

Number 1 Canyon Improvements

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Wenatchee's Number One 1 Canyon can be characterized as having a steep channel throughout its 6.8-square-mile basin, allowing for mud, rock and other debris to flow down through the channel during heavy rains or flood waters that occur on the order of 10-year and greater recurrence intervals. When this happens, flooding of private and public property occurs, leaving costly cleanup to homeowners, Chelan County and the City of Wenatchee. The Chelan County Flood Control Zone District (FCZD) is leading the effort to mitigate the flooding issues in Number 1 Canyon. The following projects are paid for with FCZD funding.



Number 1 Canyon Conveyance Project

DESCRIPTION: Located at the end of Number 1 Canyon Road, the project replaced a hydraulically limited metal pipe culvert that carried intermittent seasonal flows originating from the basin above. The goal of this project is to improve conveyance, thereby minimizing failure, by realigning the culvert to a new location, adding a series of manholes to capture sediment and moving the outfall location further down the canyon drainway.

STATUS: Project was **completed** in summer 2018.

FUNDING: The \$183,204 project was paid for with monies from the Chelan County Surface and Stormwater Management Utility and the FCZD.

Number 1 Canyon Drainage Assessment

DESCRIPTION: In June 2018, Northwest Hydraulic Consultants of Seattle, or NHC, was hired by the FCZD to complete a needs analysis of Number 1 Canyon. The study will identify system deficiencies that lead to flood risks and potential mitigation measures to minimize those risks. It will be a tool in guiding future capital projects that protect property and the health and safety of the public from flooding in the canyon's basin.

STATUS: Hydraulic modeling of the entire drainway is nearing completion.

FUNDING: The \$114,500 project is being paid for by the FCZD.



Number 1 Canyon Debris Facilities #2

DESCRIPTION: Chelan County purchased a 21.5-acre parcel at the end of Number 1 Canyon Road for the purpose of constructing a series of flood debris basins to collect sediment and debris transported during flood events that emerge from the upstream drainage. A similar detention basin (pictured above) was constructed in 2015 further down Number 1 Canyon Road.

STATUS: Design is underway. RH2 Engineering is the lead consultant on the project. Design costs \$175,780 and is being paid for by the FCZD.

FUNDING: Construction on the debris basins is estimated to cost \$1 million. The FCZD will seek federal grant funding to pay for the project.