

PERMIT APPLICATION NO. 19456



M348 South Fork Kaweah River Bridge Replacement Project

APPLICANT:
County of Tulare

September 27, 2019

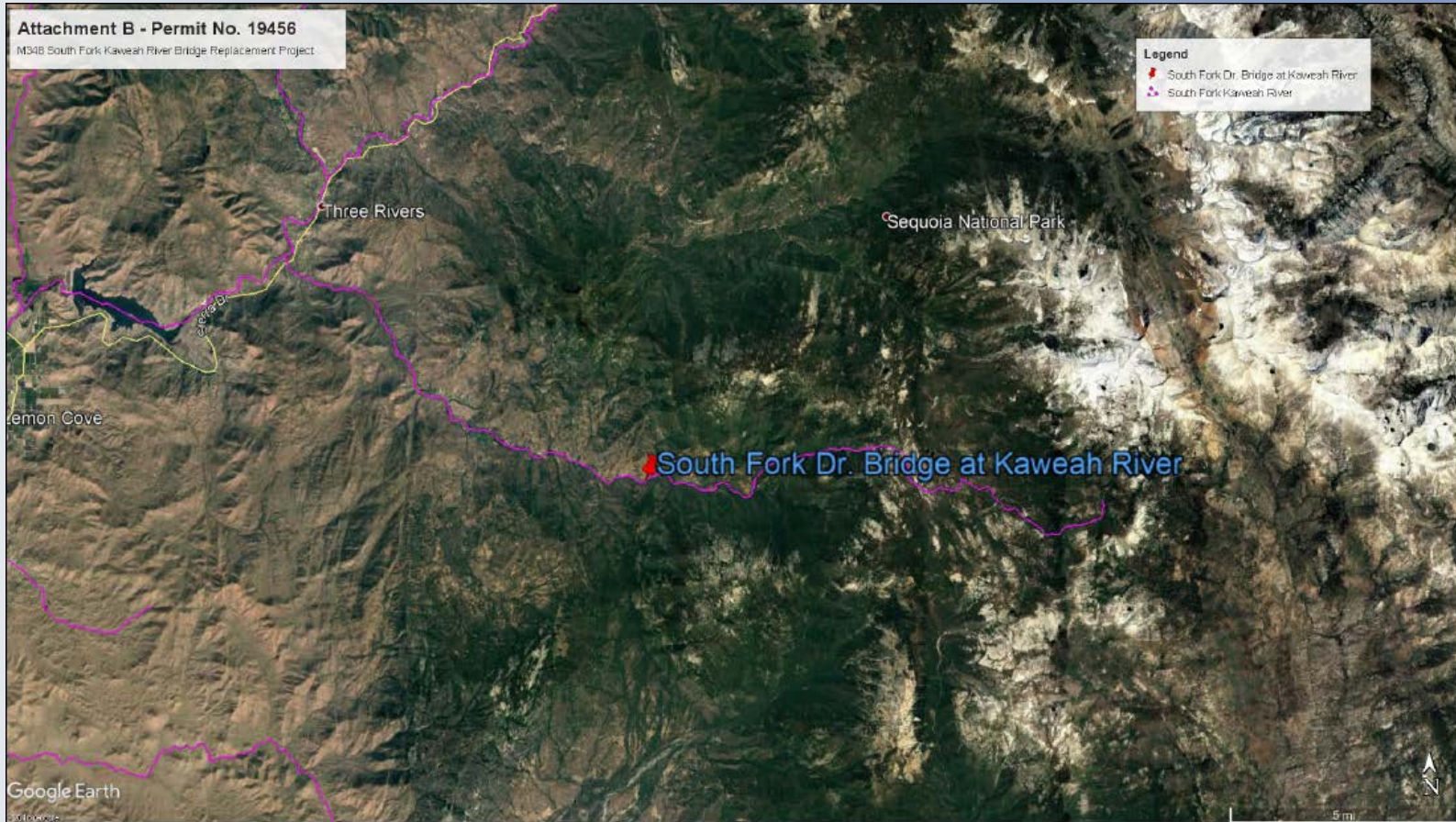
BOARD ACTION



Consider approval of Permit No. 19456:

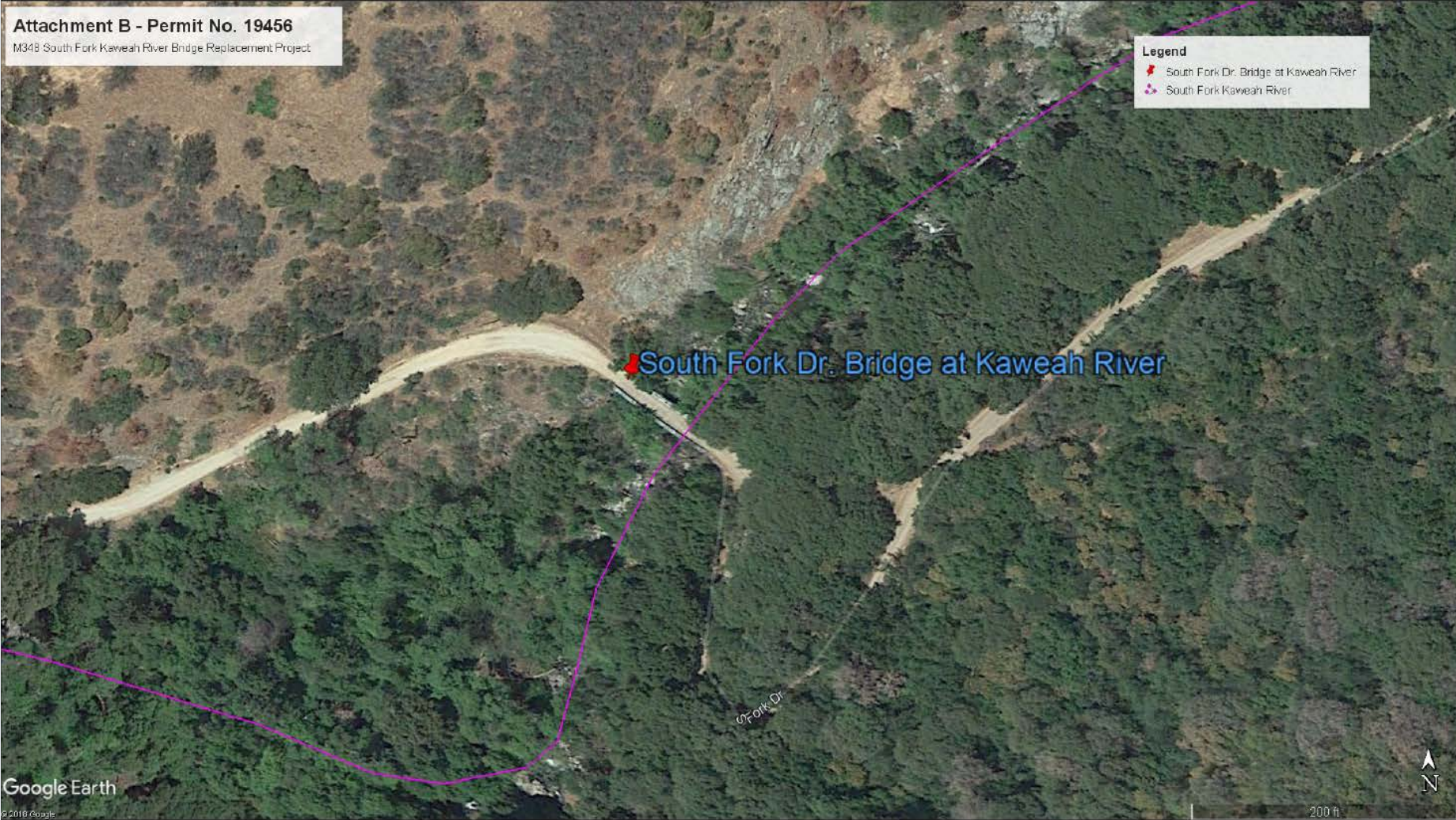
- ◎ To replace the existing South Fork Drive bridge with a single span cast-in-place prefabricated steel girder bridge with cast-in-place deck.

Project Location



- The project is located on M348 (South Fork Drive), a rural, mountain road over the South Fork of the Kaweah River, approximately 12 miles south east of the community of Three Rivers

Project Location



Project Location



South Fork Drive Bridge approach looking southeast

Project Location



South Fork Drive Bridge looking southeast

Project Location



Eastern abutment of the South Fork Drive Bridge looking upstream

PROJECT ANALYSIS



The Project components will consist of:

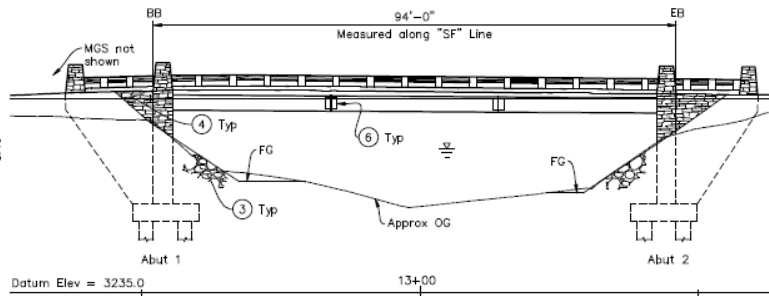
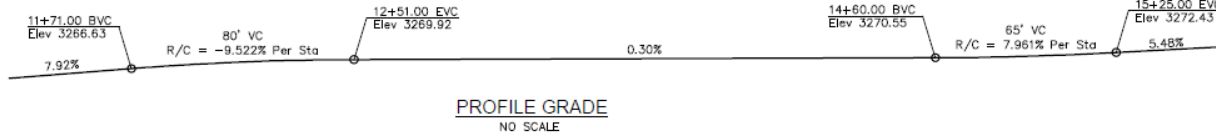
1. Construction of a single span prefabricated steel girder bridge with cast in place deck. The bridge will be 94-feet-long and will accommodate 1 travel lane without shoulders.
2. Realignment approximately 200 ft. of the approach roadway in each direction of the bridge in order to tie the existing roadway into the new bridge.
3. Placing Class 8 RSP in front of and on the sides of both abutments.
4. Removing the existing superstructure and abutments once construction of the new bridge is complete.

PROJECT DRAWINGS



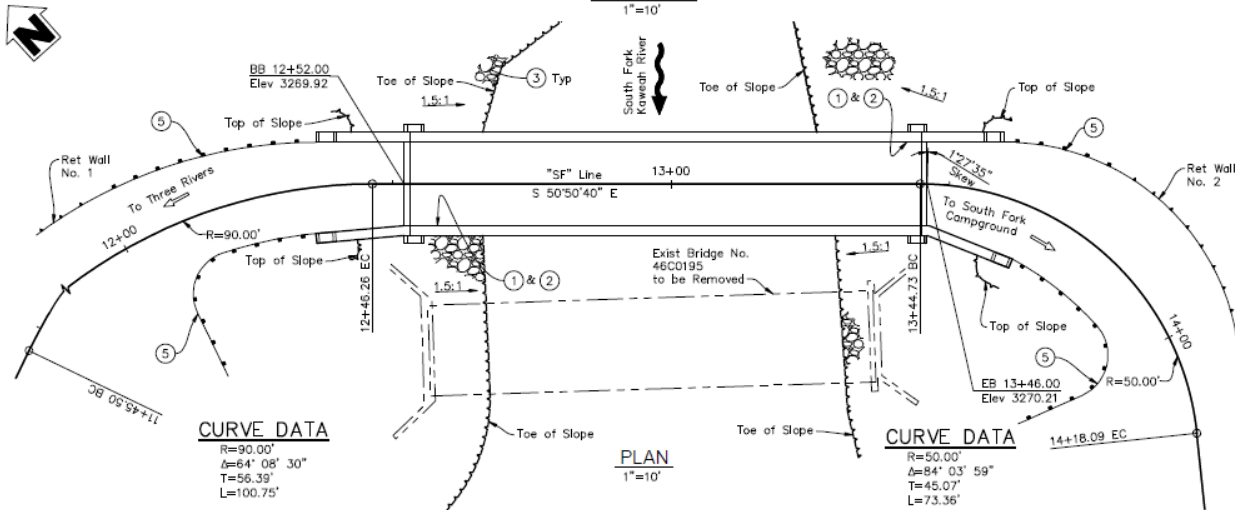
INDEX TO BRIDGE PLANS

Sheet No.	Title
S1	General Plan
S2	Deck Contours
S3	Foundation Plan
S4	Abutment Layout
S5	Abutment Details No. 1
S6	Abutment Details No. 2
S7	Abutment Details No. 3
S8	Typical Section
S9	Girder Layout
S10	Architectural Details
S11	Log of Test Borings



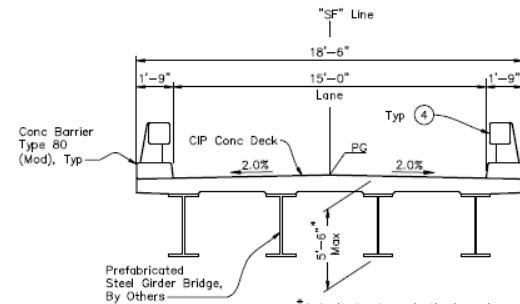
ELEVATION

1"=10'



CURVE DATA	
R=90.00'	
Δ=64° 08' 30"	
T=56.39'	
L=100.75'	

CURVE DATA	
R=50.00'	
Δ=84° 03' 59"	
T=45.07'	
L=73.36'	



TYPICAL SECTION

3/8"=1'-0"

Legend:

- ① Paint "Br No. 46XXXX"
 - ② Paint Year of Completion Stamp (Provided by County)
 - ③ Rock Slope Protection, see Road Plans
 - ④ Architectural Treatment, see "Architectural Details" sheet
 - ⑤ MGS, see Road Plans
 - ⑥ Optional Field Splice, actual field splice locations and details are the responsibility of the contractor.
- Indicates Q100 Highwater Elevation 3260.9'
- Existing structure
- For General Notes and Quantities, see "DECK CONTOURS" sheet.
- For Hydrologic Summary, Scour Data Table, and Pile Data Table, see "FOUNDATION PLAN" sheet.
- For Retaining Walls, see "RETAINING WALL NO. 1" and "RETAINING WALL NO. 2" plans.

Note:
The contractor shall verify all
controlling field dimensions before
ordering or fabricating any material.



90% SUBMITTAL

DATE	REVISIONS

TULARE COUNTY
RESOURCE MANAGEMENT AGENCY
3801 SOUTH MOORE BLVD.
VISALIA, CA 93277



GENERAL PLAN
MOUNTAIN ROAD 348 (M348) AT
SOUTH FORK OF THE KAWEAH RIVER
BRIDGE REPLACEMENT
TULARE COUNTY

SCALE	AS SHOWN
DESIGNED	SC
CHECKED	SC
DATE	7/14/20
FILE	7/14/20-A-SH-1000
DATE	07-29-2019

S1

14 of 36

HYDRAULIC ANALYSIS

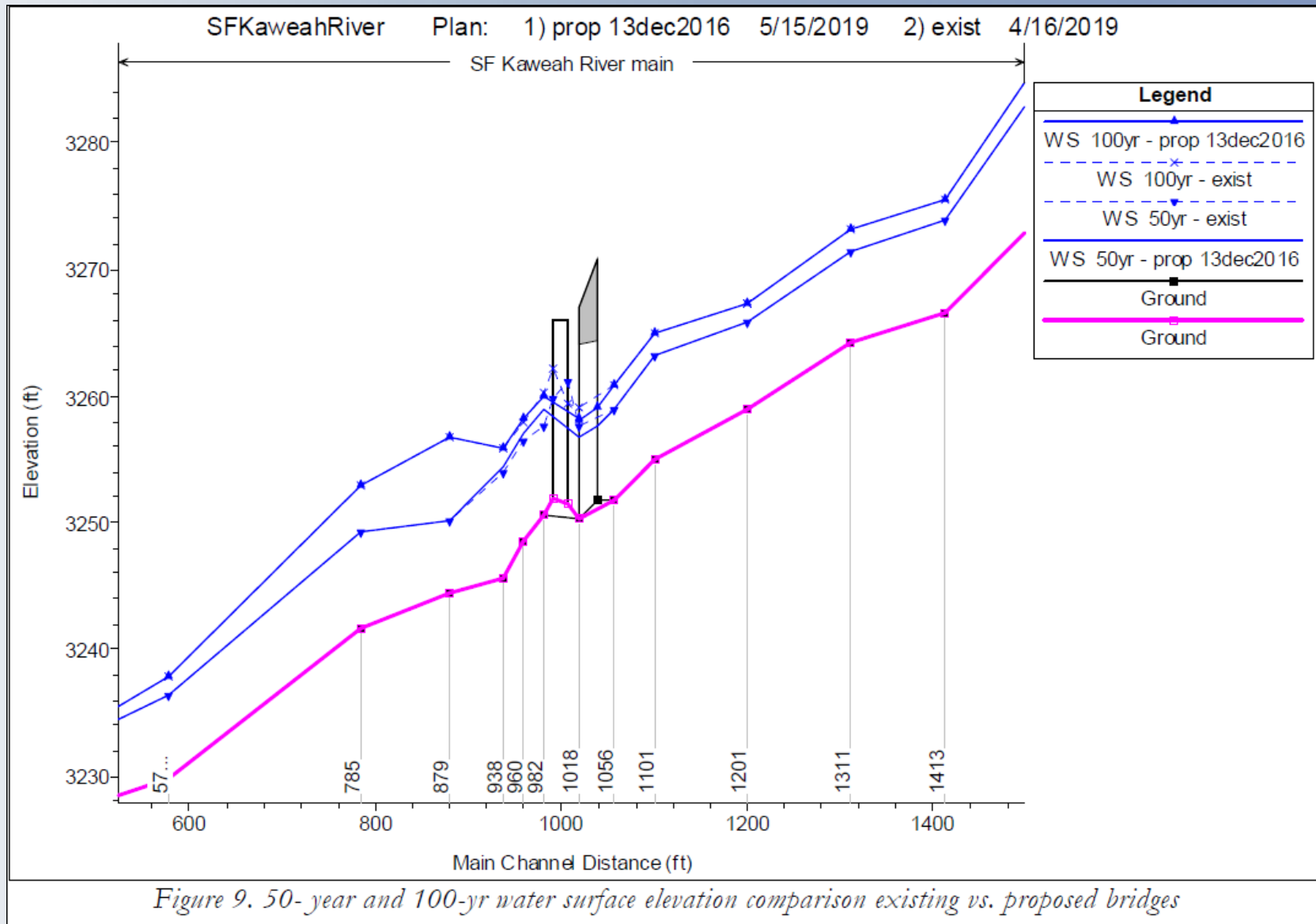


- ◎ A hydraulic model was developed to estimate the water surface elevations (WSEs) for both existing and proposed bridge conditions at the 100-year (10,060 cfs) event;

South Fork Kaweah River		
	Existing	Proposed
Design Flow (cfs)	10,060	
Water surface elevation (ft.)	3260.93	3260.85
Change in WSEs (ft.)	-0.08	

- ◎ The proposed bridge over the South Fork Kaweah River will have a minimum soffit elevation of 3,264.2 ft. which is 0.8 ft. higher than the exiting bridge. This elevation provides a 3.3 ft. clearance over the 100-year WSE. Because of the higher soffit elevation, there will be an increased flowage area under the bridge, thus reducing flood risk

HYDRAULIC ANALYSIS



AGENCY COMMENTS/ENDORSEMENTS



- ◎ An email confirmation from the U.S Army Corps of Engineers (USACE) has been received on September 10, 2019, for this application. The USACE Sacramento District Engineer has no comments or recommendations regarding flood control because the proposed work does not affect a federally constructed project;

CEQA CONCLUSIONS



- ◎ Staff has prepared a CEQA analysis, as included in the Staff Report. For information regarding staff's CEQA analysis, refer to Section 8.0 of the Staff Report.

STAFF RECOMMENDATION



Staff recommends that the Board:

- ◎ Adopt the CEQA Findings;
- ◎ Approve Permit No. 19456; and
- ◎ Direct the Executive Officer to take the necessary actions to execute the permit and file a CEQA Notice of Determination with the State Clearinghouse.

QUESTIONS



QUESTIONS

?

Presented by:

Nate Kibret, Permitting Section

Design Review:

Nate Kibret, Permitting Section

Environmental Review:

James Herota, Environmental Services Section

Document Review:

Gary W. Lemon, P.E., Permitting Section Chief

Michael C. Wright, P.E., Chief Engineer

Legal Review:

Sarah Backus, Staff Counsel