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Agenda Date: 10/24/2017

Agenda Placement: 60

## NAPA COUNTY BOARD OF SUPERVISORS Board Agenda Letter

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**TO:** Board of Supervisors

**FROM:** Steven Lederer - Director of Public Works  
Public Works

**REPORT BY:** Mallika Ramachandran, Engineering Manager - 259-8194

**SUBJECT:** Earthquake Minor Structure Repairs - Authorize Program Supplement Agreement No. 039-F

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### **RECOMMENDATION**

Director of Public Works requests adoption of a resolution authorizing the Public Works Director or designee to sign California Department of Transportation (Caltrans) Program Supplement Agreement No. 039-F to administering Agency-State Agreement No 04-5921F15 for Minor Structures Repairs for:

1. Cuttings Wharf Culvert (DAF No. RAC-NAP-014-1);
2. Silverado Trail Bridge (21C0015) (DAF No. RAC-NAP-020-1);
3. Silverado Trail Culvert (DAF No. RAC-NAP-024-1); and
4. Silverado Trail Culvert (DAF No. RAC-NAP-025-1).

### **EXECUTIVE SUMMARY**

Among many others, the four structures which are the subject of this item were damaged during the 2014 Napa Earthquake, and are eligible for Federal Highway Administration (FHWA) funding. A project to repair the four sites has been qualified for Federal funding. The purpose of the Program Supplement Agreement presented herein for approval is to set up an instrument by which the California Department of Transportation (Caltrans) can reimburse the County for the project.

### **FISCAL IMPACT**

Is there a Fiscal Impact? Yes

Is it currently budgeted? No

What is the revenue source? There is currently no budget for these four projects. Staff is in the

process of putting together project budgets for the design phase of various Earthquake Road repair projects to be presented to the Board of Supervisors for consideration in the near future. These four sites were damaged in the 2014 earthquake, and qualified for Federal Highway Administration (FHWA) funds at a 88.53% Federal reimbursement ratio. The total preliminary engineering (PE) cost estimate for these four projects is \$247,000, with the county's portion being \$78,793, and the Federal portion being \$168,207. While the Federal portion of \$168,207 has been approved by Caltrans, only \$80,734 is available at this time for funding. When additional federal funding becomes available, the additional \$91,194 will be obligated. While the additional funding is approved, the availability of those funds is subject to decision making at the Federal level, and as such the exact timing is unknown at this point.

Is it Mandatory or Discretionary? Discretionary

Discretionary Justification: Caltrans Program Supplemental Agreement No. 039-F will allow the County to receive the Federal Highway Administration (FHWA) funds in the amount of \$168,207 to complete the design phase for the four minor structure repair projects.

Is the general fund affected? No

Future fiscal impact: Once the Program Supplemental Agreement is approved and the Board approves the design phase budget, the design of these projects will begin. The total estimated project cost including design, environmental clearance, right-of-way, construction engineering and construction is approximately \$530,269. These projects are eligible for a Federal Reimbursement of 88.53% leaving the county's portion of \$111,284 for preliminary engineering and construction. At this time, only the budget for the PE phase has been approved by Caltrans. There is a 90 day deadline to sign and return the Program Supplement Agreement to Caltrans.

Consequences if not approved: The program supplement agreements must be approved in order to provide a mechanism by which the County will be reimbursed with Federal Highway Administration funds for each project.

Additional Information: It is anticipated that PE costs will occur in Fiscal Year 2017/2018 to Fiscal Year 2018/2019. Construction is anticipated to begin in Fiscal Year 2018/2019 and continue into Fiscal Year 2019/2020. After completion of the preliminary engineering phase, CEQA/NEPA clearance and final design, staff will submit a request for authorization for the construction phase funds. All other future impact is limited to routine road maintenance as is currently performed.

## **ENVIRONMENTAL IMPACT**

ENVIRONMENTAL DETERMINATION: The proposed action is not a project as defined by 14 California Code of Regulations 15378 (State CEQA Guidelines) and therefore CEQA is not applicable.

**BACKGROUND AND DISCUSSION**

These four structures (among many others) were damaged in the 2014 Earthquake:

1. Cuttings Wharf Culvert DAF No. RAC-NAP-014-1,
2. Silverado Trail Bridge (21C0015) DAF No. RAC-NAP-020-1,
3. Silverado Trail Culvert DAF No. RAC-NAP-024-1,
4. Silverado Trail Culvert DAF No. RAC-NAP-025-1).

The projects qualify for Federal Highway Administration (FHWA) funds at a 88.53% Federal reimbursement ratio, though much of the preliminary work to this point is not reimbursable. The total estimated project cost is \$530,269 (Federal share of \$418,985 and county share of \$111,284, which includes the non-reimbursable costs). On May 10, 2017, the FHWA approved the Damage Assessment Forms (DAF) and has issued the Program Supplement Agreement. The purpose of the Program Supplement Agreement is to set up an instrument by which the California Department of Transportation (Caltrans) can reimburse the County for the project.

Each project is described in more detail below:

**Cuttings Wharf Culvert at Mile Post Marker 1.75 DAF No. RAC-NAP-014-1**

1. Cuttings Wharf Culvert is an existing 60" wide by 30" tall elliptical corrugated metal pipe (CMP) with stone masonry headwall, and concrete weir wall located at Mile Post Marker 1.75 on Cuttings Wharf Road. The concrete weir wall collapsed and the headwall delaminated at the culvert inlet. The repair solution is to replace the collapsed weir walls, pressure grout the delaminated headwall, and repair the pavement.

**Silverado Trail Bridge (21C0015) Mile Post Marker 1.47 DAF No. RAC-NAP-020-1**

1. Silverado Trail Bridge (21C0015) is an existing four span concrete bridge with concrete piers, beams, abutments, and wing walls, located at Mile Post Marker 1.47 on Silverado Trail. The bridge has vertical cracks at the exterior north and south walls and the northwest wing wall. The repair solution is to pressure grout the cracks.

**Silverado Trail Culvert Mile Post Marker 0.16 DAF No. RAC-NAP-024-1**

1. Silverado Trail Culvert is an existing two cell (60" tall by 72" wide) concrete box culvert located at Mile Post Marker 0.16 on Silverado Trail. The culvert has vertical cracks at the deck, and exterior/interior wall connections. The repair solution is to remove the damaged portion of the culvert, replace with a new concrete section, drill and bond dowel the new concrete section to the existing culvert, and repair the pavement.

**Silverado Trail Culvert Mile Post Marker 10.64 DAF No. RAC-NAP-025-1**

1. Silverado Trail Culvert is an existing 84" tall by 108" wide concrete box culvert and masonry stone arch culvert located at Mile Post Marker 10.64 on Silverado Trail. The culvert has cracks at the southwest stone masonry wing wall. The repair solution is to construct a concrete wall behind the

damaged wing wall and tie to the new wall with drill and bond dowels and pressure grouting cracks.

**SUPPORTING DOCUMENTS**

A . Program Supplement Agreement Resolution

CEO Recommendation: Approve

Reviewed By: Bret Prebula