Marin City Stormwater Plan Update



MARIN COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

FLOOD ZONE 3 ADVISORY BOARD MEETING APRIL 9, 2024

Judd Goodman, PE Senior Civil Engineer

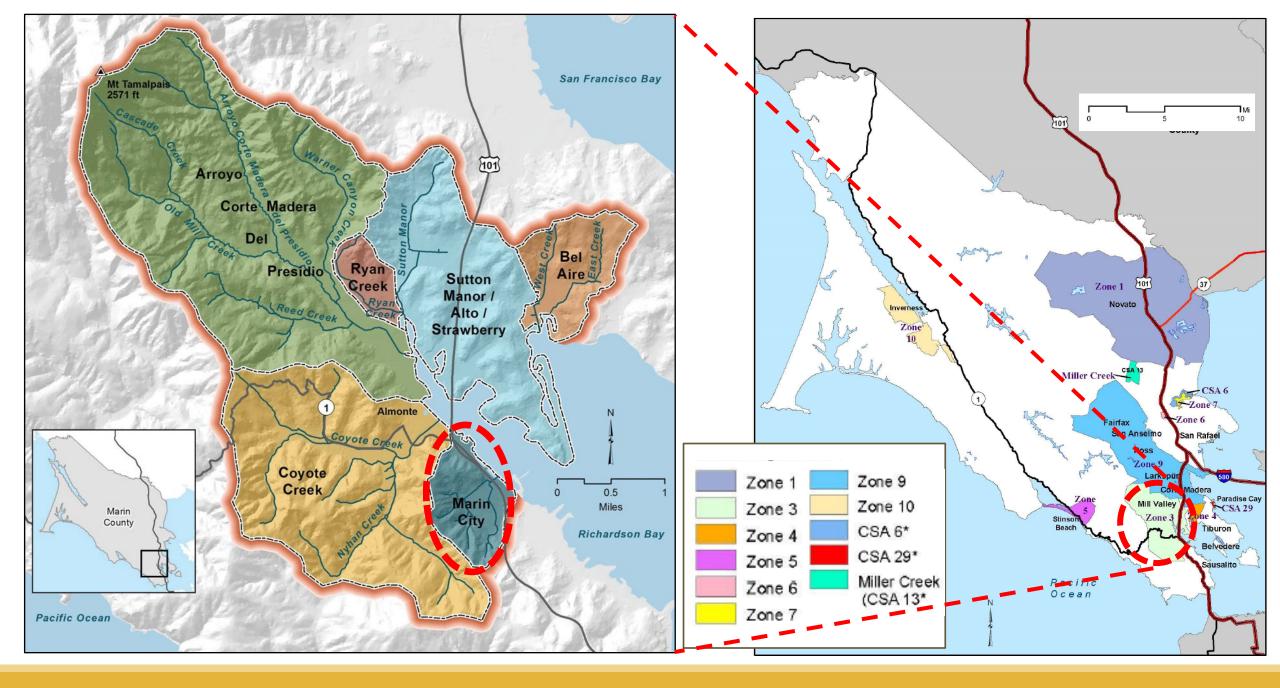
Agenda

- Setting
- Stormwater Plan Background
- Improvements
- Evaluation



Setting









History

- Dairy Farm
- World War II Ship Building
 - 1942-1945
- Marin Housing Authority redevelopment
 1950s
- Community Services District
 1958
- Residential and commercial development
 - 1980s & 90s





Past Flooding and Actions

• **2014** —

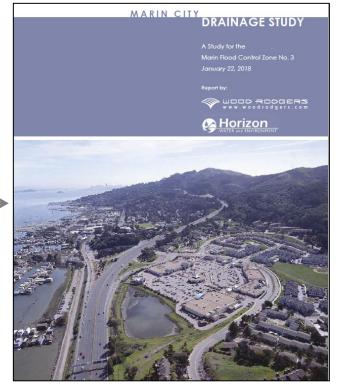
2017

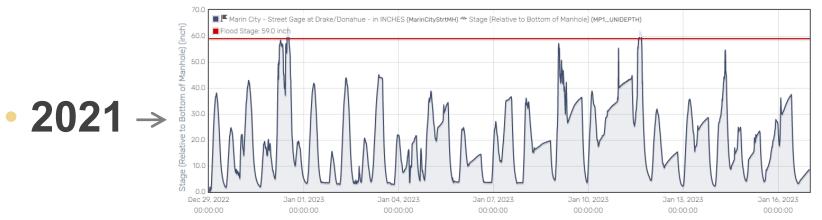


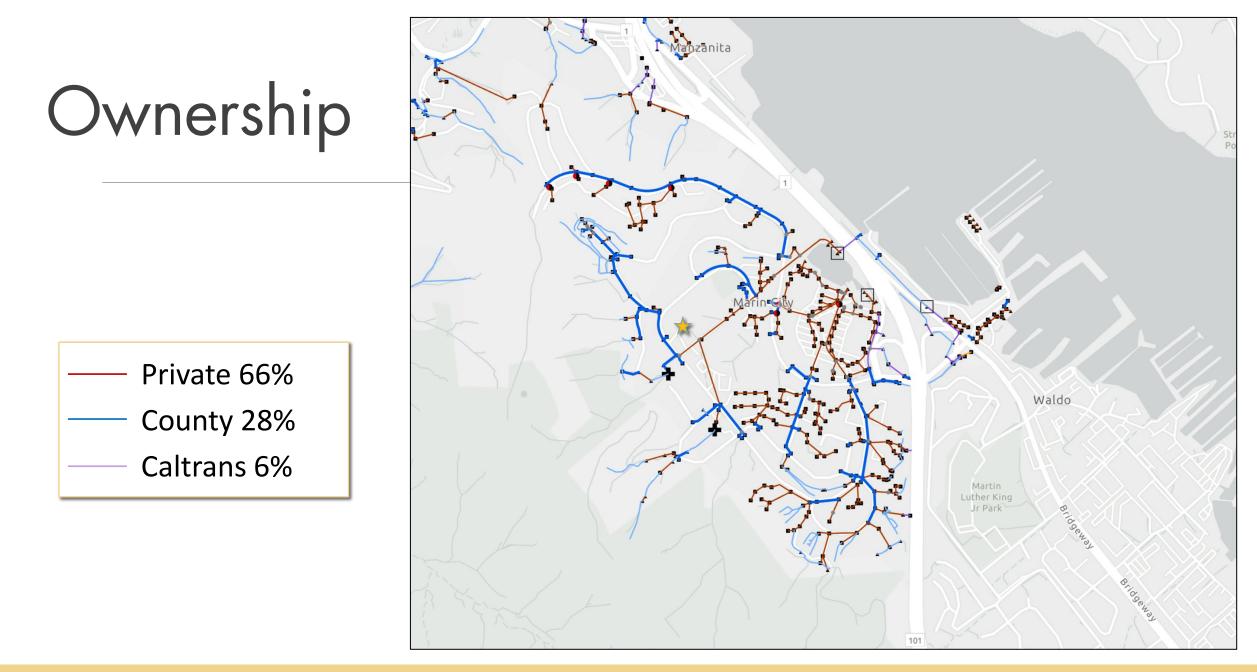
Southern Marin Watershed Guide Planning for Floods

ly 2016

Southern Marin Flood Protection and Watershed Program







Stormwater Plan Background



Stormwater Plan Purpose

- Identify flood and drainage issues
- Recommend and prioritize improvements to reduce flood risk with community input
- Improve effectiveness of flood management operations
- Integrate with Caltrans Planning
- Attract funding



Work Plan

- Collect Ideas/Data
- Modify model
- Analyze
- <u>Recommend</u>
- Prioritize
- Document

COLLABORATE

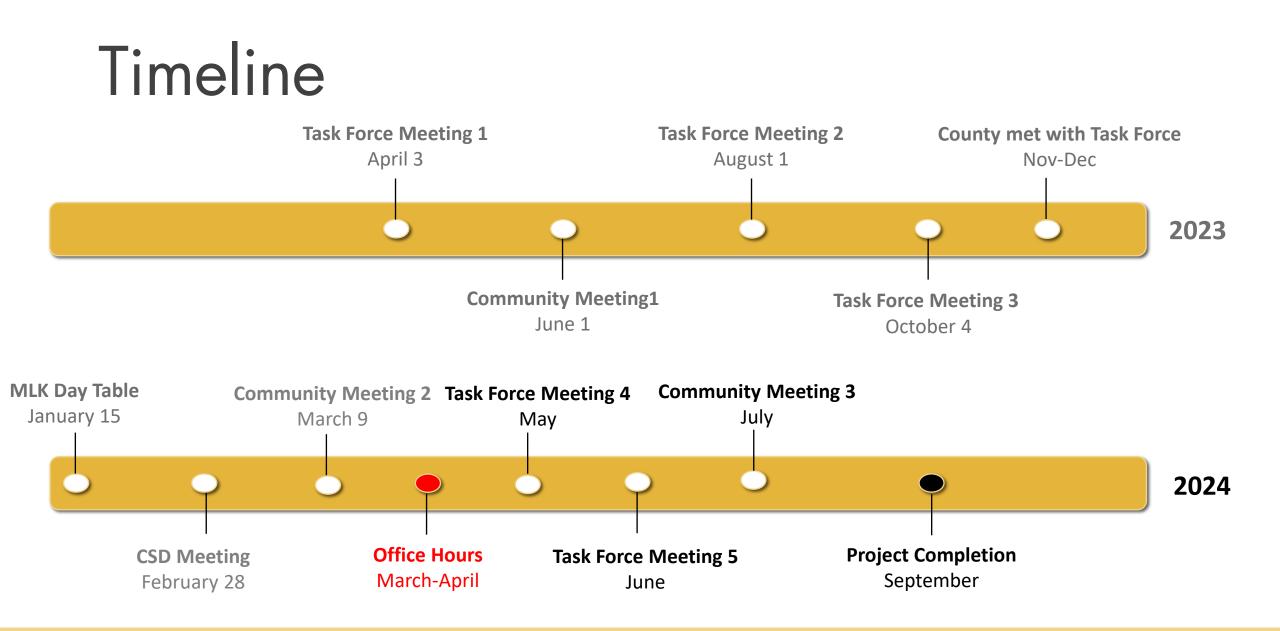


Community Communication



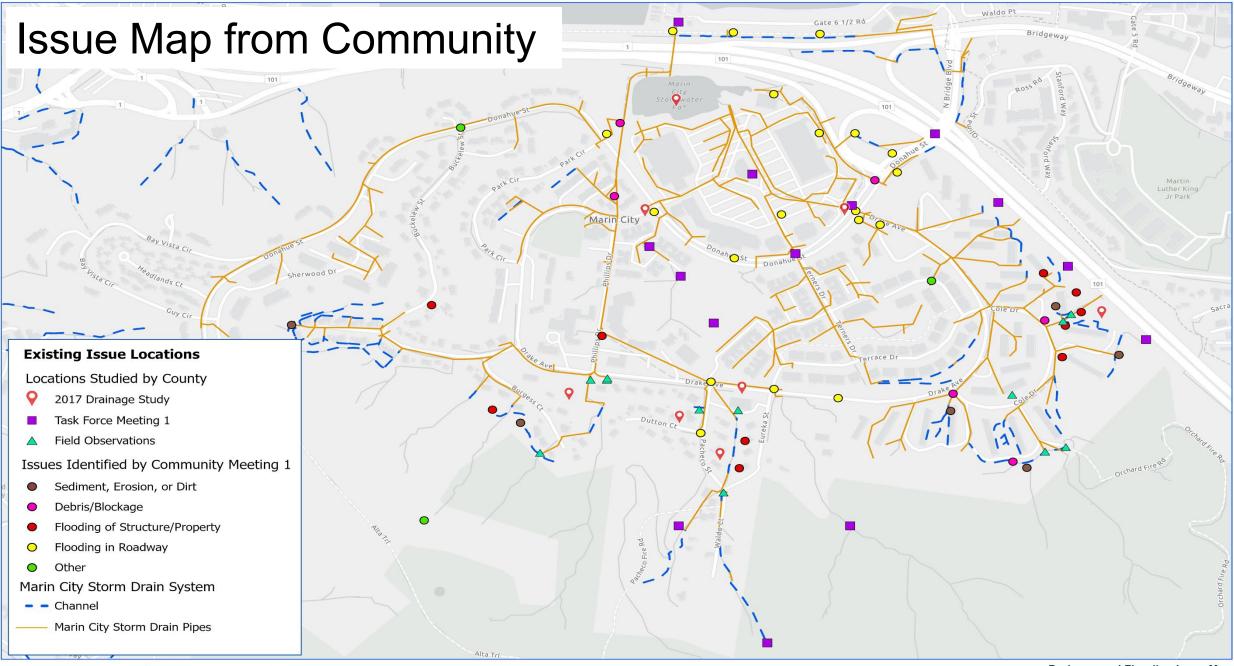
- 13 small outreach events
- 3 task force meetings

- 2 community meetings
- 1 CSD meeting



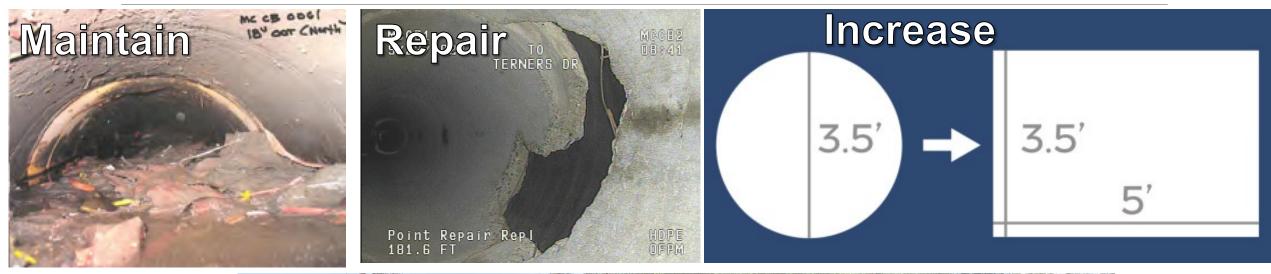
Improvements



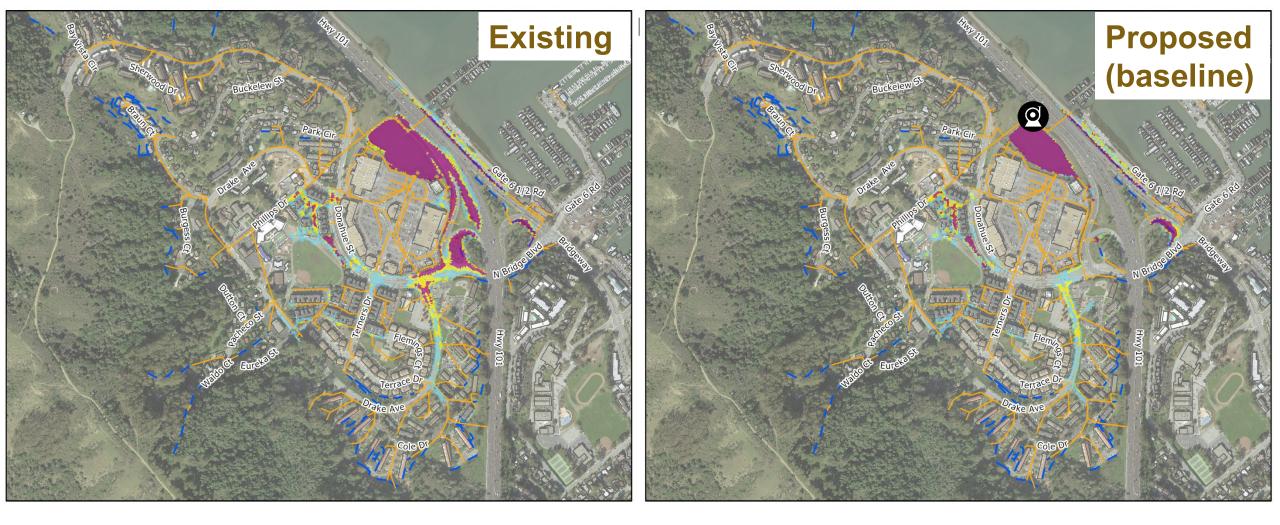


02/2024

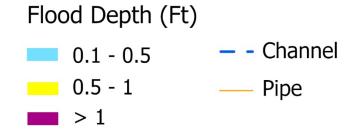
Improvement Types

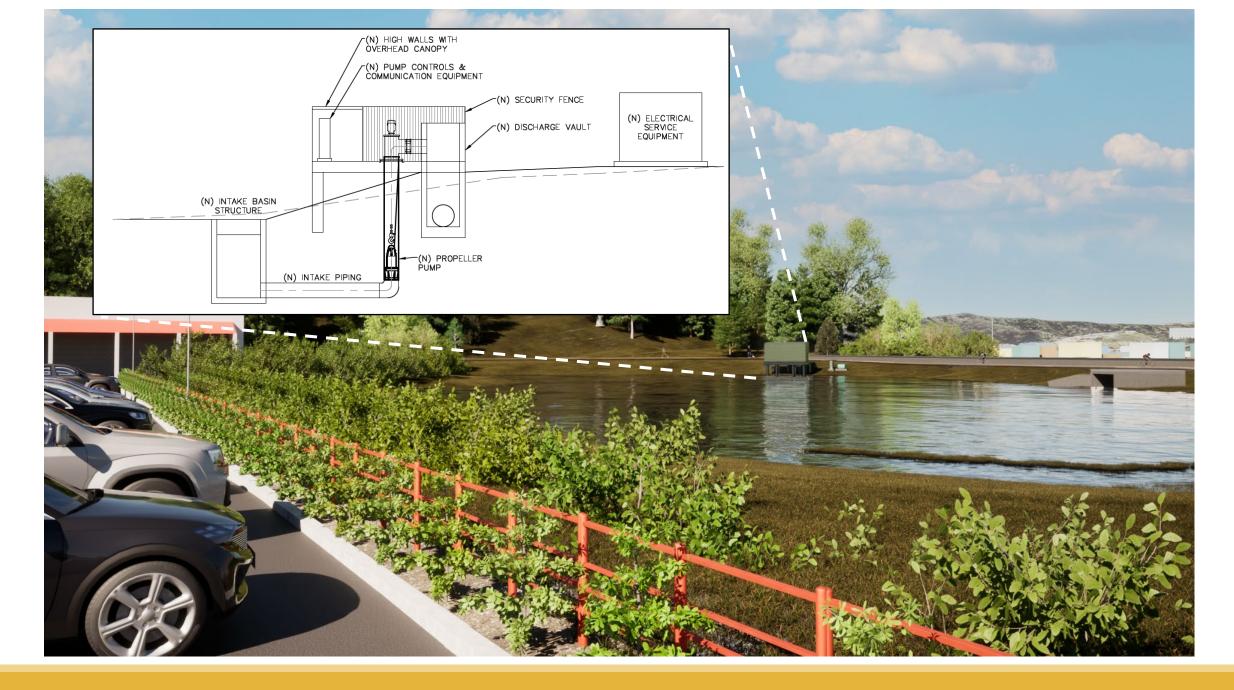




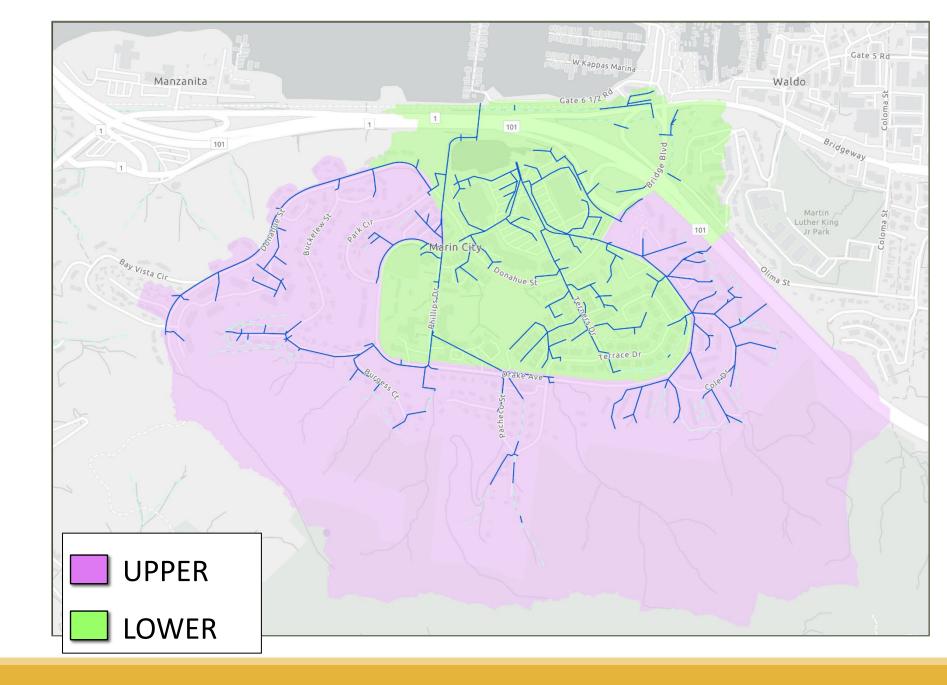


Flood Risk Reduction





Upper vs Lower Watershed



Lower Watershed Concepts

- Drake Pipe Upsize and Increase Inlet Capacity
- Bypasses
 - Donahue Full Bypass
 - Drake Partial Bypass to Pond
 - Drake Partial Bypass to Bay
- Drake and Donahue Street Raising
- Drake Watershed Detention
- New Outfall
- •Maintenance & Repair!



Drake Pipe Upsize and Increase Inlet Capacity

Marin City Pond Flood Reduction Project (under design, construction 2026)

Bay Vista Cia



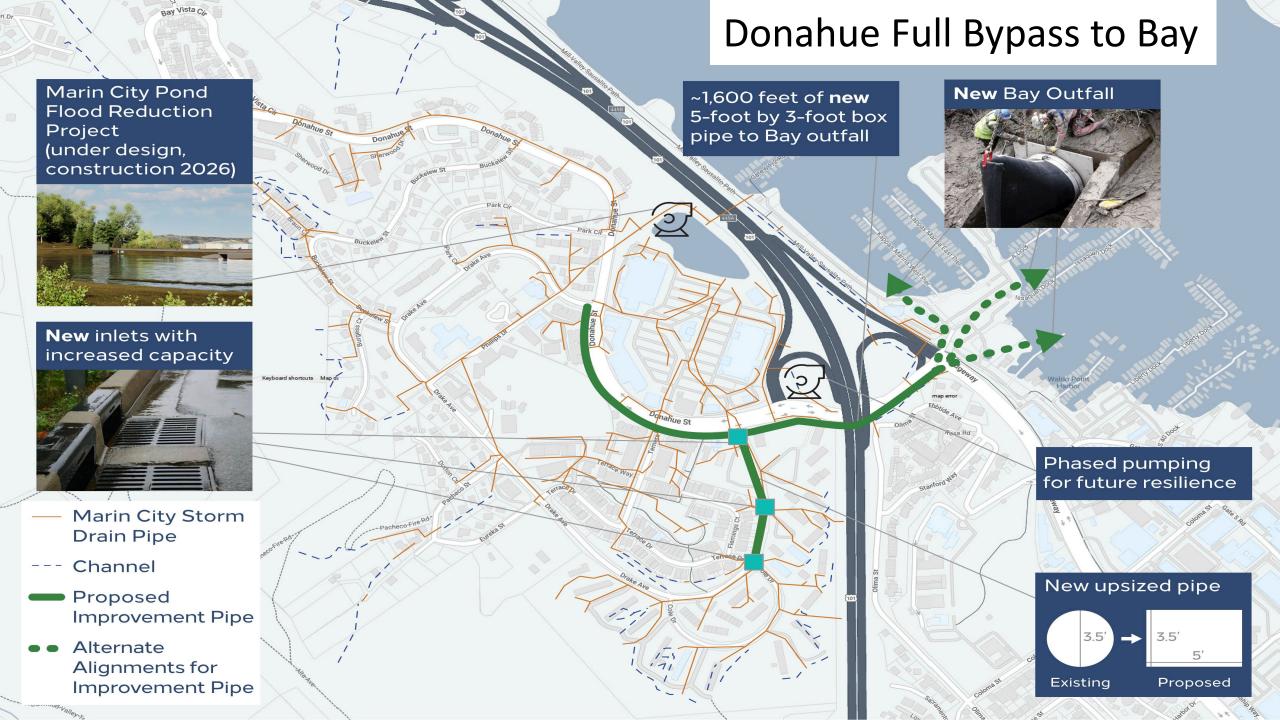
New inlets with increased capacity

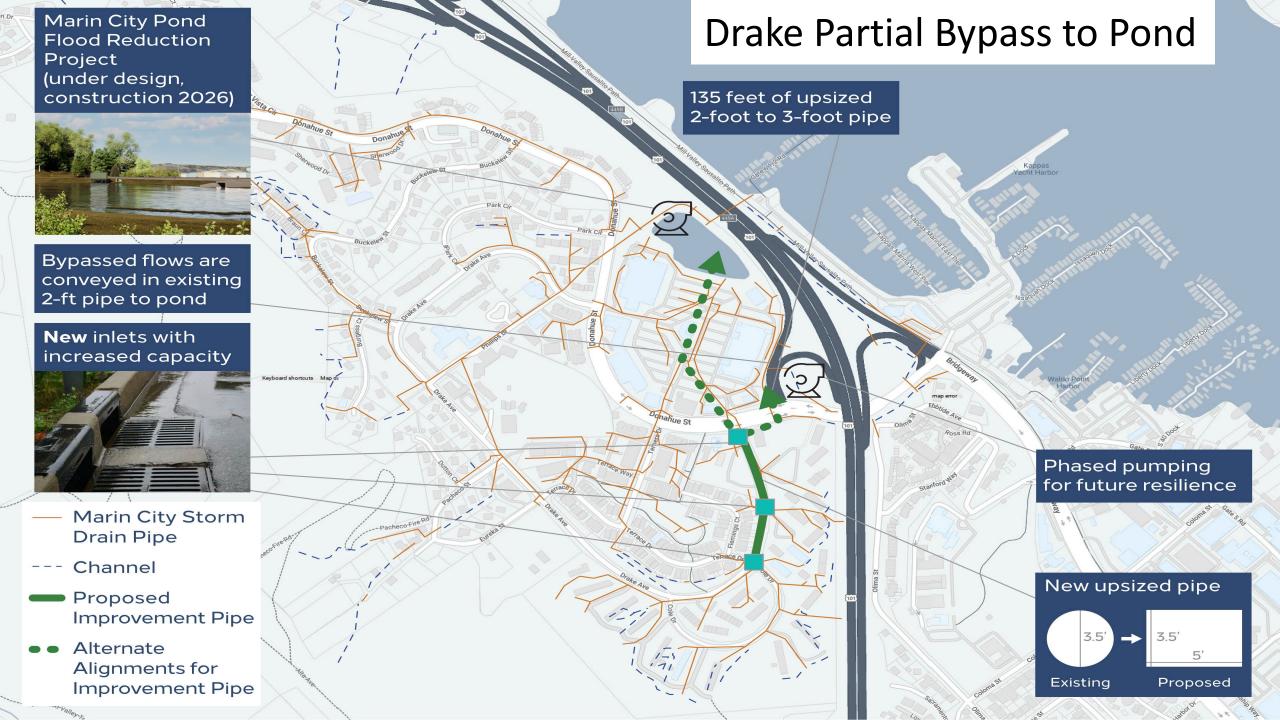


- Marin City Storm
 Drain Pipe
- -- Channel

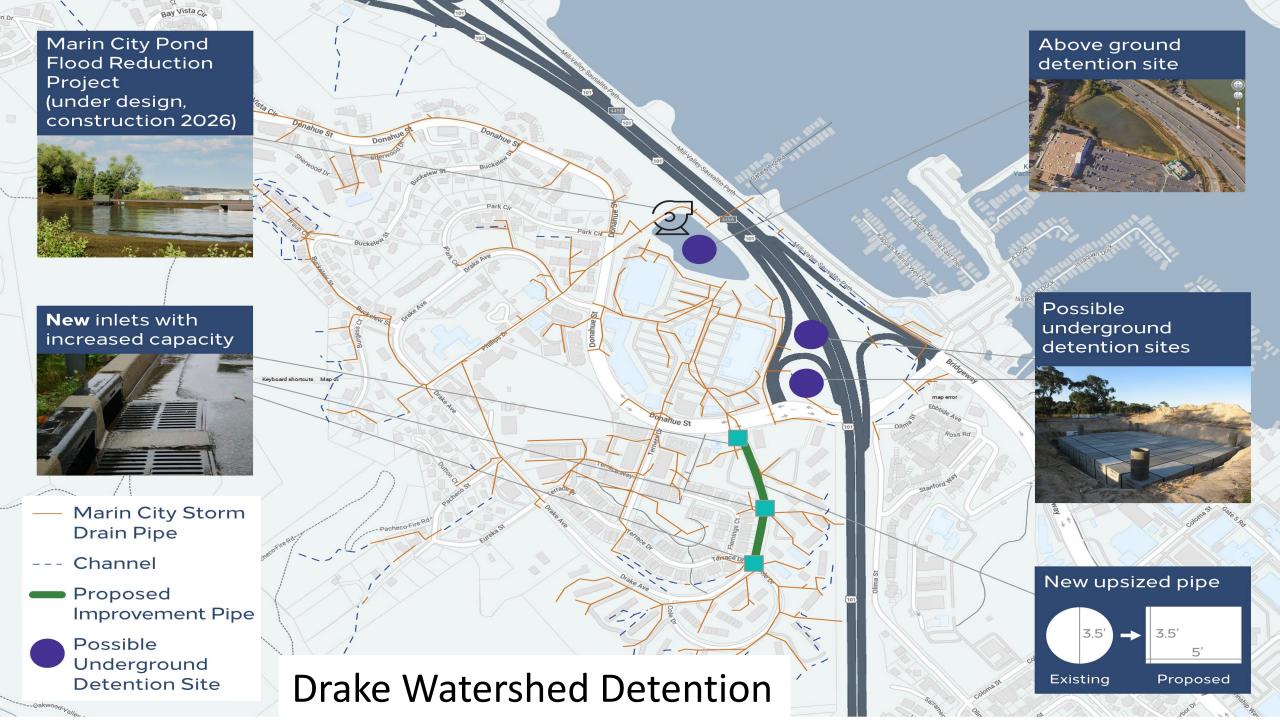
 Proposed Improvement Pipe











Drake and Donahue Street Raising

Marin City Pond **Flood Reduction** Project (under design, construction 2026)

Bay Vista Ci

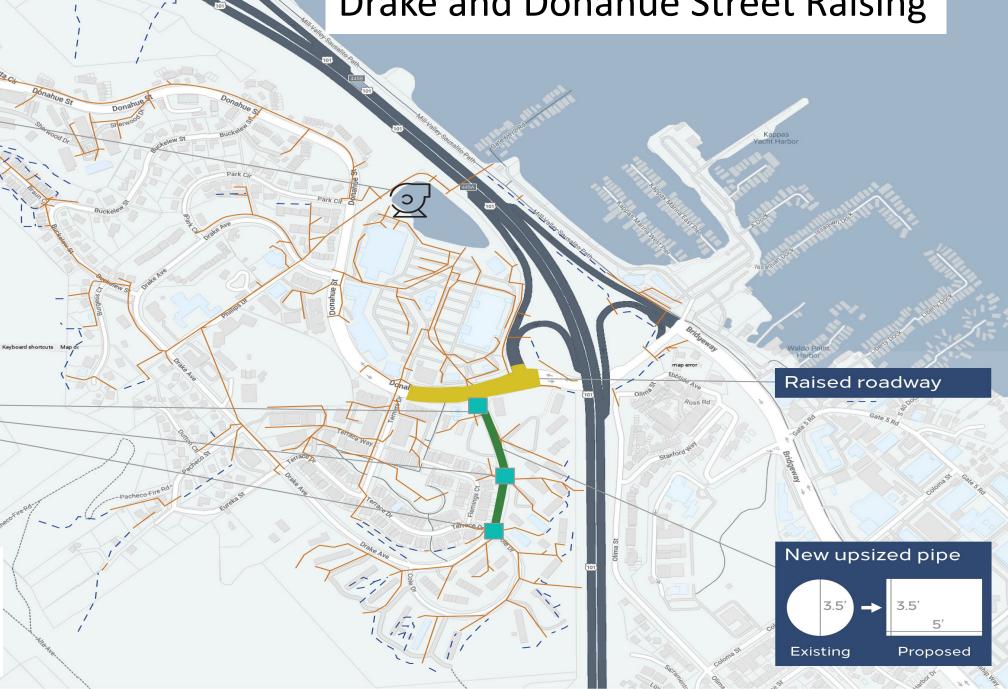


New inlets with increased capacity



- Marin City Storm **Drain Pipe**
- Channel

Proposed Improvement Pipe



New Outfall to Bay

Marin City Pond Flood Reduction Project (under design, construction 2026)



New inlets with increased capacity

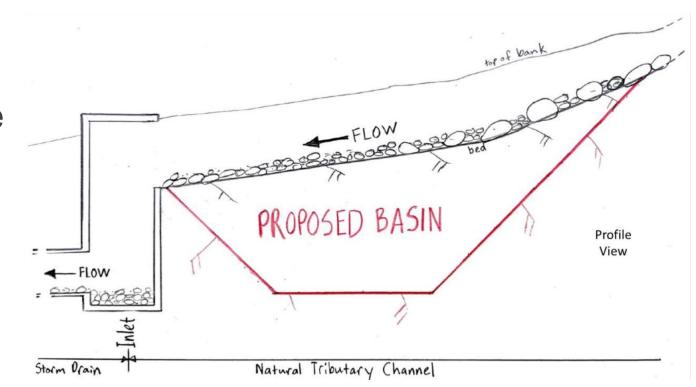


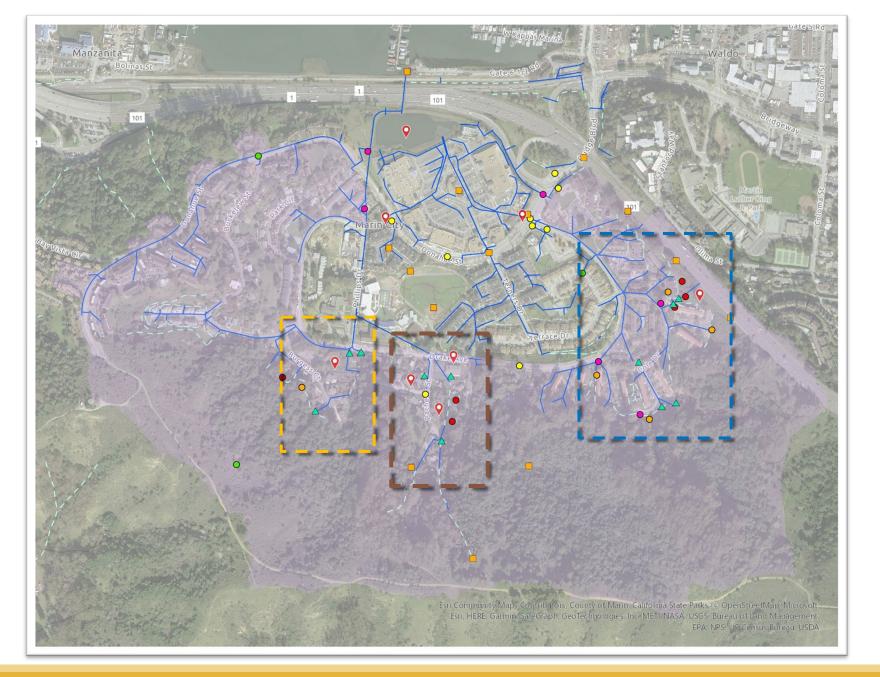
- Marin City Storm
 Drain Pipe
- -- Channel
- Proposed Improvement Pipe
- Alternate Alignments for Improvement Pipe



Upper Watershed Concepts

- Improve trash racks
 Increase inlet capacity
 Connect hillside drainage
 Hillside Management
 Sediment Basins
- Maintenance & Repair!





A. Burgess and Phillips/Drake Staircase

B. Eureka / Pacheco Ditch

C. Hillside Drainage / Cole Drive

Evaluation



Criteria

- •Flood management effectiveness
- •How can this improve the entrance/exit to Marin City?
- Does this reduce flooding near our homes and buildings?Climate change resiliency
- •What is the impact on our community's health?
- •Will this project affect our plants, air, trees, water, etc.?
- •Will this increase access to our recreational areas?
- •Can the project be combined with green infrastructure features?
 - How will this impact our community during construction?

Criteria Weight

Online Survey

https://www.surveymonkey.com/r/MarinCityTaskForceSurvey

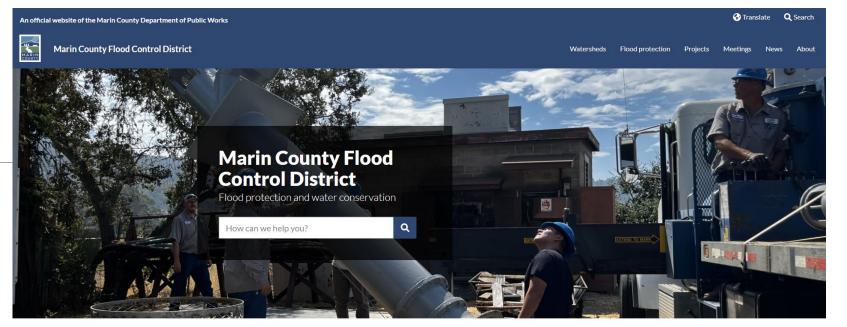
Community Meeting Exercise

• Place cards in appropriate bin:

Mock Report Card

PROJECT CONCEPT	COMMUNITY CRITERIA			Overall /
	Flood Control	Environmental & Community Health	Construction Impact	Grade Point Average
Units/Credits/ Weight	12	6	4	22
#1	В	В	С	2.8
#2	Α	С	D	2.9
#3	С	Α	В	2.7

Thank You!



• Website

ohttps://marinflooddistrict.org/marin-city-stormwater-plan/

• Email

oMarinCityStormwaterPlan@marincounty.org

• Office Hours

oThursdays, 5 pm @ Marin City CSD



Question & Answer



Marin City Pond Pump Station

Description

- Outlet for entire watershed
- New Pump Station (50 cfs)
- Improve entrance/exit of City

Schedule

- Design & Permitting = April 2025
- Construction = Summer 2026

Cost

~\$10 Million

