



## Staff Report

**TO:** Board of Harbor Commissioners

**FROM:** Anita Pyle, Interim Director of Operations/John Moren, Interim General Manager

**DATE:** April 17, 2019

**SUBJECT:** Pillar Point Harbor West Trail Erosion Protection Project Update and Proposal for Board Consideration

**Recommendation/Motion:**

Receive an update presentation from the San Mateo County Harbor District's (District) design/engineering consultant GHD regarding progress on the West Trail Erosion Protection Project; Consider motion: Approve consultant proposal to continue design/engineering and permitting work with an emphasis on the living shoreline alternative.

**Policy Implications:**

Consistent with the District's ongoing efforts to provide long term stability, functionality and safe public use of the West Trail while protecting natural resources and guaranteeing access for emergency vehicles.

**Fiscal Implications/Budget Status:**

The current Phase II agreement with GHD has \$21,785 remaining. The proposal under consideration would increase design/engineering and permitting costs by \$618,145, not to exceed \$639,930.

**Background:**

Initially, in 2012 GHD was contracted to develop a Draft Condition Survey Report which identified eroded areas along the West Trail. In 2014 GHD was contracted to provide environmental services, prepare construction documents and provide bidding and construction support services for the West Trail Project. While certain elements of this project were completed, the entire project was not finalized, as the District Board, in response to Coastal Commission actions, diverted efforts to an emergency repair of the West Trail at the drainage culvert outlet.



The culvert under the West Trail was eroded to the point of rendering the trail unsafe for public use. The California Coastal Commission provided the District with an Emergency Coastal Development Permit (ECDP) for the Emergency West Trail Repairs in July 2015. This was a temporary repair approval with the understanding that the District would act to develop a plan to design a long-term method to protect the entire shoreline of the West Trail.



The emergency Culvert Repair Project was completed in February 2016 and the entire West Trail was re-opened for public use.



In April 2016, the Board approved a contract with GHD for an amount not to exceed \$184,086.00 for Phase I of the Pillar Point Harbor West Trail Erosion Protection Project, which included identifying shoreline protection alternatives. After multiple public meetings and Board discussion, the sculpted concrete soil nail wall alternative was decided upon, with later beach replenishment.

In September 2017 the Board authorized the General Manager to execute a Work Directive with GHD for Phase II, not to exceed \$249,722, which included final design, engineering, permitting, bid documents and construction support services for erosion protection of the entire threatened trail shoreline.

The upper concrete swale will also be addressed. The swale channels rain water to the mouth of the down pipe and has suffered damage in several locations. The original ECDP did not allow work to be done north of the bottom drain elbow. The Phase II design will include re-lining this concrete swale and further repair of the down-pipe top funnel, thus, returning full function. Phase II, which is in progress now, will also address the hillside adjacent to the trail with the planting and stabilization of sustainable native vegetation.



Pursuant to direction from the California Coastal Commission, District consultant GHD is re-evaluating the alternatives to prevent further trail erosion, with an emphasis on living shoreline and minimal hard armoring.

**Summary/Recommendation:**

Motion: Consider approval of GHD consultant's proposal to continue design/engineering and permitting work with an emphasis on the living shoreline alternative.

**Attachments:**

1. [GHD Project Update Presentation](#)
2. [GHD Proposal](#)