



BOARD OF SUPERVISORS
AGENDA LETTER
Clerk of the Board of Supervisors
105 E. Anapamu Street, Suite 407
Santa Barbara, CA 93101
(805) 568-2240

Agenda Number:

Department Name: Public Works
Department No.: 054
For Agenda Of: February 14, 2017
Placement: Administrative
Estimated Tme: N/A
Continued Item: No
If Yes, date from:
Vote Required: Majority

TO: Board of Supervisors
FROM: Department Director: Scott D. McGolpin, Public Works Director, 568-3010
Contact Info: Chris Sneddon, Deputy Director, Transportation 568-3064
SUBJECT: Ortega Ridge Road Slide Repair Project; County Project No. 820672; First Supervisorial District

County Counsel Concurrence

As to form: Yes

Auditor-Controller Concurrence

As to form: Yes

Other Concurrence: Risk Management

As to form: Yes

Recommended Actions:

That the Board of Supervisors:

- a) Approve and authorize the Chair to execute the attached Construction Cooperative Agreement with the California Department of Resources Recycling and Recovery, an agency of the State of California, to allow for the construction of Ortega Ridge Road Slide Repair Project; County Project No. 820672 in the First Supervisorial District;
- b) Authorize the Director of Public Works to advertise for bids to construct the Project; and
- c) Find that the proposed project consists of the operation, repair, maintenance, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that previously existing, including but not limited to existing highways and streets, sidewalks, gutters, bicycle and pedestrian trails, and similar facilities, and that the proposed project is therefore exempt from California Environmental Quality Act pursuant to 14 CCR 15301(c) and approve the filing of the attached Notice of Exemption on that basis.

Summary Text:

This item is on the agenda to: 1) Request approval and execution of the Construction Cooperative Agreement (CCA) with the California Department of Resources Recycling and Recovery (CalRecycle); 2) Authorize the Director of Public Works to advertise the Project.

The proposed project is located on Ortega Ridge Road, approximately 850 feet north of Greenwell Avenue, near Summerland, CA. The County of Santa Barbara Department of Public Works is working together with CalRecycle to design a long-term solution to the differential settlement and cracking of the

roadway surface and creep of the supporting embankment at the project site. The project proposes to construct a mechanically stabilized earth (MSE) wall utilizing tire-derived aggregate (TDA) as a lightweight fill material. This project will reduce the load imposed on the underlying earthen materials and provide lateral resistance to the roadway fill. Approximately 225 linear feet of existing roadway and supporting embankment are proposed for replacement. Currently, a temporary roadway realignment has been constructed, allowing traffic to be maintained through this section utilizing an alternating single lane stop-controlled travel way.



View of Ortega Ridge Road, looking east, showing temporary traffic controls. Area of roadway that is delineated by orange channelizers continues to differentially settle, and has continued into left-hand lane.

Sensors will be installed during and at the completion of construction to monitor performance of the design and construction, and will be used to modify future designs of this nature. The Public Works Department will return to your Board to request the execution of a site access agreement with CalRecycle to allow for this monitoring to be conducted.

In March of 2016, your Board adopted a resolution to establish authority to submit an application to CalRecycle to secure grant funding for use of TDA on County projects. The Department subsequently applied for and received partial funding for this project through a competitive federal program administered by CalRecycle, created to increase the use of scrap tires in engineering applications. Your Board's approval of this Construction Cooperative Agreement will allow CalRecycle to provide Pilot Project Funding to develop the design and construction of this project repair, in coordination and support of the County of Santa Barbara.

The attached CCA is discussed below and is recommended for execution to formalize each partnering agency's responsibilities.

Construction Cooperation Agreement

The CCA was developed by the County of Santa Barbara and CalRecycle, collectively referred to as the “Parties”. The Agreement between the Parties is necessary for the Ortega Ridge Road Slide Repair Project to be designed and constructed using the Pilot Project Funding made available by CalRecycle.

Some of the County responsibilities in the Construction Cooperative Agreement include:

- To serve as Responsible Agency for the project for purposes of the California Environmental Quality Act (CEQA).
- Provide preliminary engineering, environmental, right-of-way, utility and construction engineering services.
- To bid the project for construction, award a construction contract, and serve as administering agency for construction and management of the scope, cost and schedule of the project to complete construction.
- Assume day-to-day maintenance responsibilities of the completed project.

Some of CalRecycle's responsibilities in the Construction Cooperative Agreement include:

- Provide engineering design and stability analysis services through its contractor that are necessary to design the Project utilizing an MSE wall using TDA as lightweight fill.
- Provide construction oversight assistance through its contractor for the construction of all items of work related to utilizing an MSE wall using TDA as lightweight fill.
- To provide reimbursement funding for the bid items assigned to CalRecycle, including but not limited to: excavation of soils; placing the TDA in the fill; geosynthetic reinforcement; geotextile fabric; constructing the MSE wall; compaction of soil backfill; placement of crushed rock; installation of data collection instrumentation; drainage system for mechanically stabilized TDA wall; and, placing the engineered fill cover material.

Background:

This section of Ortega Ridge Road was re-aligned during the 1950's. This work included raising the profile of the roadway significantly by bringing in locally-derived embankment materials to fill an existing natural drainage near the top of the ridgeline where Ortega Ridge Road is situated. The maximum fill height was approximately 23 feet, and was composed of on-site cut materials, primarily highly expansive clay marine mudstones of the Rincon Shale Formation. The Rincon Shale Formation is susceptible to shallow sloughing and soil creep, with failure primarily occurring in the upper 15 feet. In 1969, further modification of the roadway was conducted, raising the profile 2-3 additional feet.

Repairs to the roadway in the past have included shallow excavation and replacement of the asphalt roadway section, re-paving (overlying) the roadway, filling the cracks with asphalt sealant, and reconstruction of the over-side drains and asphalt concrete drainage dike. These actions, while providing initial increased roadway smoothness, have added additional weight to the roadway and top of the embankment. Over the decades, this additional weight and has contributed to the differential settlement of the roadway and slow creep of the support embankment. A geological investigation conducted in 2006 determined the existing subgrade and embankment materials within the project site were overly saturated and had a low relative compaction. The proposed project will help mitigate these conditions and bring the roadway back to full service.

Pursuant to the County's CEQA guidelines, the Department of Public Works has determined that this project is exempt from further environmental review. With approval of this Board action, the County's Notice of Exception will be approved for this project and no further action will be necessary.

Fiscal and Facilities Impacts:

Budgeted: Yes

Fiscal Analysis:

<u>Funding Sources</u>	<u>Total One-Time Project Cost</u>
CalRecycle TDA Grant Funding	\$133,835
CalRecycle Pilot Project Funding	\$330,800
Measure A Gas Tax	\$123,539
Total	\$588,174

Narrative:

Project construction will be funded through a combination of Measure A Sales Tax, 2015-16 TDA Grant Program funds (County has previously obtained authority for these grant funds in the amount of \$133,835.00) and Pilot Project funding available through CalRecycle. This CCA will authorize CalRecycle to utilize the aforementioned Pilot Project Funding on the Project. In the fiscal analysis section above, preliminary cost estimates were used to anticipate the funding responsibilities of the County and CalRecycle. These costs will be reevaluated prior to advertisement of the project for construction. These funds are budgeted in Dept. 054, Fund 0017, Org. 0600, Program 2830, Account 7510.

Special Instructions:

Please forward the following to Public Works, Transportation, Attn: Gena Valentine Felix, x 3064:

1. A certified, stamped Minute Order approving these Board actions.
2. Two duplicate original fully executed contracts (one original fully executed contract to remain on file with the Clerk of the Board)

Attachment:

Attachment A: Construction Cooperative Agreement (3 original)

Attachment B: Notice of Exemption

Authored by:

Christian Doolittle, PG, CEG, Project Manager, 739-8777