

CASE STUDY

PEND OREILLE INDIAN CREEK NEW PORT, WA

HIGHWAY EMBANKMENT CONSTRUCTION USING PYRAWALL
WRAP-FACE VEGETATED WALL SYSTEM



PROJECT SUMMARY

Pend Oreille County needed to remove a culvert on Indian Creek that was preventing Bull Trout from traveling upstream to spawn. The Bull Trout are a threatened species under the U.S. Endanger Species Act and the stream is considered environmentally sensitive. Additionally, the county needed to address the road's condition. It was determined to realign the road and replace the culvert with a 58-foot, single-span bridge. Limited physical and right-of-way access dictated that the earth-fill embankment approaches required for the new bridge would need steep wing-walls.

The owner considered using steel sheet pile walls, but the cost quickly exceeded budget. And vinyl sheet pile walls didn't meet the strength criteria. Also, residents and a local Indian tribe wanted a solution with a natural, vegetated look rather than a concrete wall along the wetland. PYRAWALL™ was selected because it is an engineered wrap-face, vegetated solution that costs less than a concrete retaining wall. In addition to yielding a natural look, the system's bracing is all internal creating a smaller footprint overall. PYRAWALL can also withstand animal loading expected from deer, antelope and moose in the area.

PYRAWALL was used to build an east and west-approach embankment that reached up to 18 feet tall. Once installed, PYRAWALL provides immediate erosion control. The constructed wall will be 85%-90% vegetated in four years and will provide erosion control protection for up to 75 years.



PROBLEM Pend Oreille County needed to replace a culvert to protect the Bull Trout and realign a road



INSTALLATION PYRAWALL was used to build earth-fill embankment approaches



SOLUTION PYRAWALL was selected because it yields a vegetated solution that will blend with the environment



PERFORMANCE PYRAWALL provides immediate erosion protection for up to 75 years

FEATURES & BENEFITS

- Interlaced bracing provides superior material connection and system performance
- Is a Vegetated Best Management Practice Solution for NPDES Storm Water Compliance
- Superior UV resistance for up to 75 years of design life
- Eliminates the need for temporary metal bracing or removable forms to improve installation efficiency
- On-site soil can be used for infill eliminating the cost and carbon footprint of importing soil
- Available in Green or Tan



VISIT OUR WEBSITE FOR MORE INFORMATION, PRODUCT SAMPLES OR OTHER INQUIRIES OR CALL CUSTOMER SERVICE AT 1.800.621.1273



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