

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

DEPT: Public Works

BOARD AGENDA:5.C.1
AGENDA DATE: February 6, 2018

SUBJECT:

Approval to Accept an Updated Report for the Lesnini Creek Emergency Repairs on the Rodden Road Project

BOARD ACTION AS FOLLOWS:

RESOLUTION NO. 2018-0068

On motion of Supervisor Chiesa , Seconded by Supervisor Monteith
and approved by the following vote,

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

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:5.C.1
AGENDA DATE: February 6, 2018

CONSENT:

CEO CONCURRENCE:

4/5 Vote Required: No

SUBJECT:

Approval to Accept an Updated Report for the Lesnini Creek Emergency Repairs on the Rodden Road Project

STAFF RECOMMENDATION:

1. Accept an updated report for the Lesnini Creek Emergency Repairs on the Rodden Road Project.

DISCUSSION:

Rodden Road is designated as a major collector road within Stanislaus County, it 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 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.

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 adequate time to put a project out to bid, but in April the road continued to sink to the point that the road was 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 final update to the construction portion of the Lesnini Creek emergency repair project was accepted by the Board of Supervisors on October 17, 2017. Lesnini Creek was an emergency project that Public Works estimated the costs of repairs at \$1,000,000. The October 17, 2017 project estimate was exceeded due to the Stanislaus River level running 8 feet higher than usual and covered a sizeable portion of our site in water. Due to emergency projects being force account work, where we pay the contractor time and materials with a fixed profit, the final totals from the contractor did not come in until December 1, 2017. The higher river level increased costs due to the following:

- Renting, installing, maintaining and demobilizing an aqua dam;
- Installing pumps, de-watering the site, and maintaining a pump in a pit with a float to keep the area de-watered from seepage; and
- The channel had already been cleared and grubbed when the water back flowed into the site causing saturation and sloughage. The sides became too steep and unstable; gabion cages had to be installed to retain the sides and to prevent future erosion.

Current activities for the project are related to the environmental process. We are working with the resource agencies to obtain the necessary permits as well as establishing the mitigations necessary to reduce our environmental impact. This is part of the emergency project process for Federal and State declared emergencies. Once we have the environmental process complete we are eligible for reimbursement of the expenditures made.

The NEPA environmental clearance will be granted upon completion of the technical studies outstanding. The Biologic Assessment (BA) is the technical study with the longest lead time, with an estimated completion in spring 2018, and is being prepared by Basecamp Environmental, our environmental consultant. The other outstanding technical studies are the Air Quality report, Initial Site Assessment, Flood Plain studies and the Cultural studies.

The additional construction elements raised the project construction cost to \$1,208,171.55. There are still outstanding mitigations and project closeout costs that are being incurred. Public Works estimates that these costs will increase the project delivery costs to approximately \$1,400,000. Public Works will report back to the Board of Supervisors if the estimated budget changes or after the environmental work is complete and the project environmental documentation is finalized.

POLICY ISSUE:

Under California Government Code section 23005, Public Works is acting as an agent of the County, and therefore should keep the Board of Supervisor's informed of all actions that continue to be taken to complete the work and secure funding for this stabilized emergency situation.

FISCAL IMPACT:

Total project cost is now estimated to be \$1.4 million. 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 2017-2018 Public Works Road Projects Adopted Budget.

BOARD OF SUPERVISORS' PRIORITY:

The recommended actions are consistent with the Boards' priority of *Delivering Efficient Public Services and Infrastructure* by replacing the damaged culvert in a timely fashion in order to protect the traveling public.

STAFFING IMPACT:

Existing Public Works staff oversaw the construction of the Emergency Project.

CONTACT PERSON:

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David Leamon, Deputy Director

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