



County of Santa Cruz Board of Supervisors

Agenda Item Submittal

From: Community Development and Infrastructure

Subject: Request for Proposals (RFP) for professional geotechnical engineering services for nine (9) sites from the 2022-2023 Storm Events

Meeting Date: June 24, 2025

Formal Title: Approve Request for Proposals for professional geotechnical engineering services for the 2022-2023 storm events located at Bear Creek Road PM 2.39 & PM 4.19, China Grade PM 0.62, Eureka Canyon Road PM 3.50 & PM 4.75, Hazel Dell Road PM 2.64 & PM 2.69, Ice Cream Grade PM 1.24 and Mountain View Road PM 0.49, and take related actions

Recommended Actions

1. Approve the Request for Proposals for professional geotechnical engineering services for the 2022-2023 storm events located at Bear Creek Road PM 2.39 & PM 4.19, China Grade PM 0.62, Eureka Canyon Road PM 3.50 & PM 4.75, Hazel Dell Road PM 2.64 & PM 2.69, Ice Cream Grade PM 1.24 and Mountain View Road PM 0.49;
2. Authorize the Department of Community Development and Infrastructure to begin distribution of the Request for Proposals;
3. Direct the Clerk of the Board to advertise the Notice of Request for Proposals for fourteen days beginning June 29, 2025; and
4. Direct the Department of Community Development and Infrastructure to return on or before September 30, 2025, with a recommendation for award of contract.

Executive Summary

Community Development and Infrastructure has a need for a professional geotechnical engineering consultant for the 2022-2023 storm events located at Bear Creek Road PM 2.39 & PM 4.19, China Grade PM 0.62, Eureka Canyon Road PM 3.50 & PM 4.75, Hazel Dell Road PM 2.64 & PM 2.69, Ice Cream Grade PM 1.24 and Mountain View Road PM 0.49. A Request for Proposals (RFP) is needed to start the process of hiring a consultant.

Discussion

During the 2022-2023 storm events, the County experienced heavy rains causing roadway and shoulder slip-outs at multiple sites throughout the County's maintained roadway network.

The County of Santa Cruz, Department of Community Development & Infrastructure is seeking proposals for geotechnical engineering services to aide in the design of repairs for storm damage sites located on Bear Creek Road PM 2.39 & PM 4.19, China Grade PM 0.62, Eureka Canyon Road PM 3.50 & PM 4.75, Hazel Dell Road PM 2.64 & PM 2.69, Ice Cream Grade PM 1.24 and Mountain View Road PM 0.49. Descriptions of the damage in addition to the anticipated repairs for the sites are described below.

1. Bear Creek Road PM 2.39 – Damage located at this site was due to heavy rains

carrying an exorbitant amount of debris into a deep, 24" diameter corrugated metal pipe which was damaged and 20 foot section collapsed on north end of the pipe. The complete pipe needs to be replaced using a bore-and-jack method with a concrete headwall at the inlet and rock dissipation at the outlet.

2. Bear Creek Road PM 4.18 - Damage located at this site was due to heavy rains carrying an exorbitant amount of debris and a fallen tree destroyed a portion of a 48" diameter corrugated metal pipe. The complete pipe needs to be replaced using a bore-and-jack method with a concrete headwall at the inlet and rock dissipation at the outlet.
3. China Grade PM 0.62 - Heavy rains overwhelmed the creek culvert at post mile 0.62, causing debris to block the inlet and eventually destroy the culvert and road prism above. Preliminary assessment of the repairs needed consisted of a open bottom arch culvert with concrete headwalls, drainage improvements, roadway reconstruction, erosion control and revegetation.
4. Eureka Canyon Road PM 3.50 – a 35 l.f. damage located at this site appears that heavy rains caused water to run over the roadway and down the embankment. The saturated soils could not handle the volume of run-off causing the road embankment to lose stability and slip out along with a tree to fall damaging the roadway. This site is designated to be repaired using a rock slope protection (RSP) gravity wall along with drainage improvements, roadway reconstruction, erosion control and revegetation.
5. Eureka Canyon Road PM 4.75 - a 20 l.f. damage located at this site appears that heavy rains caused water to run over the roadway and down the embankment. The saturated soils could not handle the volume of run-off causing the road embankment to lose stability and slip out along with a tree to fall damaging the roadway. This site is designated to be repaired using a rock slope protection (RSP) gravity wall along with drainage improvements, roadway reconstruction, erosion control and revegetation.
6. Hazel Dell Road PM 2.64 - Heavy rains and saturated soils caused a 30 linear feet roadway/embankment slipout at this site. Overhead utilities are present. Preliminary assessment of the repairs needed consisted of a soldier pile retaining wall with timber lagging, storm drain inlet, pipe, and outfall, drainage improvements, roadway reconstruction, erosion control and revegetation.
7. Hazel Dell Road PM 2.69 - Heavy rains and saturated soils caused a 20 linear feet embankment slipout at this site. Overhead utilities are present. Preliminary assessment of the repairs needed consisted of a soldier pile retaining wall with timber lagging, drainage improvements, roadway reconstruction, erosion control and revegetation.
8. Ice Cream Grade PM 1.24 - Heavy rains overwhelmed the creek culvert at post mile 1.24 causing debris to block the inlet and eventually destroy the inlet side of the culvert and a portion of the road prism above. Preliminary assessment of the repairs needed replacement of the culvert with a large diameter pipe, concrete headwalls, drainage improvements, roadway reconstruction, erosion control and revegetation.

9. Mountain View Road PM 0.49 - Heavy rains and saturated soils caused a 30 linear feet embankment slipout at this site. Overhead utilities are present. Preliminary assessment of the repairs needed consisted of a reinforced concrete crib retaining wall, drainage improvements, roadway reconstruction, erosion control and revegetation.

Financial Impact

The primary funding source for the repair of these storm damage sites is from the Federal Highway Administration (FHWA) at a maximum of 88.53 percent for federal roads. The remaining funds will be provided by the County local match along with any disallowed costs from local transportation funds, debt-financed, and/or reductions in current transportation projects or operations.

Consulting firm services must comply with the latest requirements of the Caltrans Local Assistance Procedures Manual (LAPM), Federal, State, and local regulations.

These projects are budgeted in the Approved Fiscal Year 2025-26 Budget under the Road Fund for 2022-2023 Winter Storms GL 621223/62330.

Strategic Initiatives

Equity Framework - County Facilities & Infrastructure
Operational Plan - Reliable Transportation
Climate Action - Transportation

Submitted By:

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Recommended By:

Carlos J. Palacios, County Executive Officer

Artificial Intelligence Acknowledgment:

Artificial Intelligence (AI) did not significantly contribute to the development of this agenda item.