

## SPRUCE CREEK CULVERT REPLACEMENT

A new box culvert was installed at Spruce Creek and the Upper Hoh Rd was repaired after a storm event damaged the old culverts and the roadway. Repeated flooding at the location had damaged the culverts, which culminated in a January, 2009 storm event that required emergency repairs. The project also eliminated a partial fish passage barrier. The newly-installed box culvert will prevent future flooding and potential road damage and will also allow fish passage along the creek.

The Upper Hoh Rd is the only access road for local residents and visitors to Olympic National Park's Hoh Rain Forest. The project involved constructing a temporary stream bypass system, and a temporary one-lane bypass road in order to maintain traffic during construction. Construction work included removing the old culverts; installing a pre-cast, three-sided concrete culvert, concrete traffic barriers, and guardrail; and, reconstructing the road over the culvert.

Seton Construction, Inc. of Port Townsend constructed the project for \$414,620. The project was funded at 86.5% by the Federal Highway Administration's Emergency Repair Program and 13.5% by the County Road Fund.



The old Spruce Creek culverts—with diameters of 72-in and 48-in — and the Upper Hoh Rd above, damaged by flooding.



The new box culvert is 22-ft wide and 40-ft long. Other improvements to Spruce Creek included grade controls to improve streambed stability and protect the structure from scour.



After the storm event in January, 2009, debris covered the Upper Hoh Rd and water eroded parts of the road surface.



The repaired Upper Hoh Rd continues to provide safe and reliable access for residents and for visitors to the Hoh Rain Forest.