

PUBLIC WORKS DEPARTMENT
INITIAL STUDY OF
ENVIRONMENTAL SIGNIFICANCE

PROJECT NUMBER: 0662-6R4083
CP# 15-41

PROJECT NAME: Marsh Creek Road Bridge Replacement Project, Bridges #28C-0143 and #28C-0145

PREPARED BY: Laura Cremin, Environmental Services Division

DATE: April 20, 2020

APPROVED BY: _____ DATE: _____

RECOMMENDATIONS:

- Categorical Exemption: §1530___ [Class ___] Mitigated Negative Declaration
- Environmental Impact Report Required Conditional Negative Declaration

The project will not have a significant effect on the environment. The recommendation is based on the following: There is no substantial evidence that the project or any of its aspects may cause a significant effect on the environment, pursuant to 15063 (b) (2) of the CEQA guidelines.

What changes to the project would mitigate the identified impacts: N/A

USGS Quad Sheet: Antioch South	Base Map Sheet #: P-22, P-23	Parcel #: 007-191-001, 007-192-008, 007-192-007, 007-192-012, 007-192-002, 007-380-011, 007-380-019, 007-160-014
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GENERAL CONSIDERATIONS:

1. **Location:** Marsh Creek Road, Bridge #28C-0143 is 1.6 miles west of Deer Valley Road and Bridge #28C-0145 is 0.2 mile west of Camino Diablo, unincorporated Antioch/Brentwood area, Contra Costa County.
2. **Project Description:** The purpose of this project is to replace two existing bridges (Bridges #28C-0143 and #28C-0145) on Marsh Creek Road that carry traffic over Marsh Creek. The improvements are necessary to meet current design standards. It is anticipated that both bridges would be constructed at the same time. Construction is expected to begin in May of 2022 and take approximately 18 months to complete. The Project is a covered activity under the East Contra Costa Habitat Conservation Plan.

The proposed replacement for Bridge #28C-0143 would be a single span bridge. The new bridge would be approximately 43 feet wide (two 12-foot travel lanes, 8-foot shoulders, and 1.5-foot wide concrete barriers) and 80 feet long. The west and east roadway approaches to the bridge would be reconstructed. Bridge #28C-0143 would be replaced on a shifted alignment (approximately 45 feet to the northwest) to provide a single stage construction approach that would allow traffic to use the existing bridge during most of the construction duration while the new bridge and roadway approaches are built. Retaining walls would be required on both ends of the bridge.

The proposed replacement for Bridge #28C-0145 would also be a single span bridge. The new bridge would be approximately 43 feet wide (two 10-foot travel lanes, 8-foot shoulders, and 1.5-foot wide concrete barriers) and 80 feet long. The west and east roadway approaches would be reconstructed. Retaining walls would be required on both ends of the bridge. Bridge 145 would be replaced on a shifted alignment to provide a single stage construction approach, similar to the approach described above for Bridge #28C-0143.

Ground disturbance would be necessary. Construction depth would vary between project elements. The maximum depth of excavation for the project work would be approximately 75 feet for the installation of bridge foundation piles (using drilling), approximately 10 to 15 feet of excavation for bridge abutments, and approximately five feet for general roadway work and utility relocations. Work would occur in Marsh Creek. If creek flows are present, dewatering would be required according to regulatory permit conditions. Disturbed areas would be stabilized as necessary following construction. Drainage patterns in the project area would be maintained. Utility relocation would be necessary. Right-of-way acquisition and temporary construction easements would be required. Tree removal (approximately 30 total) and vegetation removal would be necessary throughout the project area. No full detours are anticipated. Standard traffic control measures would be employed, and emergency vehicles and private property owners will have access at all times.

3. **Does it appear that any feature of the project will generate significant public concern?**

Yes No Maybe (nature of concern):

4. **Will the project require approval or permits by other than a County agency?**

Yes No California Department of Transportation, California Department of Fish and Wildlife, U.S. Army Corps of Engineers, Central Valley Regional Water Quality Control Board, State Water Resources Control Board, California State Parks, Contra Costa Water District

5. **Is the project within the Sphere of Influence of any city?** No