

# **Proposed Initial Study/Mitigated Negative Declaration for the Dennis Lane Storm Drain Project**



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2008.

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## **1. Project Description**

### **1.1. Project Overview**

The Dennis Lane Storm Drain Project is a drainage improvement project located on Dennis Lane east of its intersection with Elwin Lane.

### **1.2. Project Location**

The project area includes Dennis Lane from the Elwin Lane intersection extending approximately 250' east.

### **1.3. Project Need**

This project will result in alleviating the potential for serious local flood and storm damage to existing residential structures on Dennis Lane which has occurred during heavy rain events.

### **1.4. Existing Conditions**

Existing conditions within the project area include a 25' wide asphalt street section, isolated roadside ditches and lack of sidewalk, curb, or gutter. Land uses surrounding the Dennis Lane project include primarily residential development.

### **1.5. Project Characteristics**

The existing storm drain system which exists at the Dennis Lane/Elwin Lane intersection will be extended approximately 250' east and a storm drain inlet basin installed in the northerly roadside ditch to provide positive drainage for offsite flows. Offhauled AC and base will be recycled. No site dewatering is anticipated. Conventional grading and paving equipment will be utilized to construct the improvements. This project will alleviate the potential for serious local flood and storm damage to existing residential structures on Dennis Lane and will thereby improve the passage of vehicles and pedestrians during heavy rain events.

Mitigation for impacts to wetland and special-status species habitat within the roadside ditch will be provided through purchase of mitigation credits at an approved mitigation bank.

### **1.6. Project Funding**

The City of Santa Rosa has an agreement for project funding through the Sonoma County Water Agency's Laguna-Mark West Watershed Zone 1A fund.

### **1.7. Timeline for Implementation**

Project construction is imperative for Fall of 2008 as the Zone 1A funding agreement requires award of the project contract on or before September 30, 2008.

### **1.8. Other Projects Proposed or Reasonably Foreseeable in the Project Vicinity**

The project area consists of an existing developed neighborhood at the northern edge of Santa Rosa city limits. Seven projects are proposed in the immediate vicinity :

1. Liner Village (16 lots) – 2055 and 2063 Dennis Lane and 3804 Elwin Lane – Approved (TM, Rezone, Small Lot CUP)
2. Auberge du Soleil (8 lots) – 2129 Dennis Lane – Approved (TM, Rezone, Small Lot CUP)
3. Auberge du Soleil No. 2 (8 lots) – 2113 Dennis Lane – Schedule for June 12<sup>th</sup> PC meeting (TM, Rezone, Small Lot CUP)
4. Miller Village (8 lots) – 2121 Dennis Lane – Approved by PC, Scheduled for June 17<sup>th</sup> CC (TM, Rezone, Small Lot CUP)
5. Weller Village (8 lots) – 2137 Dennis Lane – Approved by PC, Scheduled for July 8<sup>th</sup> CC (TM, Rezone, Small Lot CUP)
6. Harry's Village (8 lots) – 2056 Dennis Lane – Pending; in "issues letter" stage (TM, Rezone, Small Lot CUP)
7. Labaree Subdivision (8 lots) – 2153 Dennis Lane – Pending/Frozen; in "issues letter" stage (TM, Rezone, Small Lot CUP)

## 2. Environmental Checklist

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1. **Project title:**  
Dennis Lane Storm Drain Project
  
2. **Lead agency name and address:**  
City of Santa Rosa  
Public Works Department  
69 Stony Circle  
Santa Rosa, CA 95401
  
3. **Contact person and phone number:**  
Rita Miller  
Associate Engineer  
(707) 543-3879
  
4. **Project location:**  
The project area includes Dennis Lane from the Elwin Lane intersection extending approximately 250' east.
  
5. **Project sponsor's name and address:**  
  
City of Santa Rosa  
Public Works Department  
69 Stony Circle  
Santa Rosa, CA 95401
  
6. **General plan designation:** The project site is identified as a Transitional/Collector Street on the Santa Rosa General Plan Land Use Map. Land uses in the project vicinity are designated as Low Density Residential (2.0 - 8.0 units per acre) and Agriculture to the north.
  
7. **Zoning:** Parcels in the project vicinity are zoned Single Family Residential (R-1-6) and Rural Residential, very low density (RR-20).
  
8. **Description of project:** (Describe the whole action involved, including but not limited to later phases of the project, and any secondary, support, or off-site features necessary for its implementation. Attach additional sheets if necessary.)

The existing storm drain system which exists at the Dennis Lane/Elwin Lane intersection will be extended approximately 250' east and a storm drain inlet basin installed in the northerly roadside ditch to provide positive drainage for offsite flows. Offhauled AC and base will be recycled. No site dewatering is anticipated. Conventional grading and paving equipment will be utilized to construct the improvements. This project will alleviate the potential for serious

local flood and storm damage to existing residential structures on Dennis Lane and will thereby improve the passage of vehicles and pedestrians during heavy rain events.

Mitigation for impacts to wetland and special-status species habitat within the roadside ditch will be provided through purchase of mitigation credits at an approved mitigation bank.

9. **Surrounding land uses and setting:** Land uses surrounding the Dennis Lane Storm Drain Project include primarily residential development. A vineyard is located to the north of the project site.
10. **Other public agencies whose approval is required (e.g., permits, financing approval, or participation agreement.):** A Section 401 Water Certification application has been submitted to the Regional Water Quality Control Board (RWQCB); and a Nationwide Permit No. 18 application has been submitted to the U.S. Army Corps of Engineers (ACOE). The project is in an area designated as “Future Development” within the Santa Rosa Plain Conservation Strategy.<sup>i</sup> and “May adversely affect listed plants and would likely adversely affect California tiger salamander” within the U.S. Fish and Wildlife 2007 Programmatic Biological Opinion.<sup>ii</sup>

**ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:**

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Aesthetics                    | <input type="checkbox"/> Agriculture Resources              | <input type="checkbox"/> Air Quality            |
| <input type="checkbox"/> Biological Resources          | <input type="checkbox"/> Cultural Resources                 | <input type="checkbox"/> Geology /Soils         |
| <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Hydrology / Water Quality          | <input type="checkbox"/> Land Use / Planning    |
| <input type="checkbox"/> Mineral Resources             | <input type="checkbox"/> Noise                              | <input type="checkbox"/> Population / Housing   |
| <input type="checkbox"/> Public Services               | <input type="checkbox"/> Recreation                         | <input type="checkbox"/> Transportation/Traffic |
| <input type="checkbox"/> Utilities / Service Systems   | <input type="checkbox"/> Mandatory Findings of Significance |   |

NONE

**DETERMINATION**

On the basis of this initial evaluation:

I find 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 revisions in the project have been made by or agreed to by the project proponent. A 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 "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Prepared By:

*Sheri J. Emerson*      6/9/08

Sheri J. Emerson  
Senior Environmental Specialist  
Santa Rosa Public Works Department

Date

Reviewed By:

*Rita Miller*      6/9/08

Rita Miller  
Associate Engineer  
Santa Rosa Public Works Department

Date

I concur with the findings and conclusions above.

*Gillian Hayes*      6/9/08

Gillian Hayes  
Environmental Coordinator  
Community Development Department  
City of Santa Rosa

Date

## CEQA GUIDANCE

### EVALUATION OF ENVIRONMENTAL IMPACTS:

- 1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from Section XVII, "Earlier Analyses," may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
  - a) Earlier Analysis Used. Identify and state where they are available for review.
  - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
  - c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures that were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where

appropriate, include a reference to the page or pages where the statement is substantiated.

- 7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9) The explanation of each issue should identify:
  - a) the significance criteria or threshold, if any, used to evaluate each question;  
and
  - b) the mitigation measure identified, if any, to reduce the impact to less than significance.

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
<b>1. AESTHETICS.</b> Would the project:				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Create a new source of substantial light or glare that would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Discussion:**

Over the short-term, the Dennis Lane Storm Drain project would result in some visual impact as a result of project staging and use of equipment. However, the completed project would not be expected to detract from the existing streetscape (**No impact**).

**Mitigation Measures:**

None required.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**2. AGRICULTURAL RESOURCES.** In determining whether impacts to agricultural resources are significant environmental impacts, 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 on agriculture and farmland. Would the project:

- |   |                          |                          |                          |                                     |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping & Monitoring Program of the California Resources Agency, to non-agricultural uses? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland to non-agricultural use?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Discussion:**

The site is categorized as “Urban Development 1984 to 2004” on the Bay Area Region Important Farmland Map (2007).<sup>v</sup> This category of land is occupied by structures and has a building density of at least one unit per one and one-half acres. There are no lands under Williamson Act contracts in the project vicinity (agricultural preserve lands subject to enforceable restrictions).<sup>vi</sup> The project would not conflict with existing zoning for agricultural use nor result in the conversion of prime agricultural land to other uses (**No Impact**).

**Mitigation Measures:**

None required.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**3. AIR QUALITY.** 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. Would the project:

- |  |                          |                          |                                     |                                     |
|--|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a) Conflict with or obstruct implementation of the applicable air quality plan?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c) Expose sensitive receptors to substantial pollutant concentrations?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| d) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| e) Create objectionable odors affecting a substantial number of people?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Discussion:**

The project is located within the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). Fine particulate matter (PM<sub>10</sub>) is the pollutant of greatest concern with construction activities. PM<sub>10</sub> emissions can result from a variety of construction activities including excavation, grading, vehicle travel on paved and unpaved surfaces, and vehicle and equipment exhaust.<sup>vii</sup>

**a) Generation of Dust**

Construction activities including any additional grading that may be required for the site would result in an increase in dust and some vehicle and equipment emissions during the construction period. Residences are located in the project area. They would be considered the most sensitive land uses (sensitive receptors) in the project area. While impacts during the construction period are not potentially significant, the following mitigation measures are recommended to further reduce dust and emission-related impacts (**Less-than-significant impact; mitigation measures are recommended as conditions of project approval to further reduce the level of impact (LS/M)**).

### **Mitigation Measures:**

- 3-1 During earth disturbing activities, the contractor shall be responsible for spraying exposed soil surfaces with water or another approved dust inhibitor. The contractor shall be responsible for cleaning streets and driveways of fugitive soils in the immediate vicinity of construction work, as necessary.
- 3-2 The contractor shall be responsible for ensuring that all construction equipment and vehicles are maintained in good operating order and that all factory installed emission control devices are installed and functioning properly. All vehicles and construction equipment shall be turned off when not in use to minimize emissions.
- 3-3 Feasible Control Measures for Construction Emissions of PM<sub>10</sub> would also include:
  - (a) Water all active construction areas daily, as required to minimize mobilization of dust.
  - (b) Apply water daily, as required to minimize mobilization of dust, or apply soil stabilizers on all unpaved access roads and staging areas.
  - (c) Sweep daily (with water sweepers) all paved access roads.
  - (d) Enclose, cover, water twice daily or apply (non-toxic) soil binders to exposed stockpiles (dirt, sand, etc.)
  - (e) Replant vegetation in disturbed areas as quickly as possible.
  - (f) Limit the area subject to construction activity at any one time, as applicable to the project.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**4. BIOLOGICAL RESOURCES.** Would the project:

- |   |                          |                                     |                          |                                     |
|---|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 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 DFG or USFWS?                        | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 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 DFG or USFWS?  | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| c) Have a substantial adverse effect on federally-protected wetlands as defined by Section 404 of the federal Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption or other means? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory corridors, or impede the use of native wildlife nursery sites?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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?  | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Discussion:**

**BIOLOGICAL SETTING**

The project area includes an existing street and adjacent roadside ditch. The ditch functions as part of the City's storm drain system, accepting storm water runoff from the

street and adjacent properties. The ditch was assessed by Public Works Senior Environmental Specialist Sheri Emerson for characteristics indicating wetland habitat, and for potential to support protected plant and animal species.

### Wetlands and Waters of the U.S.

The roadside ditch was evaluated per the U.S. Army Corps of Engineers 1987 Wetland Delineation Manual, and the 2007 Arid West Supplement to the Manual. The entire area of the roadside ditch located within the project area, approximately 0.005 acre, met the criteria for a seasonal wetland (Appendix A). Soils found within the ditch included Clear Lake Clay, ponded, 0 to 2% slopes, and Huichica Loam, ponded, 0 to 5% slopes. Both soils are considered to be hydric.<sup>viii</sup> Sampled soils were dark in color with low chroma, mottling, and clay texture. Areas of discoloration indicating reducing conditions were observed. Surface runoff from the roadway and surrounding properties collects in the ditch, and is conveyed to the east and west along Dennis Lane. On February 7, 2008, the ditch was inundated at the sample point. Evidence of ponding conditions included presence of a biotic crust, sediment deposits, and surface soil cracks. Vascular plant species observed at sample points included California semaphore grass (*Pleuropogon californicum*, an obligate wetland species), annual ryegrass (*Lolium multiflorum*), ox-tongue (*Picris echinioides*), Mediterranean barley (*Hordeum hystrix*), and nut sedge (*Cyperus rotundus*). Over 50% of the dominant vegetation cover at each sample point was hydrophytic.

The ditch does not appear to have been part of pre-existing streams or wetlands, but was likely created for road drainage. The ditch is part of the storm drain system in the area, but is not directly adjacent to the closest navigable waterway, Coffey Creek. A preliminary wetland delineation has been submitted to the U.S. Army Corps of Engineers for verification; it is assumed that since the ditch meets the wetland criteria, the Corps would take jurisdiction over the roadside ditch within the project area.

### Protected Species

The project is in an area designated as “Future Development” within the Santa Rosa Plain Conservation Strategy.<sup>ix</sup> and “May adversely affect listed plants and would likely adversely affect California tiger salamander” within the U.S. Fish and Wildlife 2007 Programmatic Biological Opinion.<sup>x</sup>

Any impact to the roadside ditch would also be considered an impact to habitat for the California tiger salamander habitat. Proposed mitigation is consistent with the 2007 Biological Opinion, which requires mitigation at a ratio of 0.2 acres mitigation to 1 acre of impact.

Public Works Senior Environmental Specialist Sheri Emerson conducted plant surveys at the site on during the flowering season for Sonoma sunshine (*Blennosperma bakeri*), Sebastopol meadowfoam (*Limnanthes vinculans*), and Burke’s goldfields (*Lasthenia burkei*), respectively, all state and federally-listed as Endangered. Surveys were conducted on April 10, April 15, and April 28. No rare plant species were found within the project area.

The project would result in the filling of 0.005 acre of jurisdictional ditch. Since this would be considered a potentially significant impact, mitigation is identified below as a

condition of project approval to reduce this impact to less than significant level.  
**(Potentially significant impact; mitigation measures required to reduce impact to less-than-significant level (PS/M)).**

**Mitigation Measures:**

- 4-1 Areas of jurisdictional ditches impacted by the project would be mitigated at an off-site location on a 2:1 basis (equivalent to 1 acre restoration plus 1 acre creation for every 1 acre of wetland impact). Mitigation credits will be purchased at an approved mitigation bank.
- 4-2 Impacts to California tiger salamander habitat will be mitigated at an off-site location on a 0.2:1 basis, per the 2007 Programmatic Biological Opinion. Mitigation credits will be purchased at an approved mitigation bank.
- 4-3 Impacts to Santa Rosa Plain federally-endangered plant habitat will be mitigated at an off-site location on a 1.5:1 basis (equivalent to 1 acre occupied or established habitat and 0.5 acre established habitat, both with success criteria met prior to groundbreaking at the project site), per the 2007 Programmatic Biological Opinion. Mitigation credits will be purchased at an approved mitigation bank.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
--------------------------------	--	-----------------------	-----------

**5. CULTURAL RESOURCES.** Would the project:

- |   |                          |                          |                          |                                     |
|---|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Cause a substantial adverse change in the significance of a historical resource as defined in §15064.5?      | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Cause a substantial adverse change in the significance of an archaeological resource as defined in §15064.5? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Disturb any human remains, including those interred outside of formal cemeteries?                            | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Discussion:**

The project area along Dennis Lane is almost entirely paved, with some areas of open ditches. The project area was reviewed by staff of the California Historical Resources Information System. It was determined that there is a low possibility of identifying native American and historic-period sites and further study is not recommended at this time (Appendix B). It was noted that the 1954 USGS quadrangle map showed nine historic-period buildings in the project vicinity, and assessment by an architectural historian was recommended for any remaining buildings. However, no buildings are currently located within the project area.

While the likelihood of encountering cultural resources is extremely remote, the following mitigation measures have been added to further reduce the possibility of impact. While the project does not have the potential to result in potentially significant impacts to cultural resources, the following mitigation measures are recommended as a condition of project approval to further reduce the level of impact (**Less-than-significant impact; mitigation recommended as a condition of project approval to further reduce the level of impact (LS/M)**).

**Mitigation Measures:**

- 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. Prehistoric archaeological 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 fire-affected stones. Historic period site indicators generally include: fragments of glass, ceramic, and metal objects; milled and split lumber;

and structure and features remains such as building foundations, and discrete trash deposits (e.g., wells, privy pits, dumps).

- 5-2 If human remains are encountered, 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.

	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
<b>6. GEOLOGY and SOILS.</b> Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
i) Rupture of a known earthquake fault, as delineated in 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? Refer to Division of Mines & Geology Special Publication 42.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on expansive soils, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternate wastewater disposal systems where sewers are not available for the disposal of wastewater?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Discussion:

### ***Seismicity***

The project is located in the vicinity of a potentially active fault (with displacement within the last 700,000 years).<sup>1</sup> The wider region is also considered seismically active (Seismic Zone 4) and strong ground shaking can be expected during the life of the facility. The closest known active faults are the Healdsburg-Rodgers Creek Fault Zone, located about 2 miles to the east, and the San Andreas Fault located about 19 miles to the southwest. These faults are considered capable of generating earthquakes with magnitudes of 7.0 and 7.9 respectively.

The project would be constructed in accordance with the standards set forth in the Uniform Building Code for Seismic Zone 4, as described under mitigation below.

### ***Soils/Erosion***

The soil types found within the project area is Clear Lake Clay, ponded, 0 to 2% slopes, and Huichica Loam, ponded, 0 to 5% slopes. The Clear Lake Clay series is considered hydric, and is found on the basin floor. Huichica Loam is also considered a hydric soil, found in depressions.<sup>xi</sup> These soil types are mainly in the large valleys and drainageways of Sonoma County.

Construction of the project and the backfilling of soil around the pipe installed in the former drainage ditch would have the potential to result in sedimentation. While this impact is not considered potentially significant, the following mitigation measures are recommended to further reduce the level of impact **(Less-than-significant impact; mitigation measures recommended as a condition of project approval to further reduce the level of impact (LS/M))**.

### **Mitigation Measures:**

- 6-1 At a minimum, all project improvements would meet the requirements of the California Uniform Building Code (CUBC) for Seismic Zone 4.
- 6-2 Project construction would utilize best management practices for handling of soil to ensure that loose sediment does not enter the storm-drain system, which leads to Coffey Creek.

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<sup>1</sup> Santa Rosa General Plan, Geologic and Seismic Hazards, Figure 12-2, p. 12-7.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**7. HAZARDS and HAZARDOUS MATERIALS.** Would the project:

- |  |                          |                          |                          |                                     |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within ¼ mile of an existing or proposed school?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code §65962.5 and, as a result, would it create a significant hazard to the public or to the environment?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or a public use airport, would the project result in a safety hazard for people residing or working in the project area? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| f) 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?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Discussion:**

***Hazards to the Public or to the Environment***

Public Works Engineering Technician Ken Hutchins contacted Joan Fleck of the North Coast Regional Water Quality Control Board for information on sites near the project area with known groundwater contamination. Joan Fleck indicated that there are no known sites in the project vicinity.<sup>xiii</sup>

***Emergency Response***

The project would not interfere with any emergency response plans. Some trucks and other equipment would be needed during the construction period, but they would not impede traffic flow or affect access in the project area. Signs would be posted alerting residents about the timings and the duration of the construction period. **(No Impact)**.

**Mitigation Measures:**

None required.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**8. HYDROLOGY & WATER QUALITY.** Would the project:

- |   |                          |                          |                                     |                                     |
|---|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a) Violate any water quality standards or waste discharge requirements?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 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)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c) Substantially alter the existing drainage pattern of the site, including through alteration of the course of a stream or river, or substantially increase the rate or volume of surface runoff in a manner that would:   |                          |                          |                                     |                                     |
| i) result in flooding on- or off-site   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| ii) create or contribute runoff water that would exceed the capacity of existing or planned storm water discharge   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| iii) provide substantial additional sources of polluted runoff  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| iv) result in substantial erosion or siltation on-or off-site?  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| d) Otherwise substantially degrade water quality?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| e) Place housing or other structures that would impede or re-direct flood flows within a 100-yr. flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

- f) Expose people or structures to a significant risk of loss, injury, or death involving flooding:
- i) as a result of the failure of a dam or levee?
  - ii) from inundation by seiche, tsunami, or mudflow?
- g) Would the change in the water volume and/or the pattern of seasonal flows in the affected watercourse result in:
- i) a significant cumulative reduction in the water supply downstream of the diversion?
  - ii) a significant reduction in water supply, either on an annual or seasonal basis, to senior water right holders downstream of the diversion?
  - iii) a significant reduction in the available aquatic habitat or riparian habitat for native species of plants and animals?
  - iv) a significant change in seasonal water temperatures due to changes in the patterns of water flow in the stream?
  - v) a substantial increase or threat from invasive, non-native plants and wildlife
- h) Place within a 100-year flood hazard area structures that would impede or redirect flood flows?
- i) 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?
- j) Inundation by seiche, tsunami, or mudflow?

## **Discussion:**

### ***Potential for Degradation of Water Quality***

The project would involve some removal of sediment and back-filling of soil around a drop inlet structure placed in the existing drainage ditch. This would create the potential for sediment to enter the storm drain system. Best management practices would be used as described below to prevent sedimentation of nearby waterways.

### ***Reduction in Aquatic Habitat***

The project would result in the filling of 0.005 acres of jurisdictional ditch. This impact would be mitigated off-site as described in Section 4 of this Initial Study.

While not considered to be potentially significant, the following mitigation measures are recommended as conditions of project approval to further reduce impacts to water quality (**Potentially significant impact; mitigation measures required to reduce impact to less-than-significant level (PS/M)**).

### **Mitigation Measures:**

- 8-1 Best management practices would be implemented for excavation, grading, and any stockpiling of soils to minimize erosion and sedimentation. Practices would include, but not be limited to, use of erosion control fabric, gravel, and straw wattle barriers as needed, as well as general good housekeeping of the work site.
- 8-2 The project would be constructed during the dry season.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**9. LAND USE AND PLANNING.** Would the project:

- |  |                          |                          |                          |                                     |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Physically divide an established community?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Conflict with any applicable habitat conservation plan or natural community conservation plan?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Discussion:**

The project would not divide an established community or conflict with any applicable land use plan, policy or regulation. In addition, it would not conflict with any applicable habitat conservation plan or natural community plan **(No Impact)**.

**Mitigation Measures:**

None Required.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**10. MINERAL RESOURCES.** Would the project:

- |  |                          |                          |                          |                                     |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| 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?                          | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Discussion:**

There are no known State-designated (MRZ-2) mineral resources located at the project site. <sup>xv</sup> **(No Impact)**

**Mitigation Measures:**

None required.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**11. NOISE.** Would the project result in:

- |  |                          |                                     |                                     |                                     |
|--|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| a) Exposure of persons to, or generation of, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?  | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| b) Exposure of persons to, or generation of, excessive ground-borne vibration or groundborne noise levels?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?   | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing in or working in the project area to excessive noise levels? | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| f) For a project within the vicinity of a private airstrip, would the project expose people residing in or working in the project area to excessive noise levels?  | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Discussion:**

***Noise During the Construction Period***

Development of the project would result in substantial noise during the construction period that would be audible from nearby residences. Residences would be considered the most noise-sensitive uses (sensitive receptors) in the project area. Construction activities would include installation of an inlet basin/drop inlet structure in the drainage ditch adjacent to the roadway. Potentially significant noise-related impacts could be reduced to a less-than-significant level by incorporating the following mitigation measures **(Potentially significant impact requiring mitigation to reduce the impact to a less-than-significant level (PS/M))**.

**Mitigation Measures:**

- 11-1 Noise-generating construction activities, including truck traffic coming to and from the site for any purpose would be limited to daytime, weekday, non-holiday hours (7:00 a.m. to 5:00 p.m.). Any special circumstances which necessitate performance of construction work outside the hours and days specified would require that the contractor request and the City's project manager approve such work.
- 11-2 Construction equipment shall be properly outfitted and maintained with noise reduction devices to minimize construction-generated noise (Fit motorized equipment with proper mufflers in good working order). Unnecessary idling of internal combustion engines would be prohibited.
- 11-3 The contractor shall locate stationary noise sources such as air compressors as far as practical from existing nearby residences and other noise-sensitive uses.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**12. POPULATION AND HOUSING.** Would the project:

- |  |                          |                          |                          |                                     |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Induce substantial population growth in an area either directly (e.g., by proposing new homes and businesses) or indirectly (e.g., through extension of roads or other infrastructure)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Discussion:**

The project would not result in population growth, nor would it displace any housing units or people requiring housing units (**No Impact**).

**Mitigation Measures:**

None required.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**13. PUBLIC SERVICES.** Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service rations, response times or other performance objectives for any of the public services:

- |                             |                          |                          |                          |                                     |
|-----------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Fire protection?         | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Police protection?       | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Schools?                 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| d) Parks?                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| e) Other public facilities? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Discussion:**

The project would not result in any adverse impacts to public services (**No impact**).

**Mitigation Measures:**

None required.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**14. RECREATION.** Would the project:

- |  |                          |                          |                          |                                     |
|--|--------------------------|--------------------------|--------------------------|-------------------------------------|
| a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b) Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?                        | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Discussion:**

The project would not result in the demand for additional recreation services or require the construction or expansion of recreational facilities **(No Impact)**.

**Mitigation Measures:**

None Required.

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
--------------------------------------	--	--------------------------	--------------

**15. TRANSPORTATION / TRAFFIC.** Would the project:

- |  |                          |                          |                                     |                                     |
|--|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a) Cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system ( <i>i.e.</i> , result in a substantial increase in either the number of vehicle trips, the volume-to-capacity ratio on roads, or congestion at intersections)? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| b) Substantially increase hazards due to a design feature ( <i>e.g.</i> , sharp curves or dangerous intersections) or incompatible uses ( <i>e.g.</i> , farm equipment)?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c) Result in inadequate emergency access?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| d) Result in inadequate parking capacity?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| e) Exceed, either individually or cumulatively, a level-of-service standard established by the county congestion management agency for designated roads or highways?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| f) Conflict with adopted policies supporting alternative transportation ( <i>e.g.</i> , bus turnouts, bicycle racks)?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| g) 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?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Discussion:**

***Traffic Impacts During the Construction Period***

The project would result in some truck traffic during the construction period due to the need to deliver and remove equipment and materials. Staging could be accomplished on-site.

While this impact would not be considered potentially significant, notification of neighbors of the construction period is recommended to alert residents to the fact that there will be trucks and other equipment in the neighborhood.

On an ongoing basis, the project would result in beneficial impacts related to traffic and circulation by alleviating the potential for flooding during heavy rain events. **(Less-than-**

**significant impact; mitigation measures recommended as a condition of project approval to further reduce the level of impact, Beneficial impact (LS/M, B)).**

**Mitigation Measures:**

15-1. Notification of neighbors of the construction period is recommended to alert residents to the fact that there will be trucks and other equipment in the neighborhood

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
--------------------------------------	--	--------------------------	--------------

**16. UTILITIES AND SERVICE SYSTEMS.** Would the project:

- |  |                          |                          |                                     |                                     |
|--|--------------------------|--------------------------|-------------------------------------|-------------------------------------|
| a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| b) 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 impacts?                           | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| c) 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 impacts?                                    | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| e) Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| g) Comply with federal, state, and local statutes and regulations related to solid waste?  | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Discussion:**

The project would result in an extension of the existing storm drain system. A drop inlet structure would be placed within a roadside ditch as part of the project. No additional mitigation would be required (**Less-than-Significant Impact (LS)**).

**Mitigation Measures:**

None required.

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Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant	No Impact
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**17. MANDATORY FINDINGS OF SIGNIFICANCE.**

- |  |                          |                                     |                          |                                     |
|--|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 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 a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| b) 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)  | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?   | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

## OVERVIEW OF ENVIRONMENTAL IMPACTS

The Dennis Lane Storm Drain project involves extension of the existing storm drain system. Photographs of the project site are included as Appendix C. Some short-term impacts have been identified during the construction period. Project impacts are described below.

**Air Quality:** The project would result in some short-term air quality impacts due to earthwork and grading. Mitigation measures are recommended as conditions of project approval to further reduce the level of impact (Less-than-significant **(LS/M)**).

**Biological Resources:** The project would result in the filling of 0.005 acre of jurisdictional roadside ditch. Over the short-term, the project could result in impact to seasonal wetland habitat and habitat for special-status species. Mitigation is included to reduce this potential impact to a less-than-significant impact. (Potentially significant impact; mitigation is required to reduce this potential impact to a less-than-significant level **(PS/M)**).

**Cultural Resources:** While there are no known cultural resources within the project area, the potential to encounter resources exists. Mitigation measures are identified to minimize impacts in the event that resources are encountered during the construction period (Less-than-significant impact; mitigation measures are identified as a condition of project approval to further reduce the level of impact **(LS/M)**).

**Geology/Soils:** The project would result in less than significant erosion and sedimentation. Mitigation measures are identified to reduce this potential impact to a less-than-significant level (Less than significant impact; mitigation measures recommended as a condition of project approval to further reduce the level of impact **(LS/M)**).

**Hydrology/Water Quality:** The project would involve the filling of 0.045 acre of jurisdictional ditch. This impact would be mitigated through purchase of credits at an approved mitigation bank. Best management practices would be utilized during project construction to prevent adverse effects to water quality (Potentially significant impact; mitigation is required to reduce this potential impact to a less-than-significant level **(PS/M)**).

**Noise:** The project would result in potentially significant noise impacts during the construction period. Noise impacts would be reduced to a less-than-significant level with identified mitigation measures. (Potentially significant impact requiring mitigation to reduce the impact to a less-than-significant level **(PS/M)**).

**Transportation/Traffic:** The project would result in some additional traffic during the construction period. On an ongoing basis, the project would result in beneficial impacts related to traffic and circulation by alleviating the potential for flooding during heavy rains. (Less-than-significant **(LS/M)**; Beneficial impact **(B)**).

**Utilities and Service Systems:** The project would result in an extension of the existing storm drain system. A drop inlet structure would be placed within a roadside ditch as part of the project. No additional mitigation would be required (**Less-than-Significant Impact (LS)**).

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**Authority:** Public Resources Code Sections 21083, 21084, 21084.1, and 21087.

**Reference:** Public Resources Code Sections 21080(c), 21080.1, 21080.3, 21082.1, 21083, 21083.1 through 21083.3, 21083.6 through 21083.9, 21084.1, 21093, 21094, 21151; *Sundstrom v. County of Mendocino*, 202 Cal. App. 3d 296 (1988); *Leonoff v. Monterey Board of Supervisors*, 222 Cal. App. 3d 1337 (1990).

**3. MITIGATION MONITORING PROGRAM**

**Table 1**

**Dennis Lane Storm Drain Project**  
Project Name

The following environmental mitigation measures were incorporated into the Conditions of Approval for this project in order to reduce identified significant environmental impacts to a level of insignificance, or to further reduce the level of impact, where indicated. A completed and signed report for each mitigation measure indicates that this mitigation measure has been complied with and implemented.

Mitigation measures required to reduce Potentially Significant Impacts to less-than-significant levels are identified as: **(PS/M)**. Mitigation measures recommended for Less-than-Significant Impacts to further reduce the level of impact are identified as: **(LS/M)**.

**The City of Santa Rosa Public Works Department would implement or oversee implementation of all mitigation measures.**

Mitigation Measure	Monitoring Agency	Shown on Plans	Constructed/ Installed	Remarks
<b>Air Quality (LS/M)</b>	City			
3-1 During earth disturbing activities, the contractor shall be responsible for spraying exposed soil surfaces with water or another approved dust inhibitor. The contractor shall be responsible for cleaning streets and driveways of fugitive soils in the immediate vicinity of construction work, as necessary.				
3-2 The contractor shall be responsible for ensuring that all construction equipment and vehicles are maintained in good operating order and that all factory installed emission control devices are installed and functioning properly. All vehicles and construction equipment shall be turned off when not in use to				

minimize emissions.

- 3-3 Feasible Control Measures for Construction Emissions of PM<sub>10</sub> would also include:
- (g) Water all active construction areas daily, as required to minimize mobilization of dust.
  - (h) Apply water daily, as required to minimize mobilization of dust, or apply soil stabilizers on all unpaved access roads and staging areas.
  - (i) Sweep daily (with water sweepers) all paved access roads.
  - (j) Enclose, cover, water twice daily or apply (non-toxic) soil binders to exposed stockpiles (dirt, sand, etc.)
  - (k) Replant vegetation in disturbed areas as quickly as possible.
  - (l) Limit the area subject to construction activity at any one time, as applicable to the project.

**Mitigation Measure**

**Monitoring Agency**

**Shown on Plans**

**Constructed/ Installed**

**Remarks**

**Biological Resources (PS/M)**

City

**Mitigation Measures:**

- 4-1. Areas of jurisdictional ditches impacted by the project would be mitigated at an off-site location on a 2:1 basis (equivalent to 1 acre restoration plus 1 acre creation for every 1 acre of wetland impact). Mitigation credits will be purchased at an approved mitigation bank.
- 4-2. Impacts to California tiger salamander habitat will be mitigated at an off-site location on a 0.2:1 basis, per the 2007 Programmatic Biological Opinion. Mitigation credits will be purchased at an approved mitigation bank.

4-3. Impacts to Santa Rosa Plain federally-endangered plant habitat will be mitigated at an off-site location on a 1.5:1 basis (equivalent to 1 acre occupied or established habitat and 0.5 acre established habitat, both with success criteria met prior to groundbreaking at the project site), per the 2007 Programmatic Biological Opinion. Mitigation credits will be purchased at an approved mitigation bank.

**Mitigation Measure**

**Monitoring Agency**

**Shown on Plans**

**Constructed/ Installed**

**Remarks**

**Cultural Resources (LS/M)**

City

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. Prehistoric archaeological 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 fire-affected stones. Historic period site indicators generally include: fragments of glass, ceramic, and metal objects; milled and split lumber; and structure and features remains such as building foundations, and discrete trash deposits (e.g., wells, privy pits, dumps).

5-2 If human remains are encountered, 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.

Mitigation Measure	Monitoring Agency	Shown on Plans	Constructed/ Installed	Remarks
<b>Geology and Soils (LS/M)</b>				
City				
6-1	At a minimum, all project improvements would meet the requirements of the California Uniform Building Code (CUBC) for Seismic Zone 4.			
6-2	Project construction would utilize best management practices for handling of soil to ensure that loose sediment does not enter the storm-drain system, which leads to Coffey Creek.			
<b>Hydrology/Water Quality (PS/M)</b>				
City				
8-1	Best management practices would be implemented for excavation, grading, and any stockpiling of soils to minimize erosion and sedimentation. Practices would include, but not be limited to, use of erosion control fabric, gravel, and straw wattle barriers as needed, as well as general good housekeeping of the work site.			
8-2	The project would be constructed during the dry season.			
<b>Noise (PS/M)</b>				
City				

- 11-1 Noise-generating construction activities, including truck traffic coming to and from the site for any purpose would be limited to daytime, weekday, non-holiday hours (7:00 a.m. to 5:00 p.m.). Any special circumstances which necessitate performance of construction work outside the hours and days specified would require that the contractor request and the City's project manager approve such work.
- 11-2 Construction equipment shall be properly outfitted and maintained with noise reduction devices to minimize construction-generated noise (Fit motorized equipment with proper mufflers in good working order). Unnecessary idling of internal combustion engines would be prohibited.
- 11-3 The contractor shall locate stationary noise sources such as air compressors as far as practical from existing nearby residences and other noise-sensitive uses.

#### **4. Agencies and Organizations Consulted**

Regional Water Quality Control Board (RWQCB)  
Northwest Information System at Sonoma State University

## **5. Report Preparation**

### **Report Personnel**

City of Santa Rosa Department of Public Works

Rick Moshier, Director  
Colleen Ferguson, Acting Deputy Director, Engineering  
David Guhin, Supervising Engineer  
Rita Miller, Associate Engineer  
Sheri J. Emerson, Senior Environmental Specialist  
Ken Hutchins, Civil Engineering Technician I

City of Santa Rosa Department of Community Development

Charles J. Regalia, Community Development Director  
Marie Meredith, Deputy Director, Community Development  
Gillian Hayes, Environmental Coordinator

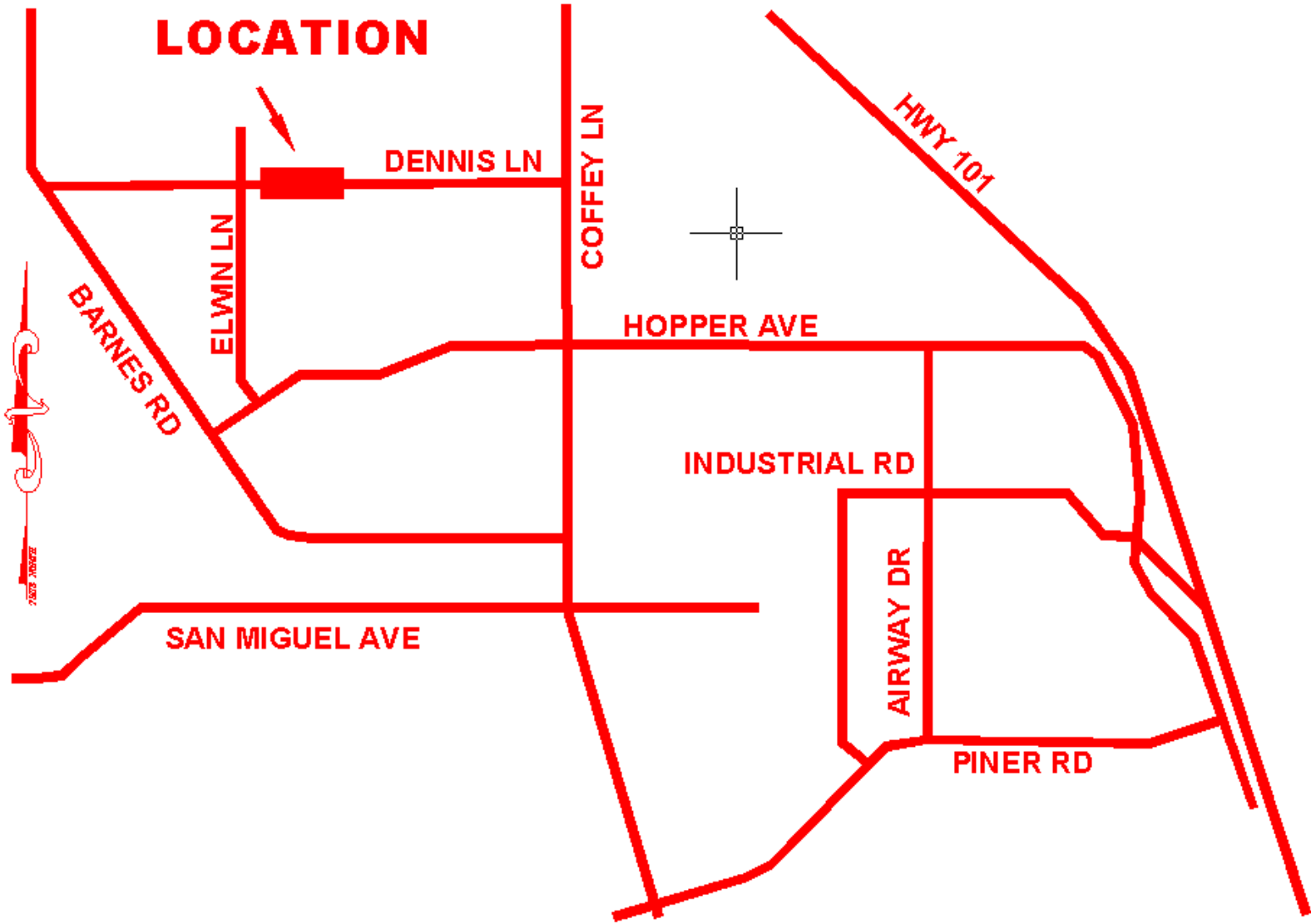
## Endnotes/Information Sources

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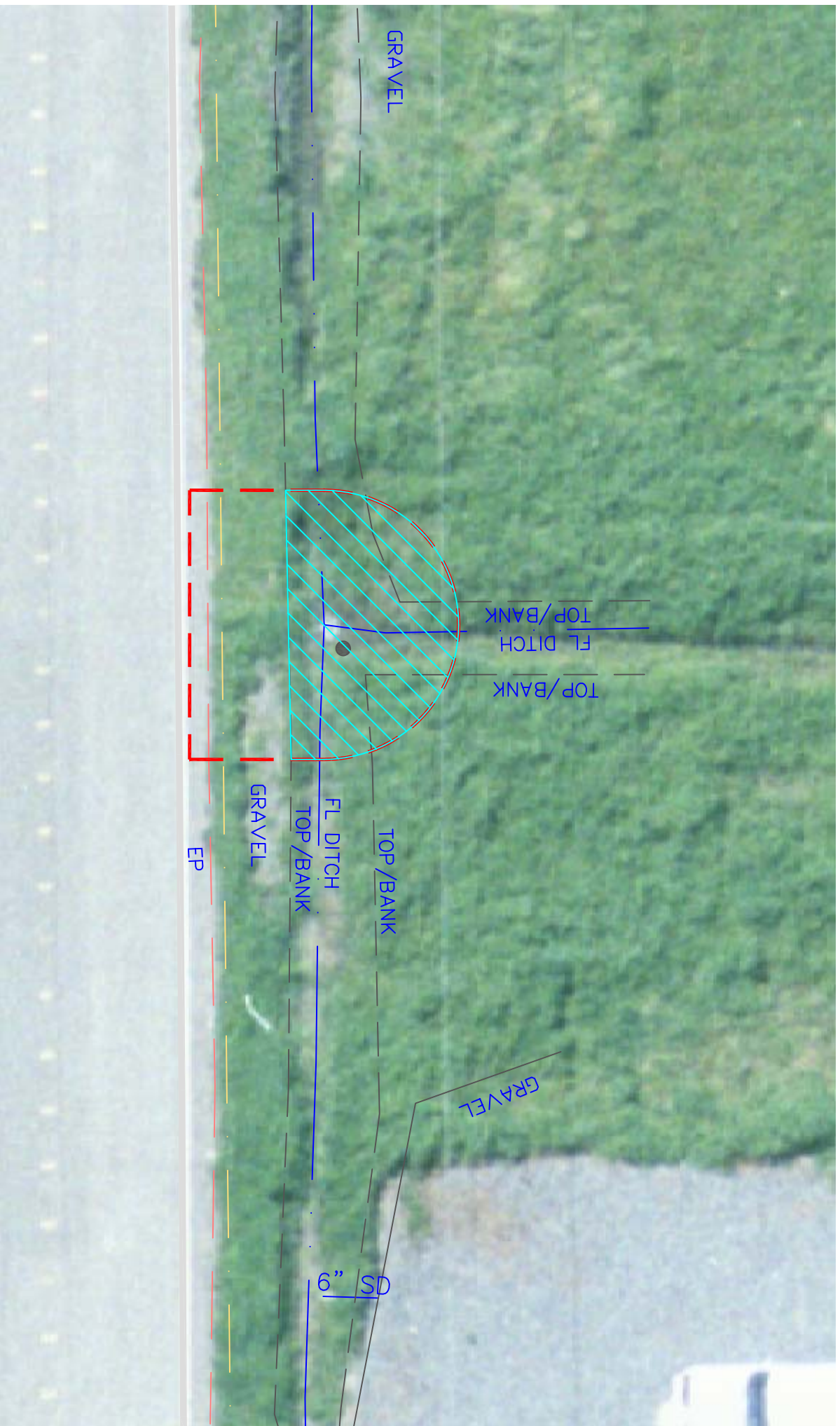
- <sup>i</sup> Santa Rosa Plain Conservation Strategy, U.S. Department of the Interior, Fish and Wildlife Service, Sacramento, CA. December 1, 2005. Figure 3 revised April 17, 2007.
- <sup>ii</sup> Programmatic Biological Opinion for the U.S. Army Corps of Engineers Permitted Projects that May Affect California Tiger Salamander and Three Endangered Plant Species on the Santa Rosa Plain, California (Corps File Number 223420N), U.S. Fish and Wildlife Service, November 9, 2007.
- <sup>v</sup> Bay Area Region Important Farmland 2004 (and Urbanization 1984 to 2004), California Department of Conservation – Division of Land Resource Protection, 2007.
- <sup>vi</sup> Sonoma County Agricultural Preserve Lands Subject to Enforceable Restrictions, Sonoma County Planning Department, May 2000.
- <sup>vii</sup> Bay Area Air Quality Management District (BAAQMD) CEQA Guidelines, April 1996; Revised December 1999. BAAQMD Office: 939 Ellis Street, San Francisco, CA 94109.
- <sup>viii</sup> Sonoma County Soil Survey, USDA and UC Agricultural Experiment Station, May 1972; reviewed and approved for reprinting, August 1990.
- <sup>ix</sup> Santa Rosa Plain Conservation Strategy, U.S. Department of the Interior, Fish and Wildlife Service, Sacramento, CA. December 1, 2005. Figure 3 revised April 17, 2007.
- <sup>x</sup> Programmatic Biological Opinion for the U.S. Army Corps of Engineers Permitted Projects that May Affect California Tiger Salamander and Three Endangered Plant Species on the Santa Rosa Plain, California (Corps File Number 223420N), U.S. Fish and Wildlife Service, November 9, 2007.
- <sup>xi</sup> Sonoma County Soil Survey, USDA and UC Agricultural Experiment Station, May 1972; reviewed and approved for reprinting, August 1990.
- <sup>xiii</sup> Electronic mail correspondence with Joan Fleck, staff with the North Coast Regional Water Quality Control Board, May 22, 2008.
- <sup>xv</sup> Sonoma County General Plan, December 31, 1998, as amended, Figure RC-2i. ([www.sonoma-county.org/prmd/docs/gp/index.htm](http://www.sonoma-county.org/prmd/docs/gp/index.htm)).

Figure 1. Dennis Lane Storm Drain Project Site Location and Vicinity

# PROJECT LOCATION

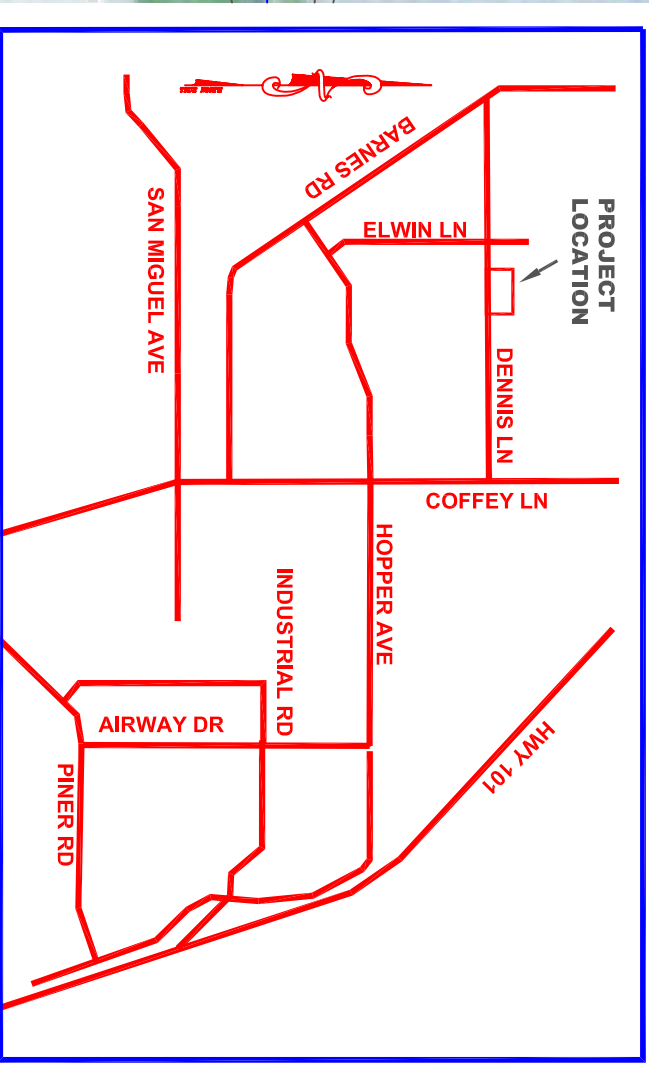


## Appendix A. Preliminary Jurisdictional Wetland Delineation



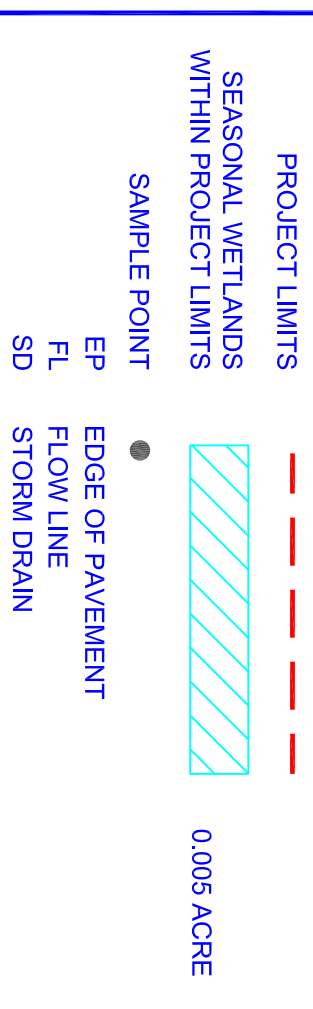
**NOTES:**

This exhibit depicts information and data produced in strict accord with the U.S. Army Corps of Engineers wetland delineation methods described in the 1987 Corps of Engineers Wetland Delineation Manual. However, wetland boundaries have not been legally surveyed and may be subject to minor adjustments if exact locations are required.

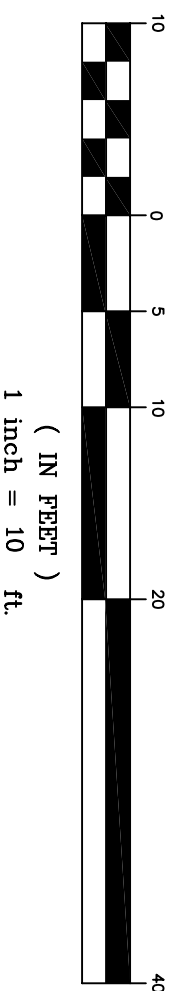


**LOCATION MAP**  
N.T.S.

**LEGEND:**



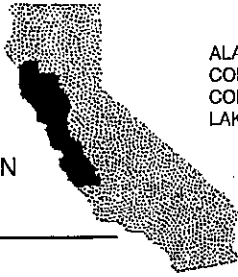
**GRAPHIC SCALE**



**Dennis Lane  
Storm Drain Improvements  
Delineation of Waters of the U.S.**

Appendix B. Letter from California Historical Resources Information System, May 14, 2008

CALIFORNIA  
HISTORICAL  
RESOURCES  
INFORMATION  
SYSTEM



ALAMEDA  
COLUSA  
CONTRA COSTA  
LAKE

MARIN  
MENDOCINO  
MONTEREY  
NAPA  
SAN BENITO  
SAN FRANCISCO

SAN MATEO  
SANTA CLARA  
SANTA CRUZ  
SOLANO  
SONOMA  
YOLO

**Northwest Information Center**  
Sonoma State University  
1303 Maurice Avenue  
Rohnert Park, California 94928-3609  
Tel: 707.664.0880 • Fax: 707.664.0890  
E-mail: leigh.jordan@sonoma.edu

May 14, 2008

NWIC File No.: 07-1523

Sheri J. Emerson  
City of Santa Rosa  
Public Works Department  
69 Stony Circle  
Santa Rosa, CA 95401

Re: Record search results for the proposed Dennis Lane Storm Drain Project, Dennis and Elwin Lanes, Santa Rosa, Sonoma County, California.

Dear Ms. Emerson:

Per your request received by our office on April 24, 2008, a records search was conducted for the above referenced project by reviewing pertinent Northwest Information Center (NWIC) data maps, historic-period maps, and literature for Sonoma County on file at this office. Review of this information indicates that the proposed project area contains no recorded Native American or historic-period archaeological resources. This office has no record of an archaeological study of the project area. State and federal inventories list no historic properties within the proposed project area.

At the time of Euroamerican contact the Native Americans that lived in the area were speakers of the Southern Pomo language, one of seven Pomoan languages (McLendon and Oswalt 1978: 278). There are no Native American resources in or adjacent to the proposed project area referenced in the ethnographic literature.

Based on an evaluation of the environmental setting and features associated with known sites, Native American cultural resources in this part of Sonoma County have been found on ridges, midslope terraces, and in valleys adjacent to intermittent and perennial watercourses. The Dennis Lane Storm Drain Project area contains a large alluvial valley north of the Laguna de Santa Rosa. Given the dissimilarity of these environmental factors, there is a low likelihood that unrecorded Native American cultural resources exist in the proposed Dennis Lane Storm Drain Project area.

Review of historical literature and maps gave no indication of any historic-period archaeological resources within the project area. Please note, however, that the 1954 USGS Sebastopol 7.5' quadrangle map indicated nine historic-period buildings with the project area. Given that these buildings were not indicated on earlier maps, there is a low possibility of identifying associated historic-period archaeological resources.

## RECOMMENDATIONS:

1) There is a low possibility of identifying Native American and historic-period sites and further study is not recommended at this time.

2) Review for possible historic structures has included only those sources listed in the attached bibliography and should not be considered comprehensive. The Office of Historic Preservation has determined that buildings, structures, and objects 45 years or older may be of historical value. ***As indicated on the 1954 USGS Sebastopol 7.5' quadrangle map, there are nine historic-period buildings within the project area. If these buildings are still standing, it is recommended that they be assessed by an architectural historian before commencement of project activities.***

3) If cultural resources are encountered **during the project**, avoid altering the materials and their context until a cultural resource consultant has evaluated the situation. **Project personnel should not collect cultural resources.** Prehistoric resources include chert or obsidian flakes, projectile points, mortars, and pestles; and dark friable soil containing shell and bone dietary debris, heat-affected rock, or human burials. Historic-period resources include stone or adobe foundations or walls; structures and remains with square nails; and refuse deposits or bottle dumps, often located in old wells or privies.

4) It is recommended that any identified cultural resources be recorded on DPR 523 historic resource recordation forms, available online from the Office of Historic Preservation's website: [http://ohp.parks.ca.gov/default.asp?page\\_id=1069](http://ohp.parks.ca.gov/default.asp?page_id=1069).

Thank you for using our services. Please contact this office if you have any questions, (707) 664-0880.

Sincerely,



Jillian E. Guldenbrein  
Researcher

Appendix C. Photographs of project area

## Photographs of the Dennis Lane Storm Drain Project Site and Vicinity



February 7, 2008. Photograph of location of proposed storm drain inlet structure, looking north from edge of Dennis Lane.



April 10, 2008. Photograph of same location as above.



February 7, 2008. Photograph of location of proposed storm drain inlet structure, looking east from edge of Dennis Lane.



February 7, 2008. Looking west from same location as above.