

Petaluma River Flood Management Project-Denman Reach Phase 4

Presented to: SCWA Zone 2A Flood Control Advisory Committee

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Agenda

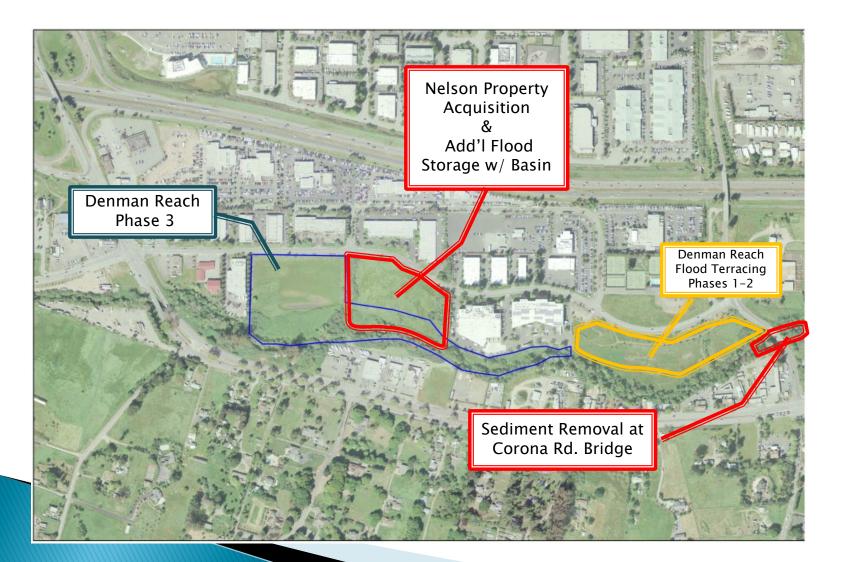
- Project Background
- Project Goals
- Hydraulic Analysis Results
- Design/Construction Overview
- Project Completion Update

Project Background

- Flood mitigation projects with public access trails
 - 1996 City of Petaluma River Access Plan
 - 2008 General Plan
- 3 vacant parcels
 - 2 purchased and terraced in Denman Phase 3
 - Lacked funds to purchase 3rd
- Fall 2016, SCWA brought opportunity for funding for project
 - \$1.9M in DWR Prop 1E Grant
 - \$881k in Zone 2A funding

Petaluma River Flood Management Project – Denman Reach Phase 4

Denman Reach Phase 4



Completion of Project Goals

- Funding/Grant Agreement Completed Goals
 - 5.47 acre flood-prone parcel acquired
 - 9.3 acre-feet of flood storage
 - 2,000cy sediment removal at Corona Bridge
- Additional Completed Goals
 - Creation of wetland and riparian habitat
 - Installation of public access trails
 - Scour/erosion protection at Corona Road bridge

Hydraulic Evaluation

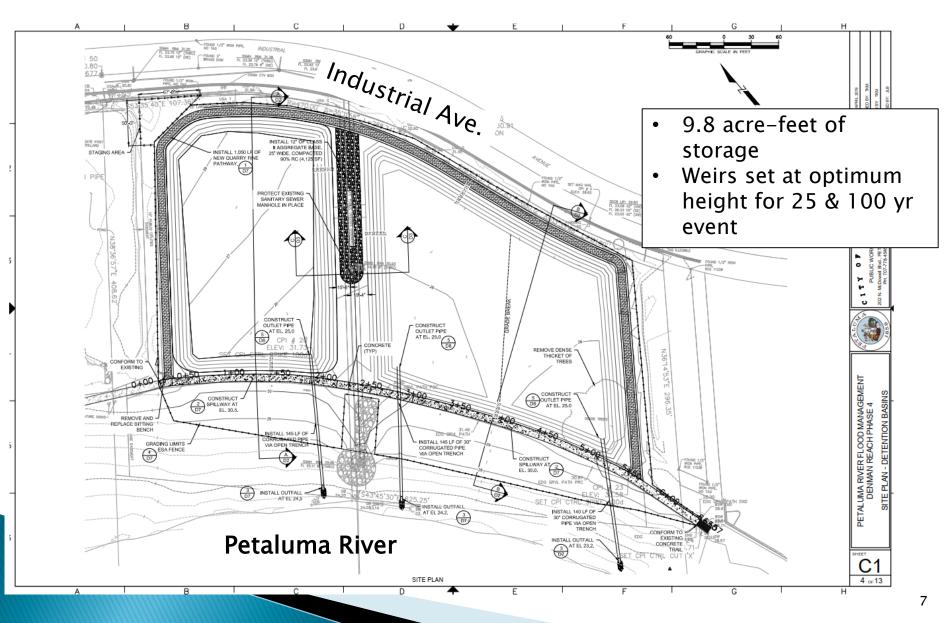


Denman Phase 3 100 year flood plain reduction (Red)

Denman Phase 4 100 year flood plain reduction (Green)

Note: over 1 foot reduction in 100 year flood elevation in Denman Reach

Flood Detention Basins

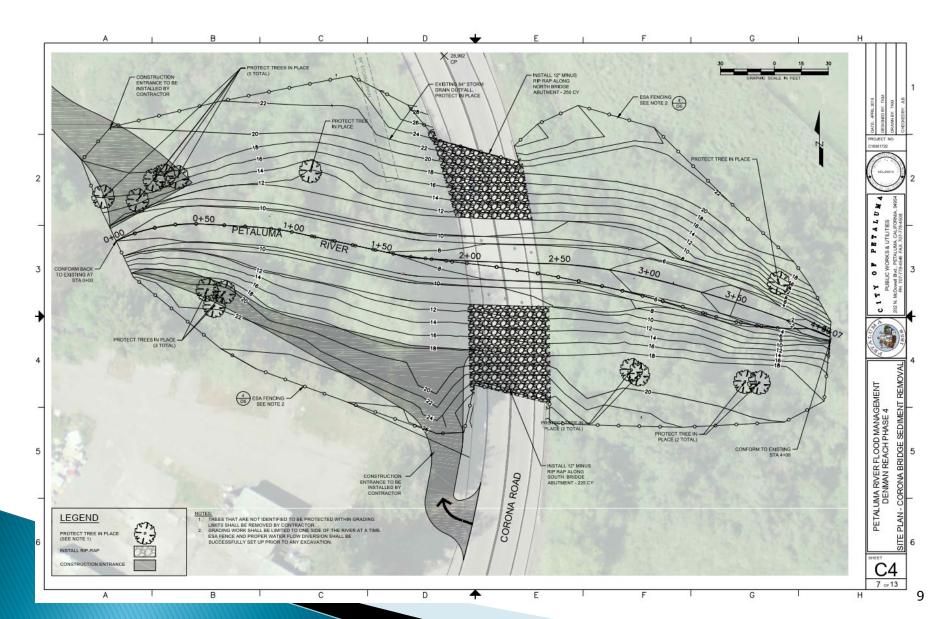


Flood Detention Basins





Corona Bridge - Sediment Removal



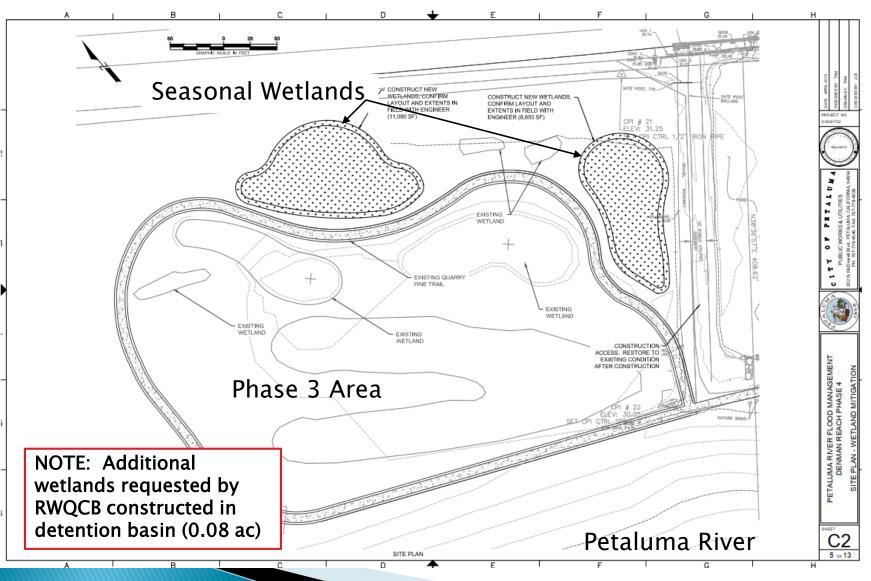
Corona Bridge



North-side looking upstream

Corona Bridge

Mitigation Wetlands



Mitigation Wetlands



Project Timeline & Status

- Finalized funding agreement- February 2018
- Hydraulic analysis July 2018
- City property acquisition August 2018
- CEQA Final MND/Initial Study February 2019
- Permits(NOAA, RWQCB, ACOE, CDFW) May 2019
- Design Completed May 2019
- NTP July 2019
- Construction Mostly complete @ end of 2019

NOTE: Installation of Weir and Flap gate remaining