under development.

PART B

1. List address of project development site as listed on Sonoma County Assessor's parcel record(s). NOTE: property must have a legal address listed with Permit Sonoma. For additional information, please visit <https://permitsonoma.org/divisions/customerserviceandadministration/addressingandroadnaming>.
2. List Assessor's parcel number(s) for development site as listed on Sonoma County Assessor's parcel records.
3. List total acreage of the parcel(s) where proposed project is to take place.
4. List total acres of soil disturbance, including areas to be planted or replanted, avenues, staging areas, etc.
5. List total acreage of areas to be planted or replanted.
6. List total acres of tree canopy to be removed.
7. List total existing (pre-development) acreage of vineyard or orchard crops on parcel(s) to be developed.
8. Check appropriate box(es) that characterizes previous land use: Ag Crop, Pasture, Rangeland, Timberland, and/or Other.
9. List highest natural slope on site. Slope can be determined by clinometer readings at set distances parallel with slope, a professional survey, or other method.
10. Check appropriate box(es) that characterizes method used to determine slope: Clinometer, Field Survey, LiDAR, and/or Other.
11. List soil type(s) for development site from NRCS (USDA) Soil Survey for Sonoma County.
12. List total volume of proposed cuts in cubic yards.
13. List total volume of proposed fill in cubic yards.
14. List steepest slope of cut slopes proposed to be created.
15. List depth of cut slopes proposed to be created.
16. List height of cut slopes proposed to be created.
17. List steepest natural slope of the proposed grading area.
18. List proposed number of acres to be graded.
19. List fill material(s) to be used.
20. Indicate if project is within a special flood hazard area, flood-prone urban area, and/or Geological Hazard Area Combining District.
21. Note type(s) of drainage techniques utilized in the project drainage plans.
22. List cross-sectional area (sq ft) of drainage improvement.
23. List catchment area acreage included in engineered drainage design.

PART C

1. List hydrologic features that occur in vicinity of site development area – perennial and ephemeral streams, wetlands, ponds, etc. Include planned setback requirements on all features.
2. Identify areas that may need to be protected from erosion or sedimentation – critical habitat, riparian areas, etc.
3. Describe proposed changes to species composition in development area – tree removal, riparian restoration, etc.
4. List land preparation strategies planned in development area – ripping, discing, terracing, dry farming, etc.
5. Select and describe drainage structures existing or proposed in development area.
6. Describe type of roads and avenues proposed in development area.
7. Describe appropriate Best Management Practices proposed to control erosion and sedimentation in development area.
8. List implementation dates for temporary and final erosion and sedimentation control measures. Include all phases of project.

PART D

1. Verify all required items are completed and/or included.
2. Project authorization declaration statement completed by parcel(s) owner(s) or authorized representative and included.

PART F – INFORMATION: RESOURCES

ONLINE REFERENCES AND AGENCIES: If you are unsure about any of the practices necessary to prevent erosion and sedimentation movement from your site, the references and agencies below may be helpful:

REFERENCES

SONOMA COUNTY DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES: <http://sonomacounty.ca.gov/AWM>

- Best Management Practices for Agricultural Erosion and Sediment Control
- Sonoma County Code, Chapter 11
- Sonoma County Code, Chapter 36
- The Vineyard Assessment Guide
- The Land Steward’s Guide to Vineyard and Orchard Erosion Control

SONOMA RESOURCE CONSERVATION DISTRICT: <http://www.sonomarcd.org>

- The Vineyard Manual

CALIFORNIA LAND STEWARDSHIP INSTITUTE: <http://www.fishfriendlyfarming.org>

- Fish Friendly Farming

CALIFORNIA SUSTAINABLE WINEGROWING ALLIANCE: <http://www.sustainablewinegrowing.org/agrowersguide.php>

- Reducing Risks Through Sustainable Winegrowing: A Grower’s Guide

AGENCIES

CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION

Sonoma-Lake-Napa Unit
St. Helena, CA
Phone: (707) 967-1400
Web: <http://www.fire.ca.gov>

CALIFORNIA DEPARTMENT OF FISH & WILDLIFE

Bay Delta Region Headquarters
Napa, CA
Phone: (707) 944-5500
Web: <http://www.wildlife.ca.gov>

CALIFORNIA DEPARTMENT OF WATER RESOURCES

Sacramento, CA
Phone: (916) 653-5791
Web: <http://www.water.ca.gov>

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Santa Rosa, CA
Phone: (707) 576-2220
Web: <http://www.swrcb.ca.gov>

NATIONAL MARINE FISHERIES SERVICE

Habitat Conservation Division
Santa Rosa, CA
Phone: (707) 575-6050
Web: <http://www.nrnc.usda.gov>

SONOMA COUNTY ASSESSOR

Santa Rosa, CA
Phone: (707) 565-1888
Web: <http://www.sonomacounty.ca.gov/assessor>

PERMIT SONOMA

Santa Rosa, CA
Phone: (707) 565-1900
Web: <http://sonomacounty.ca.gov/permit-sonoma>

UNITED STATES ARMY CORPS OF ENGINEERS

Regulatory Branch, North Section
San Francisco, CA
Phone: (415) 503-6795
Web: <http://www.spn.usace.army.mil>

UNITED STATES FISH & WILDLIFE SERVICES

Sacramento, CA
Phone: (916) 414-6600
Web: <http://www.fws.gov>

UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION – SONOMA

Santa Rosa, CA
Phone: (707) 565-2621
Web: <http://www.ucanr.edu>

PART F – INFORMATION: DEFINITIONS (see Sonoma County Code, Chapter 36 for complete list of definitions)

Agricultural Drainage Improvement: any drainage improvement for agricultural cultivation.

Agricultural Grading: any grading for agricultural cultivation; as used in this chapter, agricultural grading does not include grading for roads, dams, reservoirs, lakes, ponds, and/or pads for structures.

Area of Instability: an area of soil or rock prone to mass wasting, including slides, falls, slumps, and flows.

Drainage Improvement: any manmade improvement constructed to collect and convey storm water; as used in this chapter, drainage improvement includes construction, maintenance, repair, replacement, and/or modification of such improvements.

Excavation: the removal of earth material by artificial means; also referred to as a cut.

Fill: the deposition of earth materials by artificial means; as used in this chapter, fill does not include soil amendment and fertilizing materials.

Flood-Prone Urban Area: the area within the boundaries defined on the north by River Road; on the west by the easterly boundary of Laguna de Santa Rosa to its intersection with Highway 12 and continuing with the easterly limit of the city of Sebastopol to Highway 116; on the south by Highway 116 to its intersection with Old Redwood Highway then south to East Cotati Avenue and east to its intersection with Petaluma Hill Road; and on the east by Petaluma Hill Road, north to Highway 12 then west to Highway 101 and north to River Road.

Geologic Hazard: a geologic condition, either natural or manmade, that poses a potential danger to life and property – examples include landslides, flooding, faulting beach erosion, land subsidence, pollution, waste disposal, and foundation and footing failures.

Geologic Hazard Area Combining District: see Chapter 26, Article 70 and Chapter 26C, Article XXV of this code.

Grading: an excavation, fill, or combination thereof; as used in this chapter, grading does not include ripping, discing, plowing, harrowing, tilling, land planing no greater than 3' in depth, or other similar routine agricultural cultivation practices.

Planting Area: the land area subject to a vineyard or orchard planting.

Ridgetop: a relatively flat topographic divide about divergent and descending slopes where one or more of the descending slopes has a natural slope steeper than 50% for more than 50' in slope length.

Site Clearing: any removal of vegetative ground cover that results in disturbance of soils, or any removal of existing agricultural plants, vines, or trees.

Slope: an inclined surface, the inclination of which is expressed as a ratio of horizontal distance to vertical distance – e.g. 2:1 – or as a percentage – e.g. 50%.

Stream: any natural channel with bed and banks containing flowing water or showing evidence of having contained flowing water such as deposit of rock, sand, gravel, or soil.

Soil Disturbance: any alteration to the natural surface of the ground through the use of construction equipment, tractors, and/or similar equipment.

Special Flood Hazard Area: any area designated by the Federal Emergency Management Agency as subject to flooding by the one (1) percent annual chance flood (one hundred year flood).

Top of Bank: the points in a cross-section where the stream channel makes a transition to flood plain. Top of bank can be identified by a change in the slope of land, a transition from terrestrial to riparian vegetation, and/or change in the composition of substrate materials.

Tree: a woody perennial plant, typically large with a well-defined stem carrying a definite crown, with a minimum diameter at breast height of five (5) inches and a minimum height of fifteen (15) feet.

Tree Removal: the removal of more than one-half (½) acre of tree canopy within the planting area.

Vegetative Filter Strip: a land area seeded to close growing or sod forming grasses; designed to filter out soil and other pollutants carried in storm water or wastewater.

Vineyard Replanting: any replanting of an existing vineyard where the vineyard has been under active cultivation for the previous five (5) years, no grapevines are removed prior to the filing of a permit application for the replanting, and the footprint of the vineyard does not increase.

Wetlands: transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. Wetlands must have one or more of the following three attributes in the Coastal Zone, and two or more of the following attributes in all other parts of the unincorporated area of the county:

1. The land supports predominantly hydrophytes during the normal wet portion of the growing season.
2. The substrate is predominantly undrained hydric soil.
3. The substrate is saturated with water or covered by shallow water at some time during the normal wet portion of the growing season each year.

Wetlands Biologist: a biologist experienced and knowledgeable in the delineation of wetlands in California using applicable federal, state, and local criteria.



CONFIDENTIAL CROP ACREAGE SURVEY

OFFICE USE ONLY
Date Received: ____ / ____ / ____

Please complete this form and include it with your vineyard/orchard development permit application packet. This information will be used to update the Department of Agriculture/Weights & Measures' annual Sonoma County Agricultural Crop Report. This report promotes the value and importance of Sonoma County's agricultural industry.

All information provided is kept confidential; only grand totals are made public.

PROPERTY OWNER: _____

OPERATOR NAME: _____

PHONE: _____ **EMAIL:** _____

PARCEL ADDRESS: _____

CITY: _____ **STATE:** _____ **ZIP:** _____

APN(s): _____ **ACRES TO BE PLANTED:** _____

BLOCK(s): _____

PESTICIDE PERMIT NUMBER: _____ **SITE NUMBER:** _____

VINEYARD APPELLATION AREA*: _____ **ACO #:** _____

*Areas include: Alexander Valley, Bennett Valley, Carneros, Chalk Hill, Dry Creek Valley, Fort Ross-Seaview, Green Valley, Knights Valley, Moon Mountain, Pine Mountain-Cloverdale Peak, Rockpile, Russian River Valley, Sonoma Coast, Sonoma Mountain, and Sonoma Valley.

PROPOSED PLANTING OF VINEYARD/ORCHARD (check one): New Replant

CROP	VARIETY	YEAR TO BE PLANTED	SPACING	# OF VINES OR TREES	NET CROP ACRES
<i>Example: Grapes</i>	<i>Chardonnay</i>	<i>2019</i>	<i>6x8</i>	<i>10,981</i>	<i>12.1</i>

PROPOSED REMOVAL OF EXISTING VINEYARD/ORCHARD (required if vineyard/orchard currently planted on parcel)

CROP	VARIETY	YEAR TO BE REMOVED	SPACING	# OF VINES OR TREES	NET CROP ACRES

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VINEYARD & ORCHARD FROST PROTECTION REGISTRATION

Registration only required if located within the Russian River Watershed and using water for frost protection. Incomplete or faxed registrations will not be accepted. Registration must include aerial map of the site. Please do not leave blank spaces – enter N/A if needed. One form per site to be registered or amended. For amendments, provide the existing registration number, aerial map, and updated information.

<u>OFFICE USE ONLY</u>	
Date Received:	____/____/____
Reg/Amend Date:	____/____/____
Registered By:	_____
Registration #:	AFM _____ - _____
REGISTRATION FEE: \$88.00 <input type="checkbox"/> Paid <input type="checkbox"/> Outstanding	

Registration fee of \$88.00 is required at time of initial registration and amendment due to change in the frost system or owner/operator. No fee required if water source is exclusively from treated wastewater. For additional information and detailed instructions, please visit <http://sonomacounty.ca.gov/Agriculture-Weights-and-Measures/Agriculture-Division/Services/Frost-Protection-for-Vineyards-and-Orchards/>.

PROPERTY OWNER: _____

BUSINESS NAME: _____

BILLING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

AUTHORIZED REPRESENTATIVE (if different): _____

BUSINESS NAME: _____

BILLING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

SITE ADDRESS: _____

ASSESSOR'S PARCEL NUMBER(s): _____

CORRESPONDING PESTICIDE PERMIT SITE ID #(s): _____

TOTAL FROST PROTECTED ACREAGE: _____

ARE YOU PART OF A STATE APPROVED WATER DEMAND MANAGEMENT PROGRAM: YES NO

IF YES, PLEASE INDICATE GROUP AND/OR TRIBUTARY NAME: _____

I CERTIFY THAT THE INFORMATION IS CORRECT AND VALID TO THE BEST OF MY KNOWLEDGE.

PRINT NAME: _____ OWNER AUTHORIZED REP

SIGNATURE: _____ DATE: _____

FROST PROTECTION SYSTEM INVENTORY

Label your attached aerial map with the map ID numbers you assign below (1, 2, 3, etc.). Use an additional sheet if additional wells, point of diversion (POD) or frost pumping systems are used per site. **DISCLAIMER: this registration is solely for the purpose of producing an inventory of frost protection systems. Additional permits and/or authorizations from other regulatory agencies may be required to divert or use water for frost protection.**

CHECK APPLICABLE: Vineyard Orchard REG #: AFM _____ - _____

APN(s): _____

SYSTEM TYPE (fill in all that apply)

TYPE	NUMBER OF ACRES PROTECTED	GALLONS PER ACRE PER MINUTE
Sprinkler		
Micro Sprinkler		

MAP ID #	NUMBER OF ACRES PROTECTED

STORAGE TYPE (fill in all that apply)

MAP ID #	STORAGE TYPE	ACRE FEET	RECHARGE RATE	SOURCE (stream, well, etc.)
	Reservoir/Pond			
	Offsite			
	Tank			

SOURCE OF WATER (fill in all that apply)

MAP ID #	TYPE	GALLONS PER MINUTE (GPM)
	Recycled Water	
	Direct Diversion from River or Stream	
	Shared System (note type)	
	Sub Surface (Sump/French Drain)	
	Surface Drainage	
	Other Water Source (note type)	

MAP ID #	TYPE	GPM FROM PUMP (pump rating)	DEPTH (pump setting)	DISTANCE FROM STREAM (in feet)
	Well			
	Well			

AERIAL MAP REQUIRED. Attach a map with frost protected area noting the following: highlighted vineyard, Assessor Parcel Number(s), frost pumps, water storage, and water sources marked using Map ID numbers from above.



**VINEYARD & ORCHARD FROST PROTECTION
NEGATIVE DECLARATION**

Fill out one form for each site located within the Russian River Watershed that does NOT use water for frost protection. Form must be signed by property owner or authorized representative.

<u>OFFICE USE ONLY</u>	
Date Surveyed:	____ / ____ / ____
Surveyed By:	_____
Site Address:	_____
City:	_____

CHECK ONE: VINEYARD ORCHARD

PROPERTY OWNER: _____

BUSINESS NAME: _____

BILLING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

AUTHORIZED REPRESENTATIVE (if different): _____

BUSINESS NAME: _____

BILLING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE: _____ FAX: _____ CELL: _____

EMAIL: _____

SITE ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

ASSESSOR'S PARCEL NUMBER(s): _____

FROST PROTECTION (check the statement that best applies): No frost protection system.

Frost protection system does not use water (fans, etc.).

I CERTIFY THAT THE INFORMATION IS CORRECT AND VALID TO THE BEST OF MY KNOWLEDGE.

PRINT NAME: _____ OWNER AUTHORIZED REP

SIGNATURE: _____ DATE: _____

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