

# Corte Madera Creek Flood Risk Management Project, Phase 1: General Workshop

Public Meeting June 25, 2020



### **How to Participate in the Workshop**



- All attendees will be on mute until we open up the line for comments and questions
- To comment or ask questions, type your question into the question bar
- Only use the question bar to ask questions, the chat box has been disabled during this webinar
- To speak during the comment and question period, please click the hand icon to virtually raise your hand, and we will unmute you
- If you are joining by phone, please dial \*9 to virtually raise your hand, and we will unmute you



### **How to Participate in the Workshop**



- We will first address questions and comments received via the question bar. We will then open the line to comments and questions for individuals who have their hands raised.
- After the meeting you may email any comments/questions to cortemaderacreek@marincounty.org
- This meeting is being recorded and will be available at:

<u>https://www.marinwatersheds.org/resources/projects/corte-madera-creek-flood-risk-management-project</u>

### Introduction

#### **AGENDA**

- How to Participate
- Project History
- Project Update
- Overview of Project
- Project Schedule
- Questions/Comments



#### **Presenters**



Joanna Dixon
Associate Engineer, Marin Flood Control and Water Conservation District
Project Manager for the Corte Madera Creek Flood Risk Management Project



**Liz Lewis**Water Resources Manager, Marin Flood Control and Water Conservation District



Susanne Heim Principal, Panorama Environmental, Inc. Moderator and CEQA expert for the Corte Madera Creek Flood Risk Management Project



Raymond Wong
Senior Project Manager, GHD, Inc.
Design Engineer for the Corte Madera Creek Flood Risk Management Project



Jessica Hall

Landscape Architect, GHD, Inc. **Landscape Architect/Geomorphologist** for the Corte Madera Creek Flood Risk Management Project



Matt Smeltzer
Water Resources Engineer/Fluvial Geomorphologist, geomorphDESIGN
Design Engineer for the Corte Madera Creek Flood Risk Management Project

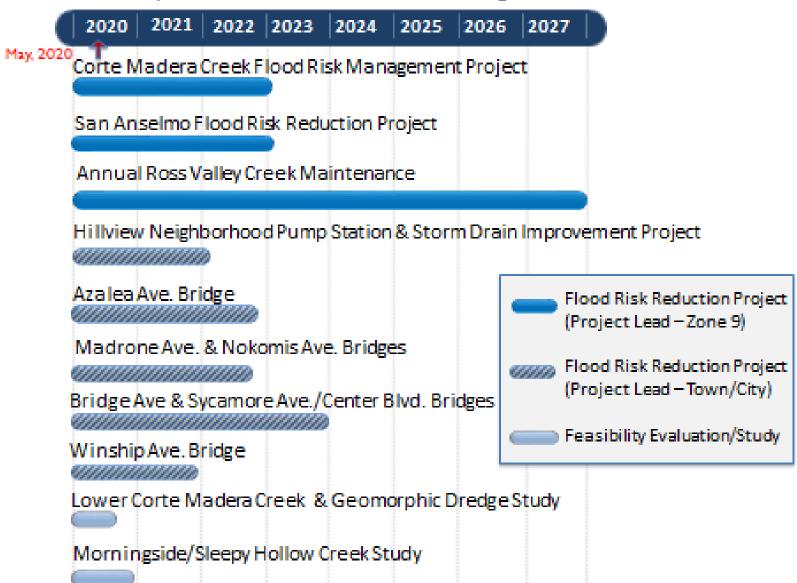
### **Purposes of Meeting**



- Provide an update to the Corte Madera Creek Flood Risk Management Project and District activities in 2019 and 2020
- Introduce the project components and preview the design concepts and components
- Solicit public input before starting the EIR process
- Provide an outline and schedule for the project next steps

#### **Ross Valley Watershed Program**

Ross Valley Flood Protection & Watershed Program - Work Plan Timeline



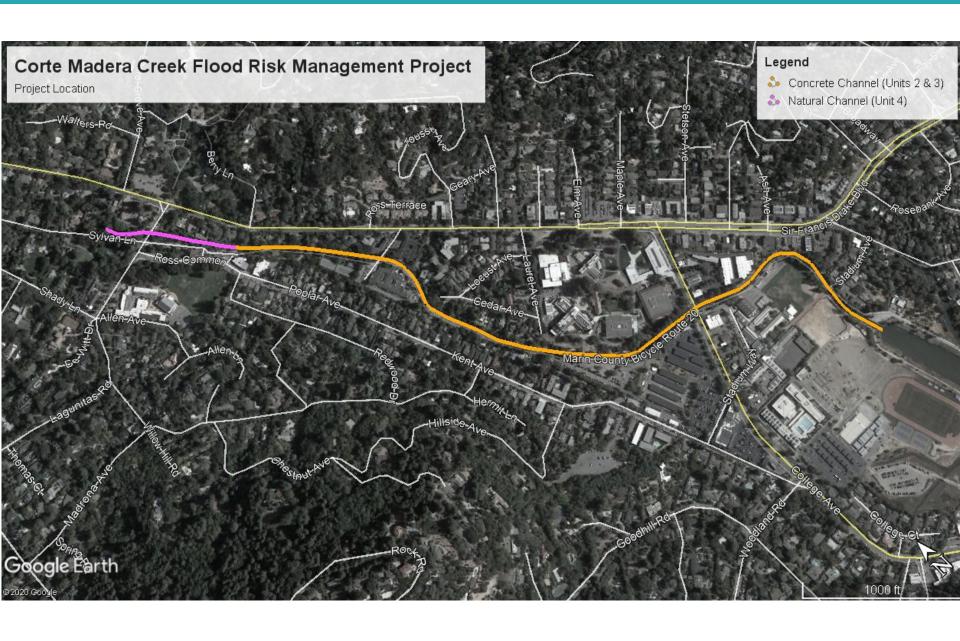
## **Project Update**





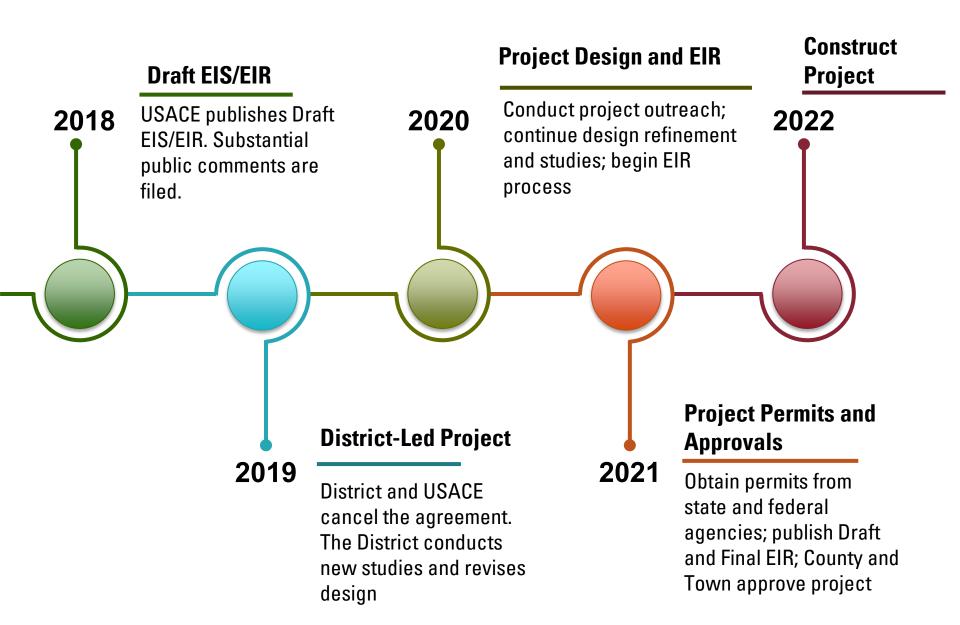


### **Corte Madera Creek Flood Risk Management Project**



#### **Project Timeline**

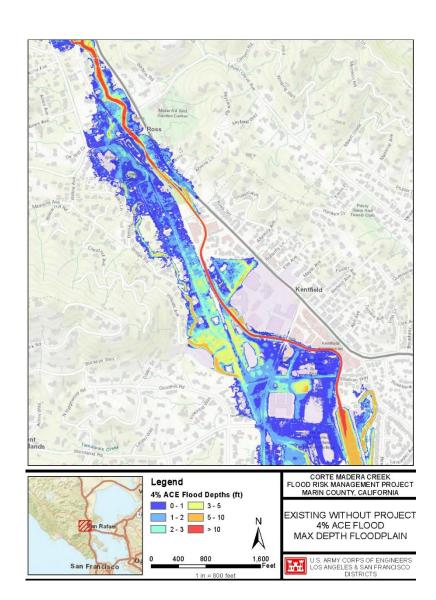




#### **Risk of Current Condition**



- Flood risk in Lower Corte Madera Creek watershed
- Fish passage limitations in concrete channel
- Aging concrete channel infrastructure
- Limited habitats along channel corridor
- Limited access to channel corridor
- Projected sea level rise vulnerability
- DWR grant funding deadline to construct by Dec 2022



#### **Draft Project Objectives**



#### FLOOD RISK REDUCTION

Reduce overall flood inundation extent and depth in the Town of Ross and Kentfield areas.

#### ENVIRONMENTAL BENEFITS

Improve fish passage, natural creek processes, and fish and riparian habitat adjacent to the creek.

#### PUBLIC ACCESS AND RECREATIONAL QUALITY

Maintain public access along the creek via the multi-use path and enhance the recreational experience and amenities along the creek corridor to meet Town of Ross and Kentfield area community needs.

#### OPERATIONAL RELIABILITY

Improve operational reliability and reduce long-term maintenance costs through increasing maintenance access, improving channel stability, and protecting existing utilities.

#### REGULATORY COMPLIANCE

Comply with local, state, and federal environmental laws and regulations.

#### FISCALLY RESPONSIBLE

Implement a flood risk reduction project that can be accomplished with currently available local and grant funding and reasonably foreseeable grant funding opportunities.

## **Recent Work Completed by the District**



#### **Restart Project EIR Process**

#### **Collect Additional Information to Inform Project Design**

- Concrete channel material testing
- Property boundaries mapping
- Tree survey

#### **New Analysis to Validate Project Priorities**

- Fish passage assessment
- Utilities constraints analysis
- Preliminary floodplain inundation analysis

## **Recent Work Completed by the District**



#### **Concept Design for Project Components**

- Frederick Allen Park concept design
- Granton Park pump station concept design
- Concrete channel access ramp concept design
- Floodwall concept design
- Lower COM concrete channel removal design
- Construction methods, schedule, and planning level estimate

#### **Agencies, Stakeholder, and Community Engagement**

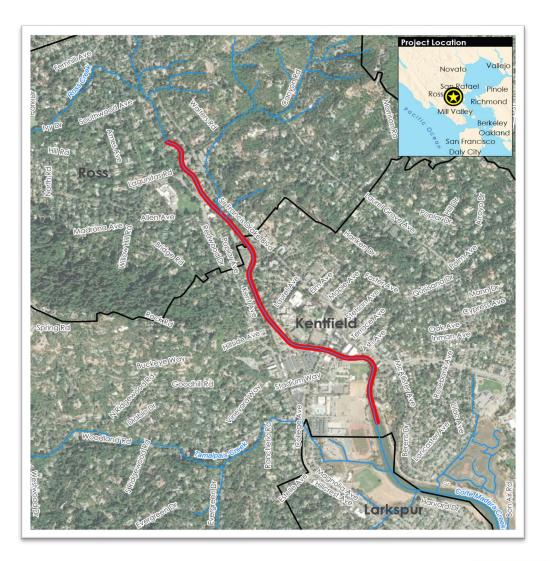
- Agency coordination meetings
- Technical coordination meetings with Town of Ross
- Pre-CEQA public workshops
- USACE and DWR coordination on partnership and funding

## **Current Efforts**



Activity	Sponsor	Status
Corte Madera Creek Flood Risk Management Project:  Unit 4 and Frederick Allen Park Fish pool improvements Floodwalls Pump Station Maintenance access ramp	District-Flood Zone 9	Funded through Flood Zone 9 and DWR matching grant funds. DWR grant requires construction to be completed by Dec. 31, 2022
Lower College of Marin Reach Concrete Channel Removal Project	Friends of Corte Madera Creek Watershed	60% design complete in Fall 2020. Seeking funding to complete design and construction.
Corte Madera Creek Fish Passage Project	Friends of Corte Madera Creek Watershed	30% design complete in early 2021. Seeking funding to complete design and construction.

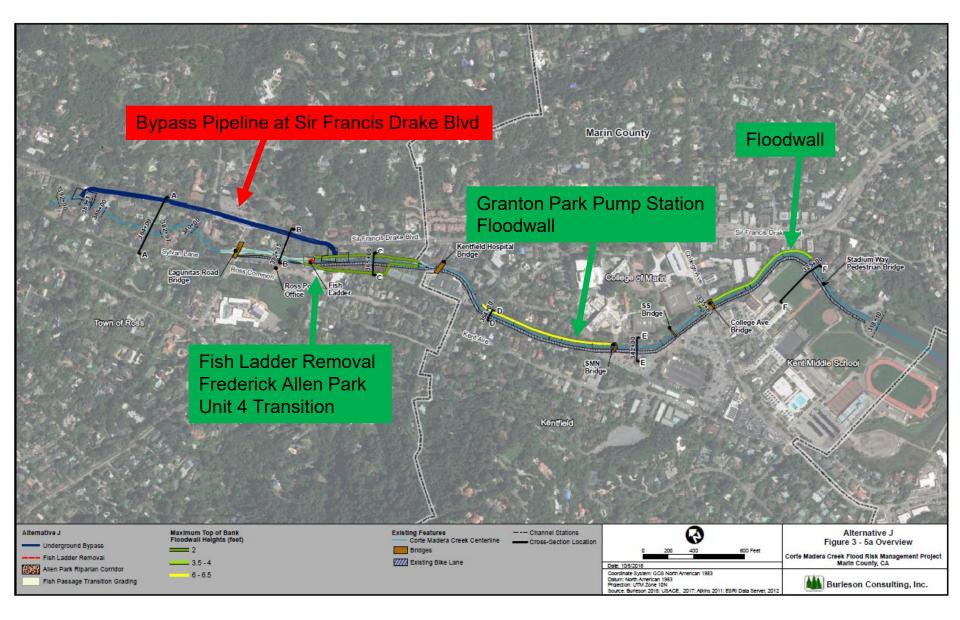
# **Project Components**





### **Previous USACE-led Project (CLOSED) – Alternative J**





#### **Overview**





- Unit 4 channel improvements and fish ladder removal
- Frederick Allen Park floodplain restoration

- Granton Park floodwall
- Maintenance access ramp
- Granton Park stormwater pump station
- Concrete channel fish pool improvements

- College Ave and downstream floodwall
- Lower College of Marin reach concrete channel removal

#### **Unit 4 and Frederick Allen Park**

(E) RVSD SAN. SEWER

FLOOD WALL

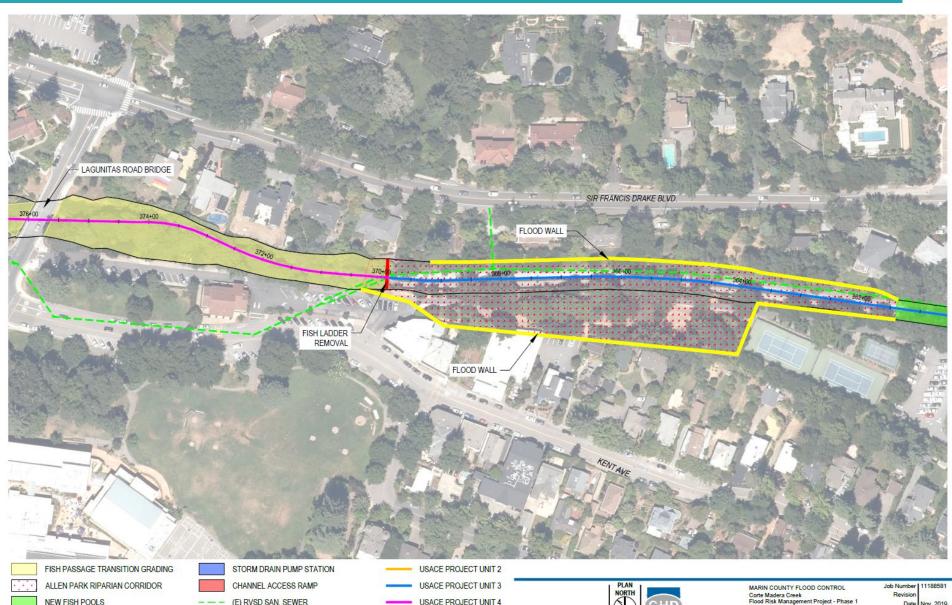
**NEW FISH POOLS** 

LOW CHANNEL CONCRETE REMOVAL



Figure 01b

Project Components

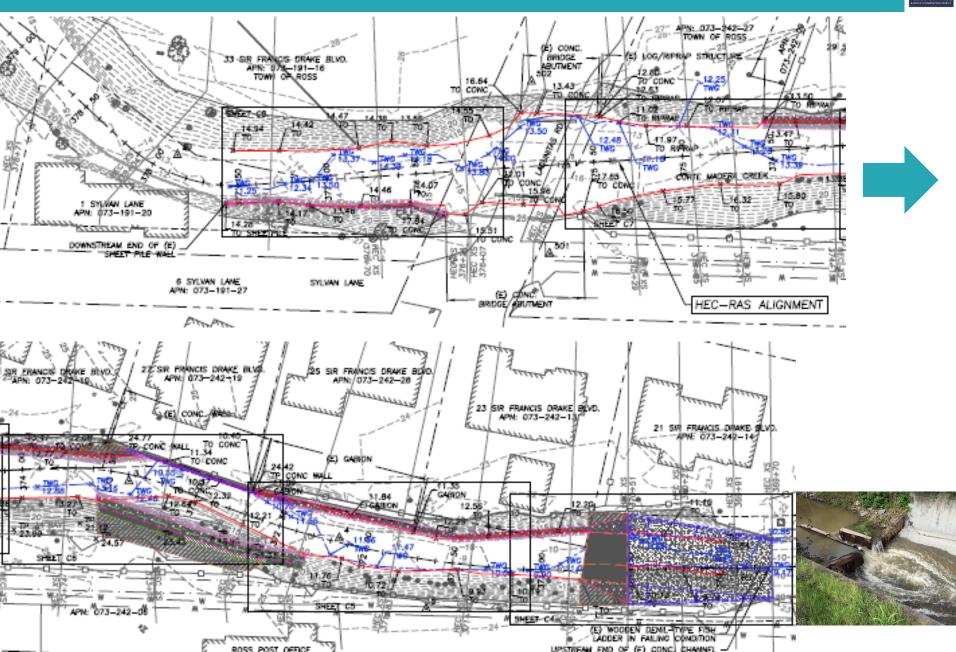


USACE PROJECT UNIT 4

CHANNEL BANK

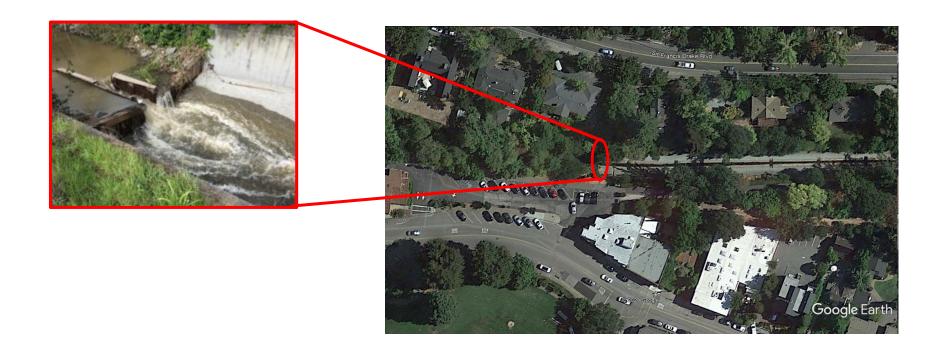
#### Unit 4





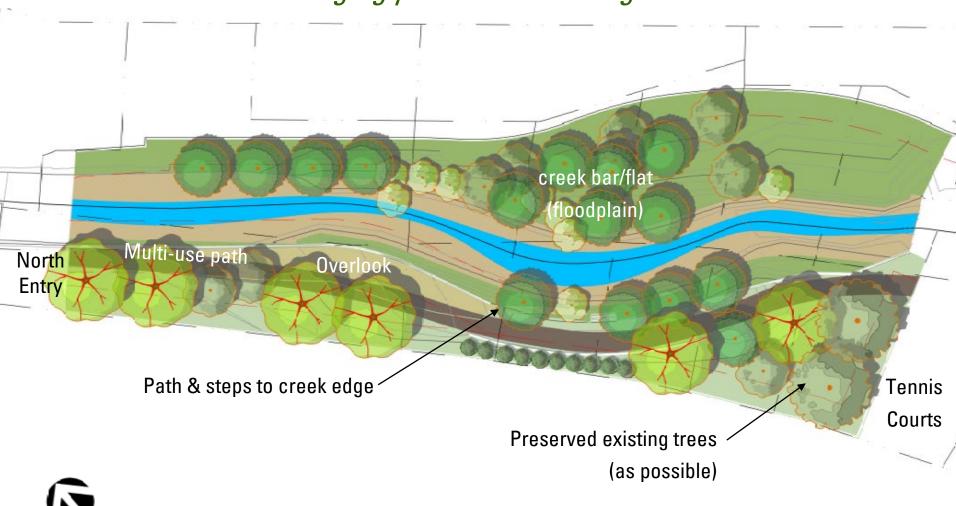
### Range of options in consideration at Frederick Allen Park

- Remove Unit 4 fish ladder only
- Left/Right Banks Improvements
- Full Improvements

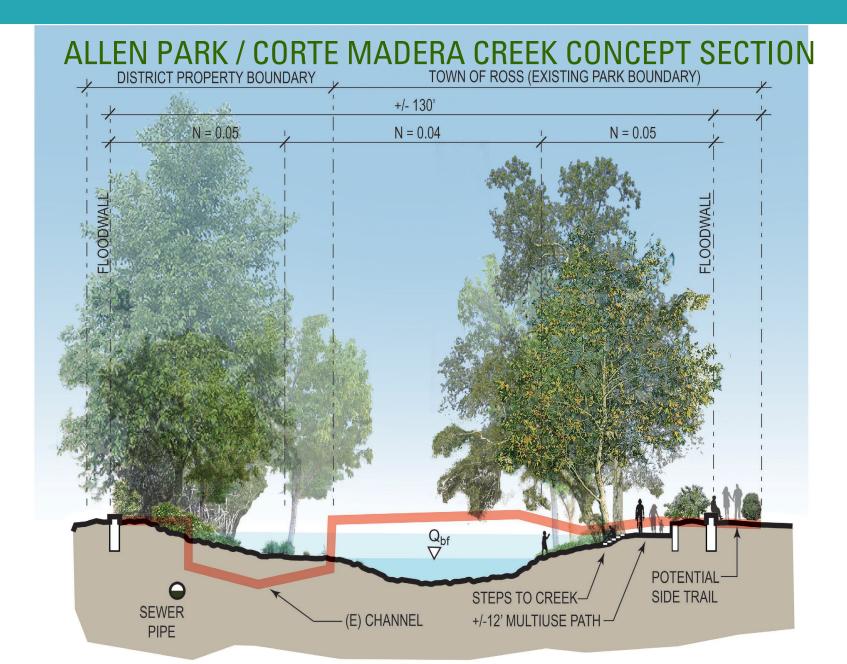


#### ALLEN PARK / CORTE MADERA CREEK CONCEPT

Bringing park and creek together

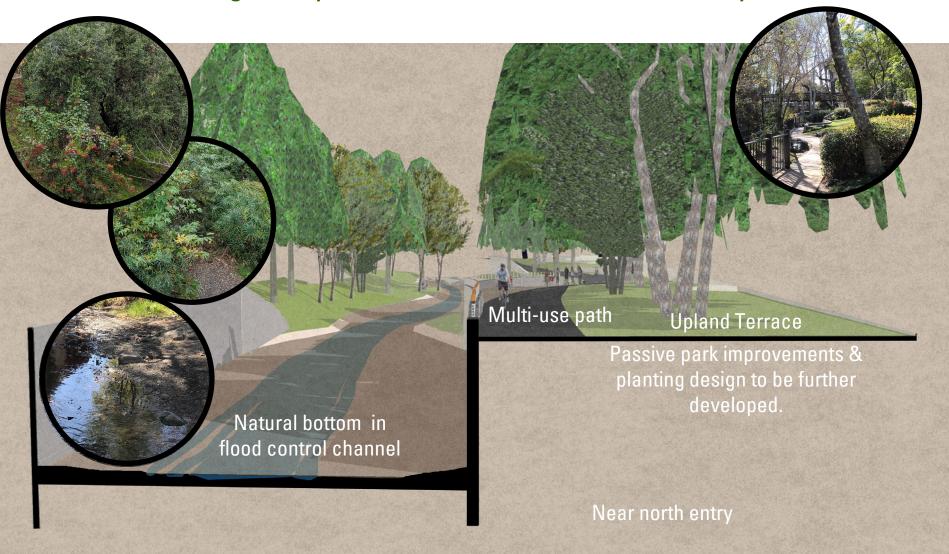








A walk through the park: sectional view at north entry

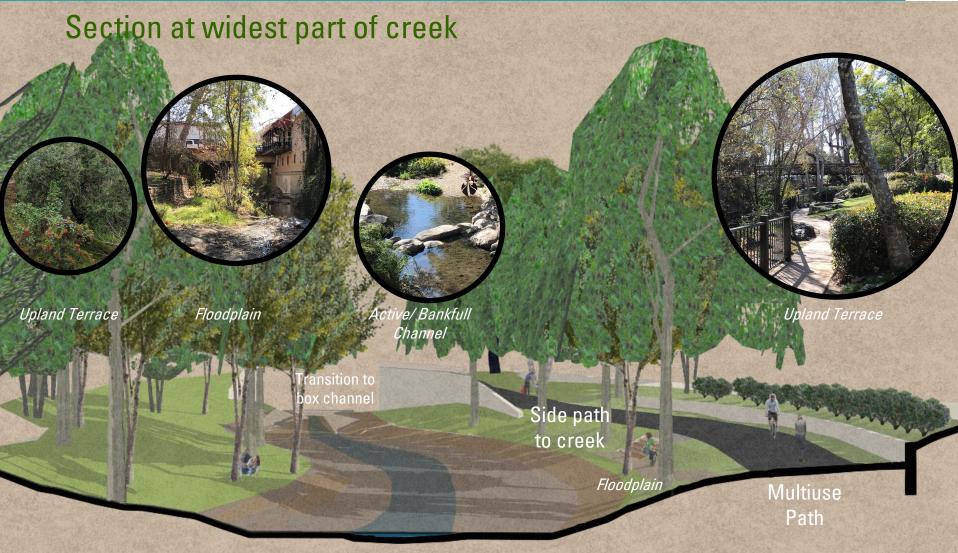




At the overlook



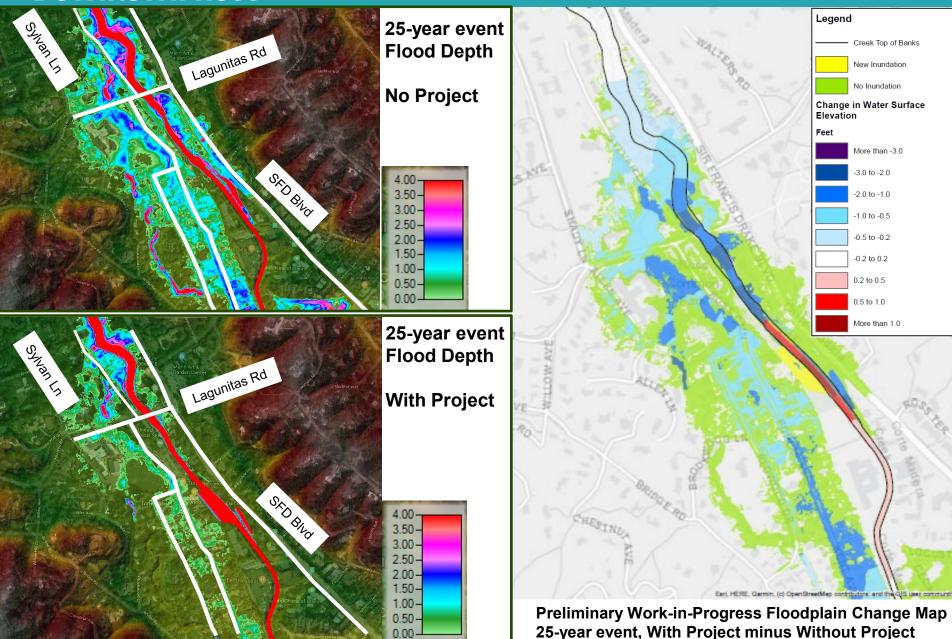








## Preliminary Floodplain Analysis (Work-in-Progress) Downtown Ross

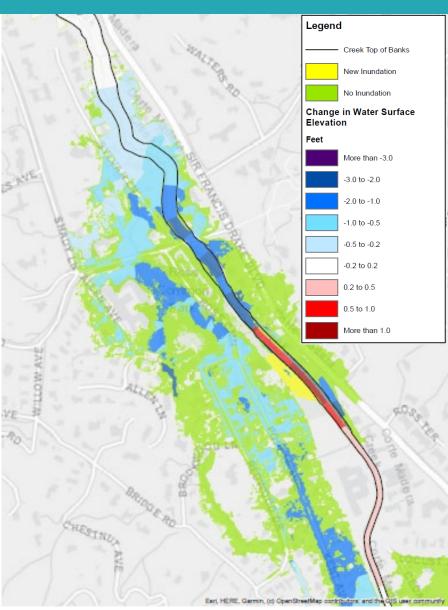


## Preliminary Floodplain Analysis (Work-in-Progress) Downtown Ross



25-Year Event Future Condition	Allen Park Action	Water Depth
No Project	No Action	12" to 14"
With Project*	Left Bank Improvement	8" to 10"
	Right Bank Improvement	6" to 8"
	Full Improvement	6" to 8"
	Fish Ladder Removal Only	6" to 8"

<sup>\*</sup> Fish passage improvement is currently in concept design and will be added into the analysis.



Preliminary Work-in-Progress Floodplain Change Map 25-year event, With Project minus Without Project

#### **Granton Park Area**



Job Number | 11188581

Figure 01c



USACE PROJECT UNIT 4

CHANNEL BANK

LOW CHANNEL CONCRETE REMOVAL

CHANNEL ACCESS RAMP

(E) RVSD SAN. SEWER

FLOOD WALL

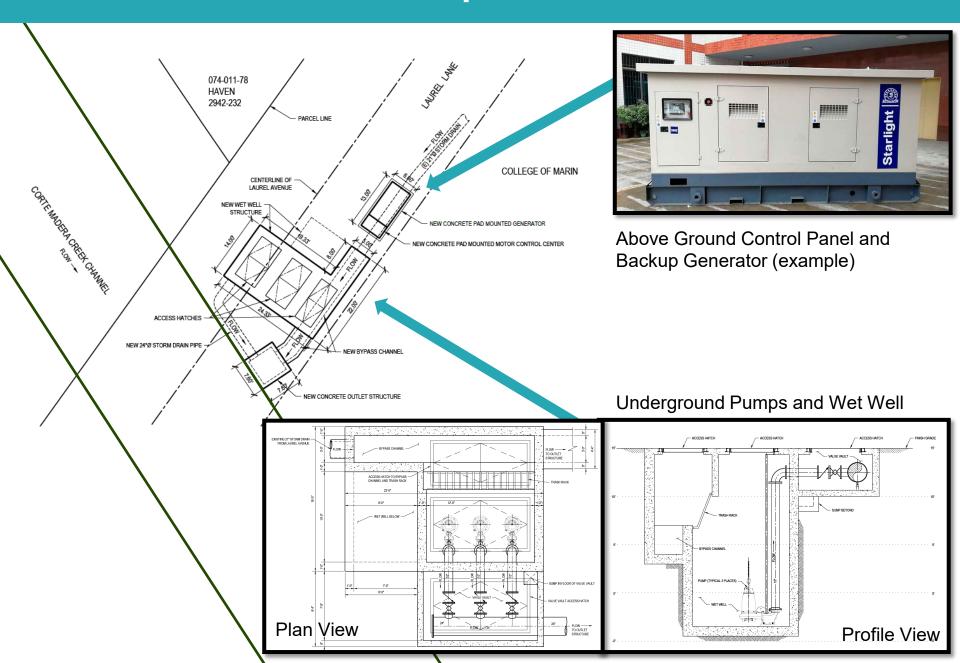
ALLEN PARK RIPARIAN CORRIDOR

**NEW FISH POOLS** 

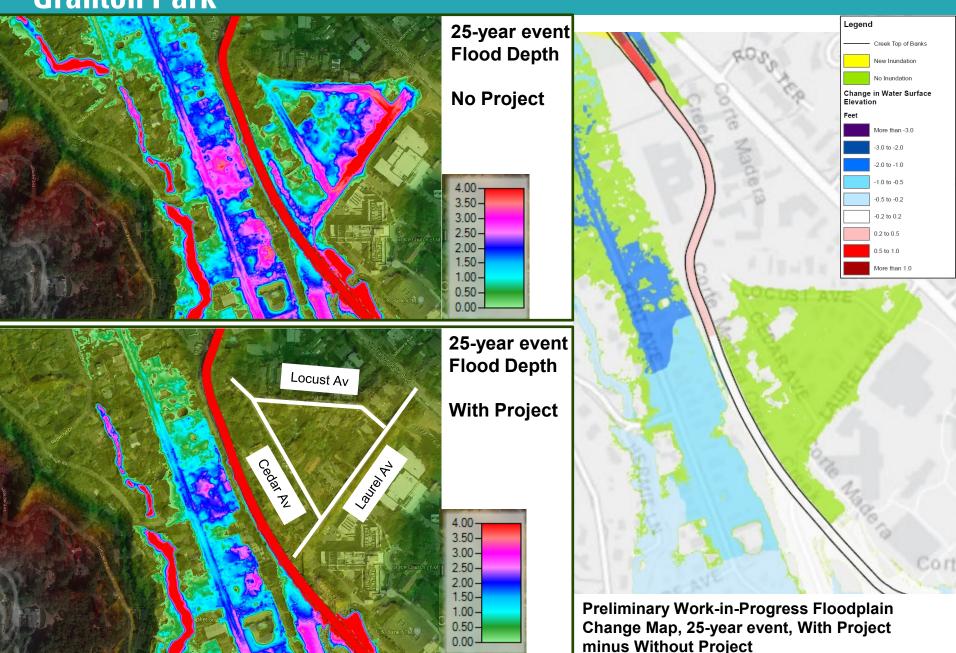
## **Granton Park Stormwater Pump Station**



#### **Granton Park Stormwater Pump Station**

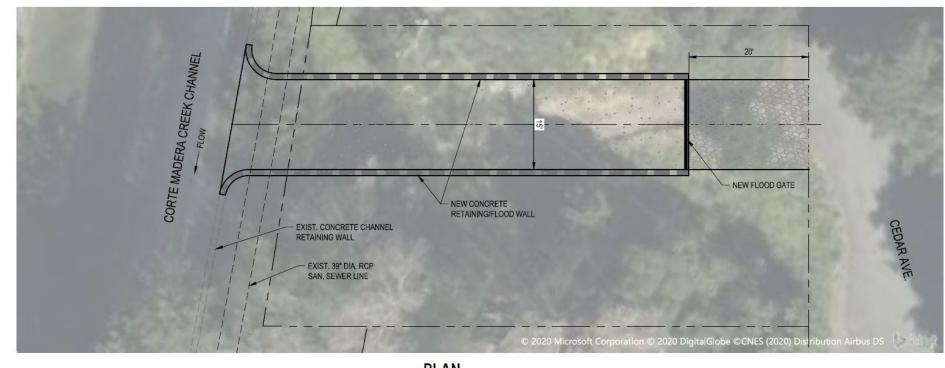


# Preliminary Floodplain Analysis (Work-in-Progress) Granton Park



### **Access Ramp**







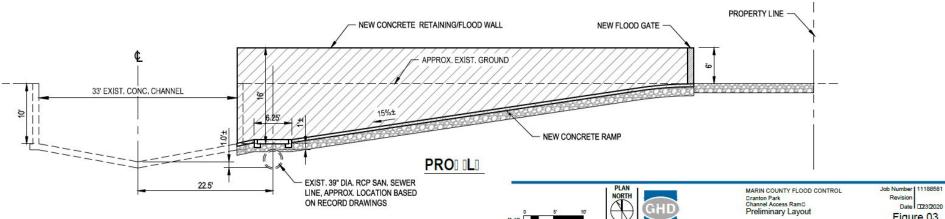


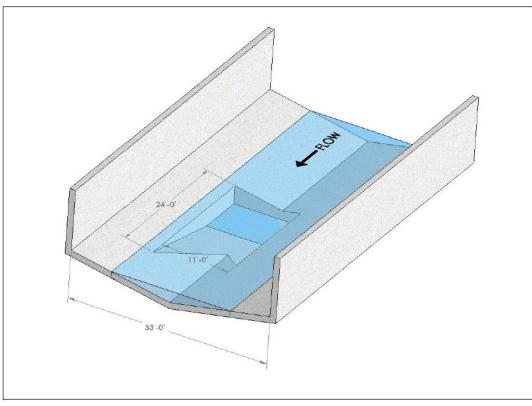
Figure 03

## Fish Passage Improvement









11 to 16 new pools (MLA 2007, MLA 2019)

#### **Concrete Channel Assessment**







MARIN COUNTY FLOOD CONTROL
CORTE MADERA CREEK
STRUCTURAL ASSESSMENT
Corte Madera Creek
Site Photos and Core Sample Locations

Job Number | 11188581 Revision | Date | June 2019 Ons | Figure 02

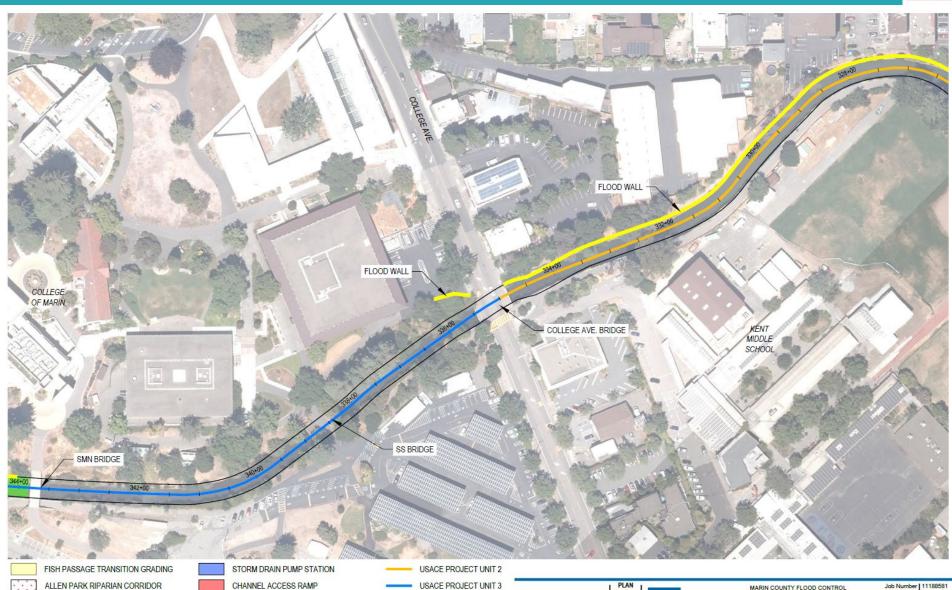
# **Lower College of Marin Reach**



MARIN COUNTY FLOOD CONTROL

Corte Madera Creek
Flood Risk Management Project - Phase 1
Project Components
College of Marin to Kent Middle School

Figure 01d



JSACE PROJECT UNIT 4

CHANNEL BANK

LOW CHANNEL CONCRETE REMOVAL

(E) RVSD SAN. SEWER

FLOOD WALL

**NEW FISH POOLS** 

# **Lower College of Marin Reach**

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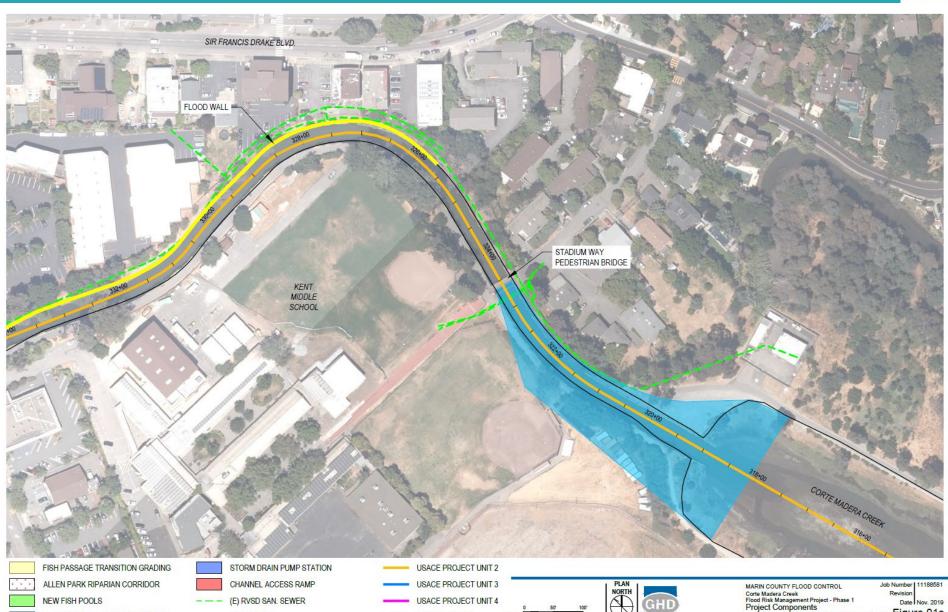
FLOOD WALL

**NEW FISH POOLS** 

LOW CHANNEL CONCRETE REMOVAL



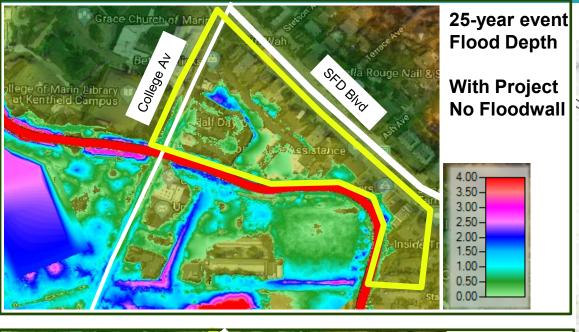
Kent Middle School to Downstream Limit Figure 01e



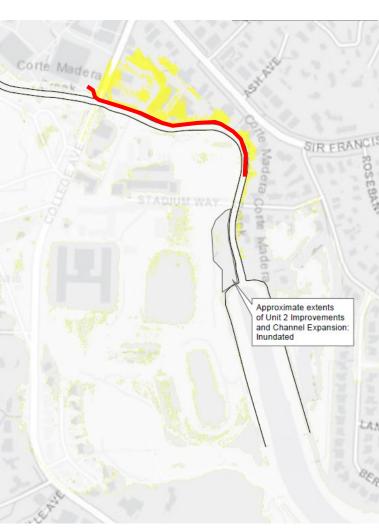
USACE PROJECT UNIT 4

CHANNEL BANK

# Preliminary Floodplain Analysis (Work-in-Progress) <a href="Lower Reach">Lower Reach</a>







25-year event inundation areas eliminated from the proposed floodwall (Yellow)

# **Lower College of Marin Concrete Channel Removal**



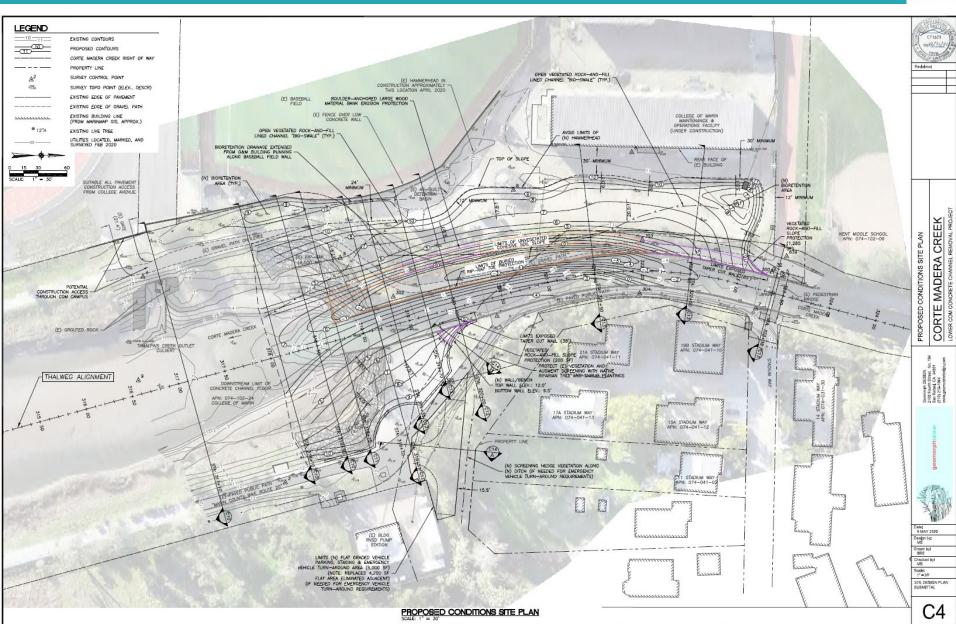






#### **Lower College of Marin Concrete Channel Removal**





# **Lower College of Marin Concrete Channel Removal**









# **Project Schedule**







#### **Next Steps**



Consider public input in project components development

Complete creek hydraulic analysis and floodplain mapping

Refine Fredrick
Allen Park
design
concept, with
considerations
of user
experience and
creek
processes

Define project for the EIR process

Conduct environmental review and permitting

### **Project Schedule**



# **CEQA / Public Comment**

Milestone	Timing
Public Scoping/Publish NOP	August 2020
Draft EIR Published	February 2021
Final EIR Published	June 2021
Town of Ross Meeting	August 2021
District Hearing	September 2021

CEQA and Permitting to be completed by end of 2021 for construction to start in April 2022\*.

#### **Permitting**

Item	File / Initiate Date	Issue / Approval Date
404 Permit	October 2020	October 2021
Section 7 Consultation	November 2020	June 2021
Section 106 Consultation	December 2020	January 2021
401 Water Quality Certification Application	November 2020	June 2021
1600 Permit Application	November 2020	June 2021
Section 408 Authorization	June 2021	September 2021

# **Tentatively Planned Project Construction Schedule**



Phase – Proposed Components	Timeline
Construction Start	April 1, 2022
In-creek Construction Work	June 15 – October 15
Flood Wall (Segment #1) Construction	April 1 – July 7
Flood Wall (Segment #2) Construction	July 8 – August 25
Flood Wall (Segment #3) Construction	April 1 – July 14
Lower Channel Concrete Removal	June 8 – September 6
Fish Pool Construction	June 15 – October 11
Granton Park Storm Drain Pump Station Construction	April 1 – May 26
Channel Access Ramp Construction	April 1 – July 14
Frederick Allen Park Construction	June 1 – October 25
Fish Passage Transition Grading	June 15 – August 30
Construction End	October 25, 2022

All construction tied to the DWR grant funds must be completed by December 31, 2022.

# **More Information**

Send comments or questions to: <a href="mailto:cortemaderacreek@marincounty.org">cortemaderacreek@marincounty.org</a>

Sign up for GovDelivery

Project webpage

https://www.marinwatersheds.org/resources/projects/corte-madera-creek-flood-risk-management-project

Coffee Talk with the District in July

Survey after this meeting

Comment during EIR process



#### **Questions / Comments**

**Joining by computer or mobile device:** Type your question into the question bar OR use the "Raise Hand" button to ask your question, and we will unmute you

**Joining by phone:** Press \*9 to inform the moderator that you would like comment and we will unmute you

