



August 13, 2015 (Revised to add 4' of 24" rock in base)

**Engineer's Estimate for Construction Costs
Washington County - Pinto Creek Crossing
Remove Concrete Culverts and Build Rock Waterway Crossing
As per Forest Service Drawing based on County Crews**

Crane Rental – Cost quote from Ruesch Machine of \$230 per hour. 10 hours of total time. **Crane Rental Cost: \$2,300**

Trackhoe – Cost per hour for County trackhoe with operator is \$125 per hour. First day help load culverts and begin excavation. Second day finish excavation and install rock with geotextile. 20 hours of total time. **Trackhoe Cost: \$2,500**

Transport for trackhoe, loaders, and culverts – Cost per hour for a County transport with dump truck to pull it is \$100 per hour. Ten hours each day. 20 hours of total time. **Transport Cost: \$2,000**

Three Dump Trucks – Cost per hour for a County dump truck with operator is \$85 per hour. First day two dump trucks could aid in excavation while one other was transporting pitrun. Second day one dump truck could aid in excavation and placing rock with geotextile while the other two could transport native pit-run roadbase from county pit. Three dump trucks for 10 hours each day. 60 hours of total time. **Dump Truck Cost: \$5,100**

Two Loaders – Cost per hour for a County loader with operator is \$110 per hour. First day one loader could aid in excavation and the other loading rock. Second day one loader could aid in excavation and placing rock with geotextile while the other one could load pit-run roadbase. Two loaders for 10 hours each day. 40 hours of total time. **Loader Cost: \$4,400**

Rock cost – 150 CY of rock at \$20 per CY. **Rock Cost: \$3,000**

Rock Delivery Cost – Side-dump truck can haul 20 CY. Six trips at 3+ hrs. per trip would require 20 hours at \$100 per hour **Rock Delivery Cost: \$2,000**

Geotextile cost – Eighty SY of fabric at \$5 per SY. **Fabric Cost: \$400**

Total Estimated Cost: \$21,700