

Napa River/Napa Creek Flood Protection Project

FOC Update
February 1, 2012

Julie Lucido
Project Manager

Napa Creek Flood Project

Contract Awarded: August 2010

Contractor: Proven Management

Total Bid: \$14.8 Million

Contracting Agency: U.S. Army

Corps of Engineers

Project Duration: 32 Months




DETOUR
←

**SIDEWALK
CLOSED**

Construction
Supervised by:



**US Army Corps
of Engineers**
Sacramento &
San Francisco Districts

Sponsored by:
Napa County
Flood Control &
Water Conservation District

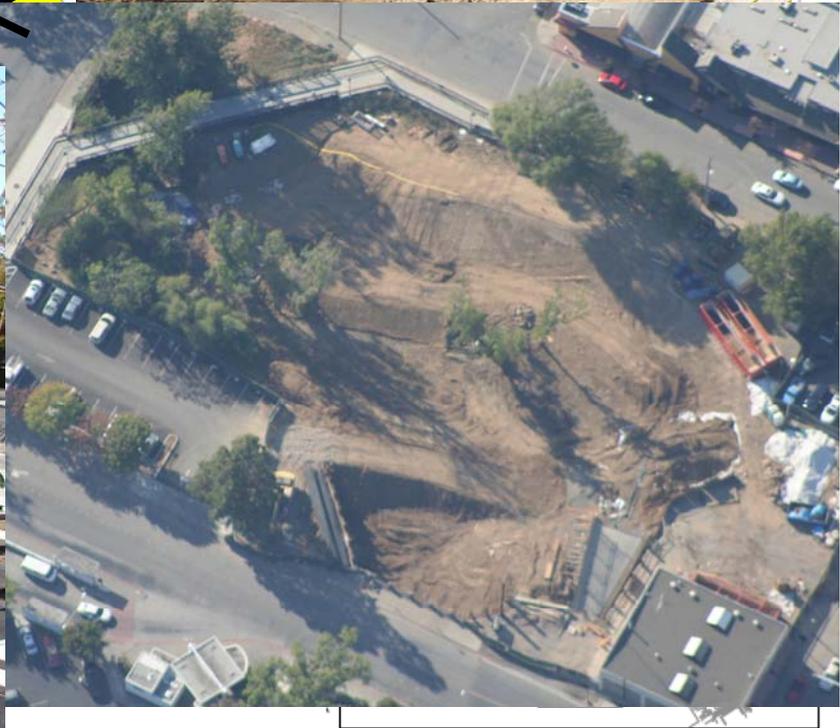
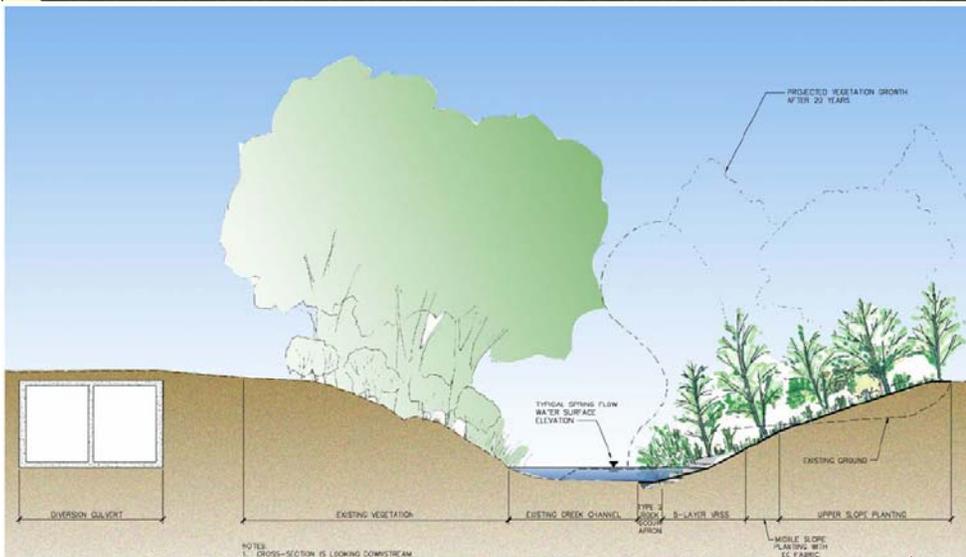


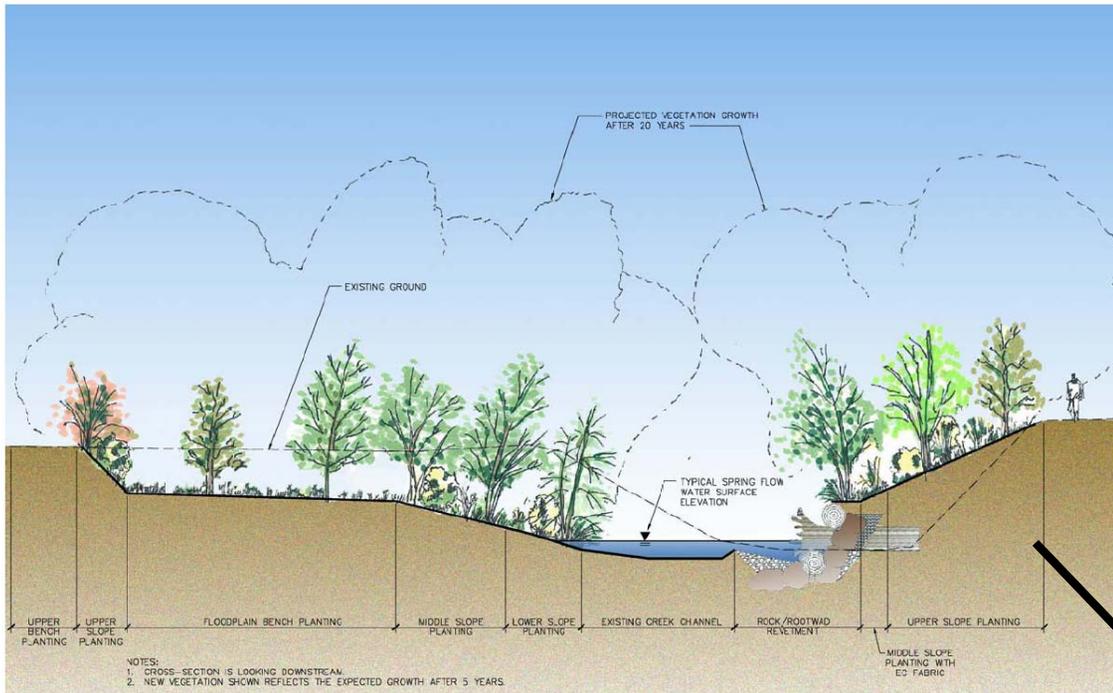
Napa River/ Napa Creek Flood Protection Project

Initiate and Complete Construction of
Napa Creek Site

Contractor:
Proven Management, Inc.
San Francisco, CA

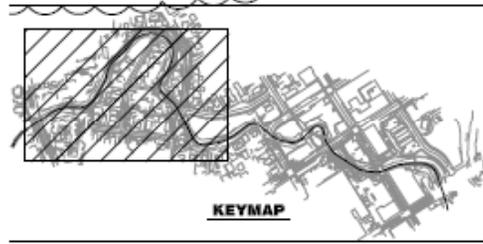
Consulting Engineer:
MGE Engineering, Inc.
Sacramento, CA





LEGEND

CONSTRUCTION PHASE START SEASON & YEAR	
COMPLETED WORK	1
WINTER 2011 - SPRING 2012	2
SUMMER - FALL 2012	3
WINTER 2012 - SPRING 2013	4















Back

HP 100

78.00
5.1
⑦





















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Rootwads installed, slopes laid back and will be replanted with native vegetation













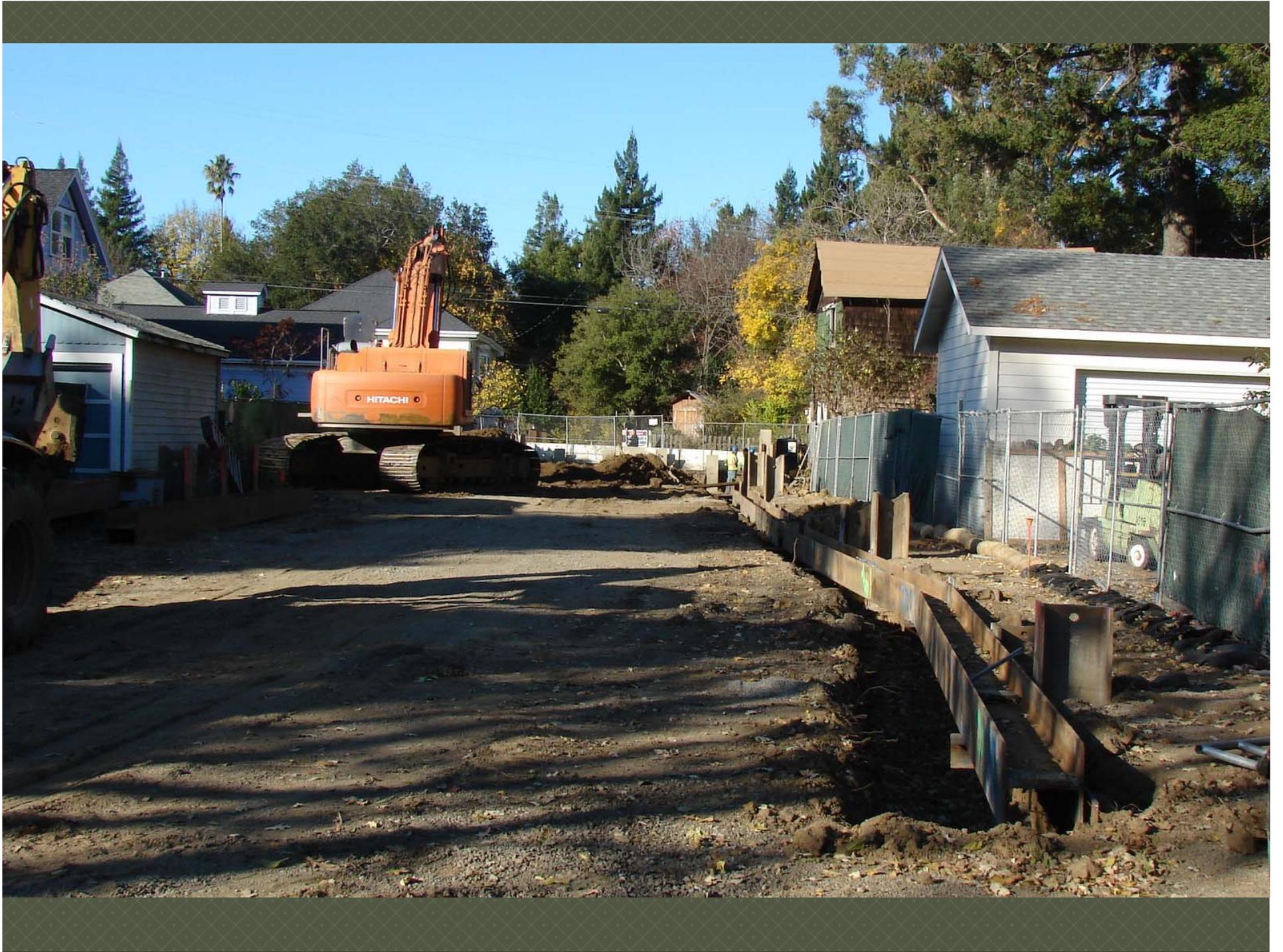




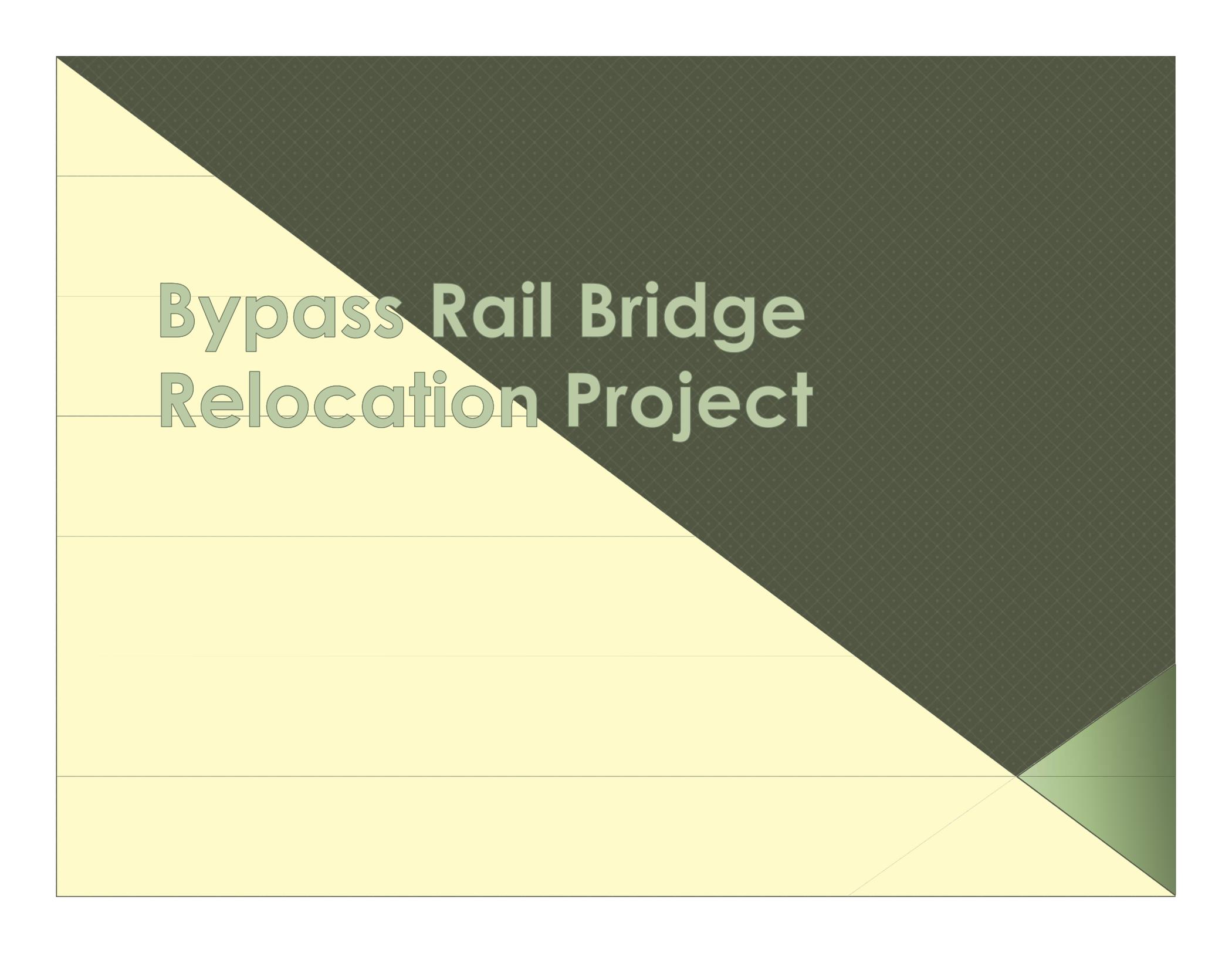












Bypass Rail Bridge Relocation Project



Kiewit

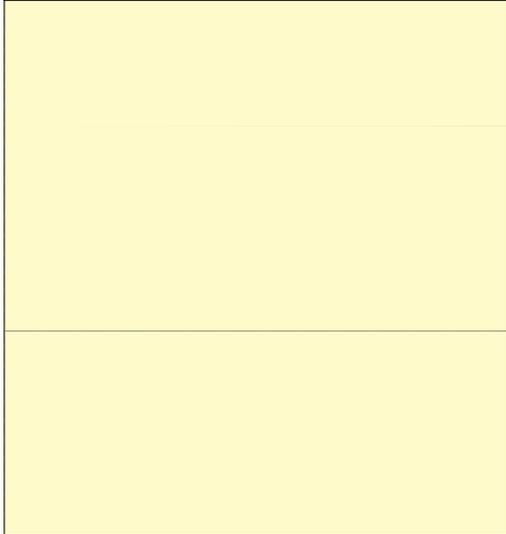
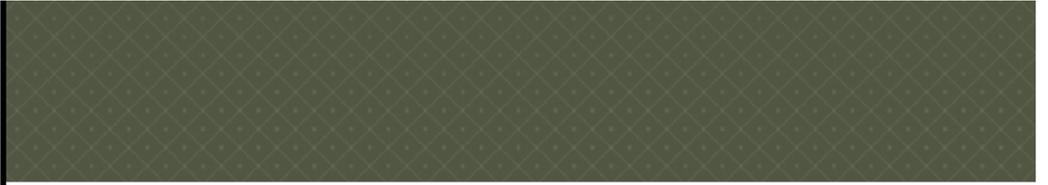
Photo Date: 1-21-11



Kiewit

Photo Date: 1-21-11









Kiewit

Photo Date: 3-29-11









Photo provided
by Kiewit

Street Detours/Closures for Rail Bridge Relocation Summer 2011

	Jun 13-19	Jun 20-26	Jun 27-Jul 3	Jul 4-10	Jul 11-17	Jul 18-24	Jul 25-31	Aug 1-7	Aug 8-14	Aug 15-21
Third Street Closure										
(N) Soscol Ave 2-Lanes Closed										
First Street Closure										

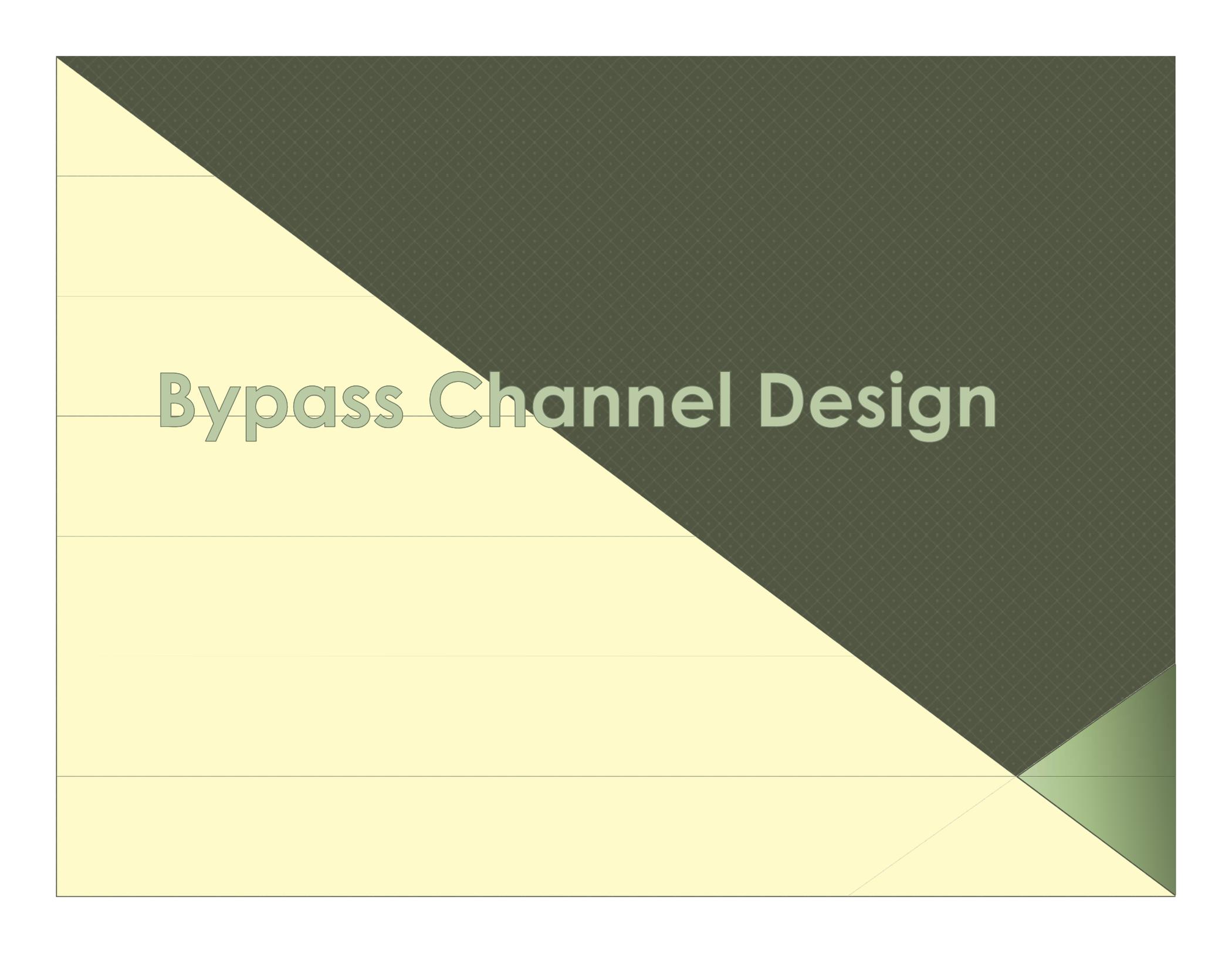
Tentative Milestone Dates: June 3-Complete river bridge structure (rail across bridge to follow)
 June 20-Rail operations switched to new facilities
 July 25-Begin second half of bypass rail bridge
 July/August-Demolish old rail bridge







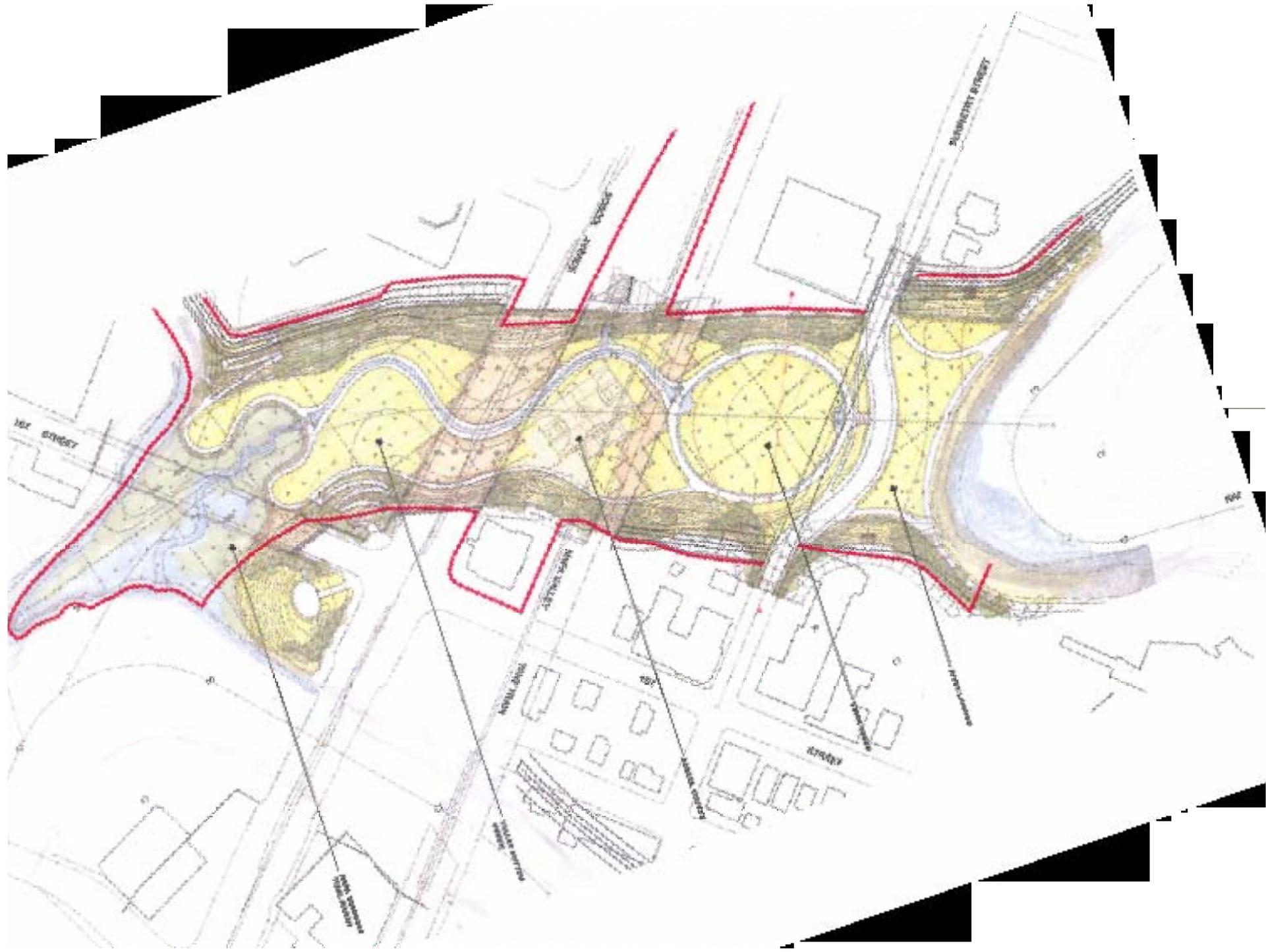




Bypass Channel Design



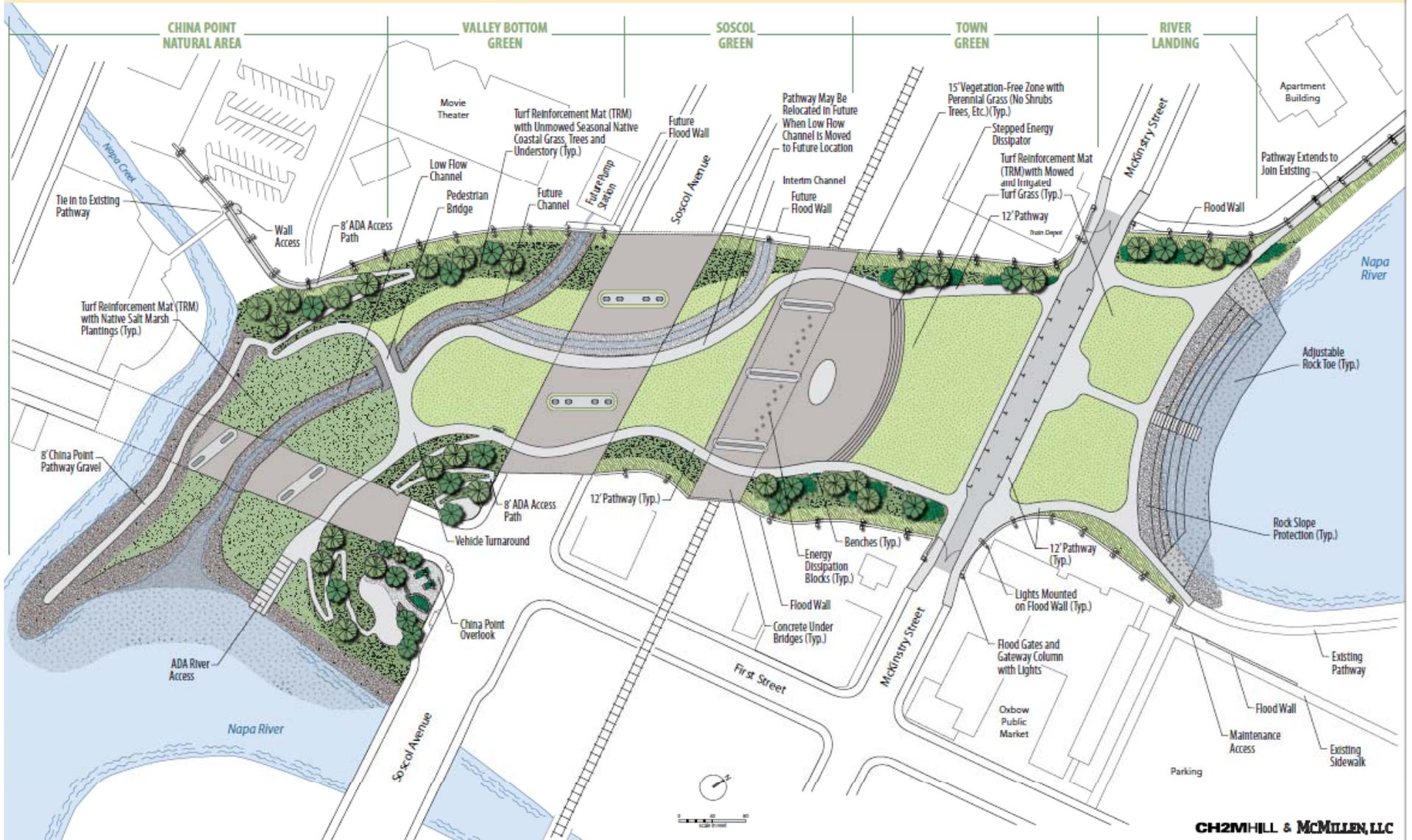
- Design goals:**
- Provide 100-yr flood protection
 - Bypass flows > 3-yr flood event
 - Provide erosion protection
 - Provide public-use areas
 - Walkway network
 - Aesthetic appeal
 - Habitat enhancement



NAPA RIVER DRY BYPASS – NAPA RIVER FLOOD PROTECTION

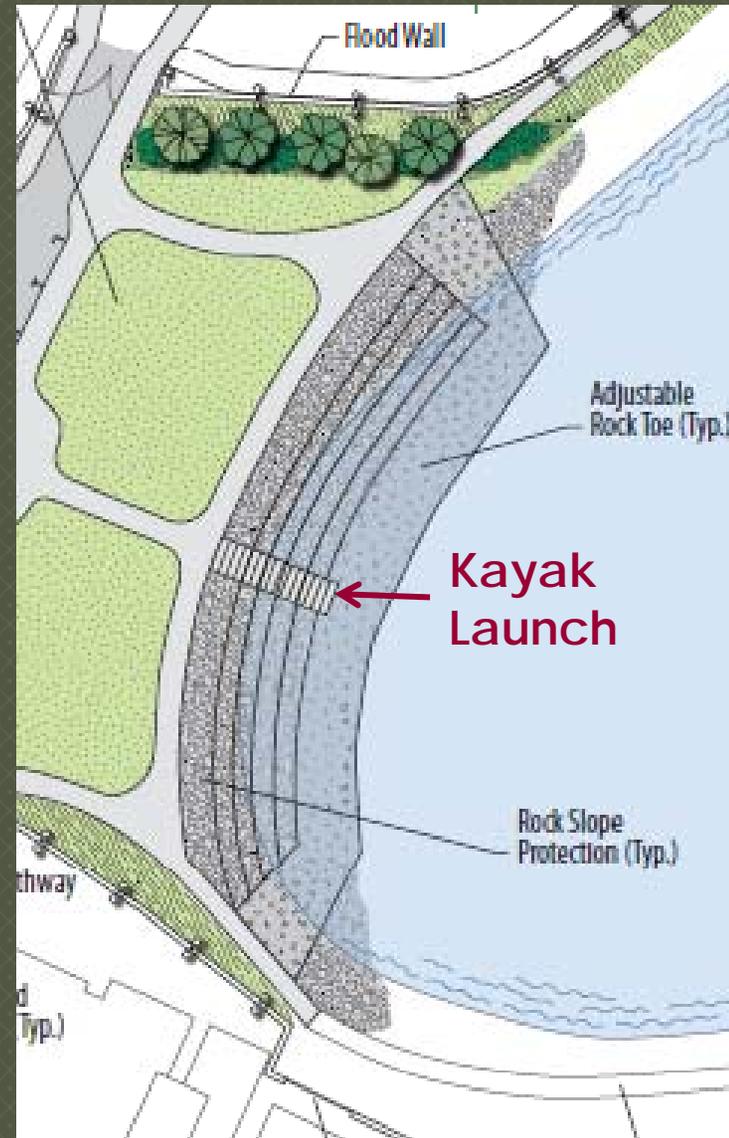


NAPA RIVER DRY BYPASS – NAPA RIVER FLOOD PROTECTION



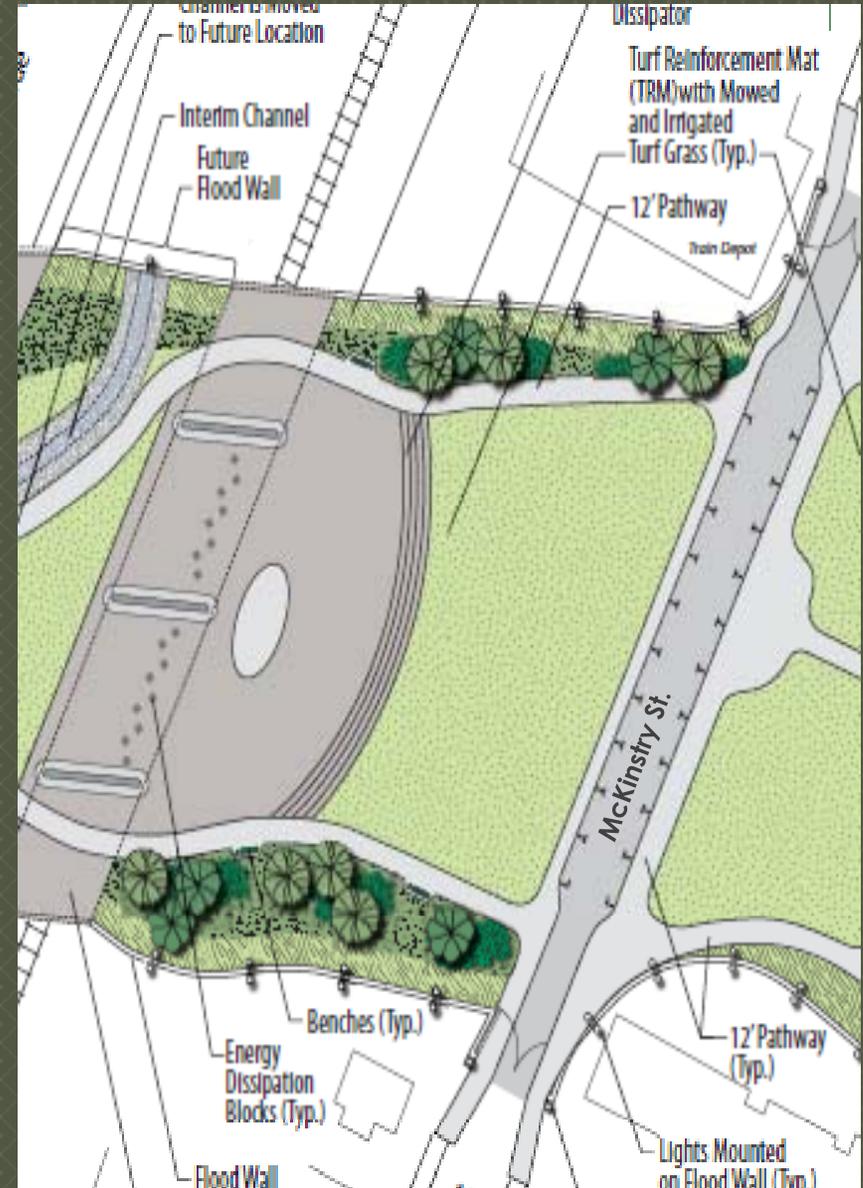
River Landing

- Napa River Trail
- Kayak Launch (stepped)
- Turf-grass area



Town Green

- Amphitheater/dissipat or
- Accessible walkways
- Large turf-grass area



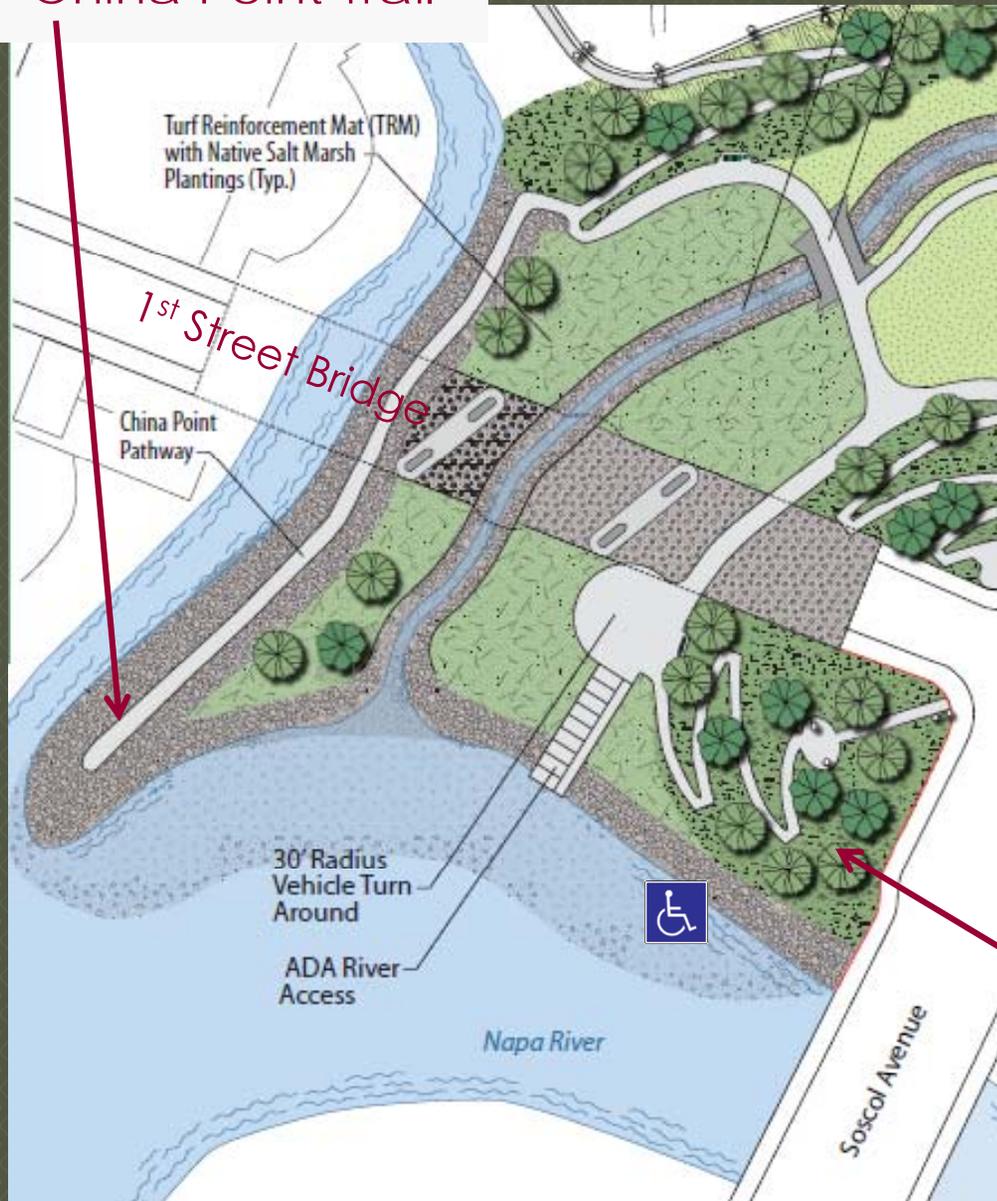
Soscol Ave. Bridge Over Proposed Bypass

- Sunlight limited under bridges
- Hard surface (overflow parking)
- Aesthetic appeal

Stone-embedded
concrete



China Point Trail



China Point Natural Area



Future China Point Overlook Park

Napa River /Napa Creek Flood Protection Project

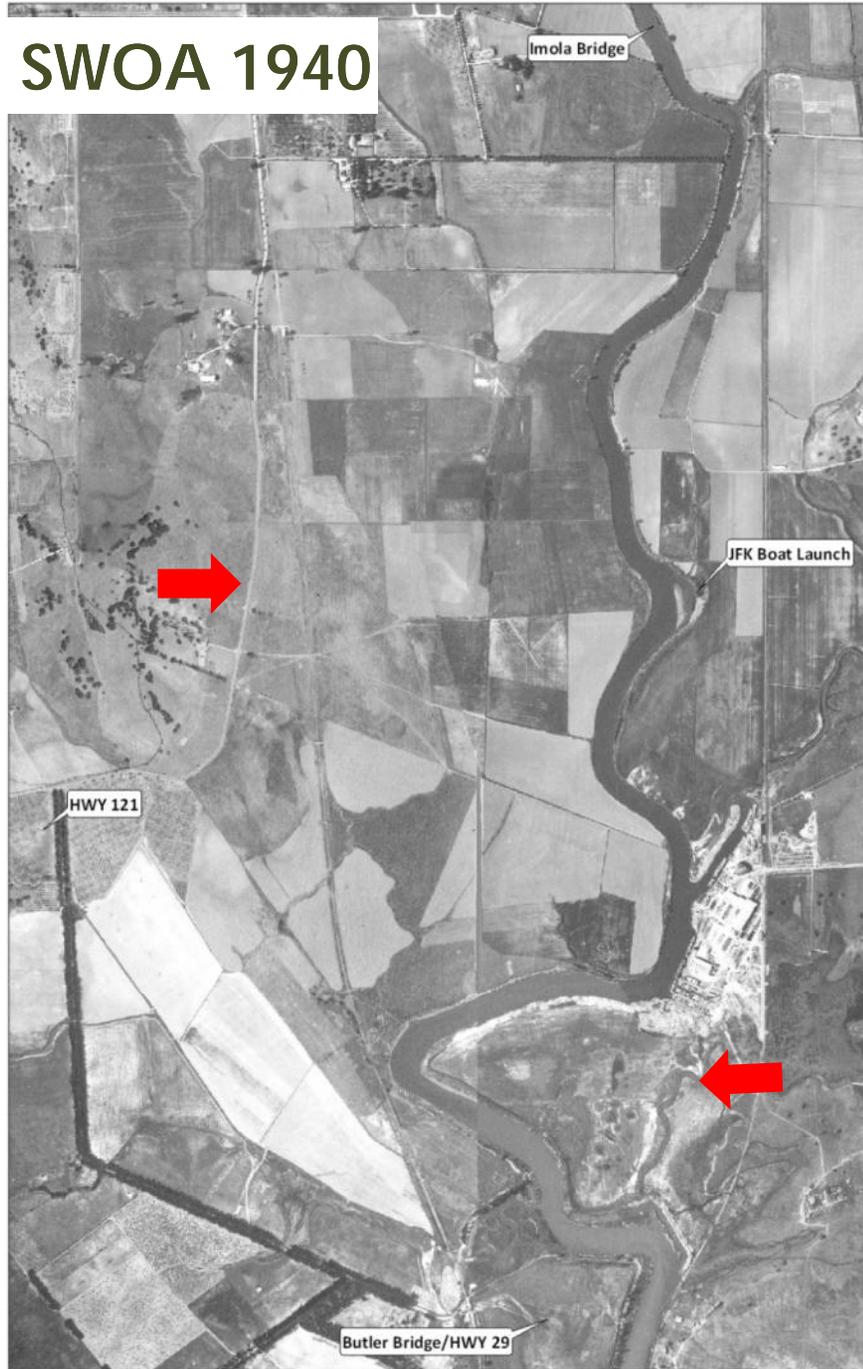
Habitat Restoration & Monitoring

- To date over 900 acres of historic wetland/marsh and upland/floodplain habitat has been restored by converting agricultural land back to native habitat using a combination of re-grading marsh and floodplain benches, breaching/lowering levees and removing tide gates to reintroduce tidal influence.
- Habitat types restored include tidal and high brackish marsh, tidal mudflats, floodplain terraces, seasonal freshwater wetlands, native grassland, woodland and riparian areas.
- Project resource monitoring to date indicates native flora and fauna returning in large numbers. Several federal and state listed species including Salt Marsh Harvest Mouse, California Clapper rail, Delta smelt, Central California Coast steelhead and Mason's lilaeopsis documented in Project area.

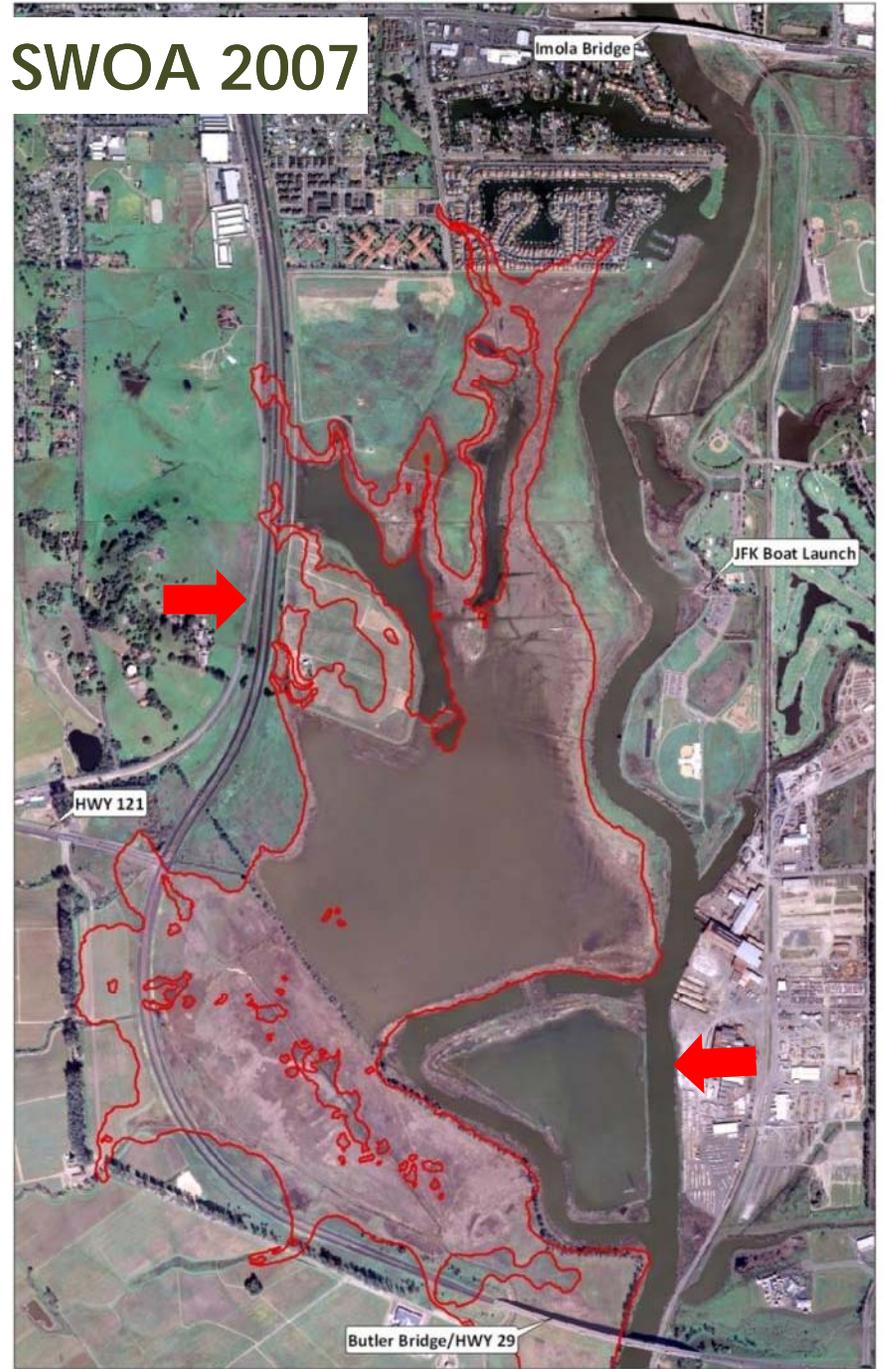
South Wetlands Opportunity Area (SWOA)



SWOA 1940



SWOA 2007



2003



2010



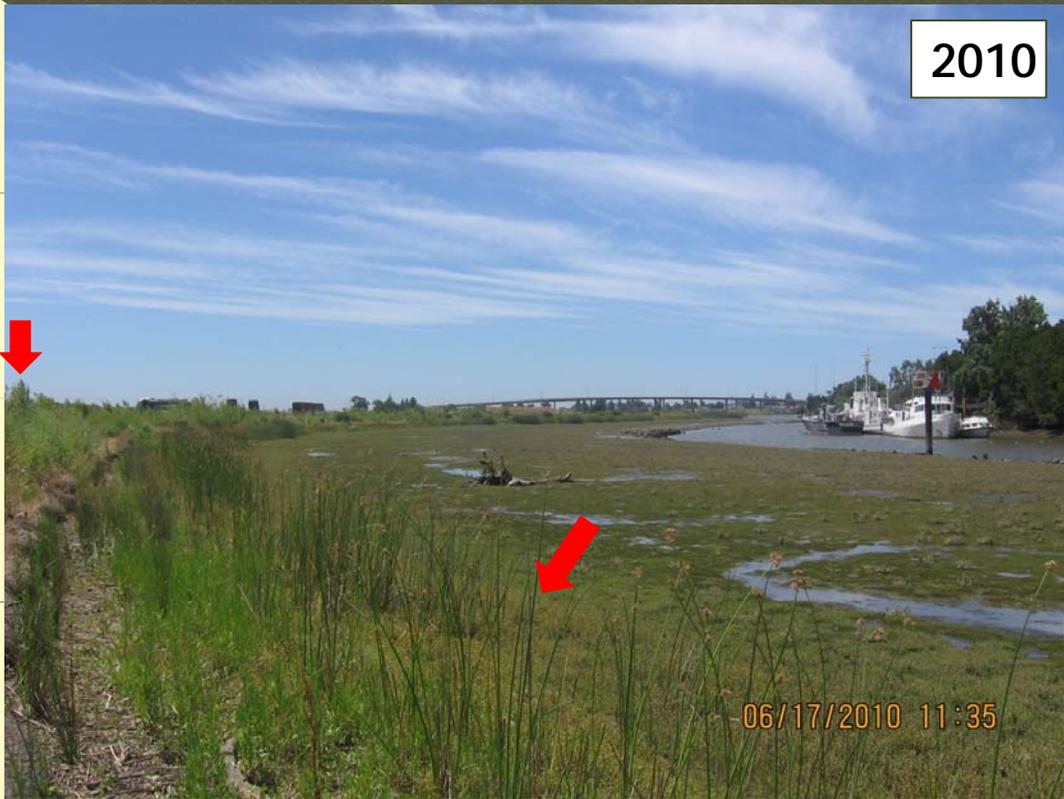
2003



2010

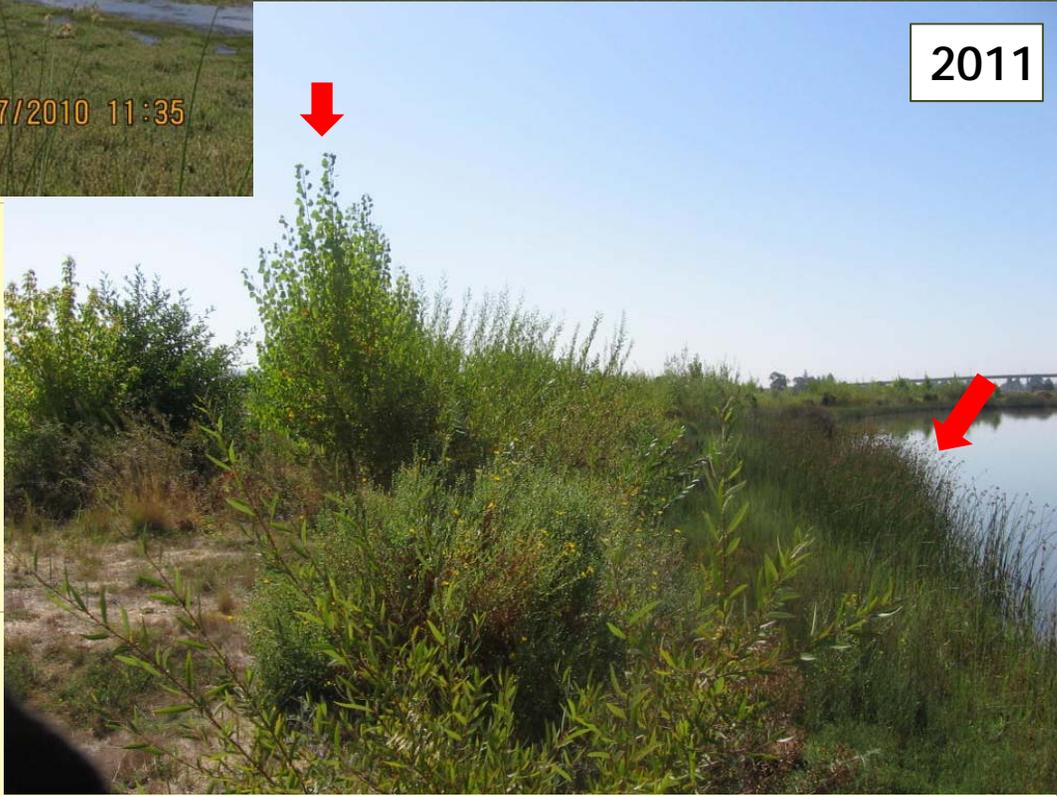


2010



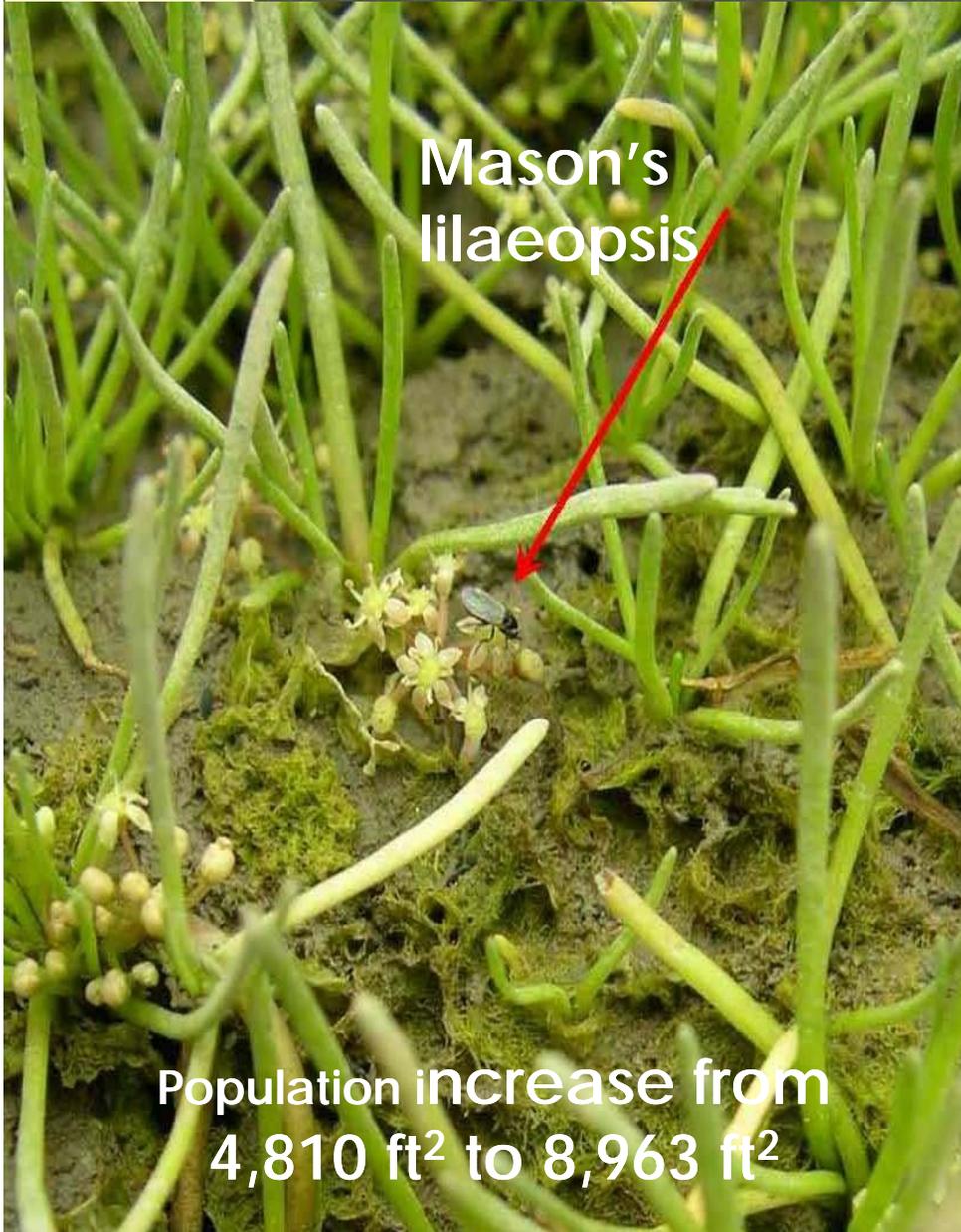
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2011





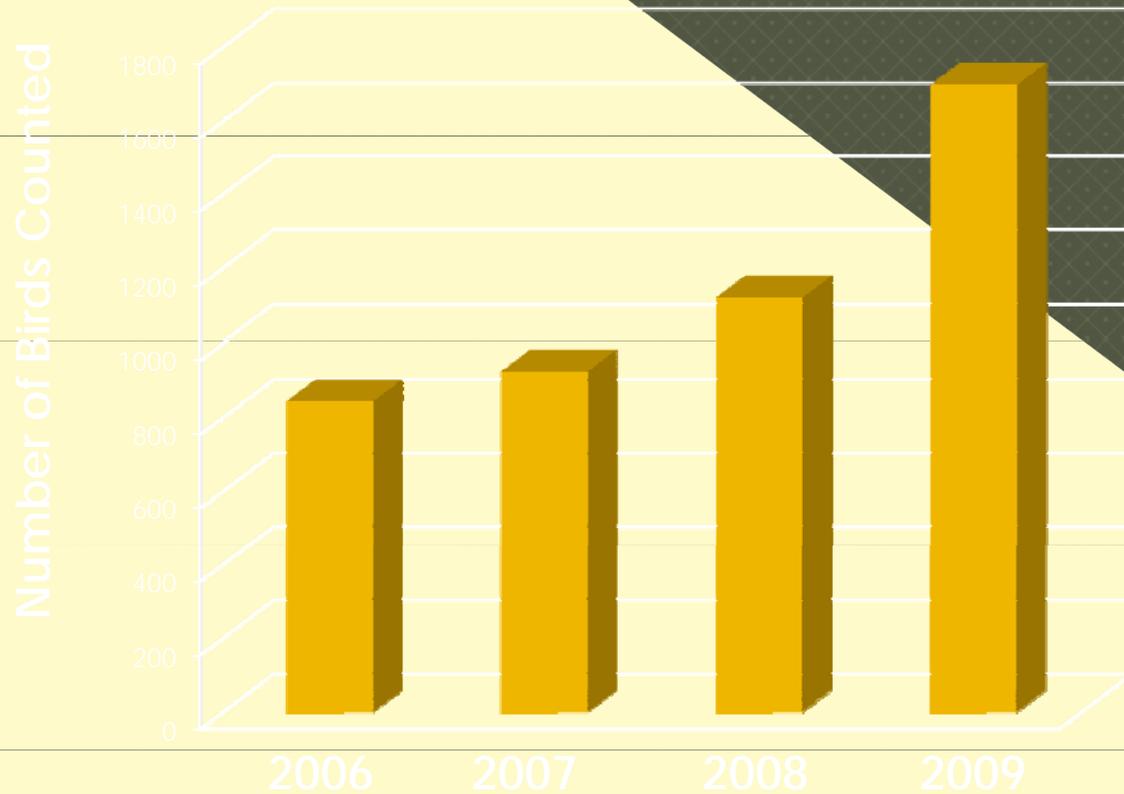
Monitoring Native Habitat & Vegetation Communities



- Over 69 species of migratory and resident birds have been documented in the Project area during point count surveys conducted from May 2006 through December 2009.

SWOA Bird Surveys 2006-2009

Winter Surveys



- Over 37 species of fish, 20 of which are native, including Delta smelt, Sacramento Split tail and Central California Coast steelhead have been documented in restored areas.
- Restoration of these areas and restoration actions associated with the Project as a whole has contributed significantly to larger regional restoration efforts including the Napa-Sonoma Marsh, Sears Point and Hamilton Wetland Restoration Projects.



Delta smelt



Steelhead salmon



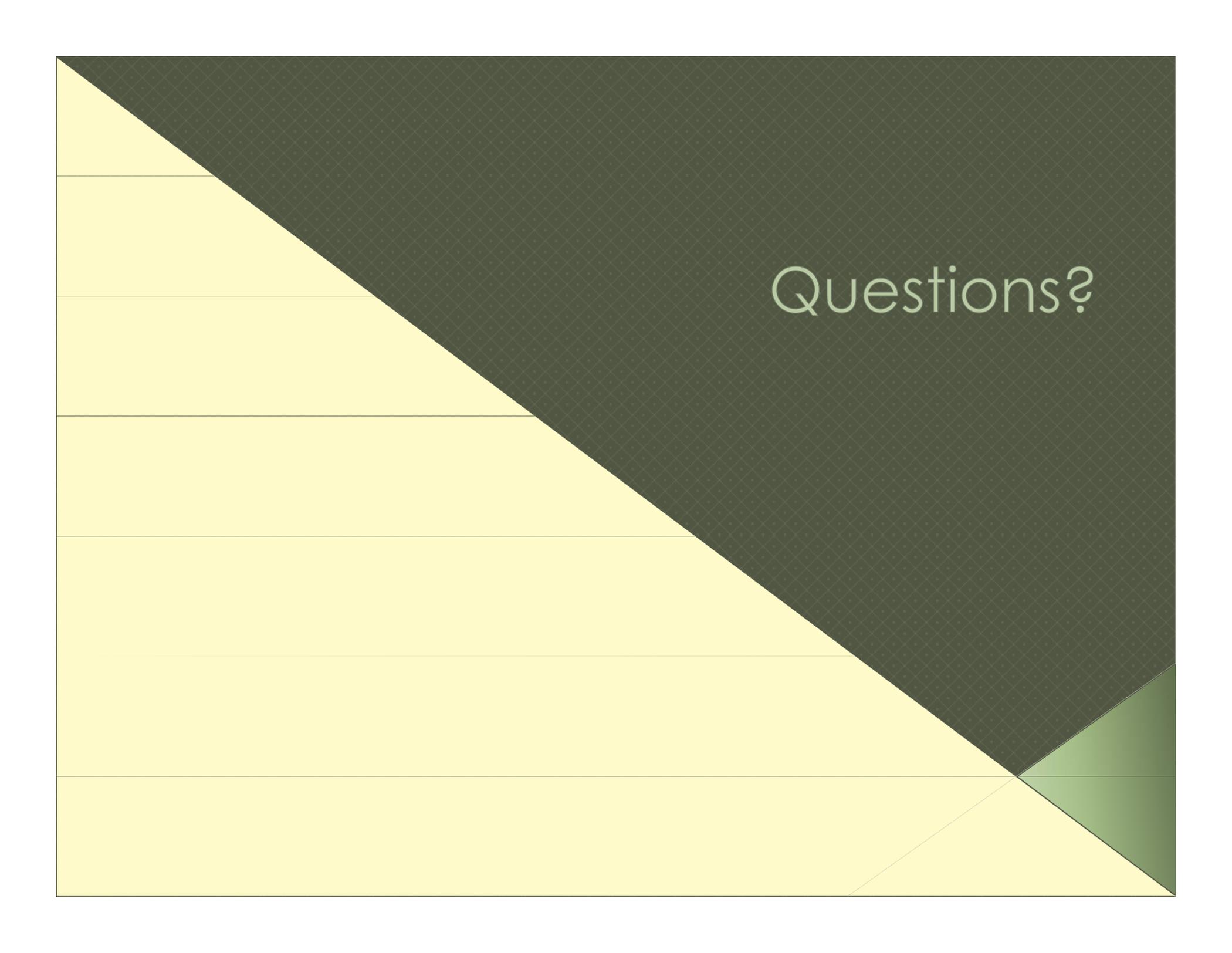
Marsh Wren Nest



North Stanly Ranch



Great Blue Heron



Questions?