

FLOOD ZONE 3 ADVISORY BOARD MEETING

JULY 9, 2024

Staff Report

Item 1. Approval of Meeting Minutes: April 9, 2024

Review April 9, 2024 minutes at this link: <https://marinflooddistrict.org/meetings/zone-3-advisory-board-meeting-april-9-2024/#/tab-minutes>

Recommended Action: Approve draft minutes of April 9, 2024

Item 2. Open Time for Items Not on the Agenda

Comments will be heard for items not on the agenda (limited to three minutes per speaker).

Item 3. Engineer's Report for Zone 3 Marin City Projects (Information Item)

A. Marin City Stormwater Plan (Judd Goodman)

Background: The Marin City Stormwater Plan is aimed at reducing flood risk in Marin City, an unincorporated neighborhood near Richardson Bay. The goal of the Plan is to understand existing flooding conditions and identify potential solutions that enhance flood resilience in Marin City while accounting for community priorities. The Plan will pinpoint areas for flood risk reduction, drainage improvement, and preservation of public access. It will provide detailed recommendations for potential projects that local, regional, state, or federal agencies could implement in the future. Additionally, the plan will support grant funding applications necessary for project implementation. For more information on the Marin City Stormwater Plan, including a summary of completed Marin City Stormwater Task Force and Community meetings and those planned for the future, please see the project [website](#).

Update: A presentation will be given on the Stormwater Plan at this meeting. Draft scoring and top priority projects will be discussed.

B. Marin City Stormwater Pond Infrastructure Improvements (written update only)

Background: The scope of work of this FEMA grant-funded project has expanded significantly since 2020 and currently consists of an estimated \$10 million construction project to install a permanent 50 cfs stormwater pump station and a floodwall at the Pond along with drainage pipe upgrades in the shopping center. Though twice as expensive as the original proposed project (which did not include a pump station), the benefits of the upgraded project as currently scoped are much better for Marin City flood reduction than the original 2017 grant proposal under both current and especially future sea level rise conditions. In June 2023, FEMA approved the revised scope for Phase I final design and permitting and a new \$883,636 contract with consultant BKF was approved by the Board of Supervisors on September 19 for the pump station design (to 65% level) and environmental compliance. Up to 75% of the design cost is reimbursable by FEMA through a design grant with the rest from Zone 3 funds. Staff received approval from FEMA for a completion date for this Phase I work in March 2025. Following design and CEQA,

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FEMA will complete a NEPA review prior to consideration of award for Phase II of the funding for final plans and specifications (from 65% to 100%) and construction.

District staff received approval from the property Owner to conduct site investigations and survey around the pond which was completed in September 2023. The design team is continuing work on the pump station and floodwall design. CEQA/NEPA for this project is scheduled to begin in mid 2024 and the current schedule for the 30-day public comment period is to begin in January 2025. The entire Phase I is scheduled to be completed by March 2025. Depending on the time needed for FEMA to approve the CEQA/NEPA and award Phase II of the project which includes final design (65% to 100%), bidding and award of the construction contract, the actual construction can happen as early as 2026. However, without property owner approval, the proposed project cannot be constructed.

Update: The project continued design work on the Marin City pond pump station. A revised 30 percent design package was reviewed by District staff, and the consultant is working on the 60% design package. As part of the CEQA process, there will be a formal public review process for the design outside of the flood zone meetings.

C. Marin City Donahue Portable Pump Station (written update only)

Background: The purpose of this project is to reduce flooding duration at the intersection of Donahue and Drake by installing and operating 2 temporary trailer mounted pumps and associated piping systems for up to three years, after which time it is anticipated that the permanent project described in Item 3.B above can be constructed. On March 21, 2023, the District Board of Supervisors approved a \$236,296 professional services agreement, using Flood Zone 3 funds, for BKF Engineers to Design, Support Permitting and Prepare Plans and Specifications for Construction of a Portable Pumping Station at Donahue Street, adjacent to the southbound Hwy 101 offramp. Construction of Donahue pump station has been delayed due to lease issues with the property owner. This project is not a Flood District project, it's a County of Marin project. Flood District staff are managing the work. Flood Zone 3 will receive full reimbursement for the cost of the project through a TAM Agreement funded by McGuire.

Update: The goal is to get the pump station operational in time for the 2024/25 winter season flooding. The Board of Supervisors approved the plans and specifications and a lease agreement with Gerrity on May 21, 2024. Bids for construction will be opened on July 10. The Board also approved purchase of portable pumps on June 4 and proposals were received from contractors for operation of the pumps on June 28.

Item 4. Engineer's Report for Tam Valley Project Updates (Action Item)

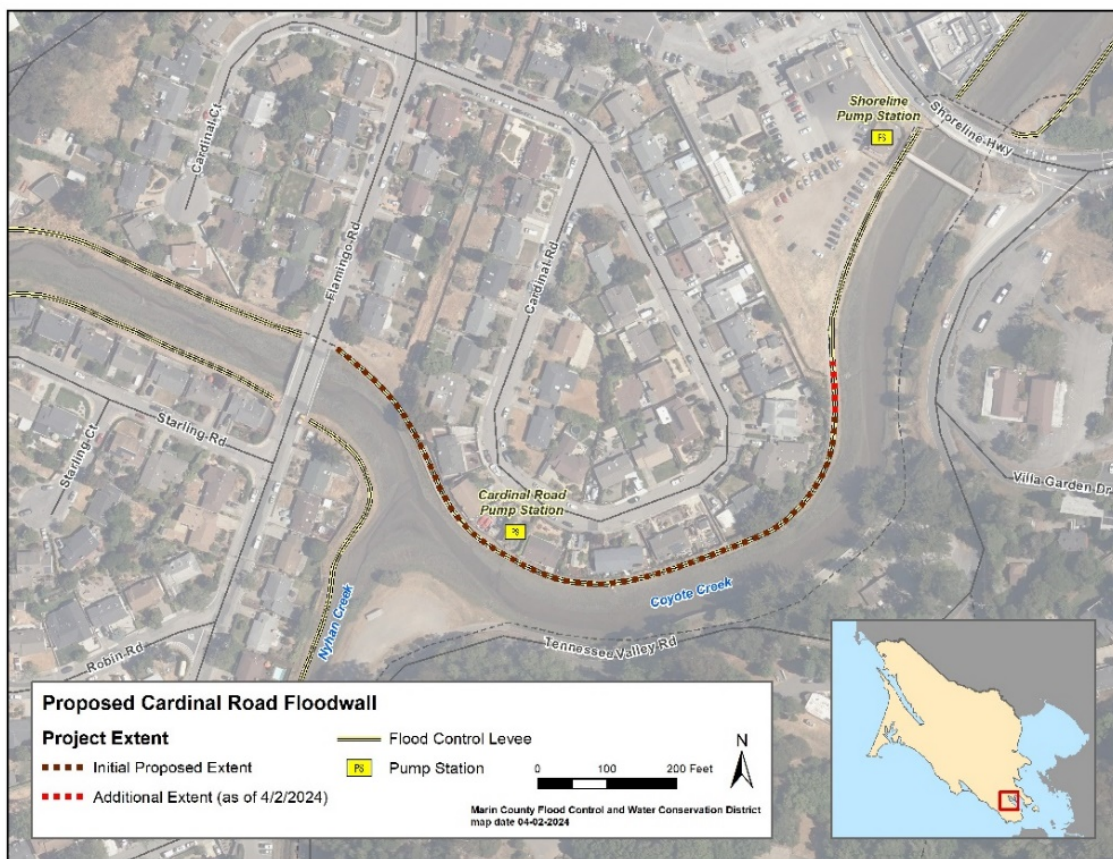
A. Cardinal Levee Seepage Mitigation (Tony Swan)

Background: The purpose of the Proposed Cardinal Road Levee Seepage Project (Project) is to design a flood barrier wall to resolve seepage issues which are partly due to rodent burrows. The project would upgrade a 1,000+ linear foot portion of the Coyote Creek Levee along Cardinal Road located in the

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unincorporated community of Tamalpais Valley. Construction of levee upgrades would likely occur in 2026 or 2027.

We are also looking at re-routing a ditch that runs behind some properties on Cardinal Road and drains through a tide gate in the levee. The flows would be directed to Shoreline Pump Station, located on the opposite side of the shopping center employee parking area. The proposed levee upgrade may be extended approximately an additional 150 feet to cut off potential for seepage through the gated pipeline in the levee that we are considering abandoning. Doing this would eliminate the need to stage a portable pump. This additional task adds to the cost for these professional services above what the advisory board previously recommended.



Proposed Extent of the Cardinal Road Levee Flood Barrier

Preliminary estimated costs to construct this project are \$3-5M. Your board previously recommended a \$325,000 budget for a consulting contract for design and environmental compliance for this project.

Subsequently, we learned right-of-way acquisition would likely be necessary for project construction, which also increases the cost for professional services above what was previously recommended.

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More information on this project can be found on the project website:

<https://marinflooddistrict.org/cardinal-road-levee-project/>

Update: The District released a Request for Qualifications and Proposals in the spring and received proposals from two highly qualified teams, both with estimated costs significantly more than the recommended budget. The proposals include design, CEQA, permitting (environmental regulatory and Section 408 compliance with the U.S. Army Corps of Engineers), and right-of-way planning.

Recommended Action: Recommend the District Board of Supervisors adjust the Zone 3 budget, adding \$275,000 for a final budget of \$600,000 for award of the design, right-of-way planning, and environmental compliance contract for the Cardinal Pump Station and the rerouting of the Cardinal ditch to Shoreline Pump Station.

B. Crest Marin Pump Station Rehabilitation Design (written update only)

Background: The Crest Marin Pump Station is a stormwater pump station that discharges to Nyhan Creek and is located at 297 Flamingo Road (near the intersections of Tennessee Valley Road/Flamingo Road and Marin Ave). The Crest Marin Pump Station was constructed in 1978 and is reaching the end of its expected useful life. Staff have been reporting to your board about increasing maintenance needs and costs at this station. Schaaf & Wheeler was awarded a consulting contract by the Board of Supervisors in January 2023 to conduct a condition assessment of the Crest Marin Pump Station. They summarized the assessment for your board in October 2023 and provided recommendations for short term and long-term improvements to address condition and reliability issues. Based on the assessments, age of equipment, and reliability of the pump station it is recommended to complete a full pump station rehabilitation. The Advisory Board on October 10, 2023 recommended the District Board of Supervisors award a design and environmental compliance contract for the pump station and potentially associated drainage improvements with a budget no more than \$500,000.

The construction cost estimate for a full pump station upgrade amounts to \$3.24 million which includes a 20% construction contingency. Design, construction management, permitting, and administration could add another 50% or \$1,350,000 for a total budget estimate of \$4,600,000.

This work is being coordinated with PG&E, which needs to relocate a leaning transmission tower away from the Nyhan Creek levee. Though the transmission tower has been removed a permanent location still needs to be identified.

Update: The District is currently finalizing a Request for Qualifications and Proposals for potential consultants to carry out design and environmental compliance. It is anticipated that a firm will be recommended to the District Board of Supervisors for approval in late 2024. Work is also underway to develop a project website.

C. Tam Valley Interior Drainage Model (written update only)

Background: District staff are kicking off an effort to prepare a storm drain model for the contributing watersheds to Crest Marin, Cardinal, and Shoreline Pump Stations. This model will be prepared by staff in-house utilizing PC SWMM software and the baseline staff budgets for the next two fiscal years. Problem areas will be identified and verified by comparing an existing conditions model to field observations. Then potential drainage upgrades will be simulated in this model to see if and how problem areas can be addressed.

The primary purpose in the Crest Marin watershed is to identify potential drainage upgrades that would improve the watershed's ability to deliver stormwater runoff to the pump station. This work will inform concurrent design for the rehabilitation project at Crest Marin Pump Station (described in Item 4.B.). If there is sufficient funding, potential drainage upgrades identified in this modeling effort could be incorporated into construction of the pump station project.

The Cardinal and Shoreline pump stations are also approaching the end of their expected useful life. Recurrent drainage issues are reported in the Cardinal watershed, which is immediately adjacent to the Shoreline watershed. A PC SWMM model of the Cardinal and Shoreline Pump Station watersheds would provide a comprehensive look at the watersheds' plumbing and street drainage and identify opportunities to increase efficiency of the drainage and pumping system. This model will inform future design scopes for rehabilitation, upgrading, and/or consolidation of these pump stations.

Construction of upgrades to roadway drainage would not be funded by flood zone 3 due to limited resources and extensive needs for funding for existing levees and pump stations nearing the end of their design life. Staff will coordinate with the Public Works department's Engineering and Roads division regarding local drainage improvement planning.

Update: Staff are coordinating the Public Works Stormwater division on the design for a trash capture device at Shoreline Pump Station to ensure compatibility with any proposed drainage upgrades.

Item 5. Schedule of Next Meetings and Adjourn

Advisory Board adopted a schedule of advisory board meetings on the second Tuesday of the months of January, April, July, and October. Special meetings can be called if needed, and regular meetings may be canceled if there is no business need.