

Notice of Completion & Environmental Document Transmittal

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613
For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH #

Project Title: Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond

Lead Agency: Sonoma Resource Conservation District Contact Person: Justin Bodell
Mailing Address: 1221 Farmers Lane, Suite F Phone: 707-569-1448
City: Santa Rosa, CA Zip: 95405 County: Sonoma

Project Location: County: Sonoma City/Nearest Community: Healdsburg
Cross Streets: West Dry Creek Road Zip Code: 95448
Longitude/Latitude (degrees, minutes and seconds): 38 ° 39 ' 22.15" N / 122 ° 57 ' 3.54 " W Total Acres: 2
Assessor's Parcel No.: 090-110-005 Section: 3 Twp.: 9N Range: 10W Base: Mt. Diablo
Within 2 Miles: State Hwy #: none Waterways: Wine Creek, Crane Creek, Dry Creek
Airports: none Railways: none Schools: none

Document Type:

CEQA: [] NOP [] Draft EIR NEPA: [] NOI Other: [] Joint Document
[] Early Cons [] Supplement/Subsequent EIR [] EA [] Final Document
[] Neg Dec (Prior SCH No.) [] Draft EIS [] Other:
[X] Mit Neg Dec Other:

Local Action Type:

[] General Plan Update [] Specific Plan [] Rezone [] Annexation
[] General Plan Amendment [] Master Plan [] Prezone [] Redevelopment
[] General Plan Element [] Planned Unit Development [] Use Permit [] Coastal Permit
[] Community Plan [X] Site Plan [] Land Division (Subdivision, etc.) [] Other:

Development Type:

[] Residential: Units Acres
[] Office: Sq.ft. Acres Employees Transportation: Type
[] Commercial: Sq.ft. Acres Employees Mining: Mineral
[] Industrial: Sq.ft. Acres Employees Power: Type MW
[] Educational: Waste Treatment: Type MGD
[] Recreational: Hazardous Waste: Type
[X] Water Facilities: Type Pond MGD Other:

Project Issues Discussed in Document:

[X] Aesthetic/Visual [] Fiscal [] Recreation/Parks [X] Vegetation
[] Agricultural Land [] Flood Plain/Flooding [] Schools/Universities [X] Water Quality
[X] Air Quality [] Forest Land/Fire Hazard [] Septic Systems [X] Water Supply/Groundwater
[X] Archeological/Historical [X] Geologic/Seismic [] Sewer Capacity [X] Wetland/Riparian
[X] Biological Resources [] Minerals [X] Soil Erosion/Compaction/Grading [] Growth Inducement
[] Coastal Zone [X] Noise [] Solid Waste [] Land Use
[X] Drainage/Absorption [] Population/Housing Balance [] Toxic/Hazardous [] Cumulative Effects
[] Economic/Jobs [] Public Services/Facilities [] Traffic/Circulation [] Other:

Present Land Use/Zoning/General Plan Designation:

Agriculture/Resources and Rural Development/Resources and Rural Development

Project Description: (please use a separate page if necessary)
Please see attached complete project description.

Note: The State Clearinghouse will assign identification numbers for all new projects. If a SCH number already exists for a project (e.g. Notice of Preparation or previous draft document) please fill in.

Exhibit 4: Mitigated Negative Declaration

Reviewing Agencies Checklist

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with and "X". If you have already sent your document to the agency please denote that with an "S".

- Reviewing Agencies Checklist with checkboxes and agency names such as Air Resources Board, Boating & Waterways, Department of, California Emergency Management Agency, etc.

Local Public Review Period (to be filled in by lead agency)

Starting Date 4/6/2015 Ending Date 5/6/2015

Lead Agency (Complete if applicable):

Consulting Firm: Applicant: Sonoma Resource Conservation District
Address: 1221 Farmers Lane, Suite F
City/State/Zip: Santa Rosa, CA
Contact: Phone: 707-569-1448

Signature of Lead Agency Representative: Valerie Mintz Date: 4/2/15

Authority cited: Section 21083, Public Resources Code. Reference: Section 21161, Public Resources Code.

**Grape Creek Streamflow Enhancement
and Off-Channel Irrigation Pond**

**CEQA Initial Study and Mitigated Negative Declaration
April 2015**

Sonoma Resource Conservation District, Lead Agency

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

Table of Contents

Project Summary..... 3

Project Description..... 3

Initial Study Checklist..... 5

 1. AESTHETICS 6

 2. AGRICULTURAL AND FOREST RESOURCES 7

 3. AIR QUALITY 8

 4. BIOLOGICAL RESOURCES..... 9

 5. CULTURAL RESOURCES 19

 6. GEOLOGY AND SOILS..... 20

 7. GREENHOUSE GAS EMISSIONS/ ENERGY USE..... 22

 8. HAZARDS 23

 9. HYDROLOGY AND WATER QUALITY 24

 10. LAND USE AND PLANNING 26

 11. MINERAL RESOURCES 27

 12. NOISE..... 28

 13. POPULATION AND HOUSING 29

 14. PUBLIC SERVICES 30

 15. RECREATION 31

 16. TRANSPORTATION/CIRCULATION..... 31

 17. UTILITIES AND SERVICE SYSTEMS..... 33

 18. MANDATORY FINDINGS OF SIGNIFICANCE 34

Environmental Factors Potentially Affected..... 35

Determination..... 36

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

Project Summary

Project title:

Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond

Lead agency name and address:

Sonoma Resource Conservation District
1212 Farmers Lane, Suite F
Santa Rosa, CA 95405

Contact person and phone number:

Justin Bodell, Project Manager, 707-569-1448, ext. 107

Project location:

The project is located adjacent to Grape Creek and along Wine Creek Road. The area is approximately 4000 feet upstream from the confluence with Dry Creek and 400 feet upstream from the confluence with Wine Creek. The project will occur within an existing vineyard on the north side of Grape Creek. The project area is approximately 2 acres. See attached map.

Project sponsor's name and address:

Sonoma Resource Conservation District
1212 Farmers Lane, Suite F
Santa Rosa, CA 95405

General plan designation: Resources and Rural Development

Zoning: Resources and Rural Development

Project Description

The dam height of the pond, measured from the highest water surface elevation (100 year storm, elevation 93.0') to the downstream toe of the barrier (elevation 81.1') is 11.9 feet. The storage capacity of the pond is 880,000 gallons, or 2.7 acre feet.

The need for this project is supported both by evidence that the project reach contains some of important spawning habitat, and by evidence that, despite good spawning conditions, summer low-flow conditions limit juvenile coho oversummer survival.

The University of California Cooperative Extension has documented the presence of coho salmon, steelhead, and chinook salmon in Grape Creek, with coho salmon returning in three of the four years recently monitored. In each year that juvenile coho were observed during

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CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

July snorkeling surveys, the highest concentrations of fish were found in the proposed project reach, evidence that this reach contains the prime spawning habitat in the Grape Creek watershed. Unfortunately, when low flow surveys were conducted the following September of each year, the reach was dry, whereas adjacent reaches remained flowing or intermittent. At the time that the fish were observed in July, the pools in this reach were already disconnected, so it is unlikely that they were able to move into the adjacent wetted reaches. If streamflow is not improved in this critical reach, a significant proportion of coho salmon in the Grape Creek watershed will be unlikely to complete their life cycle. The Grape Creek Streamflow Improvement Plan (Trout Unlimited & the Center for Ecosystem Management and Restoration, 2013) identifies this reach as a priority treatment reach for the development of off-stream ponds and other water storage.

The scale of the proposed project is appropriate to the problem being addressed, in that recent studies (cited in the Grape Creek Streamflow Improvement Plan) indicate that even a small amount of water (a fraction of a cfs) could increase coho oversummer survival dramatically in Grape Creek. The proposed off-stream pond has been appropriately sized to meet vineyard water needs.

Surrounding land uses and setting:

The project is located in a rural setting, surrounded by viticulture and rural residential land uses.

Other public agencies whose approval is required:

Sonoma County Permit and Resource Management Department
California Department of Fish & Wildlife
North Coast Regional Water Quality Control Board
US Army Corps of Engineers
National Marine Fisheries Service

Sources consulted in preparing Initial Study:

A Biological Site Assessment was prepared by Prunuske Chatham, Inc. which included information gathered on a field survey on March 19, 2015. The California Natural Diversity Database records were consulted to develop a list of listed species that may occur in the area. The report is available from Sonoma RCD upon request (Prunuske Chatham, Inc., March 2015)

A Cultural Resources Survey was completed by Tom Origer & Associates; a field survey was conducted on March 19, 2015. The report is available on request from Sonoma RCD upon request (Tom Origer & Associates, March 23, 2015).

A Geotechnical Study Report for the project area was prepared by RGH Consultants. A geotechnical investigation of sub-surface conditions in the proposed project area was conducted on September 23, 2013. The report is available from Sonoma RCD upon request.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

Initial Study Checklist

This section of the Initial Study incorporates the Environmental Checklist contained in Appendix G of the CEQA Guidelines (http://ceres.ca.gov/ceqa/guidelines/Appendix_G.html). Each resource topic section provides a determination of potential impact and an explanation for the checklist impact questions. The following 17 environmental categories are addressed in this section:

- | | |
|--|----------------------------|
| 1. Aesthetics | 10. Land Use and Planning |
| 2. Agricultural and Forest Resources | 11. Mineral Resources |
| 3. Air Quality | 12. Noise |
| 4. Biological Resources | 13. Population and Housing |
| 5. Cultural Resources | 14. Public Services |
| 6. Geology and Soils | 15. Recreation |
| 7. Greenhouse Gas Emissions/Energy Use | 16. Transportation/Traffic |
| 8. Hazards and Hazardous Materials | 17. Utilities |
| 9. Hydrology and Water Quality | |

Each of the above listed environmental categories was fully evaluated and one of the following four determinations was made for each checklist question:

- **“No Impact”** means that no impact to the environment would occur as a result of implementing the Project.
- **“Less than Significant Impact”** means that implementation of the Project would not result in a substantial and/or adverse change to the environment and no mitigation is required.
- **“Potentially Significant Unless Mitigation is Incorporated”** means that the incorporation of one or more mitigation measures would reduce the impact from potentially significant to less than significant.
- **“Potentially Significant Impact”** means that there is either substantial evidence that a project-related effect would be significant or, due to a lack of existing information, could have the potential to be significant.

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CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

1. AESTHETICS Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Have a substantial adverse effect on a scenic vista?	X			
B. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	X			
C. Substantially degrade the existing visual character or quality of the site and its surroundings?			X	
D. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	X			

Impact Analysis

No Impact

1. A, B, D. The project will not degrade a scenic vista, scenic resources within a state scenic highway, or the visual character of the site or surroundings. The project will not create light or glare.

Less Than Significant Impact with Mitigation Incorporated

1. C. The project will result in a new pond visible from a public roadway. There will also be short-term aesthetic impacts during construction. Measures 1.1 and 1.2 below will mitigate impacts to less than significant levels.

Mitigation Measures

1.1 The site will be revegetated with appropriate native plants.

1.2 Construction activities will occur during daytime hours to negate the need for lighting during construction activities.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

2. AGRICULTURAL AND FOREST RESOURCES Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	X			
B. Conflict with existing zoning for agricultural use, or a Williamson Act contract?	X			
C. Conflict with existing zoning for, or cause rezoning of, forest land (as defined by Public Resources Code section 12220(g), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production as defined by Government Code Section 51104(g))?	X			
D. Result in loss of forest land or conversion of forest land to non-forest use?	X			
E. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of farmland, to non-agricultural use, or conversion of forest land to non-forest use?	X			

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

Impact Analysis

No Impact

2. A-E. The project area will remain in agricultural use.

Mitigation Measures

None Required

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

3. AIR QUALITY Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Conflict with or obstruct implementation of the applicable air quality plan?	X			
B. Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	X			
C. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone)	X			
D. Expose sensitive receptors to substantial pollutant concentrations?	X			
E. Create objectionable odors, dust, or harmful emissions affecting a substantial number of people or sensitive species?			X	

Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.

Impact Analysis

No Impact

3. A-D. The emissions created by the project implementation will not exceed levels established by existing plans or air quality standards.

Less Than Significant Impact with Mitigation Incorporated

3. E. The Project would result in short-term, temporary air pollutant emissions from construction activities, and will generate a short-term, minor increase in traffic of construction equipment in Dry Creek Valley. Project grading and construction has the potential to result in the generation of fugitive dust (particulates) and in short-term, temporary air pollutant emissions. However, due to the relative isolation of the site from residences or public areas, no impact to surrounding properties is anticipated. The project is on a dead-end road, and emissions and resulting odors will not affect anyone beyond those working on the project onsite. Additionally, Measures 3.1 through 3.6 will be incorporated to assure that impacts will be mitigated to less than significant levels.

Mitigation Measures

3.1 The contractor shall comply with all applicable air pollution ordinances, statutes, rules, and regulations, and properly maintain equipment to reduce emissions.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

- 3.2 Heavy-duty construction equipment shall be kept on-site when not in operations to minimize exhaust emissions or dust from unpaved roads associated with vehicles repetitiously traveling to and from the project site.
- 3.3 During construction, water trucks shall be used around areas of ground disturbance as needed to prevent excessive dust from leaving the site.
- 3.4 Graded surfaces shall be covered with erosion control fabric and/or vegetated as soon as feasibly possible after the completion of grading within the construction area, to reduce dust.
- 3.5 Contractor shall submit a dust control plan for approval before beginning construction.
- 3.6 Air quality controls will be specified in the Storm Water Pollution Prevention Program (SWPPP). Contractor will implement all air quality controls.

4. BIOLOGICAL RESOURCES Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service*?			X	
B. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?			X	
C. Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	X			
D. Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				X
E. Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				X

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

F.	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	X			
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*“Special status species” is defined as any species that meets the definition of ‘endangered, rare, or threatened’ in section 15380, article 20 in Title 14 of the California Code of Regulations, also known as the “CEQA Guidelines”.

Impact Analysis

No Impact

4 C. Effects on jurisdictional waters

No jurisdictional wetlands were identified at the project site. Grape Creek is a jurisdictional water of the U.S/State. No project construction activities would occur within the channel, and no impacts to jurisdictional waters are anticipated.

4 F. Conflicts with Habitat Conservation Plans.

At this time, there are no current or proposed Habitat Conservation Plans that would conflict with the proposed activities.

Less than Significant Impact

4 D. Interference with native fish and wildlife movement and nursery site utilization.

Project activities would require construction within an existing vineyard to accommodate placement of the irrigation pond. The irrigation pond would be located within an existing vineyard and immediately adjacent to Grape Creek and the riparian vegetation along the channel.

The vineyard and the riparian vegetation provide for wildlife movement on the Weed Farms property and movement between habitats on surrounding parcels. Construction of the pond in the vineyard and installation of the associated water distribution pipelines along the existing vineyard road could interrupt wildlife movements from the vineyard to Grape Creek and from the creek to surrounding habitats. Wildlife movement along Grape Creek would continue during construction as construction work would not occur in the riparian corridor; however, movement could be interrupted by construction-related noise, dust, and emissions; and due to the presence of construction equipment and construction workers. Construction-related impacts to wildlife movement would be temporary and would occur only during construction. The impacts would be temporary, and no mitigation would be needed.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

Following construction, the new irrigation pond would not alter use of the riparian corridor for movement in the area, since no new irrigation infrastructure would be located in the corridor. However, movement of wildlife through the vineyard would be altered with the presence of the irrigation pond. In the long-term, wildlife would adjust their movements around the irrigation pond to access habitat along Grape Creek and habitats on the property and surrounding parcels. However, the size of the new pond would not block movement entirely and the proposed expansion is consistent with land use practices on adjacent parcels. Local wildlife would likely adapt to the conditions; therefore, no mitigation would be necessary.

4 E. Conflicts with local policies and ordinances.

Several local policies address protection of trees and riparian corridors. The County General Plan includes policies to protect riparian corridors while balancing the needs for various land uses, and the Zoning Code provides implementation of the riparian protection policies.

GP2020 GOAL OSRC-8: Protect and enhance Riparian Corridors and functions along streams, balancing the need for agricultural production, urban development, timber and mining operations, and other land uses with the preservation of riparian vegetation, protection of water resources, flood control, bank stabilization, and other riparian functions and values.

Sonoma County Zoning Code Article 65, Riparian Corridor Combining Zone: Established to protect biotic resource communities, including critical habitat areas within and along riparian corridors and to implement the provisions of the General Plan Open Space and Resource Conservation and Water Resources Elements.

GP202 GOAL OSRC-7: Protect and enhance the County's natural habitats and diverse plant and animal communities. Established to identify and protect native vegetation and wildlife as well as areas of essential habitat connectivity.

Riparian habitats are protected under the Sonoma County General Plan and within the County's building and grading ordinances. In November 2014, the Board of Supervisors adopted zoning code changes to implement the stream protection policies and rezoned properties to add the Riparian Corridor Combining Zone to all designed streams shown on the General Plan Open Space maps.

Minimum setback requirements apply for Grape Creek in accordance with Riparian Corridor and Biological Resource Combining Zones. According to the Riparian Corridor Combining District map for the Planning Area 3, Healdsburg and Environs, the setback along Grape Creek is 50 feet from the top of the bank (PRMD 2013) and the property is now zoned as RC50/50 which means that the streamside conservation area and agricultural cultivation

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

setbacks are both 50 feet from the top of bank (Sonoma County Article 65 RC Riparian Corridor Combining Zone). Some exceptions may apply within these setbacks (including agricultural uses and stream dams and stream-related water storage systems); however exceptions require a zoning permit from PRMD.

Removal of vines and construction of the pond within the 50-foot setback would require the approval of the County through the acquisition of a grading permit and a zoning permit. Once the proposed project is permitted, the project would comply with GP2020 and Article 65, RC Riparian Corridor Combining Zone.

The Weed Farms parcel falls within a Sonoma County VOH Valley Oak Habitat Combining District. The primary purpose of the district is to protect and enhance valley oak and valley oak woodlands.

GOAL OSRC-7: Protect and enhance the County's natural habitats and diverse plant and animal communities.

Policy OSRC-7m: Designate important valley oak habitat areas, reevaluate current designations, and apply a Valley Oak Habitat combining district zoning that requires adequate mitigation for trees removed and monitoring of replacement tree survival.

The project would not conflict with the tree protection goals, because no trees would be removed and trees near the construction area would be protected to avoid impacts.

Cumulative Impacts

At this time, there are no current or proposed projects of similar nature and within the project area's region that would result in significant cumulative impacts. Cumulative impacts would need to be addressed further if additional projects are identified by county staff.

Less than Significant Impact with Mitigation Incorporated

4 A. Potential effects on special status animal resources

4 A(1). The proposed construction activities would not directly or indirectly effect *special-status and common bat species* with Mitigation Measures 4.1 and 4.2 incorporated.

Two special-status bat species bats (pallid bat, Townsend's big-eared bat), and one non-listed species of local interest bat (hoary bat), have moderate potential to occur within the property, and additional bat species may utilize the property for foraging and roosting, as well. Construction activities would not be likely to disrupt the foraging behavior of bats as they are mostly nocturnal, and work will be restricted to daylight hours. No trees would be

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

removed to accommodate construction of the project; however, trees may be trimmed along the riparian corridor to provide access for heavy equipment during construction. Precautionary measures would be necessary to protect bats during construction activities.

- 4 A(2). The proposed activities would not have a substantial direct or indirect effect on *special-status or common breeding birds, migratory passerines, and raptors* with Mitigation Measure 4.3 incorporated.

The riparian woodland and individual trees near the project site provide nesting opportunities, food, and shelter for birds. Project construction activities could result in direct impacts on breeding birds and their offspring through nest destruction and mortality from tree trimming without protection measures in place. Indirect impacts can occur as a result of increased human presence and noise during construction. Several special-status bird species, including osprey and white-tailed kites, have a moderate potential to occur on the property, and additional bird species may utilize the site for breeding as well. Native breeding birds are protected under the federal Migratory Bird Treaty Act and California Fish and Game Code (§3503 and §3503.5).

Operation of the project would not disturb nesting birds as noise produced during pond filling would occur during the winter months when breeding and nesting would not occur.

- 4 A(3). The proposed activities would not have substantial direct or indirect effects on *special-status reptiles or amphibians* with Mitigation Measures 4.4 through 4.8, and 4.20 incorporated.

Project activities may result in direct impacts on special-status reptiles and amphibians during construction activities. One special-status reptile, Pacific pond turtle, and two special-status amphibians, foothill yellow-legged frog and California red-legged frog, may utilize the upland and riparian habitat on the project site. Turtles may use uplands for overland migration and nesting sites. Foothill yellow-legged frogs are year-round residents in perennial streams and have been sighted in the Russian River watershed, and suitable habitat is present on the project site. Although there are no occurrences of California red-legged frogs in the Dry Creek watershed, there is suitable foraging, migration and estivation habitat in the area. If the species are present on the project site and move into the construction area, they may be directly impacted. Precautionary measures should be implemented during construction to reduce the risk of injury or death.

Operation of the irrigation pond could adversely affect these special-status species, primarily from potential introduction of exotic predatory species within the newly constructed pond.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

The pond could be used by bullfrogs (*Rana catesbiana*) which prey on frogs and can compete for habitat and food. Precautionary measures should be implemented to reduce the impact on foothill yellow-legged and California red-legged frogs from bullfrogs.

- 4 A(4). The proposed activities would not have substantial direct or indirect effects on *common terrestrial wildlife species* with Mitigation Measures 4.6, 4.9 and 4.10 incorporated.

Project activities would modify or destroy habitat, potentially resulting in disturbance, displacement, or mortality of common terrestrial wildlife species (e.g., reptiles, amphibians, and mammals). Mobile wildlife species would be displaced as part of the initial construction activities, but these species would likely colonize adjacent habitats. Direct mortality could result to less-mobile species.

- 4 A(5). The proposed activities would not have substantial direct or indirect effects on *special-status fish or aquatic species* with Mitigation Measures 4.8, 4.11, 4.12 and 4.20 incorporated.

The Grape Creek watershed supports steelhead trout (Central California Coast DPS), coho salmon (Central California Coast ESU), and Chinook salmon (California Coastal ESU) (CEMAR 2013). Construction activities would not occur within Grape Creek itself; however, water quality impacts from sedimentation due to construction may adversely impact special-status fish.

Operation of the irrigation pond could result in the introduction of exotic, non-native fish species if the irrigation pond is stocked with trout and other fish species. Should the irrigation pond overflow and water from the pond enter Grape Creek, the stocked fish may likely enter Grape Creek and could result in adverse impacts to native, anadromous fish species.

Operation of the project would result in improved instream habitat that would benefit summer fish habitat in Grape Creek (CEMAR 2014). The pond would be filled with water from direct rainfall and from groundwater pumping to the reservoir at a low pumping rate (approximately 10 gallons per minute) during the rainy season when the shallow aquifer is accruing water (CEMAR 2014). Monitoring of nearby test wells indicates that shifting summer water supply of up to 590,000 gallons from a well near the creek to the irrigation pond would play an important role in sustaining the aquifer level on the Weed Farm and improving instream habitat for salmonids through the dry season (CEMAR2014).

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

Operation of the new off-channel irrigation pond would be designed to replace summer extractions from a shallow well to improve summer instream low-flow habitat conditions to promote successful salmonid spawning and rearing in Grape Creek. Withdrawals during low-flow conditions could adversely affect salmonid habitat through an inadvertent groundwater level lowering.

4 B. Potential effects on riparian and aquatic habitat

4 B(1). The proposed activities would not have substantial direct or indirect effects on special-status or other native plant species with Mitigation Measure 4.13 incorporated.

According to the background literature review, there are nine special-status plant species with reported occurrences in the project region; however, no special-status plant species were found during the surveys. The likelihood of occurrence of special-status plants within the proposed project footprint is low given the dominance of vines.

Construction activities adjacent to Wine Creek Road could impact a small patch (10' x 10') of remnant native perennial purple needle grass (*Stipa pulchra*) growing between the fence line and first row of grapes along Wine Creek Road.

4 B(2). The proposed activities would not adversely affect riparian habitats along Grape Creek with Mitigation Measures 4.8, 4.11, 4.12 and 4.14 incorporated.

The parcel and surrounding parcels support a variety of riparian communities. The project would be located immediately north of Grape Creek and construction activities would occur within 20 feet of the top of the streambank. Grading and other construction activities would occur along the riparian corridor for approximately 480 feet. The riparian corridor varies in width from five feet at the upstream boundary to 25 feet at the downstream end of the project area.

Activities could result in the loss of or disturbance to the stream channel and associated riparian vegetation.

4 B(2). The proposed activities would not adversely affect native riparian trees and other native trees on the property with Mitigation Measures 4.15 and 4.16 incorporated.

Native trees are particularly susceptible to disturbance, especially within the root crown and root zone, commonly referred to as the Root Protection Zone (RPZ), which is defined as 1.5 times the dripline radius measured from the tree trunk. The RPZ also extends approximately three feet below the soil surface. Construction activities within the RPZ

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

associated with grading for construction of the pond or for trenching associated with pipeline installation could adversely affect tree roots and impact trees within the riparian corridor. A narrow band of Oregon oaks along Wine Creek Road could be susceptible to damage during construction. These trees are not proposed for removal; however, their root zones should be protected where feasible.

- 4 B(3). The proposed activities would not contribute to new infestations and the continued spread of invasive plant species with Mitigation Measures 4.17 through 4.19 incorporated.

Any ground disturbance, including construction and restoration plantings, would involve a risk of allowing invasive species to become established in the riparian habitat adjacent to Grape Creek. Invasive species establish readily in disturbed soil. Weed seed can be transported onto a site via construction and landscaping equipment. Plants, seeds, straw, and mulch purchased for landscaping can contain seeds of noxious non-native species.

Mitigation Measures

- 4.1 Prior to tree trimming, a qualified biologist should survey for bat roosts. If occupied roosting habitat is identified, trimming of roost trees should not be allowed until the roost is abandoned or unoccupied or CDFW is consulted. If tree trimming is postponed or interrupted for more than two weeks from the date of the initial bat survey, the biologist shall repeat the pre- construction survey.
- 4.2 Construction shall be limited to daylight hours to avoid interference with the foraging abilities of bats.
- 4.3 To avoid potential losses of nesting native birds, construction activities shall occur outside of the critical breeding period (mid-March through mid-August) for special-status, migratory birds, and raptors to the extent feasible.

If activities must occur during the normal breeding season, work areas shall be surveyed by a qualified biologist to identify nesting birds, migratory song birds and raptors. The preconstruction surveys shall be conducted within two weeks prior to initiation of tree trimming or other construction activities. If the biologist finds no active nesting or breeding activity, then work can proceed without restrictions.

If migratory bird and/or active raptor nests are identified within 250 feet of the construction area or if an active passerine nest is identified within 100 feet of the construction area, a qualified biologist shall determine whether or not construction activities may impact the active nest or disrupt reproductive behavior. If it is determined that construction would not affect an active nest or disrupt breeding behavior, construction can proceed without restrictions. The determination of disruption shall be based on the species' sensitivity to disturbance (which can vary among species); the level of noise or construction disturbance and the line of sight between the nest and the disturbance.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

If a qualified biologist determines that construction activities would likely disrupt breeding or nesting activities, then a no-disturbance buffer shall be placed around the nesting location. The no-disturbance buffer shall include the active nest or breeding areas plus a 100-foot buffer for small songbirds and a 250-foot buffer for larger birds (e.g., raptors). Construction activities in the no disturbance buffers shall be avoided until the nests have been vacated.

If the site is left unattended for more than one-week following the initial surveys, additional surveys shall be completed. Ongoing construction monitoring shall occur to ensure no nesting activity is disturbed. If state and/or federally listed birds are found breeding within the area, activities shall be halted, and consultation with the California Department of Fish and Wildlife and U.S. Fish and Wildlife Service shall occur.

- 4.4 A preconstruction survey for Pacific pond turtle shall occur prior to beginning work, and work shall only occur in areas that have been surveyed. This would include a focused survey for adult turtles and nest site searches. Any adults found within the work area shall be relocated to suitable off-site habitat. Nest sites discovered during the preconstruction survey or anytime during construction shall be avoided until vacated, as determined by a qualified biologist. On-going monitoring during construction shall occur to ensure turtles have not moved back into the area and they are not being impacted by activities.
- 4.5 A preconstruction survey for foothill yellow-legged frog and California red-legged frog shall occur prior to beginning work, and work shall only occur in areas that have been surveyed by a qualified biologist. Frogs surveys would be primarily restricted to the stream channels; however, upland areas shall also be surveyed to detect any migrating frogs. If found, temporary exclusionary fencing shall be installed, as appropriate (see below), and on-going monitoring during construction shall occur.
- 4.6 Temporary wildlife exclusionary fencing (e.g., silt fence, which is a piece of synthetic filter fabric [also called geotextile]) shall be installed around work areas during construction. Openings shall be restricted to areas of construction site access. This fencing would preclude animals from entering the work area and prevent construction debris and workers from entering adjacent riparian and aquatic habitats.
- 4.7 Before any construction begins, a qualified biologist shall conduct a training session for all construction crew personnel. The training shall include a discussion of the sensitive biological resources within the project site and the potential presence of special-status species. This shall include a discussion of special-status species' habitats, protection measures to ensure species are not impacted by project activities, project boundaries, and biological conditions outlined in the project permits.
- 4.8 Proper erosion control and other water quality Best Management Practices (BMPs) shall be implemented to avoid sedimentation, discharge of untreated water, and disturbance to riparian and aquatic habitats.
- 4.9 A preconstruction survey (on the day preceding work and/or ahead of the construction crew) shall be performed prior to site disturbance, such as grading. If terrestrial species are

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

- observed within the work area or immediate surroundings, these areas shall be avoided until the animal(s) has (have) vacated the area and/or the animal(s) will be relocated out of the project area by a qualified biologist.
- 4.10 Work areas shall be surveyed periodically during construction to ensure that no terrestrial species are being impacted by construction activities.
 - 4.11 All staging, maintenance, fueling, and storage of construction equipment shall be conducted in a location and manner that would prevent potential runoff of petroleum products into Grape Creek and adjacent aquatic habitats. Oil-absorbent and spill-containment materials shall be on site at all times.
 - 4.12 Avoid the use of pesticides in landscaping, and minimize the use of fertilizers to prevent runoff into nearby aquatic and terrestrial habitats.
 - 4.13 To the extent feasible, the remnant native perennial purple needle grass shall be protected or the plants salvaged and replanted in the area following construction.
 - 4.14 No ground disturbance shall occur within the riparian vegetation along Grape Creek, and ground disturbance shall occur as far from the riparian vegetation as feasible. The edge of the allowable construction area shall be clearly delineated with exclusion fencing to reduce the potential for disturbance by construction vehicles and construction personnel.
 - 4.15 When feasible, work within the Root Protection Zone shall be limited. The outer extent of the RPZ shall be clearly delineated with exclusion fencing during construction to keep construction vehicles and construction activities away from tree root. If native trees are lost during construction, mitigation may be required by the resource agencies.
 - 4.16 A qualified arborist shall guide trenching operations during installation of the pipelines along the vineyard road to minimize potential damage to tree roots. A certified arborist shall guide tree trimming if needed during construction.
 - 4.17 Any seed, straw, or mulch brought onto the property shall be certified weed-free or inspected by the project biologist or revegetation specialist before use to confirm weed seed is not present.
 - 4.18 Construction vehicles and other landscaping equipment shall be cleaned of seed and soil from other sites before entering this project area.
 - 4.19 Revegetation of disturbed soil shall occur promptly after disturbance, using native Sonoma County species wherever feasible.
 - 4.20 Provide landowner with an Operations Guide outlining measures to protect biological resources in the operations of the off-stream irrigation pond.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

5. CULTURAL RESOURCES Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?	X			
B. Directly or indirectly destroy a unique archaeological or paleontological resource or site or unique geologic feature?				X
C. Disturb any human remains, including those interred outside of formal cemeteries?				X

Impact Analysis

No Impact

5. A. The CEQA guidelines define a historical resource as used in this section as a resource listed in the California Register of Historic Places (CRHR), or determined to be eligible for listing on the register by a lead agency. Eligibility is determined by either a) applying the criteria for listing in the CRHR, or, b) finding a listing in a local register of resources (Section 15064.5).

A cultural resources study of the project area was performed by Tom Origer & Associates, an archaeological firm that meets the Secretary of the Interior’s Professional Qualifications Standards (36 CFR Part 61, and 48 FR 44716). Archival research found no cultural resources in the study area or reported ethnographic sites within one mile of the survey area.

Less Than Significant Impact

5. B-C. No historic or prehistoric cultural resources have been discovered in the Project area (Tom Origer & Associates, March 23, 2015). The project site is not known to be associated with any known paleontological resources or unique geologic features. There is the possibility of accidental archaeological, paleontological, and/or human remains discoveries during construction-related ground-disturbing activities. Should accidental discoveries occur, the Project would implement County policies and state law to protect archaeological resources (Mitigation Measures 5.1 and 5.2). concerning mitigation measures for paleontological resources if any are discovered during project construction.

Mitigation Measures

The following Measures will only be required in the case of accidental discovery.

- 5.1 If archaeological remains are uncovered, work at the place of discovery should be halted immediately until a qualified archaeologist can evaluate the finds (§15064.5 [f]). Prehistoric

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

archaeological site indicators include: obsidian and chert flakes and chipped stone tools; grinding and mashing implements (e.g., slabs and handstones, and mortars and pestles); bedrock outcrops and boulders with mortar cups; and locally darkened midden soils. Midden soils may contain a combination of any of the previously listed items with the possible addition of bone and shell remains, and fire-affected stones. Historic period site indicators generally include: fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and feature remains such as building foundations and discrete trash deposits (e.g., wells, privy pits, dumps).

5.2. If human remains are encountered, the following actions are promulgated in the CEQA Guidelines Section 15064.5(d) pertaining to the discovery of human remains: excavation or disturbance of the location must be halted in the vicinity of the find, and the county coroner contacted. If the coroner determines the remains are Native American, the coroner will contact the Native American Heritage Commission. The Native American Heritage Commission will identify the person or persons believed to be most likely descended from the deceased Native American. The most likely descendent makes recommendations regarding the treatment of the remains with appropriate dignity.

6. GEOLOGY AND SOILS Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving: <ul style="list-style-type: none"> i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? ii) Strong seismic ground shaking? iii) Seismic-related ground failure, including liquefaction? iv) Landslides? 	X			
B. Result in substantial soil erosion or the loss of topsoil?			X	
C. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	X			
D. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	X			

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

E. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of wastewater?	X			
F. Disturb unique geologic or physical features?	X			

Impact Analysis

No Impact

6. A, C-F. A Geotechnical Study Report was completed by RGH Consultants (2013). According to the report, the site is appropriate for the proposed project from a geotechnical engineering standpoint provided all engineering is reviewed and approved by RGH Consultants, is in accordance with the Geotechnical Study Report, and all construction is observed by RGH Consultants and their recommendations are implemented. The project is in a rural area with no structures, septic tanks, or waste water systems in the immediate vicinity. No known unique physical or geological features are associated with the subject site.

Less Than Significant Impact with Mitigation Incorporated

6. B. The project includes grading associated with the construction of an embankment and pond. The potential for substantial soil loss or the loss of topsoil is present. Measures 6.1 through 6.4 will be incorporated to mitigate these impacts to less than significant levels.

Mitigation Measures

- 6.1 All engineering will be in accordance with the Geotechnical Study Report and reviewed and approved by RGH Consultants. All construction will be observed by RGH consultants and their recommendations will be implemented.
- 6.2 Concentrated surface water run-off could cause soil erosion and loss of topsoil. This will be mitigated by diverting surface water around the toe of the embankment, armoring the overflow channel, and installing energy dissipators where necessary.
- 6.3 Water flowing on the surface of soil may become concentrated resulting in soil erosion and loss of topsoil. This will be mitigated by installing erosion control blanket and straw fiber rolls on the embankment slopes. Compost or wood chips will be placed on all other disturbed areas to protect soil from erosion. Native grasses will be established on the embankment and surrounding area to ensure long term surface soil stability.
- 6.4 Temporary and permanent erosion and sedimentations controls will be specified in the Storm Water Pollution Prevention Plan (SWPPP). Contractor will implement all controls.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

7. GREENHOUSE GAS EMISSIONS/ ENERGY USE Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.				X
B. Conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases	X			
C. Conflict with adopted energy conservation plans?	X			
D. Use non-renewable resources in a wasteful and inefficient manner?	X			

Impact Analysis

No Impact

7 B-D. The State of California has adopted several regulations related to GHG emissions reductions, including measures to reduce tailpipe emissions, and diesel exhaust produced by fuel combustion engines. Project operations would adhere to Statewide efforts to reduce GHGs. The project would not conflict with any energy conservation plans.

Less Than Significant Impact

7. A. GHG emissions from the Project would be produced from the construction equipment. Completion of the Project would not result in the generation of additional vehicle trips once the revegetation efforts are established and monitoring is complete. GHG emissions resulting from construction activity would be short-term in nature and limited in quantity and scope, resulting in less than significant impacts. Thus, while the Project would have an incremental contribution of GHGs within the context of the County and region, this increase would be temporary, and the project impact is not cumulatively considerable. Additionally, Re-vegetation practices will help offset the short term, less than significant, greenhouse gas emissions.

Mitigation Measures

None required.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

8. HAZARDS Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			X	
B. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			X	
C. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	X			
D. Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	X			
E. For a project located within an airport land use plan or, where such a plan has not been adopted, within two mi of a public airport or public use airport, would the project result in a safety hazard for people residing or	X			
F. For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the Project area?	X			
G. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	X			
H. Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	X			

Impact Analysis

No Impact

8 C-G. The project is on a large, privately-owned property, with no public access to areas near the project site. No existing or proposed schools, airports, or other public facilities are within one-quarter mile of the project site. The site has not been identified as a hazardous materials site, or included in an emergency response/evacuation plan.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

Less Than Significant Impact with Mitigation Incorporated

8. A-B. Heavy construction equipment has the potential to release oil, hydraulic fluid, or other hazardous substances, or to result in grass fires. Measures 8.1 and 8.2 will be incorporated in order to mitigate these potential impacts to less than significant levels.

Mitigation Measures

- 8.1 Construction crews will follow the SWPPP, standard BMPs and the project plans and specifications to minimize risk of spills or leaks and allow for rapid and complete clean-up of any spilled material. Small amounts of hazardous materials would be used during construction activities (i.e., fuel and oil for equipment maintenance). Hazardous materials would only be used during construction of the Project, and any hazardous material uses would be required to comply with all applicable local, state, and federal standards associated with the handling and storage of hazardous materials. Use of hazardous materials in accordance with applicable standards ensures that any exposure of the public to hazard materials would have a less-than-significant impact.
- 8.2 The contractor must construct the Project in accordance with the County's Grading regulations and implement Best Management Practices as identified in the SWPPP, the LSAA 1602 permit, the project plans and specifications.

9. HYDROLOGY AND WATER QUALITY Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Violate any water quality standards or waste discharge requirements?	X			
B. Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?			X	
C. Result in the disturbance or contamination of groundwater?			X	
D. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	X			

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

E. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	X			
F. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	X			
G. Otherwise substantially degrade water quality?			X	
H. Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	X			
I. Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	X			
J. Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	X			
K. Inundation by seiche, tsunami, or mudflow?	X			

Impact Analysis

No Impact

9. A The project will not violate water quality or waste discharge requirements, or otherwise substantially degrade water quality. Water quality objectives will be met through adherence to construction provisions, precautions, BMPs, and water pollution control measures pursuant to the required Section 404 Clean Water Act (CWA) ACOE permit, Section 401 Water Quality Certification (including a Storm Water Pollution Prevention Plan), and 1602 Streambed Alteration Agreement.
9. D, E, F. The Project will not substantially alter the existing drainage pattern of the site increase stormwater runoff, erosion or siltation or provide sources of polluted runoff. The project will not alter the course of a stream or river.
9. H-I. The Project will not place housing within a 100-year flood hazard. The project will not place within a 100-year flood hazard area structures which would impede or redirect flood flows?
9. J. The Project is not within a Dam Failure Inundation Zone. The project will not expose people or structures to a significant risk of loss, injury or death involving flooding.
9. K. The Project is not in an area subject to seiche, tsunami, mudflow.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

Less Than Significant Impact with Mitigation Incorporated

9. B,C The Geotechnical Study Report by RGH Consultants noted that test borings indicated that groundwater could be encountered during excavation of the pond bottom. Pumps may be used before construction to temporarily lower groundwater below the bottom of excavation. Intermittent pumping will likely be necessary during construction, in order to remove groundwater intrusion. Impacts will be mitigated to less than significant levels through Measures 9.1 and 9.2.

9.G Due to grading activities there is potential for water quality degradation due to erosion. Impacts will be mitigated to less than significant levels through Measure 9.3.

Mitigation measures

- 9.1 Pumps will be used before construction to hasten drawdown of groundwater to below the bottom of excavation. Intermittent pumping will likely be necessary during construction, in order to remove groundwater intrusion.
- 9.2 Dewatering of the construction site, if necessary, will lower the local groundwater level during construction of the pond embankment. Streamflow monitoring will occur during construction to ensure construction activities do not disrupt streamflow. If streamflow cannot be adequately protected, a qualified biologist will remove and relocate aquatic species to a suitable location downstream. All dewatering activities will be in accordance with the SWPPP any applicable permits.
- 9.3 The project will be conducted in accordance with the SWPPP in order to prevent the discharge of pollution, trash, litter, etc. from the site. Erosion control measures shall be utilized throughout all phases of operation where sediment runoff from exposed slopes threatens to enter jurisdictional waters. At no time shall silt laden runoff be allowed to enter the stream or directed to where it may enter the stream. Silt control structures shall be monitored for effectiveness and shall be repaired or replaced as needed

10. LAND USE AND PLANNING Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Disrupt or divide the physical arrangement of an established community (including a low-income or minority community)?	X			

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

B. Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	X			
C. Be incompatible with existing land use in the vicinity?	X			
D. Affect agricultural resources or operations (e.g. impacts to soils or farmlands, or impacts from the incompatible land uses)?	X			
E. Conflict with any applicable habitat conservation plan or natural community conservation plan?	X			

Impact Analysis

No Impact

10 A-E. The Project site is in an isolated setting (a privately-owned vineyard), and would not affect any human communities. The Project does not conflict with any land uses or plans. The project is compatible with the existing agricultural uses on the property.

Mitigation Measures

No required.

11. MINERAL RESOURCES Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Result in the loss of availability of a known mineral resource that would be of future value to the region and the residents of the State?	X			
B. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	X			

Impact Analysis

No Impact

11. A-B. Mining operations do not occur in the Project vicinity. The Project is not within or adjacent to any important mineral resource areas as identified by the State of California, the County of Sonoma General Plan, or other public document.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

Mitigation Measures

No required.

12. NOISE Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Expose persons to or generate noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	X			
B. Expose persons to or generate excessive groundborne vibration or groundbourne noise levels?			X	
C. Create a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	X			
D. Create a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?			X	
E. For a project located within an airport land use plan or, where such a plan has not been adopted, within two mi of a public airport or public use airport, would the project expose people residing or working in the Project area to excessive noise levels?	X			
F. For a project within the vicinity of a private airstrip, would the project expose people residing or working in the Project area to excessive noise levels?	X			

Impact Analysis

No Impact

12. A, C, E, F. Project personnel will be protected from ambient noise exposure through the use of hearing protection. The Project will not be in conflict with any local ordinances or agency standards, or create any permanent increases in ambient noise or vibration. The Project is not located within an airport land use plan area or within two miles of a public or public use airport. The Project is not located within the vicinity of a private airstrip.

Less Than Significant Impact with Mitigation Incorporated

12. B, D. Construction equipment will increase ambient noise levels and groundbourne vibration temporarily in the vicinity of the Project. The project is relatively isolated, with the nearest

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

residence approximately 0.5 mile from the site over hilly terrain. Any increases would be temporary and only occur during the daytime hours (typically 8 AM to 6 PM Monday through Friday). The limited timeframe of construction between August 1 and October 15 will prevent impacts to breeding birds or other animals. Once complete, the Project will not result in operational noise and vibration levels above the existing levels. During construction, Measures 12.1 through 12.4 will be incorporated to mitigate noise impacts to less than significant levels.

Mitigation Measures

- 12.1 During grading and construction, delivery of materials and equipment, outdoor operations of equipment, and construction activity shall be limited to the hours between 8:00 a.m. and 6:00 p.m.
- 12.2 All construction equipment, stationary or mobile, shall be equipped with properly operating and maintained mufflers.
- 12.3 All construction equipment shall be stored on the project site during the construction phase to eliminate daily heavy-duty truck trips on vicinity roadways.
- 12.4 Personnel shall wear hearing protection while operating or working near noisy equipment (producing noise levels ≥ 85 db, including chain saws, excavators, and back hoes).

13. POPULATION AND HOUSING Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Induce substantial population growth in an area, cumulatively exceeding official regional or local population projections?	X			
B. Induce substantial growth in an area either directly or indirectly (e.g. through projects in an undeveloped area or extension of major infrastructure)?	X			
C. Displace existing housing, especially affordable housing, necessitating the construction of replacement housing elsewhere?	X			

Impact Analysis

No Impact

- 14.A-C. The project will have no effect on population or housing, as it does not involve development ore removal of housing, or extension of public infrastructure.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

Mitigation Measures

None required.

14. PUBLIC SERVICES Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
A. Fire protection?	X			
B. Police protection?	X			
C. Schools?	X			
D. Other governmental services?	X			
E. Maintenance of public facilities, including roads?	X			

Impact Analysis

No Impact

14A-E. The project would not increase human presence or in the area, or increase use of public facilities or roads. No new or physically altered governmental facilities would be needed.

Mitigation Measures

None required.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

15. RECREATION Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Increase the demand for neighborhood or regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	X			
B. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	X			
C. Affect existing recreational opportunities?	X			

Impact Analysis

No Impact.

15 A-C. The project will take place on a private agricultural parcel. The project does not involve construction of recreational facilities, nor will it impact existing recreational facilities or opportunities.

Mitigation Measures

None required.

16. TRANSPORTATION/CIRCULATION Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Increase vehicle trips or traffic congestion?			X	
B. Create or exacerbate hazards to safety from design features (e.g. sharp curves or dangerous intersections) or incompatible uses (e.g. farm equipment)?	X			
C. Result in inadequate emergency access or access to nearby uses?	X			

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

D. Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation, including mass transit and non-motorized travel and, relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	X			
E. Conflict with an applicable congestion management program, including but not limited to, level of service standards, and travel demand measures or other standards established by the county congestion management agency for designated roads or highways?	X			
F. Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	X			
G. Conflict with adopted policies, plans, or programs supporting alternative transportation (e.g., bus turnouts, bicycle racks)?	X			
H. Result in insufficient parking capacity on-site or off site?	X			

Impact Analysis

No Impact.

16.B-H. The project site is on private property on a private driveway. Sufficient parking and staging areas for construction activities exist near the project site within the property. Construction is not expected to affect safety or emergency access in any way, and will not impact air traffic patterns conflict with local plans or ordinances.

Less Than Significant Impact.

16. A. Construction of the project will result in a minor increase in vehicle traffic in the project neighborhood, during the August – October construction window. Trucks and equipment will enter the site via Wine Creek Road. Most of the construction material will be derived onsite which will minimize truck traffic. Traffic impacts during construction will be mitigated to less than significant levels through Measures 16.1 and 16.2.

Mitigation Measures

- 16. 1. Equipment operators will be instructed to drive slowly to avoid safety issues.
- 16.2 Heavy equipment will remain on site during construction to minimize trips.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

17. UTILITIES AND SERVICE SYSTEMS Would the project:	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. Utilize significant power or natural gas?	X			
B. Overtax or disrupt local communications systems?	X			
C. Overtax local or regional water treatment or distribution facilities?	X			
D. Affect sewer or septic tanks?	X			
E. Require significant draws from local or regional water supplies?	X			
F. Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	X			
G. Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	X			
H. Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	X			
I. Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	X			
J. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has inadequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	X			
K. Be served by a landfill with insufficient permitted capacity to accommodate the project's solid waste disposal needs?	X			
L. Be in noncompliance with federal, state, and local statutes and regulations related to solid waste?	X			

Impact Analysis

No Impact.

17 A-L. The project is not expected to generate solid waste. No trips to the landfill are planned. Solid waste disposal would occur in accordance with federal, state, and local regulations. The project will not produce any wastewater, increase stormwater or require usage of local power or communication systems. The project will not result in increased water use or impact sewer or septic tanks.

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

Mitigation Measures.

None required.

18. MANDATORY FINDINGS OF SIGNIFICANCE	No Impact	Potential Significant Impact	Less Than Significant with Mitigation Inc.	Less Than Significant Impact
A. 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 important examples of the major periods of California history or prehistory?			X	
B. Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals?	X			
C. Does the project have impacts that are individually limited, but cumulatively considerable? (“Cumulatively considerable” means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)	X			
D. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	X			

Impact Analysis

No Impact.

18 B-D. The Project will not have any negative long-term or cumulative environmental impacts, and will have no substantial adverse effects on human beings, directly or indirectly.

Less than Significant Impact.

18 A. As discussed in the previous sections, although the Project has been designed to have a net environmental benefit, it also has the potential for adverse effects to biological resources during project construction. Mitigation measures as described in the previous sections would reduce the magnitude of these impacts to a less than significant level. By implementing Best Management Practices, environmental protection, avoidance, and minimization measures incorporated into the Project design and description, and complying with existing rules, regulations, and policies, the Project will not degrade the

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
 Sonoma Resource Conservation District
 April 2015

quality of the environment.

Environmental Factors Potentially Affected

This Initial Study has determined that in the absence of mitigation the proposed Project could have the potential to result in significant impacts associated with the factors checked below. Mitigation measures are identified in this Initial Study that would reduce all potentially significant impacts to less-than-significant levels.

<input checked="" type="checkbox"/> Aesthetics	<input type="checkbox"/> Mineral Resources
<input type="checkbox"/> Agricultural and Forest Resources	<input checked="" type="checkbox"/> Noise
<input checked="" type="checkbox"/> Air Quality	<input type="checkbox"/> Population and Housing
<input checked="" type="checkbox"/> Biological Resources	<input type="checkbox"/> Public Services
<input type="checkbox"/> Cultural Resources	<input type="checkbox"/> Recreation
<input checked="" type="checkbox"/> Geology and Soils	<input checked="" type="checkbox"/> Transportation/Traffic
<input type="checkbox"/> Greenhouse Gas Emissions/Energy Use	<input type="checkbox"/> Utilities and Service Systems
<input checked="" type="checkbox"/> Hazards and Hazardous Materials	<input checked="" type="checkbox"/> Mandatory Findings of Significance
<input checked="" type="checkbox"/> Hydrology and Water Quality	<input type="checkbox"/> None Identified
<input type="checkbox"/> Land Use and Planning	

Exhibit 4: Mitigated Negative Declaration

CEQA Initial Study/Mitigated Negative Declaration
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond Project
Sonoma Resource Conservation District
April 2015

Determination

(To be completed by the Lead Agency).

On the basis of this initial evaluation:

- I found that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- 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 measures described on an attached sheet have been added to the project. A MITIGATED NEGATIVE DECLARATION will be prepared.
- I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- I find that the proposed project MAY have a significant effect(s) 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, if the effect is a “potentially significant impact” or “potentially significant unless mitigated.” An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.
- I find that although the proposed project could have a significant effect on the environments, there WILL NOT be a significant effect in this case because all potentially significant effects (a) have been adequately addressed in an earlier EIR pursuant to applicable standards and (b) have been avoided or mitigated pursuant to that earlier EIR, including revisions to the project design or mitigation measures that are imposed upon the proposed project.

Signature

Date

Printed Name

Organization

**CEQA Mitigation Monitoring and Reporting Plan
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond**

**Sonoma Resource Conservation District
April 2015**

Format of This Plan

The MMRP summarizes the impacts and mitigation measures identified and described in the Project IS/MND. Each of the impacts discussed within this MMRP is numbered based on the sequence in which they are discussed in the IS/MND. Mitigation measures are provided with the monitoring action, party responsible for monitoring, and timeframe.

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
1. AESTHETICS.			
1.1 The site will be revegetated with appropriate native grasses	Ensure that revegetation measures specified on plans and SWPPP are implemented	Sonoma RCD, Contractor, Landowner	Monitoring and Reporting timeframe will be according to the SWPPP.
1.2 Construction activities will occur during daytime hours only to avoid creating glare.	Ensure Contractor is in compliance	Sonoma RCD, Contractor	During construction
3. AIR QUALITY.			
3.1 The contractor shall comply with all applicable air pollution ordinances, statutes, rules, and regulations, and properly maintain equipment to reduce emissions.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
3.2 Heavy-duty construction equipment shall be kept on-site when not in operation to minimize exhaust emissions or dust from unpaved roads associated with vehicles repetitiously traveling to and from the project site.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction

Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
3.3 During construction, water trucks shall be used around areas of ground disturbance as needed to prevent excessive dust from leaving the site.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
3.4 Graded surfaces shall be covered with erosion control fabric and/or vegetated as soon as feasibly possible after the completion of grading within the construction area, to reduce dust.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
3.5 Contractor shall submit a dust control plan for approval before beginning construction	Ensure plan is accepted and measures area being implemented	Sonoma RCD, Contractor	Before and during construction
3.6 Air quality controls will be specified in the Storm Water Pollution Prevention Program (SWPPP). Contractor will implement all air quality controls.	Ensure that measures identified in SWPPP are implemented during construction	Sonoma RCD, Contractor	During construction
4. BIOLOGICAL RESOURCES.			
4.1 Prior to tree trimming, a qualified biologist shall survey for bat roosts. If occupied roosting habitat is identified, trimming of roost trees shall not be allowed until the roost is abandoned or unoccupied or CDFW is consulted. If tree trimming is postponed or interrupted for more than two weeks from the date of the initial bat survey, the biologist shall repeat the pre-construction survey.	Ensure surveys are completed	Sonoma RCD, qualified biologist	At least thirty (30) days before initiating ground- or vegetation-disturbing activities and during construction
4.2 Construction shall be limited to daylight hours to avoid interference with the foraging abilities of bats.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction

Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

<p>4.3 To avoid potential losses of nesting native birds, construction activities shall occur outside of the critical breeding period (mid-March through mid-August) for special-status, migratory birds, and raptors to the extent feasible.</p> <p>If activities must occur during the normal breeding season, work areas shall be surveyed by a qualified biologist to identify nesting birds, migratory song birds and raptors. The preconstruction surveys shall be conducted within two weeks prior to initiation of tree trimming or other construction activities. If the biologist finds no active nesting or breeding activity, then work can proceed without restrictions.</p> <p>If migratory bird and/or active raptor nests are identified within 250 feet of the construction area or if an active passerine nest is identified within 100 feet of the construction area, a qualified biologist shall determine whether or not construction activities may impact the active nest or disrupt reproductive behavior. If it is determined that construction would not affect an active nest or disrupt breeding behavior, construction can proceed without restrictions. The determination of disruption shall be based on the species' sensitivity to disturbance (which can vary among species); the level of noise or construction disturbance and the line of sight between the nest and the disturbance.</p> <p>If a qualified biologist determines that construction activities would likely disrupt breeding or nesting activities, then a no-disturbance buffer shall be placed around the nesting location. The no-disturbance buffer shall include the active nest or breeding areas plus a 100-foot buffer for small songbirds and a 250-foot buffer for larger birds (e.g., raptors). Construction activities in the no disturbance buffers shall be avoided until the nests have been vacated.</p> <p>If the site is left unattended for more than one-week following the initial surveys, additional surveys shall be completed. Ongoing construction monitoring shall occur to ensure no nesting activity is disturbed. If state and/or federally listed birds are found breeding within the area, activities shall be halted, and consultation with the California Department of Fish and Wildlife and U.S. Fish and Wildlife Service shall occur.</p>	<p>Ensure surveys are completed and protection measures are in place.</p>	<p>Sonoma RCD, qualified biologist</p>	<p>Before and during construction</p>
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Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
<p>4.4 A preconstruction survey for Pacific pond turtle shall occur prior to beginning work, and work shall only occur in areas that have been surveyed. This would include a focused survey for adult turtles and nest site searches. Any adults found within the work area shall be relocated to suitable off-site habitat. Nest sites discovered during the preconstruction survey or anytime during construction shall be avoided until vacated, as determined by a qualified biologist. On-going monitoring during construction shall occur to ensure turtles have not moved back into the area and they are not being impacted by activities.</p>	<p>Ensure surveys are completed</p>	<p>Sonoma RCD, qualified biologist</p>	<p>Before and during construction</p>
<p>4.5 A preconstruction survey for foothill yellow-legged frog and California red-legged frog shall occur prior to beginning work, and work shall only occur in areas that have been surveyed by a qualified biologist. Frogs surveys would be primarily restricted to the stream channels; however, upland areas shall also be surveyed to detect any migrating frogs. If found, temporary exclusionary fencing shall be installed, as appropriate (see below), and on-going monitoring during construction shall occur.</p>	<p>Ensure surveys are completed</p>	<p>Sonoma RCD, qualified biologist</p>	<p>Before and during construction</p>
<p>4.6 Temporary wildlife exclusionary fencing (e.g., silt fence, which is a piece of synthetic filter fabric [also called geotextile]) shall be installed around work areas during construction. Openings shall be restricted to areas of construction site access. This fencing would preclude animals from entering the work area and prevent construction debris and workers from entering adjacent riparian and aquatic habitats.</p>	<p>Ensure that measures are implemented during construction</p>	<p>Sonoma RCD, Contractor</p>	<p>During construction</p>
<p>4.7 Before any construction begins, a qualified biologist shall conduct a training session for all construction crew personnel. The training shall include a discussion of the sensitive biological resources within the project site and the potential presence of special-status species. This shall include a discussion of special-status species' habitats, protection measures to ensure species are not impacted by project activities, project boundaries, and biological conditions outlined in the project permits.</p>	<p>Ensure that training has been conducted</p>	<p>Sonoma RCD, qualified biologist</p>	<p>Before construction</p>

Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
4.8 Proper erosion control and other water quality Best Management Practices (BMPs) shall be implemented to avoid sedimentation, discharge of untreated water, and disturbance to riparian and aquatic habitats.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During (temporary BMPs) and immediately after completion of ground-disturbing activities
4.9 A preconstruction survey (on the day preceding work and/or ahead of the construction crew) shall be performed prior to site disturbance, such as grading. If terrestrial species are observed within the work area or immediate surroundings, these areas shall be avoided until the animal(s) has (have) vacated the area and/or the animal(s) will be relocated out of the project area by a qualified biologist.	Ensure surveys are completed	Sonoma RCD, qualified biologist	Daily during construction
4.10 Work areas shall be surveyed periodically during construction to ensure that no terrestrial species are being impacted by construction activities.	Ensure surveys are completed	Sonoma RCD, qualified biologist	During construction
4.11 All staging, maintenance, fueling, and storage of construction equipment shall be conducted in a location and manner that would prevent potential runoff of petroleum products into Grape Creek and adjacent aquatic habitats. Oil-absorbent and spill-containment materials shall be on site at all times.	Ensure that measures are implemented and spill containment materials are on-site during construction	Sonoma RCD, Contractor	During construction
4.12 Avoid the use of pesticides in landscaping, and minimize the use of fertilizers to prevent runoff into nearby aquatic and terrestrial habitats.	Ensure that pesticides are avoided and use of fertilizers is minimized	Sonoma RCD and landowner	After construction
4.13 To the extent feasible, the remnant native perennial purple needle grass shall be protected or the plants salvaged and replanted in the area following construction.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction

Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
4.14 No ground disturbance shall occur within the riparian vegetation along Grape Creek, and ground disturbance shall occur as far from the riparian vegetation as feasible. The edge of the allowable construction area shall be clearly delineated with exclusion fencing to reduce the potential for disturbance by construction vehicles and construction personnel. (U.S. Fish and Wildlife Service, 2005), CRF will be assumed present at all sites with potential habitat at the time of construction.	Ensure that protections are in place	Sonoma RCD, Contractor	During construction
4.15 When feasible, work within the Root Protection Zone shall be limited. The outer extent of the RPZ shall be clearly delineated with exclusion fencing during construction to keep construction vehicles and construction activities away from tree root. If native trees are lost during construction, mitigation may be required by the resource agencies.	Ensure that protections are in place	Sonoma RCD, Contractor	During construction
4.16 A qualified arborist shall guide trenching operations during installation of the pipelines along the vineyard road to minimize potential damage to tree roots. A certified arborist shall guide tree trimming if needed during construction.	Ensure measures are followed by contractor	Sonoma RCD, qualified arborist	During construction
4.17 Any seed, straw, or mulch brought onto the property shall be certified weed-free or inspected by the project biologist or revegetation specialist before use to confirm weed seed is not present.	Ensure measures are being followed	Sonoma RCD, qualified biologist	During construction
4.18 Construction vehicles and other landscaping equipment shall be cleaned of seed and soil from other sites before entering this project area.	Ensure measures are being followed	Sonoma RCD, Contractor	Before and during construction
4.19 Revegetation of disturbed soil shall occur promptly after disturbance, using native Sonoma County species wherever feasible.	Ensure revegetation has occurred. Follow SWPPP monitoring protocols	Sonoma RCD and landowner	After construction
4.20 Provide landowner with an Operations Guide outlining measures to protect biological resources in the operations of the off-stream irrigation pond.	Dewatering infrastructure to be reviewed by Project Engineer prior to pumping	Sonoma RCD, Project Engineer	Pre-construction

Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
5. CULTURAL RESOURCES.			
5.1 If archaeological remains are uncovered, work at the place of discovery should be halted immediately until a qualified archaeologist can evaluate the finds (§15064.5 [f]). Prehistoric archaeological site indicators include: obsidian and chert flakes and chipped stone tools; grinding and mashing implements (e.g., slabs and handstones, and mortars and pestles); bedrock outcrops and boulders with mortar cups; and locally darkened midden soils. Midden soils may contain a combination of any of the previously listed items with the possible addition of bone and shell remains, and fire-affected stones. Historic period site indicators generally include: fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and feature remains such as building foundations and discrete trash deposits (e.g., wells, privy pits, dumps).	Cultural resources report detailing findings will be submitted to regulatory agencies by qualified archaeologist	Sonoma RCD, qualified archaeologist	Upon discovery of cultural resources during construction
5.2 If human remains are encountered, the following actions are promulgated in the CEQA Guidelines Section 15064.5(d) pertaining to the discovery of human remains: excavation or disturbance of the location must be halted in the vicinity of the find, and the county coroner contacted. If the coroner determines the remains are Native American, the coroner will contact the Native American Heritage Commission. The Native American Heritage Commission will identify the person or persons believed to be most likely descended from the deceased Native American. The most likely descendent makes recommendations regarding the treatment of the remains with appropriate dignity.	Cultural resources report detailing findings will be submitted to regulatory agencies by qualified archaeologist; consultations as specified	Sonoma RCD, qualified archaeologist	Upon discovery of cultural resources during construction
6. GEOLOGY AND SOILS.			

Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
6.1 All engineering will be in accordance with the Geotechnical Study Report and reviewed and approved by RGH Consultants. All construction will be observed by RGH consultants and their recommendations will be implemented.	Ensure design and construction are in accordance with design and geotechnical engineer's recommendations	Sonoma RCD, Geotechnical Engineer	During final design phase, and during construction
6.2 Concentrated surface water run-off could cause soil erosion and loss of topsoil. This will be mitigated by diverting surface water around the toe of the embankment, armoring the overflow channel, and installing energy dissipators where necessary.	Ensure design and construction are in accordance with design and geotechnical engineer's recommendations	Sonoma RCD, Project Engineer, Geotechnical Engineer	During final design phase, and during construction
6.3 Water flowing on the surface of soil may become concentrated resulting in soil erosion and loss of topsoil. This will be mitigated by installing erosion control blanket and straw fiber rolls on the embankment slopes. Compost or wood chips will be placed on all other disturbed areas to protect soil from erosion. Native grasses will be established on the embankment and surrounding area to ensure long term surface soil stability.	Ensure design and construction are in accordance with design and geotechnical engineer's recommendations	Sonoma RCD, Project Engineer, Geotechnical Engineer	During construction, and until Notice of Termination (NOT) has been filed.
6.4 Temporary and permanent erosion and sedimentations controls will be specified in the Storm Water Pollution Prevention Plan (SWPPP). Contractor will implement all controls.	Ensure all erosion and sedimentation control measures are in control	Sonoma RCD, Contractor	During and after construction
8. HAZARDS.			

Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
<p>8.1 Construction crews will follow the SWPPP, the LSAA 1602 permit, and the project plans and specifications to minimize risk of spills or leaks and allow for rapid and complete clean-up of any spilled material. Small amounts of hazardous materials would be used during construction activities (i.e., fuel and oil for equipment maintenance). Hazardous materials would only be used during construction of the Project, and any hazardous material uses would be required to comply with all applicable local, state, and federal standards associated with the handling and storage of hazardous materials. Use of hazardous materials in accordance with applicable standards ensures that any exposure of the public to hazard materials would have a less-than-significant impact.</p>	<p>Ensure contractor complies with SWPPP, plans and specifications, and all relevant permits</p>	<p>Sonoma RCD, Contractor</p>	<p>During Construction</p>
<p>8.2 The contractor must construct the Project in accordance with the County’s Grading regulations and implement Best Management Practices as identified in the SWPPP, the LSAA 1602 permit, the project plans and specifications.</p>	<p>Ensure contractor complies with SWPPP, plans and specifications, and all relevant permits</p>	<p>Sonoma RCD, Contractor</p>	<p>During Construction</p>
<p>9. HYDROLOGY AND WATER QUALITY.</p>			
<p>9.1 Pumps will be used before construction to hasten drawdown of groundwater to below the bottom of excavation. Intermittent pumping will likely be necessary during construction, in order to remove groundwater intrusion.</p>	<p>Ensure that measures are implemented during construction</p>	<p>Sonoma RCD, Contractor</p>	<p>Before and during construction</p>
<p>9.3 The project will be conducted in accordance with the SWPPP in order to prevent the discharge of pollution, trash, litter, etc. from the site. Erosion control measures shall be utilized throughout all phases of operation where sediment runoff from exposed slopes threatens to enter jurisdictional waters. At no time shall silt laden runoff be allowed to enter the stream or directed to where it may enter the stream. Silt control structures shall be monitored for effectiveness and shall be repaired or replaced as needed</p>	<p>Ensure that measures are implemented during construction</p>	<p>Sonoma RCD, Contractor, qualified biologist</p>	<p>During and after construction</p>

Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
12. NOISE.			
12.1 During grading and construction, delivery of materials and equipment, outdoor operations of equipment, and construction activity shall be limited to the hours between 8:00 a.m. and 6:00 p.m.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
12.2 All construction equipment, stationary or mobile, shall be equipped with properly operating and maintained mufflers.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
12.3 All construction equipment shall be stored on the project site during the construction phase to eliminate daily heavy-duty truck trips on vicinity roadways	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
12.4 Personnel shall wear hearing protection while operating or working near noisy equipment (producing noise levels ≥ 85 db, including chain saws, excavators, and back hoes).	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
16. TRANSPORTATION/CIRCULATION.			
16.1. Equipment operators will be instructed to drive slowly to avoid safety issues.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
16.2 Heavy equipment will remain on site during construction to minimize trips.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction

**CEQA Mitigation Monitoring and Reporting Plan
Grape Creek Streamflow Enhancement and Off-Channel Irrigation Pond**

**Sonoma Resource Conservation District
April 2015**

Format of This Plan

The MMRP summarizes the impacts and mitigation measures identified and described in the Project IS/MND. Each of the impacts discussed within this MMRP is numbered based on the sequence in which they are discussed in the IS/MND. Mitigation measures are provided with the monitoring action, party responsible for monitoring, and timeframe.

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
1. AESTHETICS.			
1.1 The site will be revegetated with appropriate native grasses	Ensure that revegetation measures specified on plans and SWPPP are implemented	Sonoma RCD, Contractor, Landowner	Monitoring and Reporting timeframe will be according to the SWPPP.
1.2 Construction activities will occur during daytime hours only to avoid creating glare.	Ensure Contractor is in compliance	Sonoma RCD, Contractor	During construction
3. AIR QUALITY.			
3.1 The contractor shall comply with all applicable air pollution ordinances, statutes, rules, and regulations, and properly maintain equipment to reduce emissions.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
3.2 Heavy-duty construction equipment shall be kept on-site when not in operation to minimize exhaust emissions or dust from unpaved roads associated with vehicles repetitiously traveling to and from the project site.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction

Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
3.3 During construction, water trucks shall be used around areas of ground disturbance as needed to prevent excessive dust from leaving the site.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
3.4 Graded surfaces shall be covered with erosion control fabric and/or vegetated as soon as feasibly possible after the completion of grading within the construction area, to reduce dust.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
3.5 Contractor shall submit a dust control plan for approval before beginning construction	Ensure plan is accepted and measures area being implemented	Sonoma RCD, Contractor	Before and during construction
3.6 Air quality controls will be specified in the Storm Water Pollution Prevention Program (SWPPP). Contractor will implement all air quality controls.	Ensure that measures identified in SWPPP are implemented during construction	Sonoma RCD, Contractor	During construction
4. BIOLOGICAL RESOURCES.			
4.1 Prior to tree trimming, a qualified biologist shall survey for bat roosts. If occupied roosting habitat is identified, trimming of roost trees shall not be allowed until the roost is abandoned or unoccupied or CDFW is consulted. If tree trimming is postponed or interrupted for more than two weeks from the date of the initial bat survey, the biologist shall repeat the pre-construction survey.	Ensure surveys are completed	Sonoma RCD, qualified biologist	At least thirty (30) days before initiating ground- or vegetation-disturbing activities and during construction
4.2 Construction shall be limited to daylight hours to avoid interference with the foraging abilities of bats.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction

Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

<p>4.3 To avoid potential losses of nesting native birds, construction activities shall occur outside of the critical breeding period (mid-March through mid-August) for special-status, migratory birds, and raptors to the extent feasible.</p> <p>If activities must occur during the normal breeding season, work areas shall be surveyed by a qualified biologist to identify nesting birds, migratory song birds and raptors. The preconstruction surveys shall be conducted within two weeks prior to initiation of tree trimming or other construction activities. If the biologist finds no active nesting or breeding activity, then work can proceed without restrictions.</p> <p>If migratory bird and/or active raptor nests are identified within 250 feet of the construction area or if an active passerine nest is identified within 100 feet of the construction area, a qualified biologist shall determine whether or not construction activities may impact the active nest or disrupt reproductive behavior. If it is determined that construction would not affect an active nest or disrupt breeding behavior, construction can proceed without restrictions. The determination of disruption shall be based on the species' sensitivity to disturbance (which can vary among species); the level of noise or construction disturbance and the line of sight between the nest and the disturbance.</p> <p>If a qualified biologist determines that construction activities would likely disrupt breeding or nesting activities, then a no-disturbance buffer shall be placed around the nesting location. The no-disturbance buffer shall include the active nest or breeding areas plus a 100-foot buffer for small songbirds and a 250-foot buffer for larger birds (e.g., raptors). Construction activities in the no disturbance buffers shall be avoided until the nests have been vacated.</p> <p>If the site is left unattended for more than one-week following the initial surveys, additional surveys shall be completed. Ongoing construction monitoring shall occur to ensure no nesting activity is disturbed. If state and/or federally listed birds are found breeding within the area, activities shall be halted, and consultation with the California Department of Fish and Wildlife and U.S. Fish and Wildlife Service shall occur.</p>	<p>Ensure surveys are completed and protection measures are in place.</p>	<p>Sonoma RCD, qualified biologist</p>	<p>Before and during construction</p>
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Exhibit 4: Mitigated Negative Declaration

CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
<p>4.4 A preconstruction survey for Pacific pond turtle shall occur prior to beginning work, and work shall only occur in areas that have been surveyed. This would include a focused survey for adult turtles and nest site searches. Any adults found within the work area shall be relocated to suitable off-site habitat. Nest sites discovered during the preconstruction survey or anytime during construction shall be avoided until vacated, as determined by a qualified biologist. On-going monitoring during construction shall occur to ensure turtles have not moved back into the area and they are not being impacted by activities.</p>	<p>Ensure surveys are completed</p>	<p>Sonoma RCD, qualified biologist</p>	<p>Before and during construction</p>
<p>4.5 A preconstruction survey for foothill yellow-legged frog and California red-legged frog shall occur prior to beginning work, and work shall only occur in areas that have been surveyed by a qualified biologist. Frogs surveys would be primarily restricted to the stream channels; however, upland areas shall also be surveyed to detect any migrating frogs. If found, temporary exclusionary fencing shall be installed, as appropriate (see below), and on-going monitoring during construction shall occur.</p>	<p>Ensure surveys are completed</p>	<p>Sonoma RCD, qualified biologist</p>	<p>Before and during construction</p>
<p>4.6 Temporary wildlife exclusionary fencing (e.g., silt fence, which is a piece of synthetic filter fabric [also called geotextile]) shall be installed around work areas during construction. Openings shall be restricted to areas of construction site access. This fencing would preclude animals from entering the work area and prevent construction debris and workers from entering adjacent riparian and aquatic habitats.</p>	<p>Ensure that measures are implemented during construction</p>	<p>Sonoma RCD, Contractor</p>	<p>During construction</p>
<p>4.7 Before any construction begins, a qualified biologist shall conduct a training session for all construction crew personnel. The training shall include a discussion of the sensitive biological resources within the project site and the potential presence of special-status species. This shall include a discussion of special-status species' habitats, protection measures to ensure species are not impacted by project activities, project boundaries, and biological conditions outlined in the project permits.</p>	<p>Ensure that training has been conducted</p>	<p>Sonoma RCD, qualified biologist</p>	<p>Before construction</p>

Exhibit 4: Mitigated Negative Declaration

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 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
4.8 Proper erosion control and other water quality Best Management Practices (BMPs) shall be implemented to avoid sedimentation, discharge of untreated water, and disturbance to riparian and aquatic habitats.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During (temporary BMPs) and immediately after completion of ground-disturbing activities
4.9 A preconstruction survey (on the day preceding work and/or ahead of the construction crew) shall be performed prior to site disturbance, such as grading. If terrestrial species are observed within the work area or immediate surroundings, these areas shall be avoided until the animal(s) has (have) vacated the area and/or the animal(s) will be relocated out of the project area by a qualified biologist.	Ensure surveys are completed	Sonoma RCD, qualified biologist	Daily during construction
4.10 Work areas shall be surveyed periodically during construction to ensure that no terrestrial species are being impacted by construction activities.	Ensure surveys are completed	Sonoma RCD, qualified biologist	During construction
4.11 All staging, maintenance, fueling, and storage of construction equipment shall be conducted in a location and manner that would prevent potential runoff of petroleum products into Grape Creek and adjacent aquatic habitats. Oil-absorbent and spill-containment materials shall be on site at all times.	Ensure that measures are implemented and spill containment materials are on-site during construction	Sonoma RCD, Contractor	During construction
4.12 Avoid the use of pesticides in landscaping, and minimize the use of fertilizers to prevent runoff into nearby aquatic and terrestrial habitats.	Ensure that pesticides are avoided and use of fertilizers is minimized	Sonoma RCD and landowner	After construction
4.13 To the extent feasible, the remnant native perennial purple needle grass shall be protected or the plants salvaged and replanted in the area following construction.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction

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 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
4.14 No ground disturbance shall occur within the riparian vegetation along Grape Creek, and ground disturbance shall occur as far from the riparian vegetation as feasible. The edge of the allowable construction area shall be clearly delineated with exclusion fencing to reduce the potential for disturbance by construction vehicles and construction personnel. (U.S. Fish and Wildlife Service, 2005), CRF will be assumed present at all sites with potential habitat at the time of construction.	Ensure that protections are in place	Sonoma RCD, Contractor	During construction
4.15 When feasible, work within the Root Protection Zone shall be limited. The outer extent of the RPZ shall be clearly delineated with exclusion fencing during construction to keep construction vehicles and construction activities away from tree root. If native trees are lost during construction, mitigation may be required by the resource agencies.	Ensure that protections are in place	Sonoma RCD, Contractor	During construction
4.16 A qualified arborist shall guide trenching operations during installation of the pipelines along the vineyard road to minimize potential damage to tree roots. A certified arborist shall guide tree trimming if needed during construction.	Ensure measures are followed by contractor	Sonoma RCD, qualified arborist	During construction
4.17 Any seed, straw, or mulch brought onto the property shall be certified weed-free or inspected by the project biologist or revegetation specialist before use to confirm weed seed is not present.	Ensure measures are being followed	Sonoma RCD, qualified biologist	During construction
4.18 Construction vehicles and other landscaping equipment shall be cleaned of seed and soil from other sites before entering this project area.	Ensure measures are being followed	Sonoma RCD, Contractor	Before and during construction
4.19 Revegetation of disturbed soil shall occur promptly after disturbance, using native Sonoma County species wherever feasible.	Ensure revegetation has occurred. Follow SWPPP monitoring protocols	Sonoma RCD and landowner	After construction
4.20 Provide landowner with an Operations Guide outlining measures to protect biological resources in the operations of the off-stream irrigation pond.	Dewatering infrastructure to be reviewed by Project Engineer prior to pumping	Sonoma RCD, Project Engineer	Pre-construction

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 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
5. CULTURAL RESOURCES.			
5.1 If archaeological remains are uncovered, work at the place of discovery should be halted immediately until a qualified archaeologist can evaluate the finds (§15064.5 [f]). Prehistoric archaeological site indicators include: obsidian and chert flakes and chipped stone tools; grinding and mashing implements (e.g., slabs and handstones, and mortars and pestles); bedrock outcrops and boulders with mortar cups; and locally darkened midden soils. Midden soils may contain a combination of any of the previously listed items with the possible addition of bone and shell remains, and fire-affected stones. Historic period site indicators generally include: fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and feature remains such as building foundations and discrete trash deposits (e.g., wells, privy pits, dumps).	Cultural resources report detailing findings will be submitted to regulatory agencies by qualified archaeologist	Sonoma RCD, qualified archaeologist	Upon discovery of cultural resources during construction
5.2 If human remains are encountered, the following actions are promulgated in the CEQA Guidelines Section 15064.5(d) pertaining to the discovery of human remains: excavation or disturbance of the location must be halted in the vicinity of the find, and the county coroner contacted. If the coroner determines the remains are Native American, the coroner will contact the Native American Heritage Commission. The Native American Heritage Commission will identify the person or persons believed to be most likely descended from the deceased Native American. The most likely descendent makes recommendations regarding the treatment of the remains with appropriate dignity.	Cultural resources report detailing findings will be submitted to regulatory agencies by qualified archaeologist; consultations as specified	Sonoma RCD, qualified archaeologist	Upon discovery of cultural resources during construction
6. GEOLOGY AND SOILS.			

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CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
6.1 All engineering will be in accordance with the Geotechnical Study Report and reviewed and approved by RGH Consultants. All construction will be observed by RGH consultants and their recommendations will be implemented.	Ensure design and construction are in accordance with design and geotechnical engineer's recommendations	Sonoma RCD, Geotechnical Engineer	During final design phase, and during construction
6.2 Concentrated surface water run-off could cause soil erosion and loss of topsoil. This will be mitigated by diverting surface water around the toe of the embankment, armoring the overflow channel, and installing energy dissipators where necessary.	Ensure design and construction are in accordance with design and geotechnical engineer's recommendations	Sonoma RCD, Project Engineer, Geotechnical Engineer	During final design phase, and during construction
6.3 Water flowing on the surface of soil may become concentrated resulting in soil erosion and loss of topsoil. This will be mitigated by installing erosion control blanket and straw fiber rolls on the embankment slopes. Compost or wood chips will be placed on all other disturbed areas to protect soil from erosion. Native grasses will be established on the embankment and surrounding area to ensure long term surface soil stability.	Ensure design and construction are in accordance with design and geotechnical engineer's recommendations	Sonoma RCD, Project Engineer, Geotechnical Engineer	During construction, and until Notice of Termination (NOT) has been filed.
6.4 Temporary and permanent erosion and sedimentations controls will be specified in the Storm Water Pollution Prevention Plan (SWPPP). Contractor will implement all controls.	Ensure all erosion and sedimentation control measures are in control	Sonoma RCD, Contractor	During and after construction
8. HAZARDS.			

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 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
<p>8.1 Construction crews will follow the SWPPP, the LSAA 1602 permit, and the project plans and specifications to minimize risk of spills or leaks and allow for rapid and complete clean-up of any spilled material. Small amounts of hazardous materials would be used during construction activities (i.e., fuel and oil for equipment maintenance). Hazardous materials would only be used during construction of the Project, and any hazardous material uses would be required to comply with all applicable local, state, and federal standards associated with the handling and storage of hazardous materials. Use of hazardous materials in accordance with applicable standards ensures that any exposure of the public to hazard materials would have a less-than-significant impact.</p>	<p>Ensure contractor complies with SWPPP, plans and specifications, and all relevant permits</p>	<p>Sonoma RCD, Contractor</p>	<p>During Construction</p>
<p>8.2 The contractor must construct the Project in accordance with the County’s Grading regulations and implement Best Management Practices as identified in the SWPPP, the LSAA 1602 permit, the project plans and specifications.</p>	<p>Ensure contractor complies with SWPPP, plans and specifications, and all relevant permits</p>	<p>Sonoma RCD, Contractor</p>	<p>During Construction</p>
<p>9. HYDROLOGY AND WATER QUALITY.</p>			
<p>9.1 Pumps will be used before construction to hasten drawdown of groundwater to below the bottom of excavation. Intermittent pumping will likely be necessary during construction, in order to remove groundwater intrusion.</p>	<p>Ensure that measures are implemented during construction</p>	<p>Sonoma RCD, Contractor</p>	<p>Before and during construction</p>
<p>9.3 The project will be conducted in accordance with the SWPPP in order to prevent the discharge of pollution, trash, litter, etc. from the site. Erosion control measures shall be utilized throughout all phases of operation where sediment runoff from exposed slopes threatens to enter jurisdictional waters. At no time shall silt laden runoff be allowed to enter the stream or directed to where it may enter the stream. Silt control structures shall be monitored for effectiveness and shall be repaired or replaced as needed</p>	<p>Ensure that measures are implemented during construction</p>	<p>Sonoma RCD, Contractor, qualified biologist</p>	<p>During and after construction</p>

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CEQA Mitigation Monitoring and Reporting Plan
 Grape Creek Streamflow Enhancement and Off-Channel Irrigation Plan
 Sonoma Resource Conservation District
 April 2015

Mitigation Measure	Monitoring Action	Responsibility	Timeframe
12. NOISE.			
12.1 During grading and construction, delivery of materials and equipment, outdoor operations of equipment, and construction activity shall be limited to the hours between 8:00 a.m. and 6:00 p.m.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
12.2 All construction equipment, stationary or mobile, shall be equipped with properly operating and maintained mufflers.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
12.3 All construction equipment shall be stored on the project site during the construction phase to eliminate daily heavy-duty truck trips on vicinity roadways	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
12.4 Personnel shall wear hearing protection while operating or working near noisy equipment (producing noise levels ≥ 85 db, including chain saws, excavators, and back hoes).	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
16. TRANSPORTATION/CIRCULATION.			
16.1. Equipment operators will be instructed to drive slowly to avoid safety issues.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction
16.2 Heavy equipment will remain on site during construction to minimize trips.	Ensure that measures are implemented during construction	Sonoma RCD, Contractor	During construction

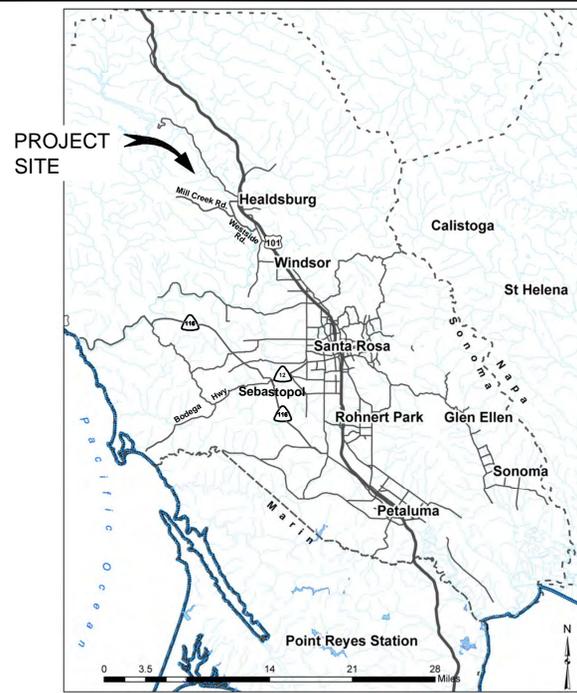
WEED FARMS OFF-CHANNEL IRRIGATION POND

APN 090-110-014

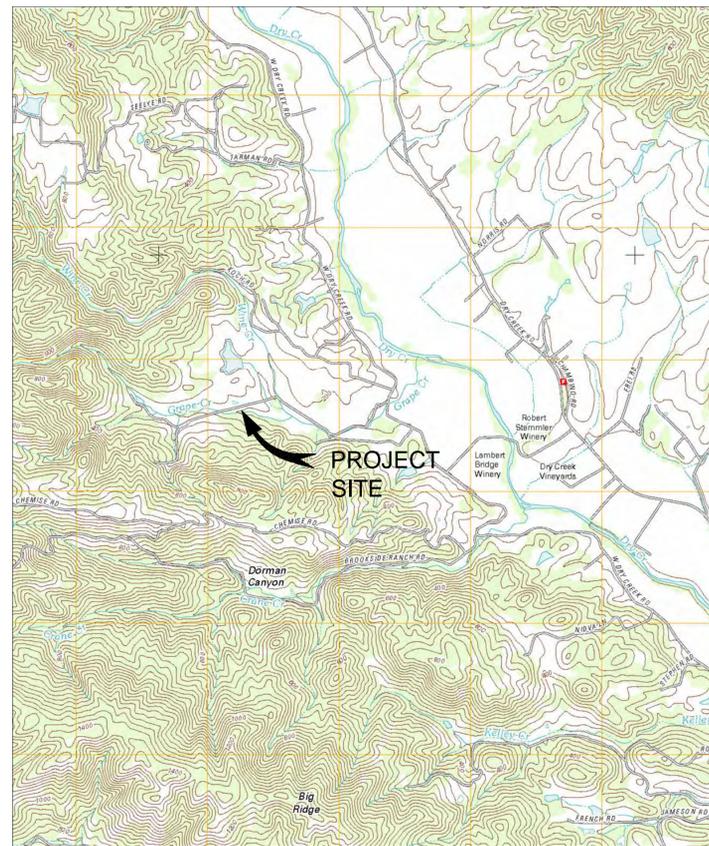
PREPARED FOR:
SONOMA RESOURCE CONSERVATION DISTRICT

BASIS OF DESIGN

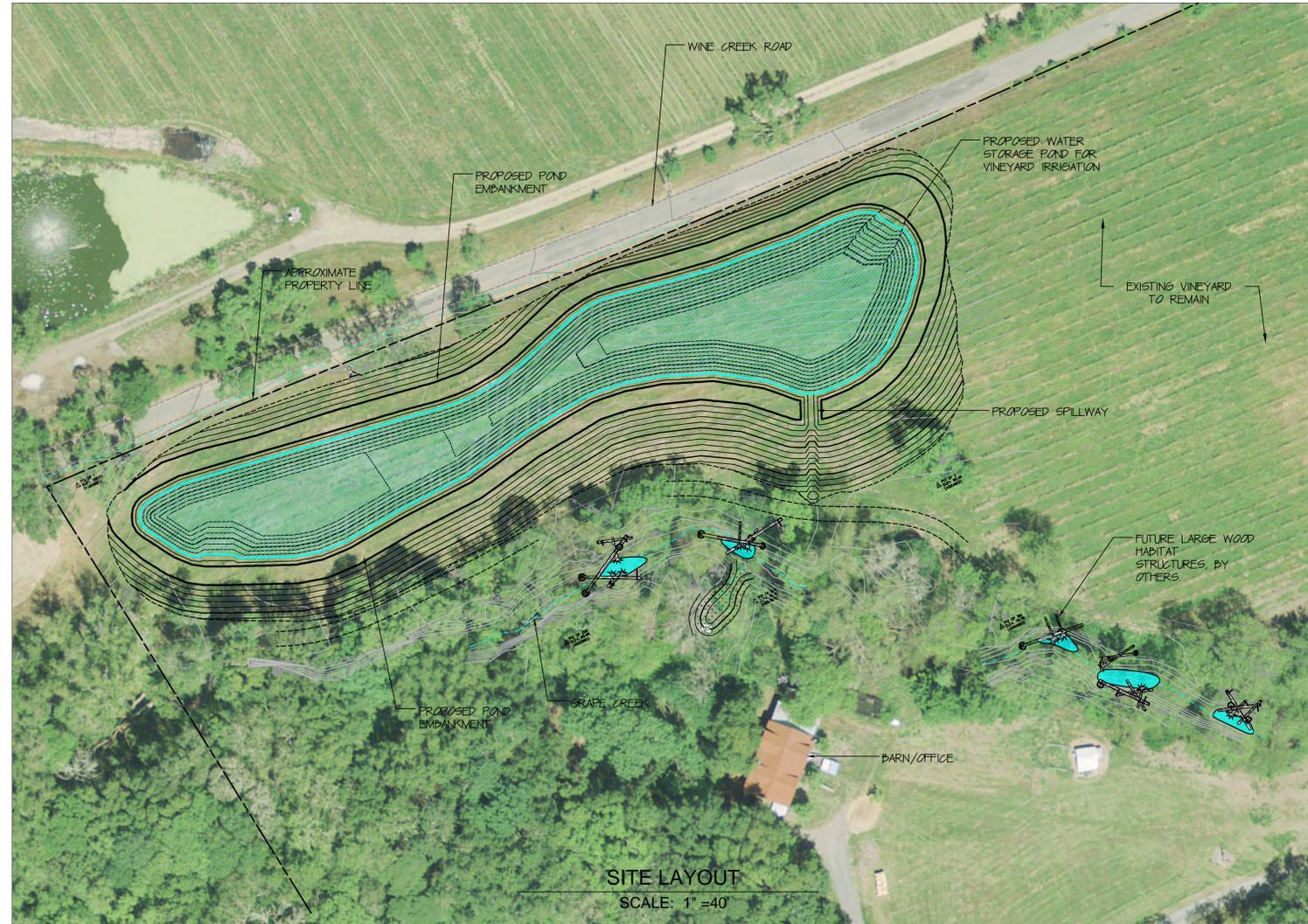
Off-channel pond to replace summer irrigation extractions from near-channel wells. Pond sized to irrigate 4.5 acres of vineyard per analysis by CEMAR. Total pond volume: Approx. 880,000 gallons. Net irrigation volume: Approx. 630,000 gallons



VICINITY MAP
SCALE: AS SHOWN



LOCATION MAP
SCALE: USGS 1" = 1000'



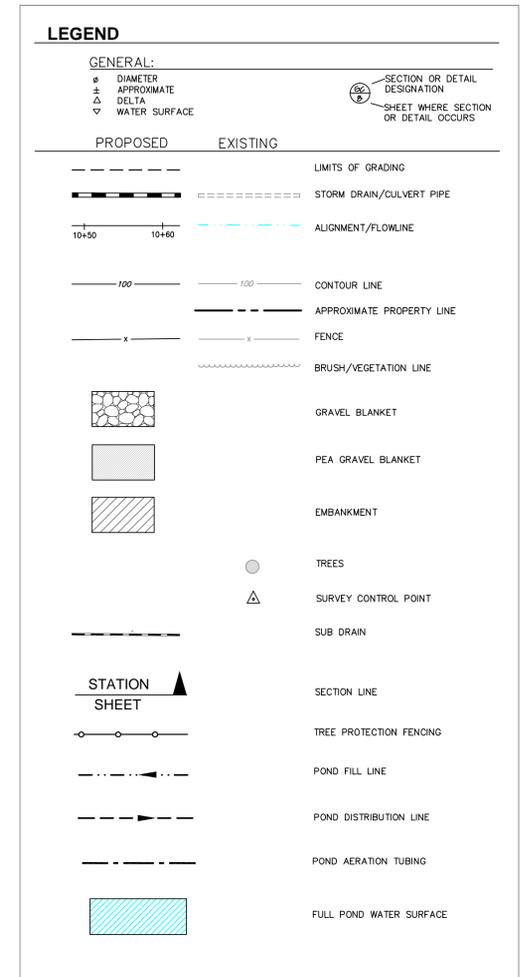
SITE LAYOUT
SCALE: 1" = 40'

PROPERTY LINES ARE DERIVED FROM SONOMA COUNTY GIS PARCEL DATASETS AND ARE APPROXIMATE ONLY.

SHEET INDEX

SHEET NO.	TITLE
1	TITLE SHEET
2	SITE PLAN
3	GRADING PLAN
4	PROFILES
5	CONSTRUCTION DETAILS
6	REVEGETATION PLAN

TOPOGRAPHIC SURVEY PERFORMED BY PRUNUSKE CHATHAM, INC., OCTOBER 3, 2013. HORIZONTAL AND VERTICAL DATUMS ARE ASSUMED.
▲ SURVEY CONTROL AS DESCRIBED AND SHOWN



PROJECT ADDRESS:
4250 WINE CREEK ROAD HEALDSBURG, CA

PRUNUSKE CHATHAM, INC.
400 MORRIS STREET, SUITE G
SEBASTOPOL, CA 95472
(707) 824-4600



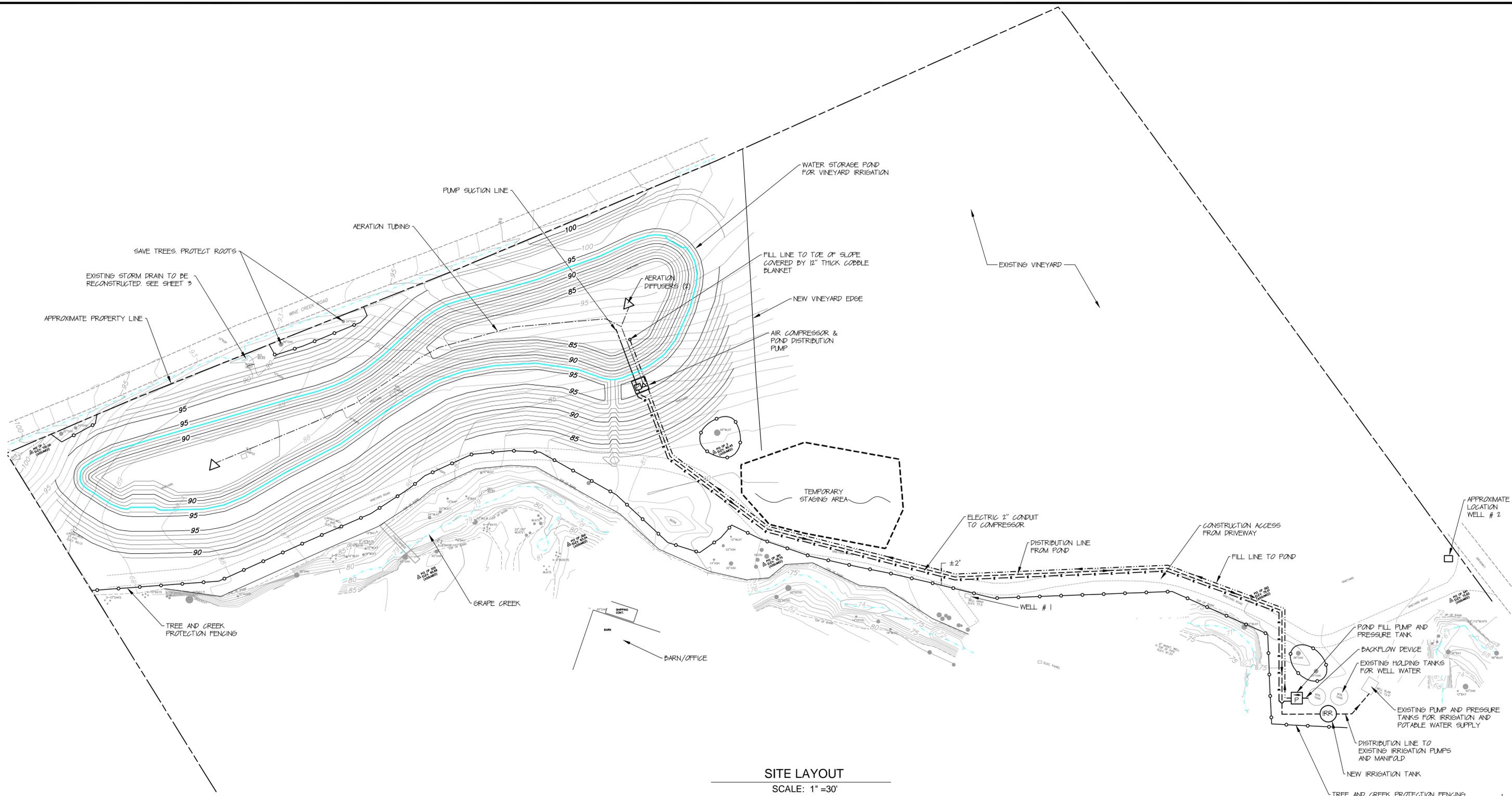
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MAPPING BY:	JP			
DESIGNED BY:	MMJ/LW			
DRAFTED BY:	LW, MMJ			
CHECKED BY:	MJ			

PREPARED FOR:
Sonoma Resource Conservation District
P.O. Box 11526
Santa Rosa, CA 95406

**WEED FARMS
OFF-CHANNEL IRRIGATION POND
TITLE SHEET**

VERIFY SCALES
ONE INCH

SHEET
1
OF 6



SITE LAYOUT
SCALE: 1" = 30'

PRUNUSKE CHATHAM, INC.
400 MORRIS STREET, SUITE G
SEBASTOPOL, CA 95472
(707) 824-4600



DATE:	6/1/14	REVISIONS	DATE	BY
SCALE:	1" = 30'	65% SUBMITTAL NOT FOR CONSTRUCTION		
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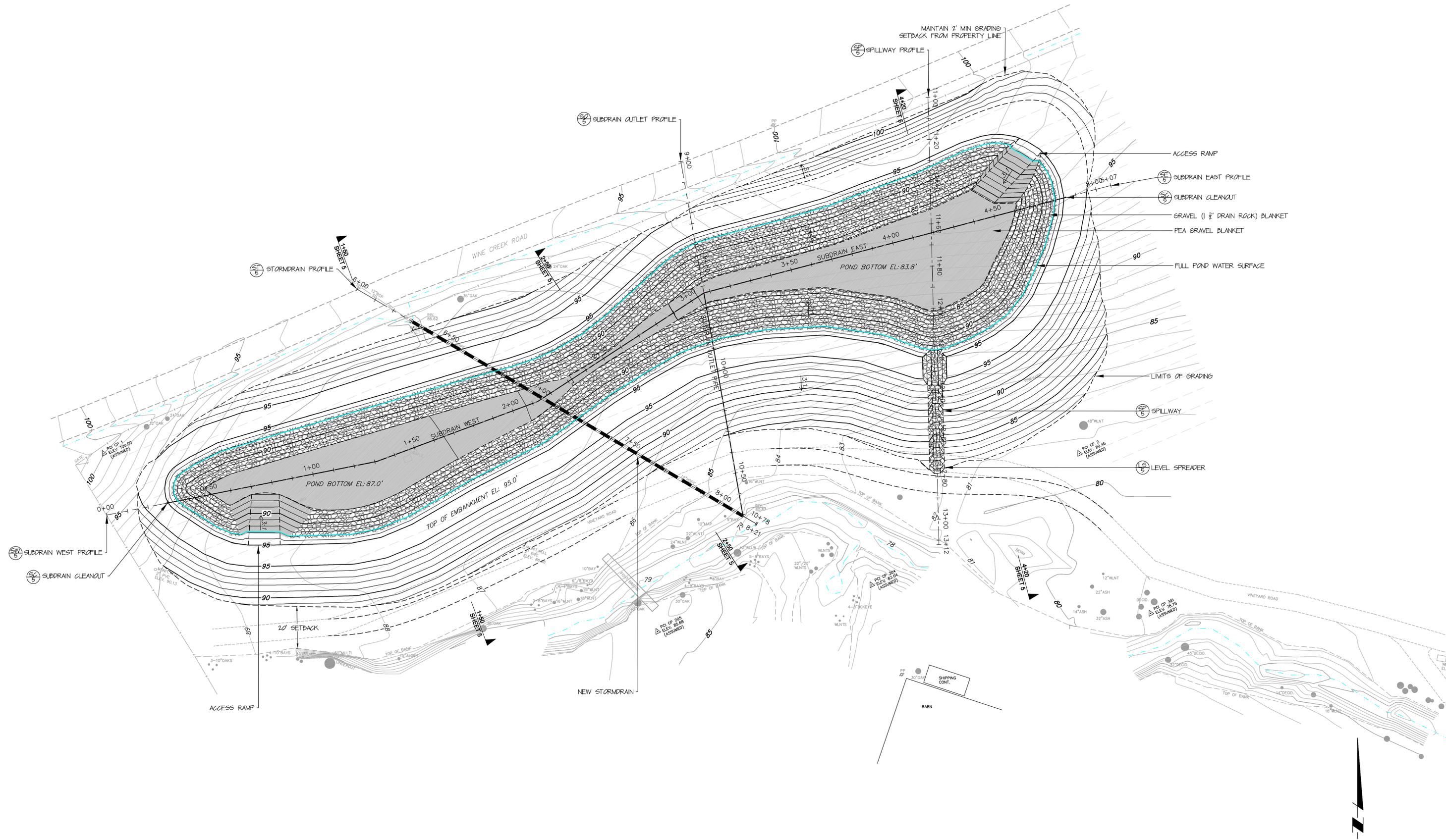
PREPARED FOR:
Sonoma Resource Conservation District
P.O. Box 11526
Santa Rosa, CA 95406

WEED FARMS
OFF-CHANNEL IRRIGATION POND
SITE PLAN

VERIFY SCALES
ONE INCH

SHEET
2
OF 6

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PRUNUSKE CHATHAM, INC.
 400 MORRIS STREET, SUITE G
 SEBASTOPOL, CA 95472
 (707) 824-4600



DATE:	6/1/14
SCALE:	1" = 20'
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CHECKED BY:	MJ

REVISIONS DATE BY

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NOT FOR CONSTRUCTION

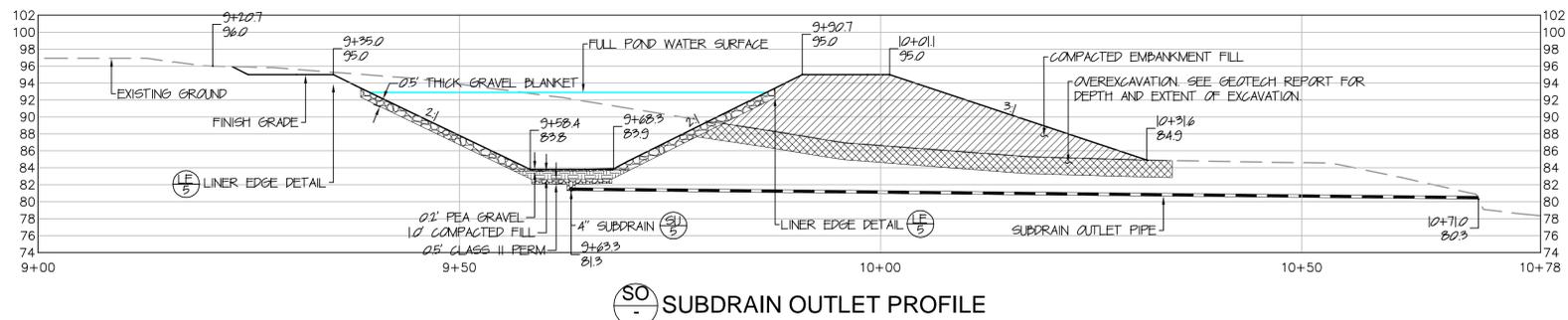
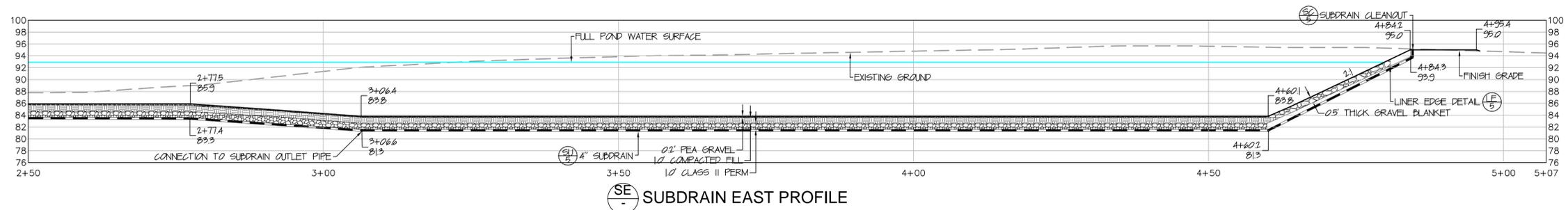
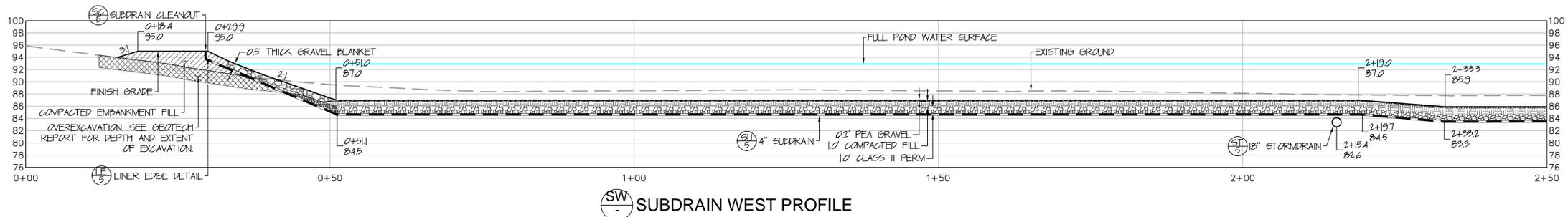
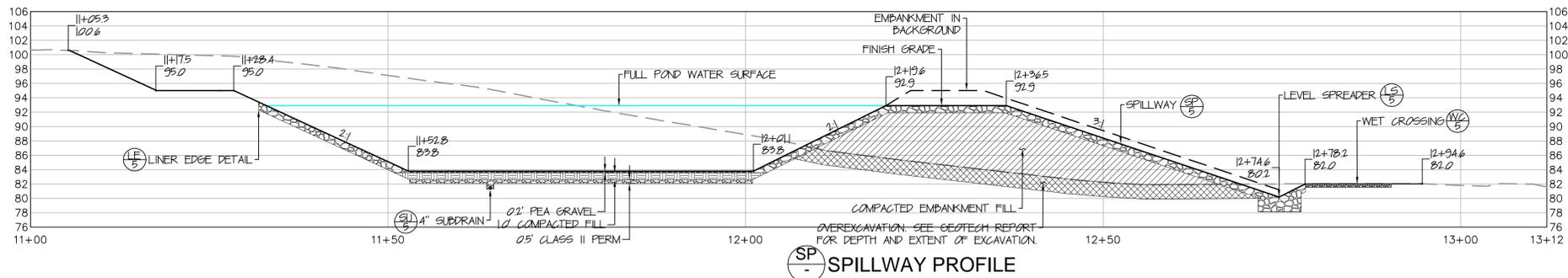
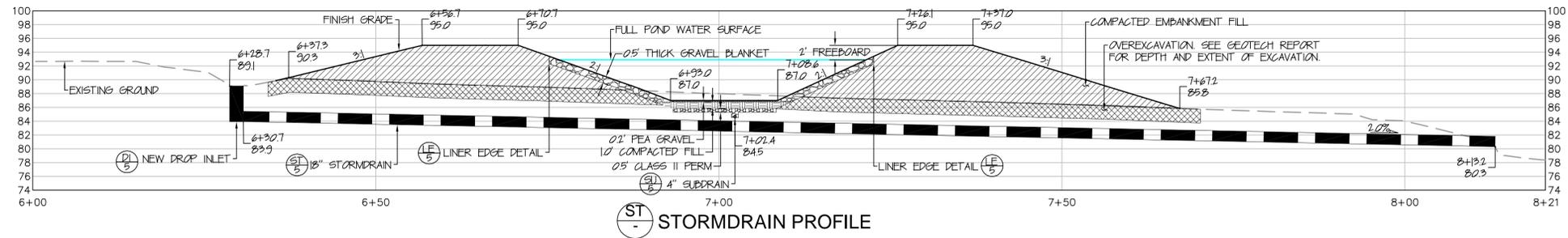
PREPARED FOR:
Sonoma Resource Conservation District
 P.O. Box 11526
 Santa Rosa, CA 95406

WEED FARMS
OFF-CHANNEL IRRIGATION POND
GRADING PLAN

VERIFY SCALES
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SHEET
3
 OF 6

Acad File Name: G:\Acad Dwg\CV3D\SRD weed farm\F04D-grading plan.dwg Plot date: 6/5/2014 11:42 AM Layout: GRADING PLAN



VERIFY SCALES
ONE INCH

PRUNUSKE CHATHAM, INC.
400 MORRIS STREET, SUITE G
SEBASTOPOL, CA 95472
(707) 824-4600

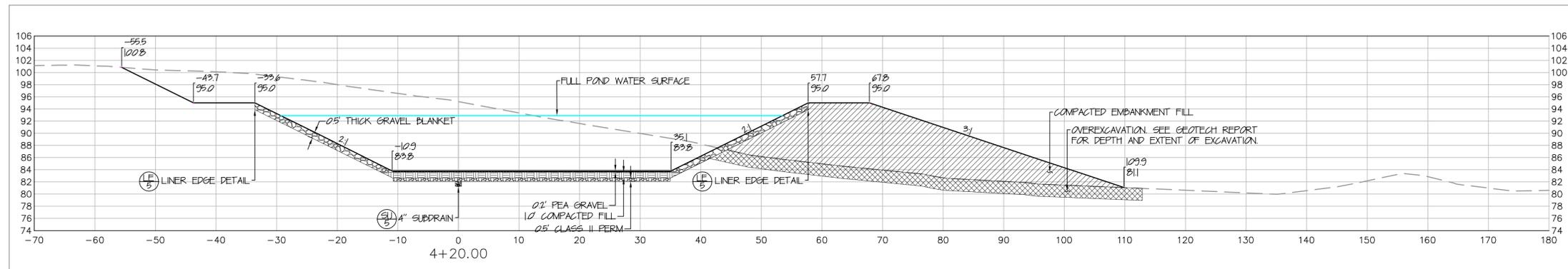
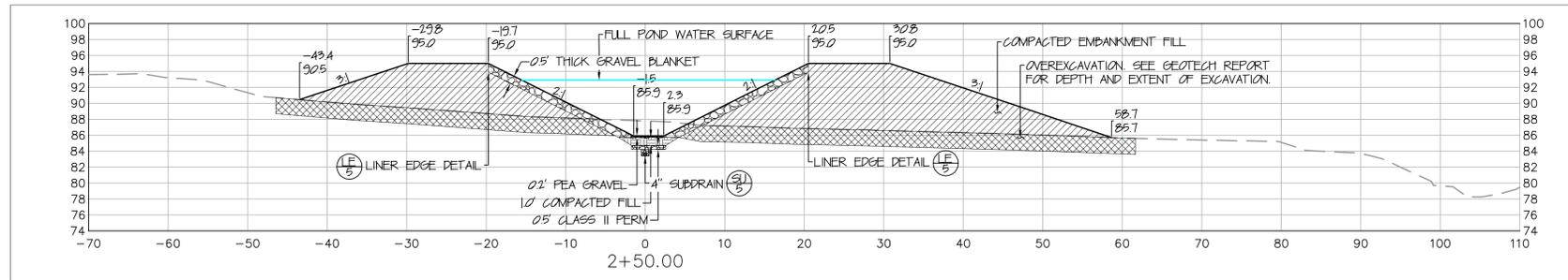
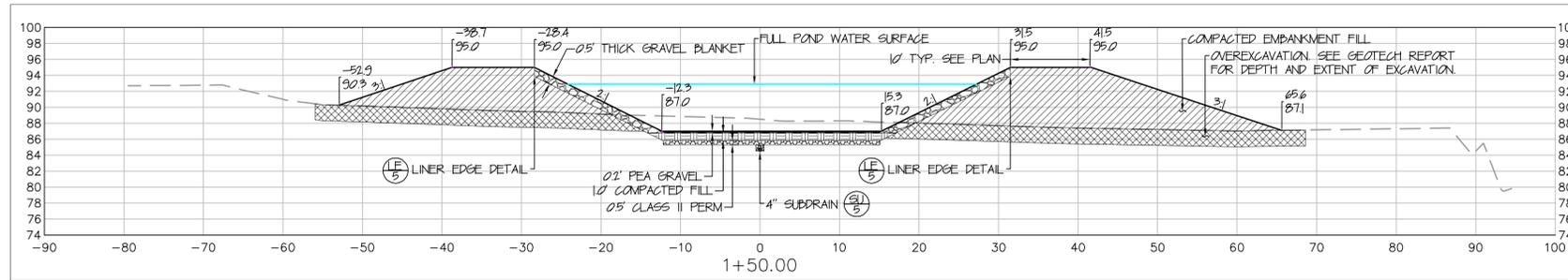


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CHECKED BY:	MJ			

PREPARED FOR:
Sonoma Resource Conservation District
P.O. Box 11526
Santa Rosa, CA 95406

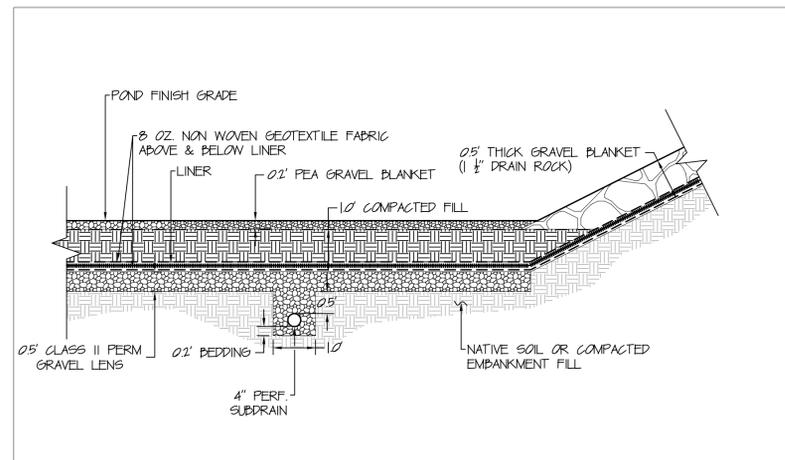
**WEED FARMS
OFF-CHANNEL IRRIGATION POND
PROFILES**

SHEET
4
OF 6

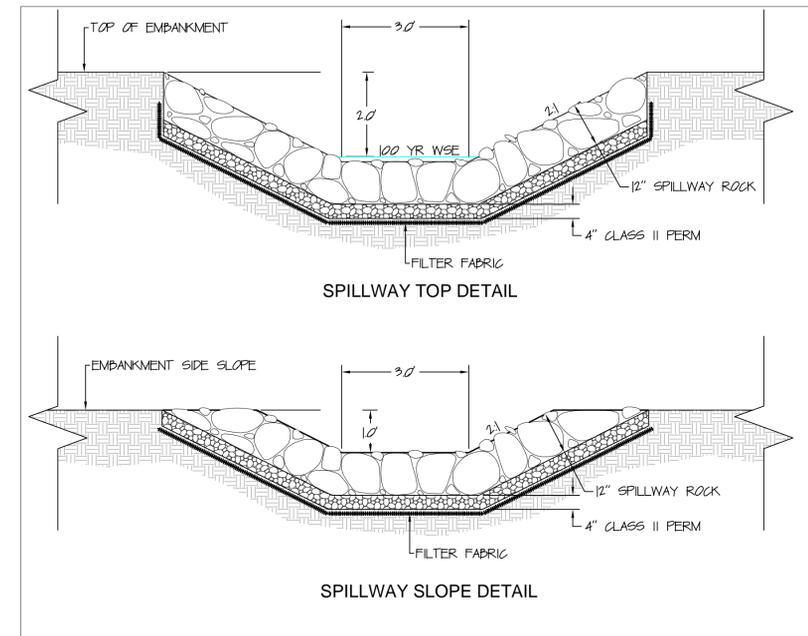


ADDITIONAL DETAILS TO BE INCLUDED IN 95% SUBMITTAL

- LINER EDGE TREATMENT DETAILS
- DROP INLET DETAIL
- STORMDRAIN DETAIL
- CULVERT DETAIL
- GAS VENT DETAIL
- SUBDRAIN CLEANOUT DETAIL
- LEVEL SPREADER DETAIL



SUBDRAIN DETAIL
SCALE: 1"=2'



SPILLWAY DETAIL
SCALE: 1"=2'

PRUNUSKE CHATHAM, INC.
400 MORRIS STREET, SUITE G
SEBASTOPOL, CA 95472
(707) 824-4600



DATE:	6/1/14	REVISIONS	DATE	BY
SCALE:	AS SHOWN	65% SUBMITTAL NOT FOR CONSTRUCTION		
MAPPING BY:	JJP			
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DRAFTED BY:	LW, MMJ			
CHECKED BY:	MJ			

PREPARED FOR:
Sonoma Resource Conservation District
P.O. Box 11526
Santa Rosa, CA 95406

WEED FARMS
OFF-CHANNEL IRRIGATION POND
CROSS SECTIONS & DETAILS

VERIFY SCALES
ONE INCH

SHEET
5
OF 6