

Big Flatbrook River Restoration/Habitat Enhancement Project: a photo tour



DEEPEN TOP OF HOME POOL, EXTENDING IT TOWARD THE THREE BRIDGES' STEEL BRIDGE. REPAIR THE BEND POOL IMMEDIATELY ABOVE THE STEEL BRIDGE (NO PHOTO ATTACHED) ON FEDERAL LAND WITH PERMISSION. THAT WILL LESSEN DAMAGE TO THE STEEL BRIDGE'S UPSTREAM PIER. WORK WITH THE STATE TO RE-GRADE HUNTERS' AND ANGLERS' PARKING LOT TO SEND FLOOD WATERS INTO OLD OVERFLOW CHANNEL IN THE WOODS AND NOT BEHIND OUR HANDICAPPED PLATFORM, ERODING THAT STRUCTURE FROM BEHIND. POSSIBLY PLACE A CHAPTER KIOSK IN PARKING LOT AND ONE IN ROY BRIDGE PARKING LOT TO HIGHLIGHT THE TCA AND TU'S ACTIVITIES, WARN OF BEARS, ETC.



FIRST POOL BELOW HOME POOL . THIS WILL GET A "DIG AND PITCH" TREATMENT, LOWERING POOL DEPTH APPROX. 1 1/2' - 2' WITH DREDGE MATERIAL COMING TO THE INSIDE BEND AS AN EXTENDED POINT BAR BEYOND WHAT YOU CAN SEE IN THIS PICTURE . 250 FEET OF BANKS TO BE PLANTED IN SEPT. 2010 AT THIS LOCATION



FIRST ENGINEERED RIFFLE/WEIR STRUCTURE AT TAILOUT OF FIRST POOL. SETS UP THE RIVER FOR THE BRAIDED SECTION BELOW. RIVER NARROWED SO FIRST POOL FLOWS WELL IN ADDITION TO CREATING A NEW POOL BELOW ENGINEERED RIFFLE/WEIR. WE WILL END THE FIRST APPROX. 250' BANK PLANTING IN THIS AREA AND PLANT ON BOTH BANKS IN SEPT. 2010



THE UPPER SECTION OF THIS LONG, SLOW STRETCH WILL GET A DIG AND PITCH TREATMENT TO LOWER POOL DEPTH WHILE BRINGING DREDGE SPOIL INTO INSIDE POINT BAR ON ALTERNATING SIDES OF THE RIVER. SOME LARGE BOULDERS WILL BE ADDED FOR HABITAT IN NON-DEPOSITIONAL ZONES. NEAR BANK IS WHERE THE 2 LARGE TREES ARE ACROSS THE RIVER AND THIS BANK AND OPPOSITE BANKS NEED PLANTING IN SEPT. 2010

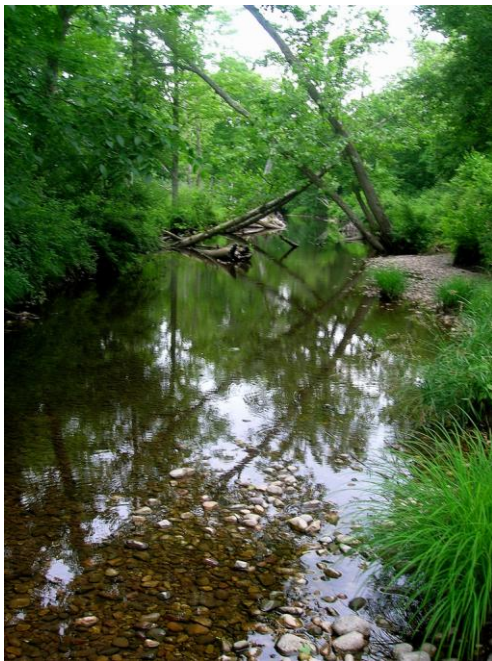


THIS SECTION IS SOMEWHAT UNSTABLE WITH THESE TREES AND THE CURRENT POOL FORMED BY THE FALLEN TREES HAS GREAT HABITAT AND IS QUITE DEEP. BEST TO SAVE OUR FUNDS AND NOT WORK ON THIS SECTION EXCEPT ADDING A POSSIBLE DEFLECTOR OUT OF BOULDERS JUST ABOVE THE UPSTREAM TREE TO HELP THE ERODED BANKS. THIS IS ANOTHER PLACE WE WILL PLANT BOTH BANKS IN SEPT. 2010 TO STABILIZE THEM FROM FURTHER EROSION. GREAT SPOT FOR SOME OF THOSE YOUNG SYCAMORE TREES IN THE EARLY AUGUST PLANTING PROJECT. WE WILL PLANT MORE IN SEPT. AS WELL AS SPRING 2011 WITH WILLOWS AND DOGWOOD



BLOCK THE LEFT CHANNEL (LOOKING DOWNSTREAM WHICH WAS THE OLD CHANNEL) BY BUILDING UP THE TAILOUT OF THE POOL BELOW THE 2 LARGE DOWNED TREES THAT ARE JUST ABOVE THIS SHOT. MOVE THE ISLAND ON THE RIGHT OF THIS PHOTO UPSTREAM AND OPEN THE LOWER CHANNEL WHERE THE RIVER HEADS TO THE RIGHT (MIDDLE OF THIS PHOTO UNDER THE OVERHANGING TREE). THAT WILL BLOCK THE SECOND OPENING /BRAID IN THIS STRETCH AND BRING THE FULL RIVER INTO A SINGLE CHANNEL AS IT WANTS TO HEAD TO THE RIGHT AS YOU LOOK DOWNSTREAM. THE “VOLUNTEER” YOUNG SYCAMORE TREES THAT WE WILL DIG UP AND USE

ELSEWHERE ARE DOWN THE LEFT CHANNEL ON THE OLD GRAVEL BAR FOR REFERENCE. YOU CAN SEE THE END OF THE ERODED BANK ON THE BOTTOM LEFT OF THIS SHOT. THIS BANK IS ALL PART OF THE BANK MENTIONED ON THE ABOVE PHOTO OF THE 2 BIG DOWNED TREES



THIS IS THAT SAME “LEFT CHANNEL” WE PLAN TO FURTHER BLOCK OFF EXCEPT IN HIGH WATER EVENTS TO REDUCE THIS BACK CHANNEL. WE WILL BUILD UP THE TAILOUT OF THE POOL ABOVE TO CUT OFF THE WATER YOU SEE IN THE FOREGROUND OF THIS PHOTO. WATER WILL FLOW OVER OUR STRUCTURE IN HIGH WATER INTO THE OLD CHANNEL WHICH IS WHAT THE RIVER SHOULD DO WHEN PROPERLY CONNECTED TO ITS FLOODPLAIN. THIS WILL ASSIST THE UPPER CHANNEL WHERE IT BENDS RIGHT (SEE PHOTO ABOVE) BY ENSURING MOST OF THE RIVER’S ENERGY IS DIRECTED INTO THE NEW CHANNEL AND NOT DOWN THIS OLDER CHANNEL.



THIS RIFFLE AND THE ONE ABOVE WILL BE STABILIZED WITH LARGE BOULDERS AND A SMALL POOL WILL BE DUG BETWEEN THEM (MOST LIKELY ON THE POOL, MAY BE POCKET WATER). THIS IS THE NEWER CHANNEL PARALLEL WITH THE OLD CHANNEL WE’LL BE BLOCKING OFF. THIS RIFFLE RUNS INTO THE POOL BELOW WITH THE TREE OVERHANGING IT CURRENTLY. WE WILL MOVE THIS RIFFLE UPSTREAM AND HAVE A LONGER POOL BELOW.



THIS IS MORE OR LESS THE DOWNSTREAM-MOST AREA TO BE ADDRESSED AT THIS TIME WITH THE SOLE EXCEPTION OF 2 HAND-BUILT STONE DAMS A FEW HUNDRED YARDS BELOW HERE. PLANS ARE TO DEEPEN THIS POOL AND ADD A POINT BAR WITH THE DREDGE ON RIVER LEFT LOOKING DOWNSTREAM TO NARROW THE CHANNEL AND KEEP IT DEEP. THIS POOL WILL BE DIRECTED AT THE BANK ON RIVER RIGHT AND WE NEED TO PLANT MORE BIG TREES HERE LIKE SYCAMORES ON THAT BANK. THERE ARE GOOD SHRUBS HERE, WE JUST NEED TO ESTABLISH LARGER TREES ON THE RIGHT BANK IN AUG. AND SEPT.