

FLOOD ZONE 3 ADVISORY BOARD MEETING
JANUARY 9, 2024

Staff Report

Item 1. New Board Members and Elect Officers

Steven Reel was appointed by the Board of Supervisors in September. All Advisory Board members will be asked to briefly introduce themselves, including describing their professional backgrounds and location within the zone where they live.

***Recommended Action:** Elect Chairperson and Vice-Chairperson for a 2-year term.*

Item 2. Approval of Meeting Minutes: October 10, 2023

Review October 10, 2023 minutes at this link:

<https://marinflooddistrict.org/meetings/zone-3-advisory-board-meeting-october-10-2023/#tab-minutes>

***Recommended Action:** Approve draft minutes of October 10, 2023*

Item 3. 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 4. Receive the Engineer's Report for Zone 3 Marin City Projects

A. Marin City Stormwater Plan

The purpose of this effort is to develop a stormwater plan for Marin City that identifies and prioritizes protection of existing homes, community assets, infrastructure, and businesses. The District is providing resources for meaningful participation by the community in the planning process. This includes hosting a series of Task Force and community meetings with staff participation at multiple meetings held in Marin City.

Since the last Advisory Board Meeting on October 10, 2023, the Project Team and a subset of the Task Force met 3 times to discuss the Lower Watershed Project Concepts and Draft Scoring Criteria first presented at Task Force Meeting #3 on October 4, 2023. Several comments were received by the Task Force and are summarized as follows:

- Outreach Comments:
 - Make meetings open to the general public whenever feasible, and consider presenting at evening meetings such as at the Community Services District Board meeting in January/February
 - Provide additional detailed write-up of Project Concepts so that interested Task Force members can review ahead of next community meeting

Marin County Flood Control and Water Conservation District

- Reschedule next planned public meeting to allow more advanced notification to community by attending upcoming community pop-up events and distributing the public meeting flyer
- Draft Scoring Criteria Comments:
 - Include outdoor recreation opportunities as Scoring Criteria when evaluating flood-risk reduction solutions
 - Use online surveys as well as other survey methods to solicit Task Force and public input to evaluate the Scoring Criteria used to rank Project Concepts
 - Consider including list of the Project Concepts at the same time as requesting community input on the Scoring Criteria

The table following provides a summary of completed Marin City Stormwater Task Force and Community meetings, and those planned in the future. For more information on the Marin City Stormwater Plan, please see the project [website](#).

Marin City Stormwater Plan – Meeting Schedule		
<u>Date</u>	<u>Meeting Event</u>	<u>Description</u>
April 3, 2023 (Completed)	Task Force Meeting #1	Reviewed Existing Drainage/Flood Issue Map
June 1, 2023 (Completed)	Community Meeting #1 - Kickoff to Stormwater Planning process	Presented existing drainage/flooding condition assessment, conducted a site walk, and gathered information on known flooding issues from residents
August 2023 (Completed)	Task Force Meeting #2: Upper Watershed Project Concepts	Presented Project Concepts as potential flood mitigation solutions for the upper watershed areas of Marin City.
October 2023 (Completed)	Task Force Meeting #3: Lower Watershed Project Concepts and Scoring Criteria	Presented Project Concepts as potential flood mitigation solutions for the lower watershed areas of Marin City and introduced Scoring Criteria
October 16, October 30, & November 8 2023	Task Force Meeting #3: Follow up meetings Project Concepts and Scoring Criteria	Reviewed Lower Watershed Project Concepts and Scoring Criteria and obtained additional Task Force input
March 2024	Community Meeting #2	Present Project Concepts and Scoring Criteria
April 2024	Task Force Meeting #4	Review scoring of Project Concepts and get Task Force feedback
May 2024	Task Force Meeting #5	Review Draft Executive Summary
Summer 2024	Community Meeting #3	Present Ranked Project Concepts and potential funding sources

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B. Marin City Stormwater Pond Infrastructure Improvements

The scope of work of this FEMA grant-funded project has changed 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, 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 late 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.

C. Marin City Donahue Portable Pump Station

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.

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 4.B above can be constructed. Construction of Donahue pump station has been delayed due to lease issues with the property owner. The pump station is planned for operation in time for the 2024-25 winter season flooding.

Costs for construction and three years of operation are expected to be paid for through State funding designated by Senator McGuire through an agreement with Transportation Authority of Marin which was approved by the Board of Supervisors

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on September 19, 2023. Note that this temporary pump station is not funded past three years and will be discontinued at the end of the funded period.

Item 5. Receive the Engineer's Report for Tam Valley Project Updates

A. Cardinal Levee Seepage Mitigation

The purpose of the Cardinal Road Levee Seepage Project (Project) is to design a flood barrier wall that will help to resolve the current seepage issues which partly are due to abundant rodent burrows. The project will upgrade about 1,000 linear foot portion of the Coyote Creek Levee along Cardinal Road located in the unincorporated community of Tamalpais Valley. Preliminary estimated costs to implement this project are \$3.25M. Your board recommended a \$325,000 budget for a consulting contract for design and environmental compliance for this project. The District has drafted up a Request for Proposals and plans to recommend the highest qualified firm to move forward with this design in the Spring of 2024, pending approval by the District Board of Supervisors.

Costs for this project may increase from the original estimate due to additional right-of-way acquisition needs. Formal estimates need to be developed, but preliminarily we estimate appraisals, title reports, real estate agents, and easement compensation costs for 9 properties, needing an additional budget of about \$250,000.

B. Crest Marin Pump Station Rehabilitation Design

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 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 District plans to select the highest qualified firm to move forward with this project in the Summer of 2024, pending District Board of Supervisors approval.

The construction cost estimate for a full pump station upgrade amounts to \$3.24 million which includes a 20% construction contingency. Design, construction

Marin County Flood Control and Water Conservation District

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.

Item 6. Mill Valley Funding Requests

The City submitted the attached letter requesting funding for projects in Mill Valley. Until the policy is updated, staff recommend funding projects and studies consistent with Resolution No. 71-148 (also attached) of the District Board of Supervisors establishing policy with regard to drainage systems in Flood Zone 3. This resolution directs that resources be focused on lands below 7 feet Mean Sea Level (MSL) and which require pondage and/or pumping, as well as specific listed major drainage systems. Staff recommend funding the pump station project described, as well as funding drainage studies and improvements on the resolution-listed drainages and tidal flooding studies as they are areas below 7 feet MSL. Staff do not recommend funding street drainage projects for pipes smaller than 24” in diameter. Pipes 24” and larger in diameter tend to have broader drainage benefits than just removing water from the streets. Therefore, this is the list of projects recommended for funding by Zone 3:

Fiscal Year 2023/24: \$430,000

- Sycamore Pump station Replacement Design, \$430,000

Fiscal Year 2024/25: \$1,760,000

- Sycamore Pump Station Replacement Construction, \$1,500,000
- Flap gates/check valves throughout the drain systems, \$45,000
- Develop Drainage Database, \$215,000

Fiscal Year 2025/26: \$825,000

- Study effectiveness of improvements to drainage channels, \$50,000
- Arroyo Corte Madera del Presidio Drainage Improvements, \$775,000

Recommended Action: Recommend the District Board of Supervisors approve a funding agreement with Mill Valley in the amount of \$3,015,000 for Tidal Flooding Studies and Projects in Mill Valley, Drainage Studies and Database Development, Arroyo Corte Madera del Presidio Drainage Improvements, and Sycamore Pump Station Replacement.

A Flood Zone 3 Fund 5-Year Forecast is attached to show the approximate effect on the fund balance if this funding agreement, as well as other highly recommended projects, are approved.

Item 7. Annual and Preventive Maintenance Work Program

A. Pump Stations

i. Regular Maintenance:

Individual pumps and motors are scheduled for major maintenance on a six-year interval at each of the zone's pump stations. Major preventive maintenance is scheduled in 2024 (a year early) for the larger electric pump at Crest Marin Pump Station. Additionally, the splitter plate will be replaced, and the pump will be bolted down for seismic stability, as recommended in the short-term by Schaaf & Wheeler during last year's condition assessment. One of the pumps at Seminary Drive is also due for this major maintenance. Unless extensive additional work is needed, these contracting costs are covered under the baseline budget for Zone 3.

ii. Repair Needs:

Some complications related to the controls at Cardinal were discovered last year so a control system engineer began working with the District to make recommended changes. These investigations continued in December, and it was determined we need to replace the breaker on the #1 pump. The total cost should not exceed \$5,000.

The roof at Crest Marin Pump Station is leaking and a contractor was awarded a contract for repair (schedule TBD due to weather and holidays). The work itself will not take more than 2 days and is expected to be completed utilizing the zone's baseline budget.

Issues with the tide gates at the Seminary Drive, Crest Marin, and Cardinal Pump Stations were identified, potentially causing pumps to run more than needed and contributing to corrosion. A flap gate at Seminary Drive has just been replaced with a new gate. We will be working on getting a contract for summer 2024 to replace the bypass screw gate at Cardinal (last replaced 2013) and sand blasting and coating the Crest Marin gates. The preliminary estimate for this work is \$20k, but if more than the baseline budget is needed, we will return to the advisory board when actual costs are known.

iii. Trash Capture:

To comply with regulations coming into effect in 2030, the District must begin rolling out installation of trash capture devices at pump stations in high priority areas. MarinMap.org identifies all the high priority areas for trash capture in the county. These devices must capture trash as small as 5mm, or the size of a cigarette butt, before discharging to creeks or the bay. These high priority areas include Seminary Drive Pump Station and Shoreline Pump Station in Zone 3. Design at these stations is currently underway and funding for construction, through Caltrans or grants, is being pursued. Design for a trash capture device and proposed pump station in Marin City at another high priority area, are currently proceeding in concert.

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B. Vegetation and Sediment Removal

Vegetation overhanging the concrete channel of Coyote Creek is removed as needed to facilitate inspection of the concrete walls and tide gates. Sediment removal needs for this summer are being evaluated in April. The City of Mill Valley also conducts maintenance of their stormwater facilities and drainage channels each year with funding support through a cooperative agreement with Flood Zone 3.

C. Levee Maintenance

Two phases of rodent control are anticipated to be completed in the earthen levees again this year as there are many rodent burrows needing to be filled. Conditions of the levee are continually inspected throughout the winter during storms, and/or high tides when seepage is most evident.

Item 8. Flood Zone 3 Investment Strategy Ad-Hoc Subcommittee Update

On October 12, 2021 the Flood Zone 3 Advisory Board established an ad-hoc subcommittee to discuss and recommend an investment strategy to the full Board. The subcommittee met twice in March 2022, and again in May, June, August, and September 2023. In September the subcommittee reviewed a first draft investment strategy, however due to scheduling conflicts only two of the members were able to attend and several comments were received. We postponed the planned October 24th subcommittee meeting in order to investigate requests made by the City of Mill Valley. Staff are still working with the subcommittee and the City of Mill Valley regarding the long-term strategy. In the meantime, staff made short-term recommendations for funding for the City (Item 6) for Sycamore Pump Station reconstruction, drainage studies and improvements, and infrastructure to reduce tidal flooding.

Item 9. Review Proposed Budget for FYs 2024-25 and 2025-26

Every two years the advisory board is asked to recommend a baseline budget for Zone 3. The proposed budget attached would cover the two fiscal years from July 1, 2024 through June 30, 2026. The request at this time is to recommend a *baseline* budget, which does not include major project expenses, and is intended to be relatively consistent from year to year. Major project expenses, like design contracts and construction contracts, will have to be accompanied by additional recommendations for budget amendments. The items shaded green represent the baseline budget items for your board to focus on at this time. All other items - shaded gray and white - are not part of the action to approve the baseline budget but are being provided for general context. There will be opportunities to discuss the gray items at other meetings before your board is asked to vote on those.

The advisory board can ask questions and comment on the proposed budget. They may choose to vote to recommend the budget now or wait until the April meeting if needed. Following is a proposed budget summary and details are attached. The current year "Revised" budget includes contract encumbrances from prior fiscal years carried

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forward, in addition to the baseline budget and approved budget adjustments for the current fiscal year.

If as part of separate future actions from this baseline budget recommendation, the Advisory Board and Board of Supervisors approved all the potential projects listed in the attached Flood Zone 3 Fund 5-Year Forecast, the Zone would be projected to have approximately \$1.7M left in its fund.

Proposed Fiscal Years 2024-2026 Baseline Budget for Flood Zone 3:

Description	2024 Baseline	2024 Revised	2025 Proposed	2026 Proposed	2023 Actual
Revenue Total*	\$2,558,070	\$3,319,776	\$2,736,761	\$2,818,864	\$3,038,654
Maintenance	\$500,000	\$670,281	\$515,000	\$530,450	\$526,743
Misc. Expense	\$50,000	\$59,997	\$51,500	\$53,045	\$30,590
Professional Services	\$75,000	\$2,547,739	\$77,250	\$79,568	\$273,009
Construction/ Trade Services	\$100,000	\$100,000	\$103,000	\$106,090	\$4,760
Utilities	\$22,000	\$22,000	\$20,600	\$21,218	\$26,594
Service & Supplies Total	\$747,000	\$3,400,017	\$769,410	\$792,492	\$861,710
Staff Labor**	\$962,976	\$1,174,428	\$1,422,891	\$1,495,315	\$878,783
Expenditures Total	\$1,938,678	\$4,574,445	\$2,192,301	\$2,287,807	\$1,920,493
Projected/ Actual Fund End Balance		\$15,346,307	\$15,890,767	\$16,421,823	\$16,600,976

*Does not include FEMA grant as it is associated with a major project so is outside the baseline budget.

**A-87 Indirect Cost Allocation increased over 10-fold this fiscal year, due to County Counsel costs and 2- to 3-fold increases in actual staff time spent on Zone 3 projects and pump stations in 2022.

Item 10. Schedule of Next Meetings

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.



November 27, 2023

Ms. Hannah Lee
Senior Civil Engineer
Marin County Flood Control Zone 3
3501 Civic Center Drive, Room 304
San Rafael, CA 94903

Re: Request for Funds

Dear Ms. Lee:

Thank you for your assistance and input during our numerous meetings. As staff has communicated, the City of Mill Valley has significant needs that are beyond its resources. Marin County Resolution 71-148 specifies the major drainage systems and their limits for which the Flood Control and Water Conservation District shall direct its primary efforts and resources. Many of these drainage systems lie partially or wholly within the City of Mill Valley. This Resolution, in concert with the Mill Valley Flood Management and Storm Drain Master Plan, accepted on April 5, 2021, help form the basis of this request.

In compliance with: County Resolution 4514 establishing Flood Control Zone No. 3; County Resolution 71-148 establishing policy with regard to drainage systems in Flood Control Zone No. 3; and the 2023 Projected Fund End Balance of \$13,810,913 presented at the April 11, 2023 Flood Zone 3 Advisory Board meeting, the City requests \$5,766,797 as outlined below.

Fiscal Year 2023/2024

Subtotal = \$1,781,797

Drainage improvements within various drainage systems included in the East Blithedale Avenue Rehabilitation Project

Actual Cost: \$779,504

Approximately 339 linear feet of pipe (12LF of 18" RCP, 41LF of 15" RCP and 286LF of 12" RCP), seven manholes and 17 storm drain inlets in the corridor were replaced to accommodate storm runoff in the following drainage systems as outlined in Exhibit A of Resolution 71-148:

- Arroyo Corte Madera del Presidio
- Warner Creek
- Ryan Creek
- Warner Creek
- Sutton Manor Branch
- East Blithedale Culvert
- East Fork Sutton Manor

Drainage improvements within various drainage systems included in the Downtown Rehabilitation project **Actual Cost: \$564,335**

Approximately 682 linear feet of storm drain, (206LF of 10” RCP and 476LF of 12” RCP), 3 manholes and 13 storm drain inlets were installed to accommodate stormwater runoff the following drainage systems as outlined in Exhibit A of Resolution 71-148:

- Old Mill Creek
- Cascade Creek
- Arroyo Core Madera Del Presidio

Bay Flooding at City Corporation Yard – Needs Assessment **Actual cost: \$7,958**

The City completed a needs assessment of a floodwall required to address flooding of the Corporation Yard as part of a Corporation Yard Master Plan. The yard is an essential facility, providing critical services to the community and sits at the base of the Arroyo Madera del Presidio, the confluence of other eligible drainage systems and is below elevation 7 (MSL). The Master Plan included a conceptual estimate for construction of the floodwall, which is intended to be deigned and built in the near future.

Sycamore Pump Station Replacement - Design **Estimated cost: \$430,000**

The City has completed a detailed assessment of this existing facility and recommends the pump station be replaced to current standards and then be dedicated to the Flood Control Zone to own, operate and maintain. City staff would oversee design, implementation and transfer of the necessary easements. This requested funds would be used for design, environmental and easement services. The pump serves Arroyo Corte Madera Del Presidio drainage system.

Fiscal Year 2024/2025 **Subtotal = \$1,760,000**

Sycamore Pump Station Replacement - Construction **Estimated cost: \$1,500,000**

The funds requested for this phase would be used to remove and replace the existing pump and to line the main line feeding into the pump with cured in place pipe. This phase will also include finalization of real estate transfer documents.

Flap gates/check valves throughout the Drain systems **Estimated cost: \$45,000**

Flap gates and check valves on the Ryan Creek, Sutton Manor Branch, and Arroyo Corte Madera del Presidio drainage systems as well as other locations below elevation 7 (MSL) are in need of installation, repair, or replacement as a course of routine maintenance procedures.

Develop Drainage Database **Estimated cost: \$215,000**

As recommended in the City’s Master Plan, staff plans to physically map and create a database of approximately 15.7 miles of pipe with 1,300 junction boxes/manholes serving the drainage systems in the City. While developing the database, the City will have an opportunity to inspect current conditions of the system. This inspection data will help determine recommended mitigations and priorities in maintaining the various drainage systems’ infrastructure. The City intends to collaborate with similar initiatives by the County or MCSTOPPP.

Fiscal Year 2025/2026

Subtotal = \$2,225,000

Study effectiveness of improvements to drainage channels

Estimated cost: \$50,000

A significant portion of Mill Valley is located within the FEMA mapped floodway. Since the modeling for the FEMA maps was conducted in 2012, the City has installed drainage improvements that might alleviate some flooding shown on the effective FIRM and reduce the limits of the Floodway boundary. The City plans to conduct a feasibility study to determine whether a letter of map revision would be beneficial to show the improvements from work conducted since 2012. The feasibility study would also provide the city with a scope and level of effort required to revise the effective FIRM.

Miller Avenue tidal flooding feasibility study

Estimated cost: \$250,000

The City desires to understand better what is happening in the Miller Avenue area south of Camino Alto due to regular flooding at King Tides. Assuming a 50-year design life for any improvements, the study will address 36" sea level rise projections for 2100. Miller Avenue, south of Camino Alto, regularly floods and is closed to traffic during storm and high tide events. Between now and the beginning of the 2025/26 fiscal year, the City desires to work collaboratively with the Flood Zone, the County and other stakeholders to determine which agency should take the lead in this study. As a budget estimate, the draft Richardson Bay Shoreline Study, 2015, provides a range of options for this area, Reach 3. On Page 149, ranges can be found. For budget purposes, the City requests 25% of the high range of the less expensive alternative, or 25% of \$6,800,000. These funds will be used for preliminary engineering, construction and right-of-way cost estimates, environmental clearance, and preparation of grant applications.

Bay Flooding at City Corporation Yard - Design

Estimated cost: \$450,000

A review of the corporation yard, found that a flood wall is needed to protect the yard from flooding at the confluence of several drainage channels. During this fiscal year the City intends to complete necessary design and environmental clearance of a new protective device that is estimated to cost approximately \$3,000,000.

Arroyo Corte Madera del Presidio Drainage Improvements

Estimated cost: \$775,000

Rehabilitate insufficient pipe on Hill Street and Sycamore Avenue with 24" and 36" pipe respectively as noted in the City's Storm Drain and Flood Management Master Plan.

Cascade and Old Mill Creeks Drainage Improvements

Estimated cost: \$700,000

Design and install improvements on Madrona Street and the city's downtown parking lot as noted in the City's Storm Drain and Flood Management Master Plan.

The above projects will be completed in compliance with the Marin County Flood Control and Water Conservation District Act. Costs noted above include items such as planning, design, construction, construction management, inspection and an administrative allowance calculated as 10% of authorized cost to account for applying for and managing District funding and administering grants.

Marin County Flood Control Zone 3

November 27, 2023

Page 4

This \$5,766,797 request represents approximately 41.8% of the \$13,810,913 fund balance. This is a smaller percent than the 51% that Mill Valley taxpayers contribute toward the Flood Control Zone No 3's total revenue. However, as you are aware, Mill Valley has asked for 80% of the 51% contributed going forward. The current request is approximately equivalent to 80% of the 51% contributed by Mill Valley taxpayers.

Please note, this letter replaces the City's September 27, 2021 request, and only requests funds from the fund balance at the beginning of the 2023/24 fiscal year. The City has many more needs and plans to request additional funds in the future based on a share determination of annual revenue in the three fiscal years included in this fund request.

Mill Valley staff are available to review this request with you at your earliest convenience.

Very truly yours,



Andrew D. Poster, P.E.
Director of Public Works

CC: Todd Cusimano, City Manager

BOARD OF SUPERVISORS OF THE MARIN COUNTY
FLOOD CONTROL AND WATER CONSERVATION DISTRICT

RESOLUTION NO. 71-148

RESOLUTION ESTABLISHING POLICY WITH REGARD TO
DRAINAGE SYSTEMS IN FLOOD CONTROL ZONE #3

WHEREAS, Section 68-8 of the Marin County Flood Control and Water Conservation District Act is the authority for establishing policy with regard to drainage systems within the District; and

WHEREAS, the District must direct its efforts and resources in the most efficient manner possible;

NOW, THEREFORE, BE IT RESOLVED, THAT:


1. The District intends to consider the drainage systems named in Exhibit "A" and as shown on Exhibit "B" which Exhibits are attached hereto, and by this reference incorporated herein, as being the major drainage systems within Flood Control Zone No. 3; and

2. The District shall direct its primary efforts and resources toward the efficient control of these systems.

PASSED AND ADOPTED at the regular meeting of the Board of Supervisors of the Marin County Flood Control and Water Conservation District held on the 22nd day of June, 1971, by the following vote:

AYES: SUPERVISORS Arnold M. Baptiste, John F. McInnis, Peter R. Arrigoni,
Michael Wornum, Louis H. Baar
NOES: SUPERVISORS -
ABSENT: SUPERVISORS -

Attachment: Exhibit "A"
Exhibit "B"


Chairman, Board of Supervisors
of the Marin County Flood Control
and Water Conservation District

ATTEST:

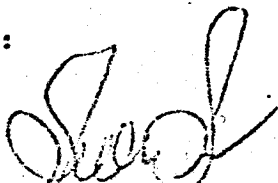

Clerk

EXHIBIT "A"

The major drainage systems and their limits for which the Marin County Flood Control and Water Conservation District shall direct its primary efforts and resources pursuant to this resolution are as follows:

<u>Name of Drainage System</u>	<u>Limits of Drainage System</u>
Sausalito Canal	Richardson Bay to Mill Valley Harbor
Rosedale Canal	Confluence with Sausalito Canal to Donahue Street
Coyote Creek	Confluence with Sausalito Canal to the origin of the North and South branches
Tennessee Creek	Confluence with Coyote Creek to its origin
Marin Avenue Creek	Confluence with Tennessee Creek to its origin
Oakwood Creek	Confluence with Tennessee Creek to its origin
Arroyo Corte Madera Del Presidio	Confluence with Mill Valley Harbor to the origin of the East Peak and Nob Hill Forks
High School Creek	Confluence with Arroyo Corte Madera Del Presidio to Miller Avenue
Reed Creek	Confluence with Arroyo Corte Madera Del Presidio to its origin
Warner Creek	Confluence with Arroyo Corte Madera Del Presidio to its origin
Old Mill Creek	Confluence with Arroyo Corte Madera Del Presidio to its origin
Cascade Creek	Confluence with Old Mill Creek to its origin
Ryan Creek	Confluence with Mill Valley Harbor to the Westerly end of Alto Avenue
Sutton Manor Branch	Confluence with Mill Valley Harbor to its origin

Name of
Drainage System

Limits of
Drainage System

East Blithedale Culvert

Confluence with Sutton Manor
Branch to the Easterly Right-
of-Way of Tower Drive

East Fork Sutton Manor

Confluence with Sutton Manor
Branch to Lomita Drive

Reservoirs (General)

All Reservoirs and their out-
let channels

Miscellaneous Systems

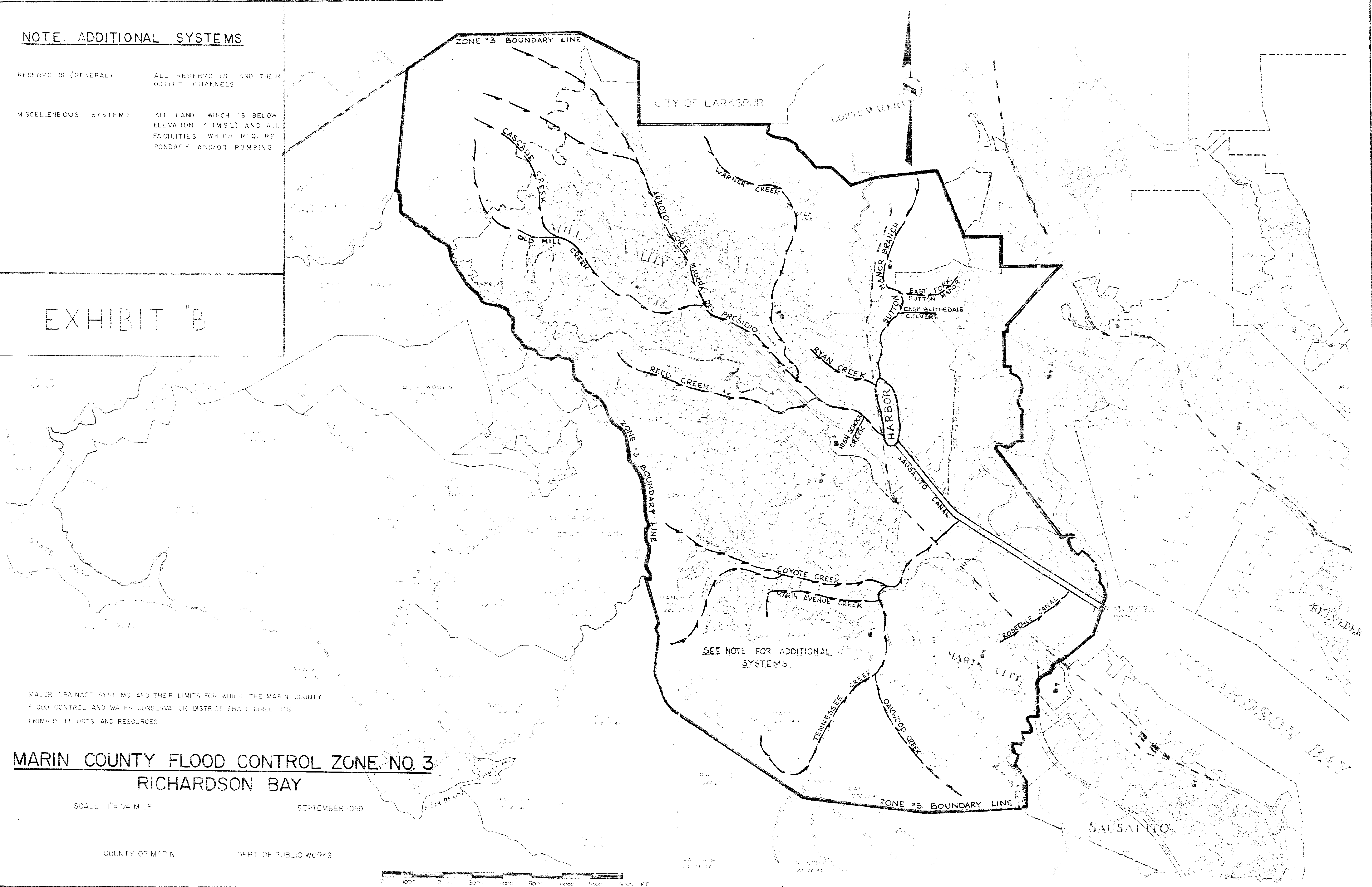
All land which is below ele-
vation 7 (MSL) and all facili-
ties which require pondage
and/or pumping

NOTE: ADDITIONAL SYSTEMS

RESERVOIRS (GENERAL) ALL RESERVOIRS AND THEIR OUTLET CHANNELS

MISCELLANEOUS SYSTEMS ALL LAND WHICH IS BELOW ELEVATION 7 (MSL) AND ALL FACILITIES WHICH REQUIRE PONDAGE AND/OR PUMPING.

EXHIBIT "B"



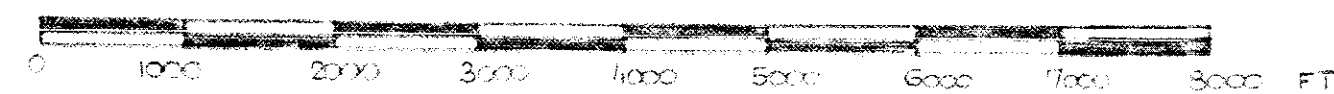
MARIN COUNTY FLOOD CONTROL ZONE NO. 3
RICHARDSON BAY

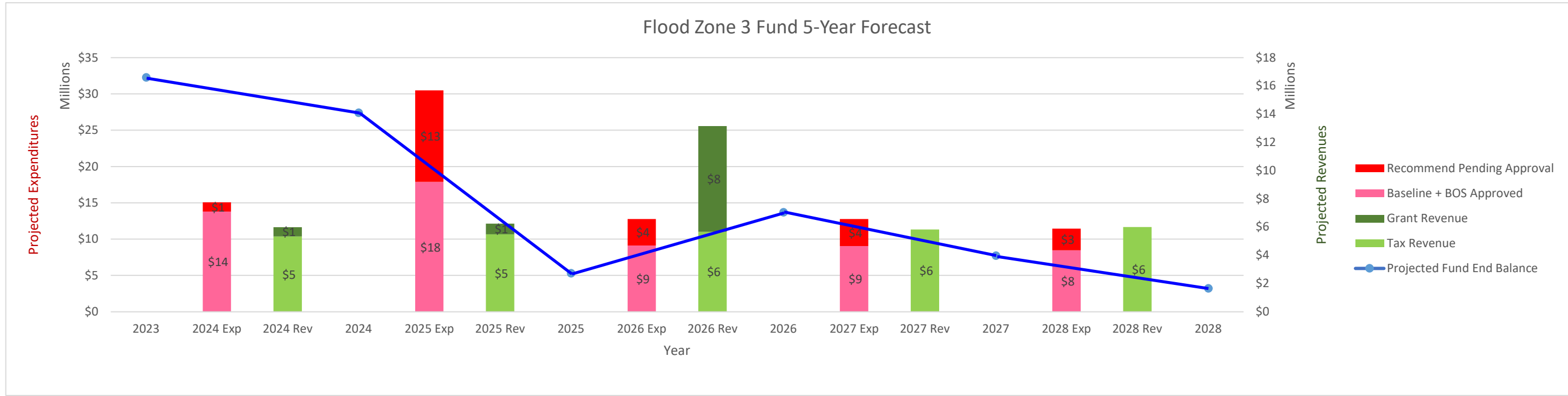
SCALE 1" = 1/4 MILE

SEPTEMBER 1959

COUNTY OF MARIN

DEPT. OF PUBLIC WORKS





Projects Recommended Pending Approval	2024	2025	2026	2027	2028	Need Justification
Cardinal Road Levee	\$ 325,000	\$ 800,000	\$ 2,522,300			Levee seepage increasing significantly, must mitigate to reduce risk of levee failure. We now fill rodent burrows multiple times per year and it is not enough.
Crest Marin Pump Station	\$ 500,000	\$ 175,000	\$ 250,000	\$ 3,540,000		All of Crest Marin Creek must flow through 45 yr old pump station, at end of useful life. Last year was manned 24/7 during atmospheric rivers due to repeated failing parts in spite of maintenance.
Cardinal & Shoreline Pump Stations			\$ 500,000	\$ 500,000	\$ 3,000,000	Pump Stations approaching 40 years, and there are significant drainage issues in the neighborhood. A trash capture device will be put in before Shoreline Station prior to the start of this project.
Marin City Pond Improvements	\$ -	\$ 10,000,000				Protecting the only access to a historically underserved neighborhood. This is 75% funded through a FEMA grant.
Flap gates/check valves in Mill Valley		\$ 45,000				Prevent tidal backflow at Ryan Creek, Sutton Major Branch, and ACMdP drainages, as well as locations below 7 feet MSL.
Mill Valley Drainage Studies and Database Development		\$ 215,000	\$ 50,000			Develop drainage database and study benefits of drainage improvements on FEMA floodway. Consider feasibility of revisions to FEMA FIRM.
Arroyo Corte Madera del Presidio Drainage Improvements			\$ 775,000			Rehabilitate undersized pipe on Hill Street and Sycamore Avenue as noted in the City's Storm Drain and Flood Management Master Plan.
Sycamore Pump Station	\$ 430,000	\$ 1,500,000				Replace pump station to current standards and consider transferring ownership to Zone 3. City staff would oversee design, implementation, and easement transfer.

PROPOSED Flood Zone 3 Baseline Budget FYs 2024-2026

NOTE: REVENUES ARE REPRESENTED AS NEGATIVE NUMBERS AND EXPENDITURES AS POSITIVE, BUT A POSITIVE FUND BALANCE IS POSITIVE

Record No.	Description	2023 Original Budget	2024 Original Budget	2024 Revised	2025	2026	2027	2028	2024 Actual as of 12/12/23	2023 Actual	2022 Actual	Notes
1	Total Property Tax Revenue:	-2,276,594	-2,524,900	-2,524,941	-2,600,689	-2,678,710	-2,759,071	-2,841,843	-77,120	-2,649,583	-2,518,071	
2	Investment and Lease Income:	-50,200	-54,170	-145,493	-149,858	-154,354	-158,984	-163,754	-149,613	-358,203	91,347	
18	Caltrans	0	0	0	0	0	0	0	0	0	-25	
19	Homeowner Property Tax Relief	-9,000	-9,000	-9,000	-9,270	-9,548	-9,835	-10,130	-1,303	-8,674	-8,719	
20	Federal (typically grants)	0	0	-662,727	-748,548	-7,500,000	0	0	-18,291	-51,904	-44,791	FEMA grant
21	SB2557 Admin Fee	30,000	30,000	30,000	30,900	31,827	32,782	33,765	0	29,710	28,266	
22	Misc. Revenue	-900	0	-7,615	-7,844	-8,079	-8,322	-8,571	-7,615	0	0	Insurance for pump station
23	Total Revenue Budget/Actuals Baseline:	-2,306,694	-2,558,070	-3,319,776	-2,736,761	-2,818,864	-2,903,429	-2,990,532	-235,652	-3,038,654	-2,407,202	
24	Total Revenue Budget/Actuals Baseline + Project Grants:	-2,306,694	-2,558,070	-3,319,776	-3,485,309	-10,318,864	-2,903,429	-2,990,532	-253,943	-3,038,654	-2,451,993	
28	Maintenance of Buildings and Improvements	500,000	500,000	670,281	515,000	530,450	546,364	562,754	83,256	526,743	446,636	Pumps, City, CCNB, sediment, roof repair, gates and pipes
29	Rent Equipment								729			not budget lines
30	Miscellaneous Expenses	50,000	50,000	59,997	51,500	53,045	54,636	56,275	164	30,590	4,280	sand, bags, pump rental, hardware, room rental
30.1	<i>Proposed Mill Valley Funding Agreement</i>			430,000	1,760,000	825,000						Separate action Item 6 for 1/9/24 advisory board mtg
30.2	<i>Cardinal Right-of-Way, Permit Fees, Mitigation, and Monitoring</i>				750,000							Action would be brought to the board at a later date
30.3	<i>Crest Marin Permit Fees, Mitigation, and Monitoring</i>				100,000							Action would be brought to the board at a later date
33	Professional Services	75,000	75,000	2,547,739	77,250	79,568	81,955	84,413	559,589	273,009	349,990	BKF, GEI, S&W, Wood Rodgers, others on-call
33.1	Cardinal Levee Consulting			325,000								Advisory board action from 4/11/23 mtg
33.2	Crest Marin Rehabilitation Consulting			500,000								Advisory Board action from 10/10/23 mtg
33.3	Watershed Study for Cardinal/Shoreline					500,000						Action would be brought to the board at a later date
33.4	Final Design and Environmental for Cardinal/Shoreline						500,000					Action would be brought to the board at a later date
34	Construction	100,000	100,000	100,000	103,000	106,090	109,273	112,551	0	4,760	0	
34.1	Cardinal Levee Construction					2,322,300						Action would be brought to the board at a later date
34.2	Crest Marin Rehabilitation Construction						3,240,000					Action would be brought to the board at a later date
34.3	Marin City Construction				10,000,000							Action would be brought to the board at a later date
34.4	Carinal/Shoreline Construction							3,000,000				Action would be brought to the board at a later date
39	Education and Training	0	0	0	0	0	0	0	0	0	100	not budgeted lines
40	Mileage	0	0	0	0	0	0	0	0	14	0	not budgeted lines
46	Utilities	0	0	0	0	0	0	0	0	0	12,700	not budgeted lines
47	Utilities - Electric	20,000	20,000	20,000	20,600	21,218	21,855	22,510	8,021	24,843	13,194	pump stations
49	Utilities - Water	2,000	2,000	2,000	2,060	2,122	2,185	2,251	625	1,751	1,837	
50	Total Services & Supplies (S&S) Expenditure Baseline:	747,000	747,000	3,400,017	769,410	792,492	816,267	840,755	652,384	861,710	828,736	
51	Total S&S Expenditure Baseline + Potential Projects:	747,000	747,000	4,655,017	13,379,410	4,439,792	4,556,267	3,840,755	652,384	861,710	828,736	
54	Water Resources Staff Costs	769,600	754,630	814,630	874,630	900,869	927,895	955,732	0	815,776	688,898	Project managers and engineers, O&M oversight, admin
55	Building Maintenance Staff Costs	92,700	92,700	92,700	60,000	61,800	63,654	65,564	0	39,499	36,187	Operate pump stations
57	Engineering Division Staff Costs	77,250	77,250	0	72,000	74,160	76,385	78,676	0	0	0	QA/QC Design and Construction
58	Parks Department Staff Costs	0	0	0	6,000	6,180	0	0	0	0	0	Marin City support
59	Print Shop Staff Costs	0	0	0	3,000	3,090	3,183	3,278	0	83	83	Mailers
60	Real Estate Staff Costs	0	0	0	78,750	121,710	15,000	15,450	0	0	0	Working on right-of-way for projects, etc.
61	Roads Division Staff Costs	0	0	0	36,000	37,080	38,192	39,338	0	0	0	Mowing, tide gate maintenance, minor sediment removal
62	IST Staff Costs	0	0	0	2,400	2,472	2,546	2,623	0	0	0	Tech support for public meetings
63	Vehicle Maintenance Staff Costs	0	0	0	3,000	3,090	3,183	3,278	0	0	0	Maintain pump motors and generators
64	Community Development Agency Staff	0	0	0	12,000	1,500	1,545	0	0	0	0	Oversee project CEQA compliance
65	Indirect Cost Allocation (A87)**	23,426	267,098	267,098	275,111	283,364	291,865	300,621	66,775	23,426	25,192	County Counsel and actual staff cost increase in FY 2022
66	Total Staff Costs (Salaries, Benefits, Overhead):	962,976	1,191,678	1,174,428	1,422,891	1,495,315	1,423,448	1,464,560	66,775	878,783	750,359	
67	Transfer Out	0	0	0	0	0	0	0	0	180,000	15,000	Prior years: Lomita, TAM grant contributions
68	Total Expenditure Baseline Budget/Actuals:	1,709,976	1,938,678	4,574,445	2,192,301	2,287,807	2,239,715	2,305,315	719,159	1,920,493	1,594,095	
69	Total Expenditure Baseline Budget + Project /Actuals:	1,709,976	1,938,678	5,829,445	14,802,301	5,935,107	5,979,715	5,305,315	719,159	1,920,493	1,594,095	
70	Set aside for PUMP STATIONS	0	0						0	0	0	Pump stations due for rehabilitation (moved to lines 34.2&.4)
71	Set aside for MARIN CITY	0	0						0	0	0	FEMA grant local share (moved to line 34.3)
72	Total Project Designations:	0	0	0	0	0	0	0	0	0	0	
73	Projected Fund End Balance (assuming future approval of project costs):			14,091,307	2,774,315	7,158,071	4,081,786	1,767,003				
74	Projected Fund End Balance with only Existing and Baseline Budget:			15,346,307	15,890,767	16,421,823	17,085,538	17,770,755				
75	FY 2022-23 Fund End Balance:			\$ 16,600,976.05								

* Currently the revised budget for this fiscal year is the baseline budget, plus encumbered contracts from prior fiscal years carried forward, and approved adjustments for major project contracts.

**<https://marinflooddistrict.org/california-office-of-management-and-budget-a87/>

Shaded gray rows are not part of the baseline budget but are preliminary project estimates provided for context. They would be part of separate actions but the Advisory Board and are pending Board of Supervisors approval.