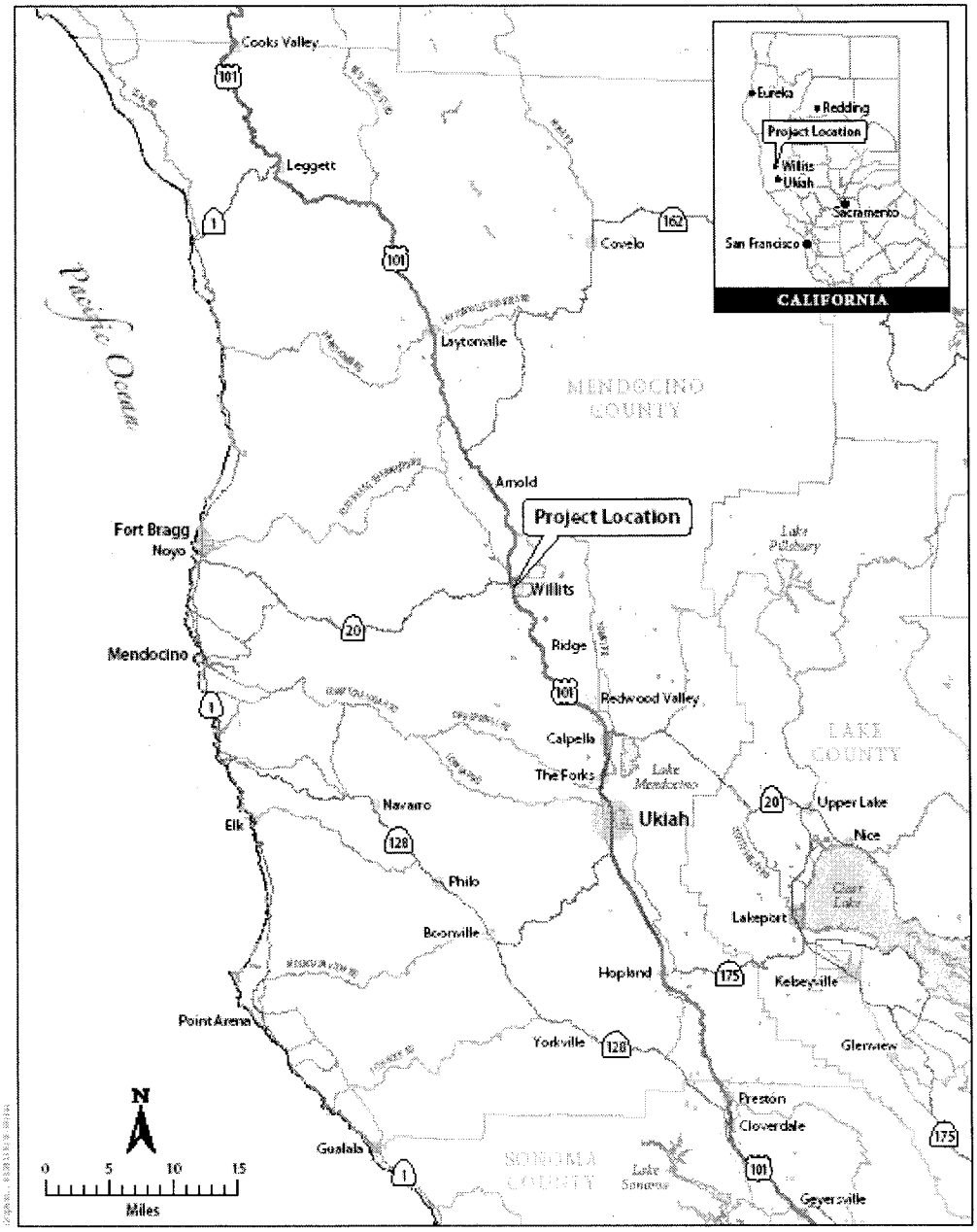

Figure 1-1
Regional Location

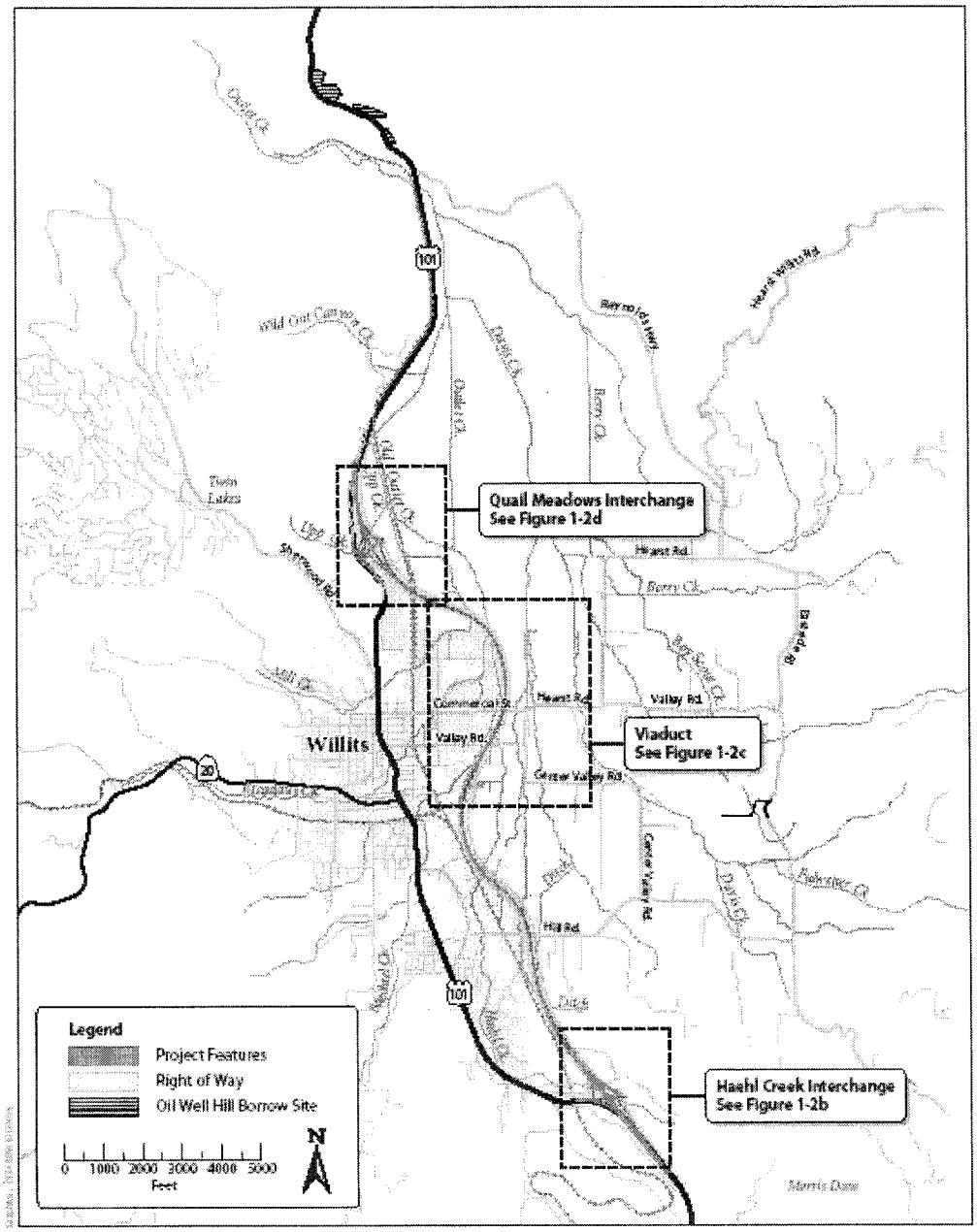

Figure 1-2a
Project Features—Overview Phase 1

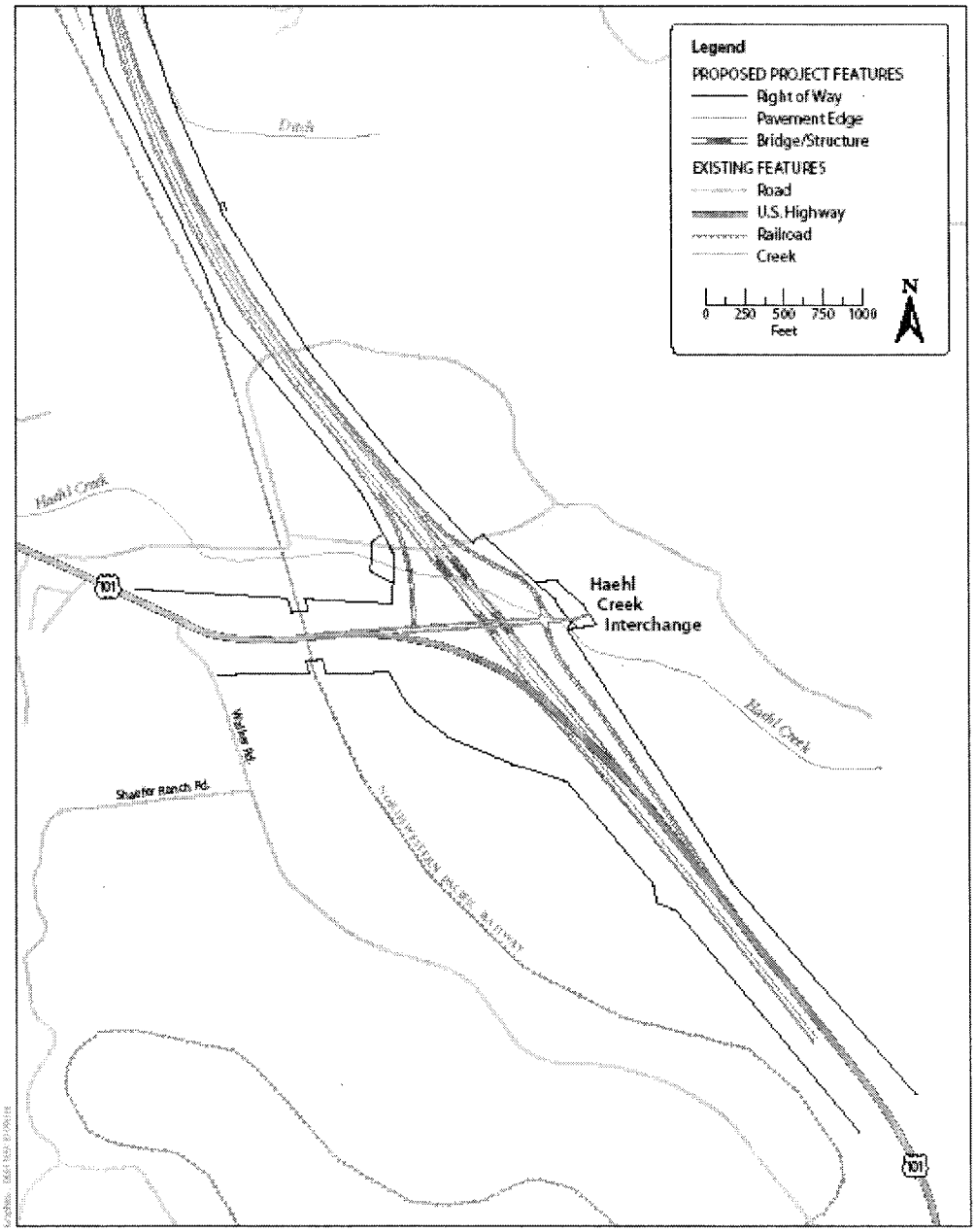

Figure 1-2b
Southern End Project Features—Haehl Creek Interchange Phase 1

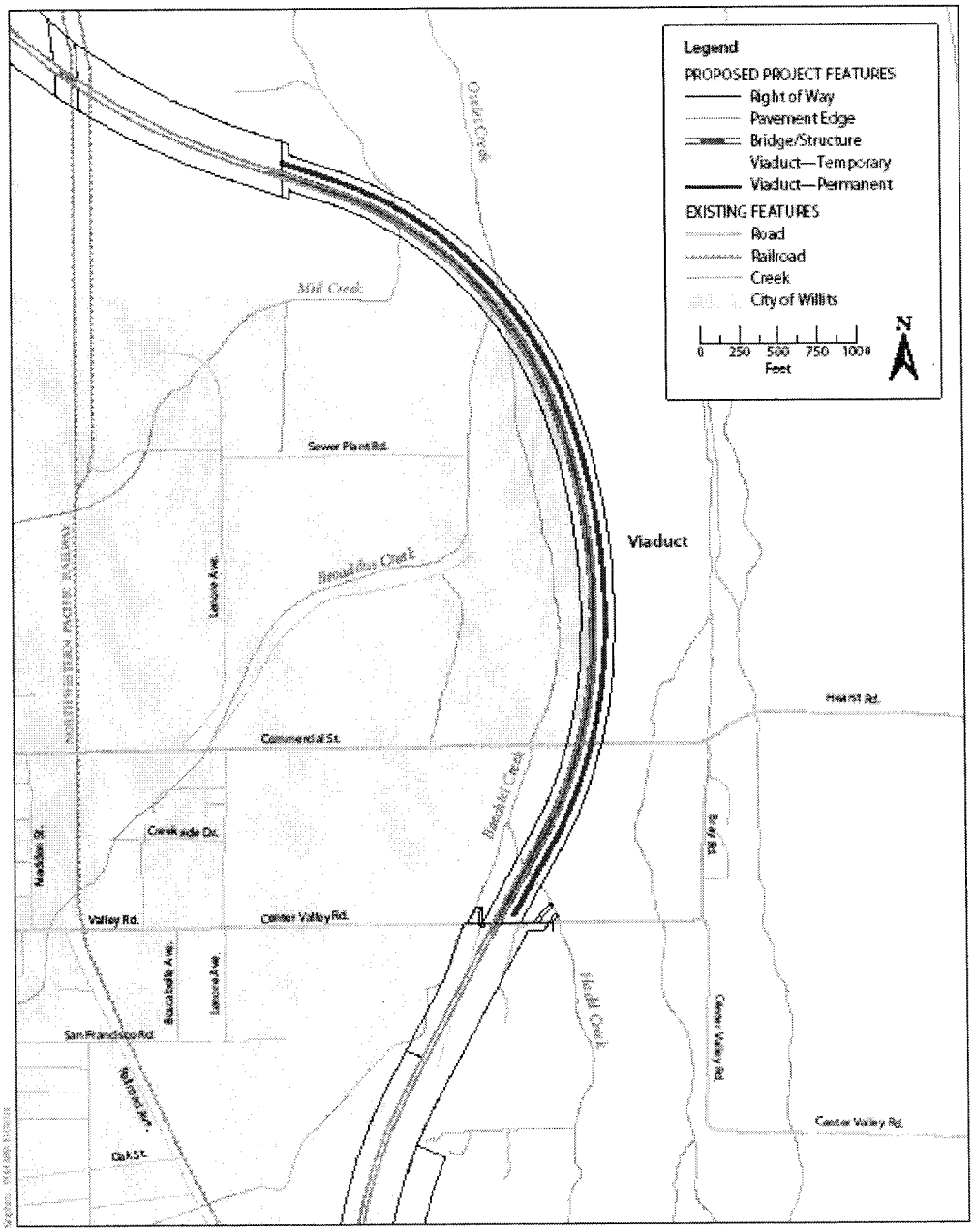

Figure 1-2c
Middle Project Features—Viaduct Phase 1

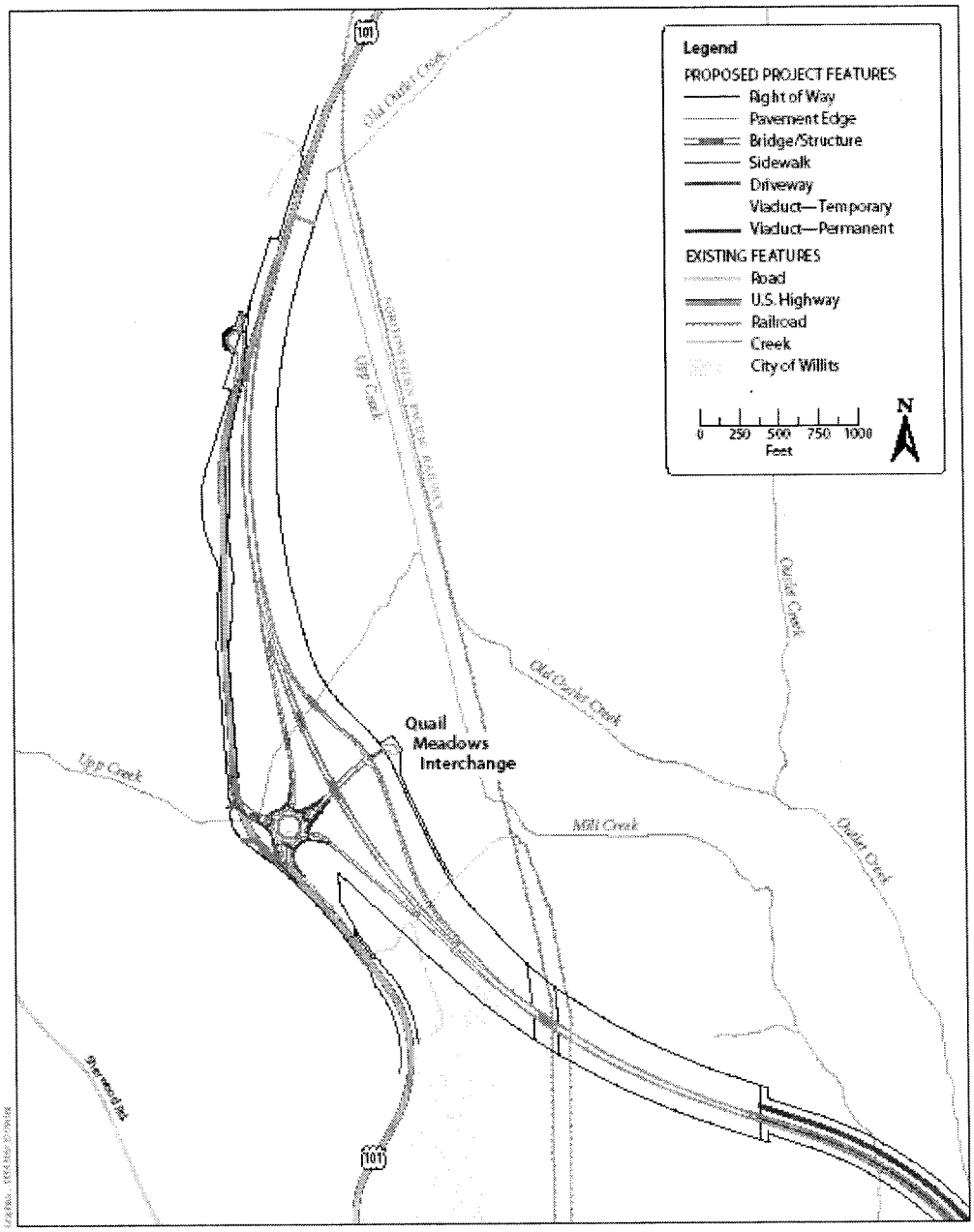

Figure 1-2d
North End Project Features—Quail Meadows Interchange Phase 1

Surface Areas of Wetlands and Other Waters Filled

The proposed project will directly affect a total of 89.12 acres of wetlands and other waters of the United States, of which 56.23 acres will be permanently filled and 32.89 acres will be temporarily disturbed during project construction and mitigation activities. Fill types affecting wetlands include those listed in Table 1 for "other waters of the United States" (permanent fills consisting of roadway and structures fill, asphalt concrete, RSP, TRM and RECP, new culverts, culvert end and treatments; temporary fills consisting of temporary falsework and falsework supports, cofferdams, temporary roadway fills, stream re-alignments, and temporary access routes). Temporarily impacted areas will be returned to pre-project contours and elevations before completion of the project. Table 2 shows the surface area (acres) of the resources that will be affected by the bypass. Maps depicting impacted wetlands and "other waters" of the United States are included in Appendix A and Appendix B of this permit application.

Table 2. Summary of Project Construction Impacts on Wetlands and Other Waters of the United States

Wetland Type / Other Waters	Project Impacts on Wetlands and Other Waters (acres)			Mitigation Impacts on Wetlands and Other Waters (acres)			Total Impacts on Wetlands and Other Waters (acres)
	Temporary	Permanent	Total	Temporary	Permanent	Total	Total
Marsh	1.38	8.15	9.53	0.49	0.00	0.49	**10.02**
Riparian Scrub	0.17	0.21	0.38	0.00	0.00	0.00	**0.38**
Riparian Woodland	1.61	3.21	4.82	0.07	0.02	0.09	**4.91**
Swale	0.03	0.00	0.03	0.26	0.05	0.31	**0.34**
Vernal Pool	0.05	0.16	0.21	0.00	0.00	0.00	**0.21**
Wet Meadow	20.69	41.64	62.33	4.98	0.45	5.43	**67.76**
Subtotal Wetlands	**23.93**	**53.37**	**77.30**	**5.80**	**0.52**	**6.32**	**83.62**
Other Waters	3.10	2.25	5.35	0.06	0.09	0.15	**5.50**
Total	**27.03**	**55.62**	**82.65**	**5.86**	**0.61**	**6.47**	**89.12**

COMPENSATORY MITIGATION (Required when permanent and temporal impacts to Waters of the State occur. Describe the location, size, type, functions, and values of the proposed mitigation. Describe success criteria, monitoring, long-term funding, management, and protection of the mitigation site. Attach a Mitigation Plan if needed. Attach Mitigation Bank Bills-of-Sale for purchase credits if needed. See attached checklist for guidance.)

Caltrans has developed a Mitigation and Monitoring Proposal (MMP) that proposes compensatory mitigation for effects of the bypass on jurisdictional wetlands, other waters of the United States, riparian habitat, oak woodlands, and State-listed plants. In addition to compliance with Clean Water Act (CWA) Section 401, the MMP will be used to support compliance with CWA Section 404, Section 1602 of the California Fish and Game Code, and Section 2081 of the California Endangered Species Act (CESA). The overall goal of the MMP is to successfully compensate for impacts on sensitive biological resources resulting from bypass project construction by improving ecological functions and values to habitat in Little Lake Valley through a combination of restoration, creation, enhancement, and preservation. However, beyond this compensation, the MMP aims to restore and enhance many previously lost or degraded wetland functions and values, and to help offset past damage to parts of the Outlet Creek Basin. The table below presents the total amount of jurisdictional wetlands and other waters of the U.S. and/or State that would be created, enhanced, or preserved as compensation for the proposed project's impacts on jurisdictional waters and wetlands.

Resource	Mitigation Actions (acres)				Restoration
	Creation	Enhancement	Preservation	Total Mitigation Acres	
Wetlands	33.44	1,032.90	1,122.11	**2,188.45**	5.96
Other Waters	none	17.32	24.70	**42.02**	0.06
Total	**33.44**	**1,050.22**	**1,146.81**	**2,230.47**	**6.02**

The proposed project's MMP will be provided in its entirety in a separate transmission.

ALTERNATIVES ANALYSIS

Has an Alternatives Analysis been prepared? ☑ YES ☐ NO If you marked YES, please submit the appropriate documentation.

Table 3.