ALISOS AVE. BRIDGE DROP STRUCTURE REPLACEMENT PN: 98R047

Project Purpose:

• Protect bridge piles and abutments by installing a Grade Stabilization structure in Happy Canyon Creek beneath the bridge.

• Reduce scour erosion of Happy Canyon Creek in the vicinity of the bridge in the upstream and downstream directions.

TEAM MEMBERS:

Dave Rickard, Disaster Recovery Manager
Rob Tyzzer, Project Engineer
Jared Hart, Environmental
Tim Wong, Project Manager
Major scour and erosion resulted from the storms of 1995 and 1998.

The channel bottom of Happy Canyon Creek has degraded approximately 12 vertical feet since bridge construction in 1969.

Extensive lateral erosion downstream of the bridge occurred during high flow events in 1995 and 1998.
Emergency repairs after the ’95 and ’98 storms consisted of placing large rock and grouted rock slope protection to restore stream bed elevation beneath the bridge.
PROJECT MILESTONES

- PRECUREMENT OF REAL PROPERTY EASEMENT

- ENVIRONMENTAL PERMITTING
Real Property Easement
National Marine Fisheries Service unexpectedly designated Happy Canyon Creek habitat for the Endangered Species *Southern Steelhead*.

New requirements for fish passage required substantial changes to project design.
Steelhead Habitat Evaluation ordered by County Engineering Section.

Resulted in lifting of steelhead habitat designation and removal of fish passage requirements.
Grade Stabilization Design Considerations

Aesthetic Values

Costs

Reducing lateral erosion of creek banks
Grade Stabilization Structure

PROFILE VIEW
Project Status:

Awarded to Granite Const. $225,767

Construction Phase began 12/09/02.

Construction complete 1/17/03 (est.)

Project Funding:

• Disaster Recovery Initiative (DRI) Grant (Department of Housing and Community Development) Hazard Mitigation Program
  ➢ Construction Costs $290,000
  ➢ Activity Delivery $25,000

• State OES
  ➢ 25% of DRI Grant
Thank You!