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Restoration Techniques



Severe Bank Erosion





Bypass Channel

Excavating the new
channel and floodplain





Stabilization during winter has its limitations



Ten Months Later



Boulder toe revetment
with root wads and log
vane



The following fall





Rosgen rock vanes for grade control and bank protection



Channel realignment with boulder toe
Adding gravel to the riffle to benefit fish spawning and insect production



Healthy vegetation and a proper riffle-pool sequence



Re-alignment with boulder toe and cross vane



Transverse cobble bar due to debris jam



Passive Treatment System



Meandering channel with in-line wetlands





Flood flow conveyance is created



Removal of fine sediments
to create a bankfull bench



JUN 1 2005

JUN 2 2005

Stabilized channel





Cross vane with boulder bank revetment

Boulder toe with live branch layering





Cross vane with double throat



Cobble weir



Rock vane arms with log throat



Bank sloping and re-vegetating



A little grass goes a long way

