

THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS
BOARD ACTION SUMMARY

DEPT: Public Works

BOARD AGENDA #: *C-2

AGENDA DATE: July 11, 2017

SUBJECT:

Approval to Accept the Fifth Update in Accordance with Public Contract Code Sections 20134 and 22050 for Emergency Repairs on Rodden Road at Lesnini Creek to Replace a Failed Box Culvert

BOARD ACTION AS FOLLOWS:

No. 2017-388

On motion of Supervisor Withrow, Seconded by Supervisor Olsen
and approved by the following vote,

Ayes: Supervisors: Olsen, Withrow, Monteith, DeMartini, and Chairman Chiesa

Noes: Supervisors: None

Excused or Absent: Supervisors: None

Abstaining: Supervisor: None

1) Approved as recommended


2) Denied

3) Approved as amended

4) Other:

MOTION:

ATTEST:


ELIZABETH A. KING, Clerk of the Board of Supervisors

File No.

**THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS
AGENDA ITEM**

DEPT: Public Works

BOARD AGENDA #: *C-2

Urgent

Routine



AGENDA DATE: July 11, 2017

CEO CONCURRENCE:



4/5 Vote Required: Yes No

SUBJECT:

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STAFF RECOMMENDATIONS:

1. Accept the fifth update on the state of emergency repairs on Rodden Road at Lesnini Creek in accordance with Public Contract Code sections 20134 and 22050 to replace a failed box culvert.

DISCUSSION:

Rodden Road is designated as a major collector road within Stanislaus County, which provides access between Oakdale and Knights Ferry on the north bank of the Stanislaus River. A concrete box culvert carries Lesnini Creek under Rodden Road. The Stanislaus River is approximately 100 feet to the south of the culvert.

Stanislaus County is part of a Federal, State, and Local declaration for flood emergency, Federal Disaster CA 17-2, Local Declaration declared on February 14, 2017 and continued April 4, 2017.

The box culvert is a 5 feet wide by 8 feet tall concrete structure that passes under Rodden Road. This culvert is used to pass storm water from the drainage shed of Lesnini Creek, and at times Oakdale Irrigation tail water, under Rodden Road to the Stanislaus River.

Excessive flooding in February 2017 caused the Lesnini creek box culvert crossing at Rodden Road to be under-cut, causing the culvert floor to be uplifted and destroyed. The resulting pressure from the high flows of storm water under the culvert has heaved the bottom of the culvert upward breaking it apart, causing the structural integrity of the culvert to be compromised. The loss of the lateral support from the bottom of the culvert is causing both the walls and the ceiling of the culvert to deflect inward up to approximately 12 inches.

On approximately March 10, 2017, the Department of Public Works became aware of sinking in the pavement surface of the eastbound travel lane on Rodden Road between Gibbs Drive and Eaton Road. Upon investigation it was determined that the sinking was caused by the structural failing of a box culvert approximately 25 feet below the pavement surface.

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Caltrans representatives of the Operations of Emergency Services (OES) were notified and an onsite field meeting was held on March 24, 2017. After a field investigation by Caltrans it was determined that the box culvert had failed due to flooding and its condition was classified as emergency work.

At the time of Caltrans' inspection Rodden Road was still considered to be safe and was left open. The rain forecast did not show any precipitation in the upcoming weeks so in order to mitigate impacts as much as possible it was decided that there was time to survey the area, design plans, and start an environmental study of the project for the National Environmental Protection Act (NEPA). It was anticipated that the sinking would stabilize and provide time to put a project out to bid, but in April the road has continued to sink to the point that the road is now depressed in areas from 8 to 12 inches.

On May 2, 2017, the Board of Supervisors, in accordance with Public Contract Code Sections 20134 and 22050, approved the declaration of a local emergency and authorized Rodden Road to be closed.

Project Update:

The road closure of Rodden Road was put in place May 3, 2017. Five concrete barrier rails have been installed, two on the east side and three on the west side of Lesnini Creek. Six message boards are in place, as well as 18 fixed signs, alerting the travelling public to the road closure.

The Stanislaus River is running at a relatively high level of 1,800 cubic feet per second (cfs), at this time in 2016 it was running at 800 cfs. The high river level is backing up into the culvert and causing a greater potential for soil caving and collapse.

Pacific Gas & Electric (PG&E) has completed moving their power lines out of the way. PG&E has given AT&T permission to use their poles temporarily during the emergency.

AT&T has completed their relocations of both the copper lines and the fiber optic lines. The copper relocation was complete on June 23, 2017 and the fiber optic lines were relocated the evening of June 26, 2017.

A 96-inch reinforced concrete pipe for the culvert repair has been ordered and is awaiting delivery. Installation of a temporary downstream coffer dam was installed during the week of June 5, 2017 to prevent water from entering the culvert.

With all the utility relocations finally complete, the excavation and demolition of the old box culvert was completed on June 30, 2017. The bottom of the excavation was inspected and approved by our soils engineer that same day. The new 96-inch pipe was installed July 5 through July 7, 2017.

All permit issues have been addressed with the resource agencies.

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POLICY ISSUE:

Public Contract Code Section 22050 (C)(1) requires staff to report on the emergency every 14 days until the emergency is terminated.

FISCAL IMPACT:

Federal Funding is available from Federal Highways Administration (FHWA) administered through Caltrans for Disaster CA 17-2. The Federal reimbursement rate is 88.53%, the State of California OES reimburses half of the local match of 11.47%, which leaves the Roads fund with the remainder of the match. Funding is available in the Fiscal Year 2016-2017 Public Works Road Projects Budget.

Cost of recommended action:		\$ 1,000,000
Source(s) of Funding:		
FHWA	\$ 885,300	
California OES Funds	57,350	
Roads Fund	57,350	
Funding Total:		1,000,000
Net Cost to County General Fund		\$ -

Fiscal Year:

2016-2017
No

Budget Adjustment/Appropriations needed:

BOARD OF SUPERVISORS' PRIORITY:

The recommended action is consistent with the Board of Supervisors' priorities of A Well Planned Infrastructure System and A Safe Community by replacing the damaged culvert in a timely fashion in order to protect the traveling public.

STAFFING IMPACT:

Existing Public Works staff will oversee the construction of the Emergency Project.

CONTACT PERSON:

Matt Machado, Public Works Director

Telephone: (209) 525-4153

ATTACHMENT(S):

None