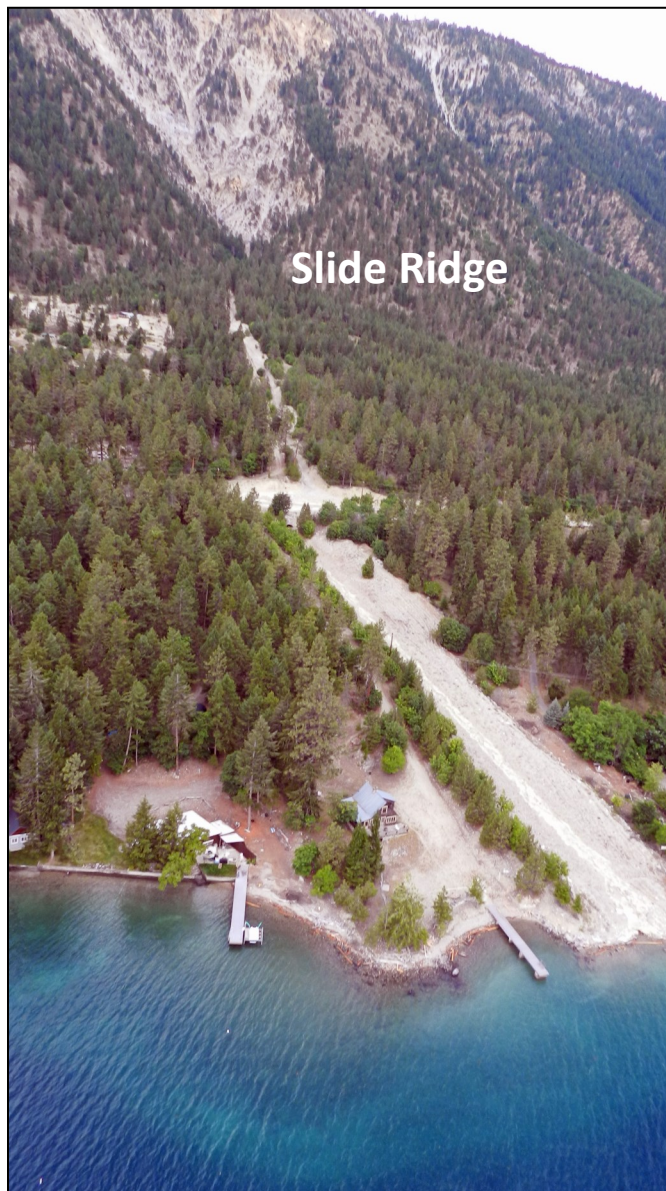




# FCD 503: Slide Ridge Culvert Replacement Project

South Lakeshore Road in Chelan, milepost 9.0

Last Updated: Oct. 3, 2018



Project Number: FCD 503

Project Length: N/A

Basis for Project: Minimize public safety hazard

Construction: Summer 2020

**Project Description:** Slide Ridge produces frequent, violent discharges of soil and rock material. The slide area is frequently hit by intense summer thunderstorms that deliver more than an inch of rainfall in an hour's time. Rainfall on Slide Ridge results in water flowing down extremely steep slopes, where it dislodges rock and moves rock down the slope to the apex of the alluvial fan. When this occurs, material typically is deposited on the roadway, leaving it impassable by vehicles, including emergency vehicles. Since 2003, the county has spent nearly \$750,000 removing slide material from the roadway and repairing damages. From 2003 to 2017, more than 62,000 cubic yards of debris, which was the result of nine debris flow events, was removed from the roadway and channel. Chelan County proposes replacing the roadway with a bridge-type structure, allowing debris to pass under the roadway.

**Status:** This is a project of the Chelan County Flood Control Zone District. Design is currently underway. KPFF of Seattle was hired in November 2017 as the lead consultant on the project.

## Funding Sources:

FEMA (PDM)	\$1,200,000
FCZD Funds	\$500,000
<b>TOTAL:</b>	<b>\$1,700,000</b>

The elevation change at Slide Ridge (left) is from 1,100 feet at the edge of Lake Chelan to 1,800 feet at the apex of the alluvial fans and over 5,000 feet at the top of the ridgeline that contributes direct water runoff to the alluvial fan area. It is a sparsely vegetated slope characterized by unstable rock formations and coupled with overly steep slopes.

