

Small Erosion Repair Program

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Flood Maintenance Office

Department of Water Resources

Central Valley Flood Protection Board

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Small Erosion Repair Program

- Overview
- Program Description
- Coordination with Board Staff (Proposal)



Overview

- Interagency Flood Management Collaborative
- Small Erosion Repairs
- Current Status



Current Levee Maintenance Process

- Lengthy Permit Process
- 1 to 2 Repairs Annually



SERP: Improving Levee Maintenance

BENEFIT: PUBLIC SAFETY and ENVIRONMENT

- Reduce Number of Large Scale Repairs
- Prevent Escalating Loss of Existing Vegetation

Prevent Small Erosion Sites

From Becoming Large Scale Repairs



SERP Pilot Program

- Five Year “Pilot”
- Fifteen Erosion Repairs per Year
- Size of Erosion:
 - Tier 1: 0.1 acre; 264’
 - Tier II: 0.5 acre: 1,000’
- DWR Maintained Levees



Annual Review Process

DWR Maintenance Yard staff identifies erosion sites: **June 1**

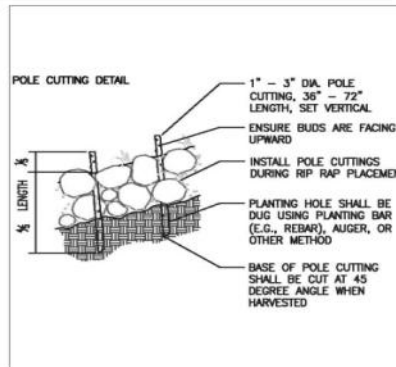
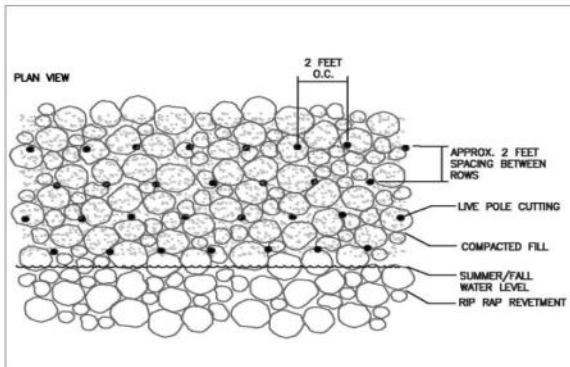
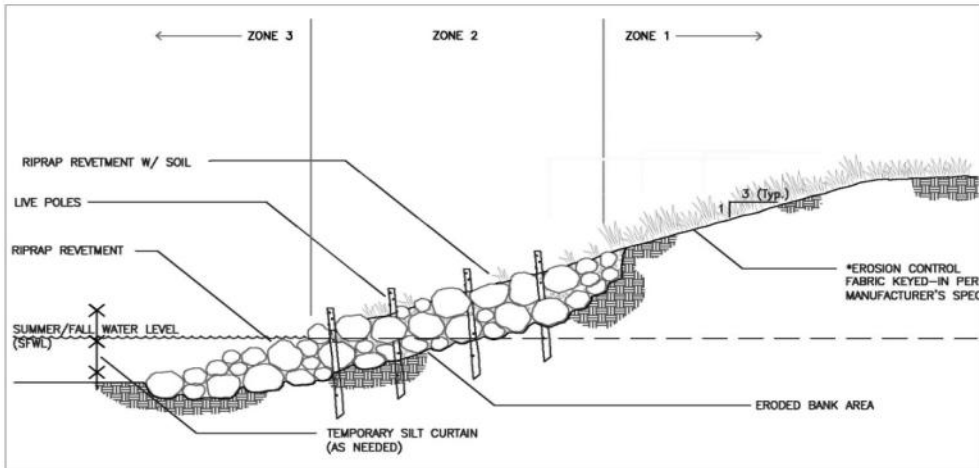
Annual Notification Package to agencies (including Board staff): **July 1**

Agency review: **30 days to Reject or Accept projects**

Procurement and construction complete: **October 15**

Design Templates

TEMPLATE FOR GUIDANCE ONLY – NOT PROJECT SPECIFIC



BANK FILL ROCK SLOPE WITH LIVE POLE PLANTING

Description and Application:
Bank fill rock slope with live pole planting is suitable for situations where significant bank erosion has occurred. Rock riprap and soil filled rock is placed in the eroded area and live pole cuttings are installed in the riprap. This technique creates a stable, vegetated bank toe and protected middle and upper bank, and is suitable for banks on inner and outer bends.

Maximum Slope: 1:1

Maximum Velocity: Project specific – determined by project engineer specification for rock size.

Limitations:

Live pole plantings may not be suitable for setback levees and bypass levees that are dry most of the year unless irrigated.

California Department of Water Resources

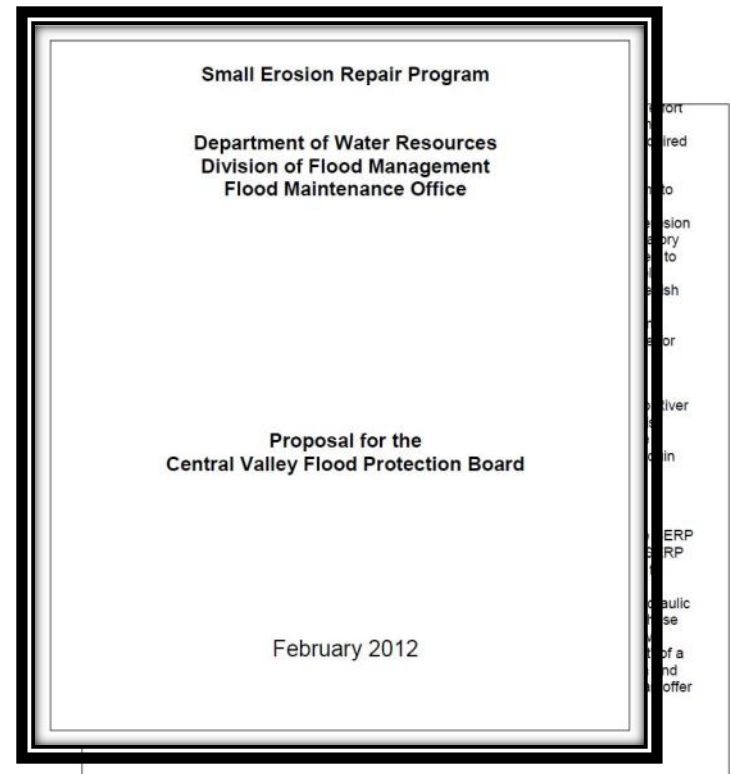
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DWR and Board Staff Coordination

- Geotechnical Evaluation
- Hydraulic Evaluation
- Long-term Vegetation Management
- Public Notification



Next Steps

- Finalize SERP Manual and PEIR
- Start Permit Applications
- Implement Pilot in 2013



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THANK YOU

QUESTIONS?