AMERICAN RIVER COMMON FEATURES WATER RESOURCES DEVELOPMENT ACT OF 2016

AMERICAN RIVER EROSION PROTECTION

UPDATE
CONTRACT 1 (SITE 2-1)
CONTRACT 2 (SEASON 1, SITE 2-3)
CONTRACT 3A (SITE 1-1)

PRESENTED BY WILLIAM POLK SR. PROJECT MANAGER LAR EROSION

13SEP22









PROJECT PARTNERS





US Army Corps of Engineers

Local Government



State Government



Central Valley Flood Protection Board

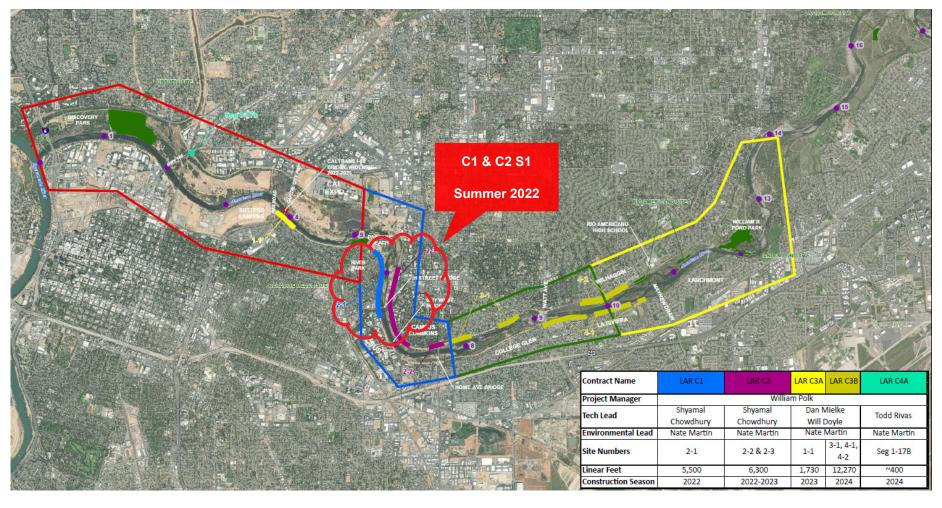


Department of Water Resources

U.S.ARMY

LAR EROSION - BANK PROTECTION SITES

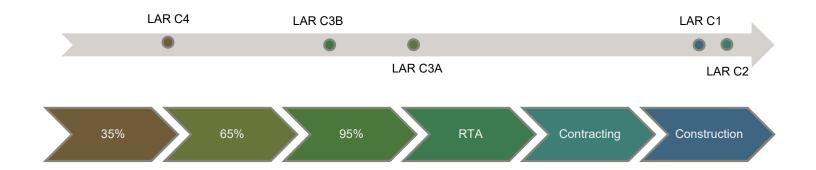






AMERICAN RIVER EROSION STATUS OF DESIGNS

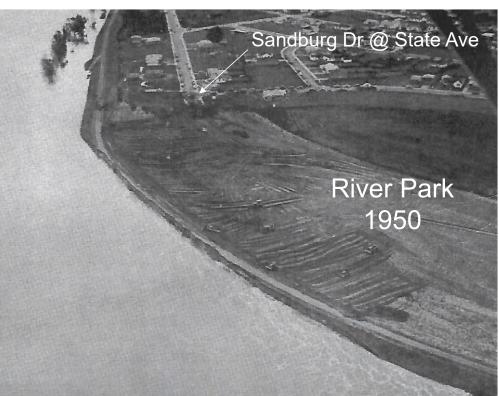




EROSION PROTECTION - PROJECT NEED







Flooding from levee failure threatens the safety of over 500,000 people in the Sacramento Region

U.S.ARMY

CONTRACT 1 (SITE 2-1)

- 5,500 linear feet of bank protection from just upstream of H Street bridge downstream to Glenn Hall Park
- Improvements include:
 - Launchable rock toe with a planting bench
 - Slope protection
- Includes on-site and offsite mitigation



SOURCE: NHC, 2020; ESA 2020 Site 2





Vegetation Clearing

• Award: 7Jan22

• Clearing: Feb 22

 One elderberry cluster removed to Beach Stone Lakes







Contract Award: 25 Feb 22

- Mobilization & Site Prep: Apr May 22
- Glenn Hall Park
 - Facilities & Parking remain open
 - Fencing & signage
- Levee Closure GHP to H St. bridge
- Vibration monitoring baseline
- Pre-construction surveys complete for residences along Sandburg drive







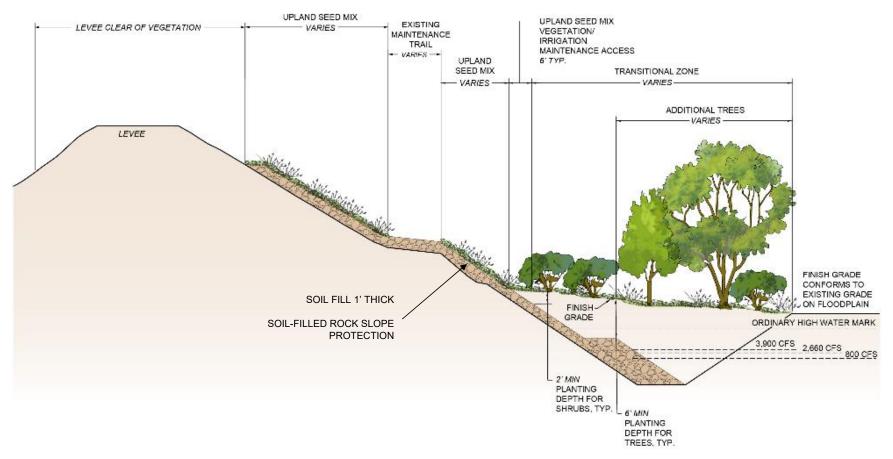
- Upper slope Bedding material complete to H st.
- Excavation and slope protection at Paradise Beach complete
- Water trucks and street sweepers
- Construction Complete: Fall 2022
- Site 2-1 Greening, Spring 2023





TYPICAL CROSS SECTION – PARADISE BEACH

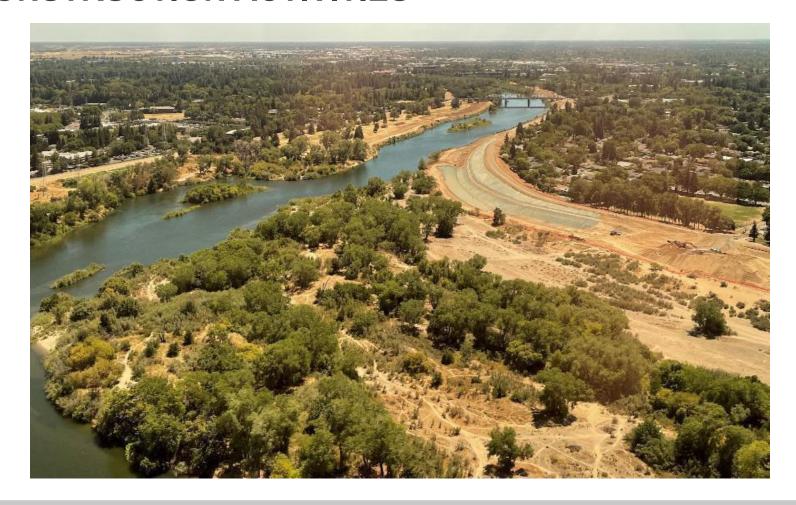




Launchable Rock Trench and Soil-filled Rock Slope Protection

























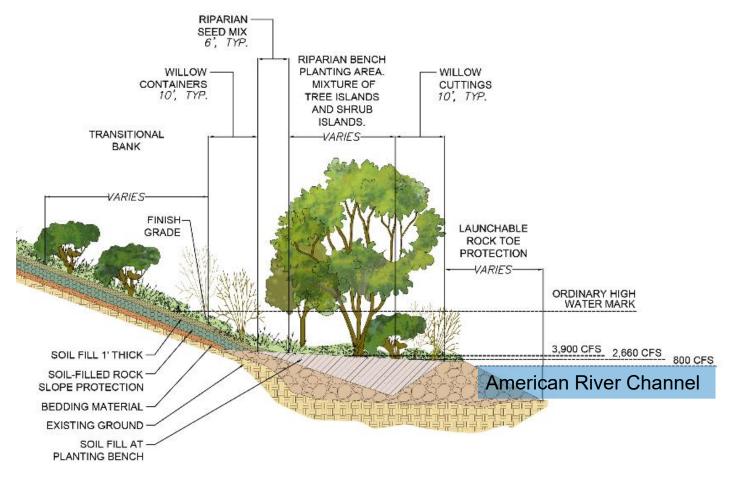






TYPICAL CROSS SECTION – UPSTREAM

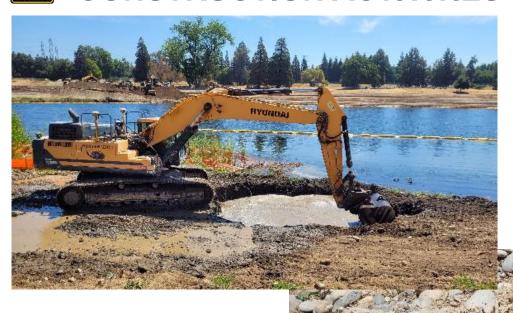




Planting Bench and Soil-filled Rock Slope Protection (typical cross section)











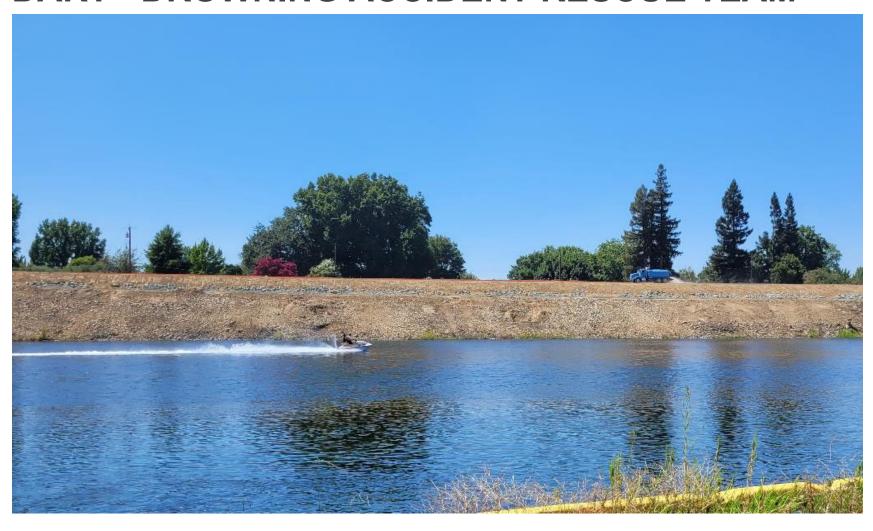






DART - DROWNING ACCIDENT RESCUE TEAM



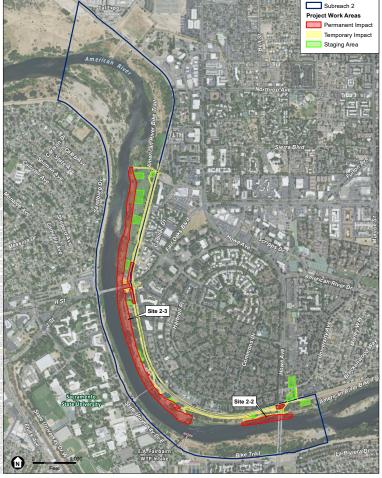




CONTRACT 2 (SITES 2-2 & 2-3)



- 7,800 linear feet of bank protection from just upstream of Howe Avenue downstream through Campus Commons Golf Course
- Site 2-2 Improvements include:
 - Launchable rock berm
 - Planting bench behind rock berm
- Site 2-3 Improvements include:
 - Launchable rock spurs
 - Buried rock tie-back
 - Planting between spurs/tie-backs
- Includes on-site and off-site mitigation



Sites 2-2 and



SCHEDULE CONTRACT 2 (SITES 2-2 & 2-3)

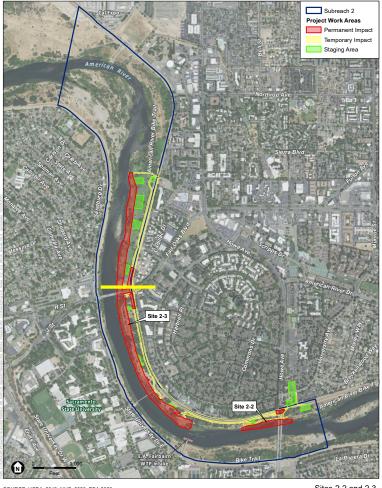


Phase 1 (site 2-3 partial)

- Veg clearing, Jan 22 Mar 22
- Construction, Summer 2022
- Greening, Spring 2023

Phase 2 (site 2-2, 2-3 remainder)

- Veg clearing, Oct 22 Jan 23
- Construction, Summer 2023
- Greening, Spring 2024



2018; NHC, 2020; ESA 2020





Vegetation Clearing

• Award: 28Jan22

Sierra Nevada Forestry

• Clearing: Mar 22

 Elderberry removed to Rio Americana mitigation site





CONTRACT 2 (SITE 2-3, SEASON 1)

CONSTRUCTION ACTIVITIES

Contract Award: 15 Apr 22 to Nordic Construction

- June 22 Mobilization, Site Prep, Strip/Grub & Excavation
- July 22 Excavation below OHWM, Bedding material and riprap placement



Sites 2-2 and 2-3



CONTRACT 2 (SITE 2-3, SEASON 1)

CONSTRUCTION ACTIVITIES

- Bike and pedestrian traffic is rerouted onto the levee top through the campus commons golf course area
- Construction will Complete: Fall 2022
- Greening, Site 2-3, season 1
 - Spring 2023

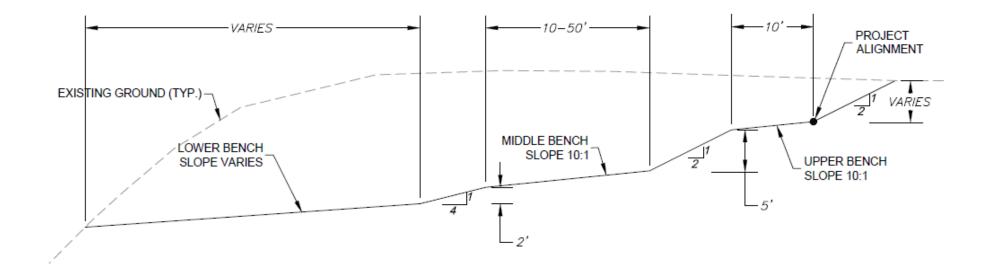


Sites 2-2 and 2-3



SITE 2-3, TYPICAL CROSS SECTION













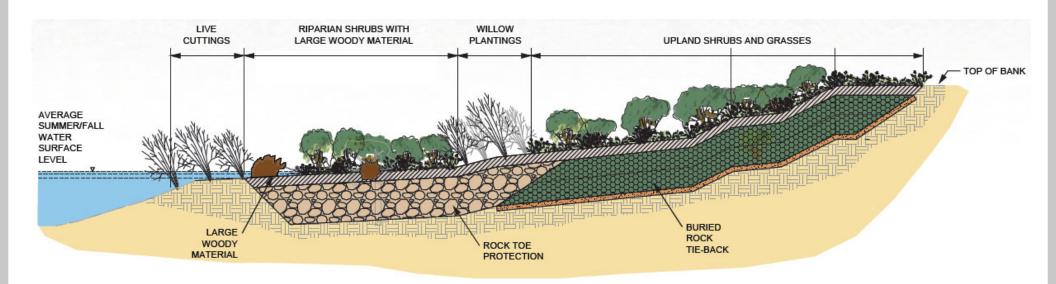






SITE 2-3, TYPICAL CROSS SECTION





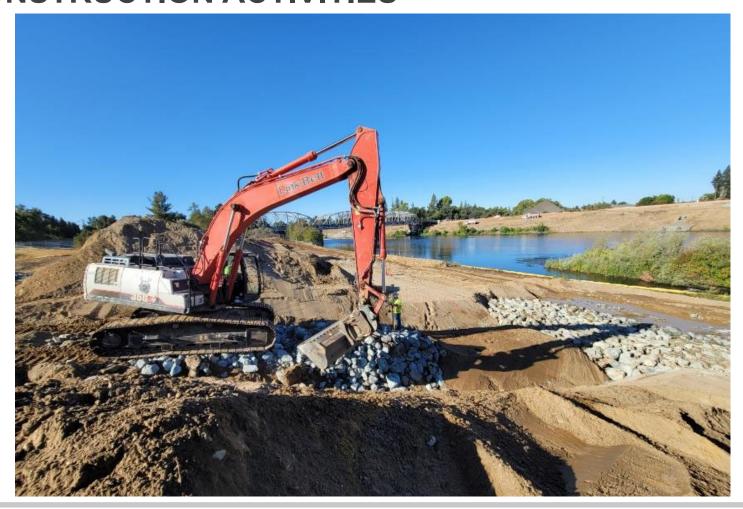














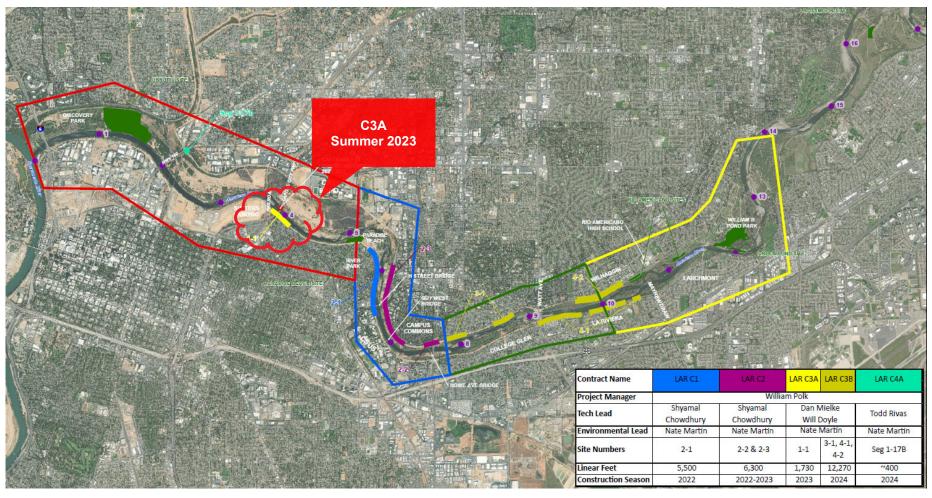






LAR EROSION - BANK PROTECTION SITES

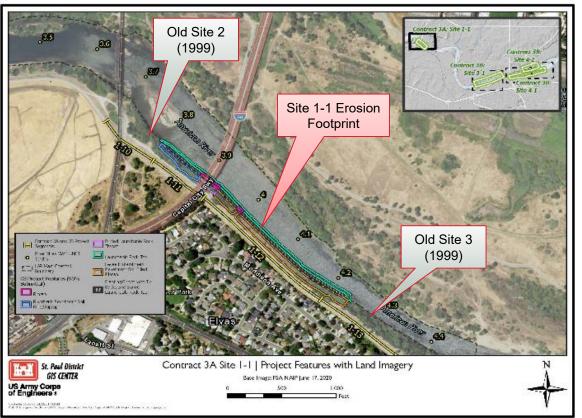






C3-A (SITE 1-1)



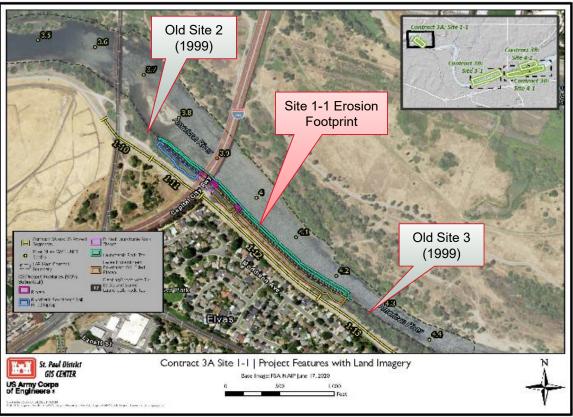


- Summer 2023
- Left/South Bank
- Business I-80 Bridge
- ~2,000 ft
- Launchable rock toe with a planting bench
- Slope protection



DRILLING DOWN TO THE C3-A FOOTPRINT





Work By Others:

- Business I-80 Bridge (Caltran's)
 - 95% Design
 - Widening northbound lane
 - Pier Extension
 - Local dredging under bridge
 - Planned Construction: Spring 2022 2025
 - Caltrans FG included as USACE EG
- Two River Trail Project (City)
 - 95% Design
 - Mainly trail improvements above erosion work.
 - Planned Construction:
 - Grading: Spring 2023
 - Asphalt Trail: Late Fall 2023
 - City FG (minus bit surface) included as USACE EG

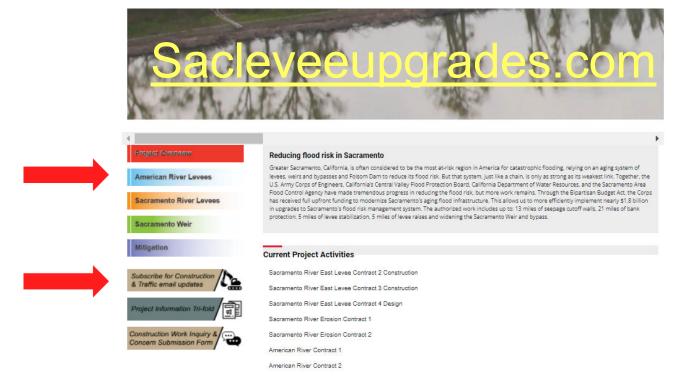
C3-A Haul Route Access:

- Levee Crown from Sutter's Landing to Glen Hall Park
- At-grade crossing over Union Pacific RR



HOW TO STAY INFORMED





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QUESTIONS?

