

Fish Run Improvements at the Stony Brook Mill Site



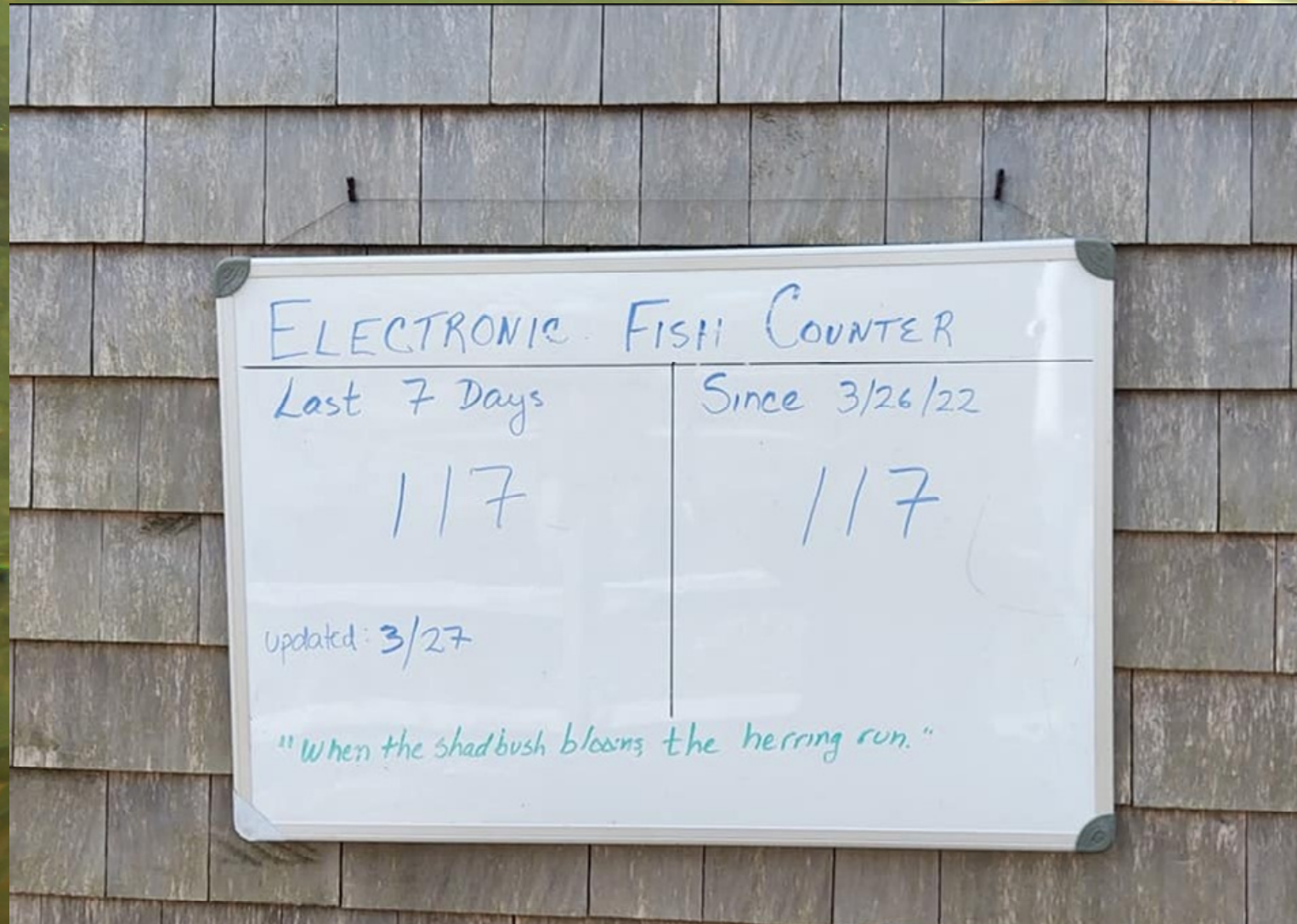
Project Design Partners



Cape Cod
Conservation
District 



Project purpose: Herring, Alewife, National Registry of Historic Places

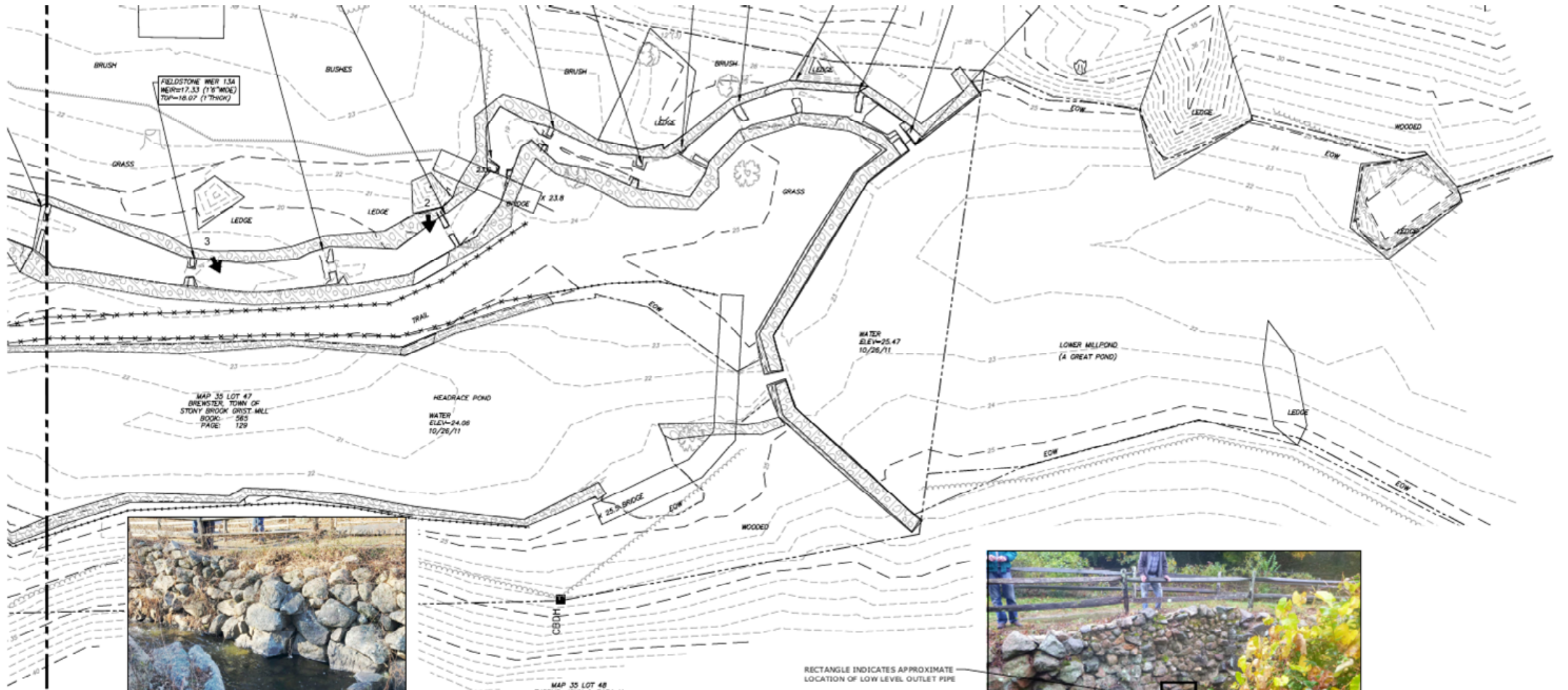












FIELDSTONE WIER 1.34
 HEIGHT=17.33 (1'10" HIGH)
 TOP=18.07 (1" THICK)

MAP 35 LOT 47
 BREWSTER TOWN OF
 STONY BROOK DIST. MILL
 BOOK: 563
 PAGE: 129

HEADRACE POND
 WATER
 ELEV=24.06
 10/26/11

WATER
 ELEV=25.47
 10/26/11

LOWER MILLPOND
 (A GREAT POND)

MAP 35 LOT 48
 THORNE JOHN & SARA M
 BOOK: 13065
 PAGE: 240

RECTANGLE INDICATES APPROXIMATE
 LOCATION OF LOW LEVEL OUTLET PIPE



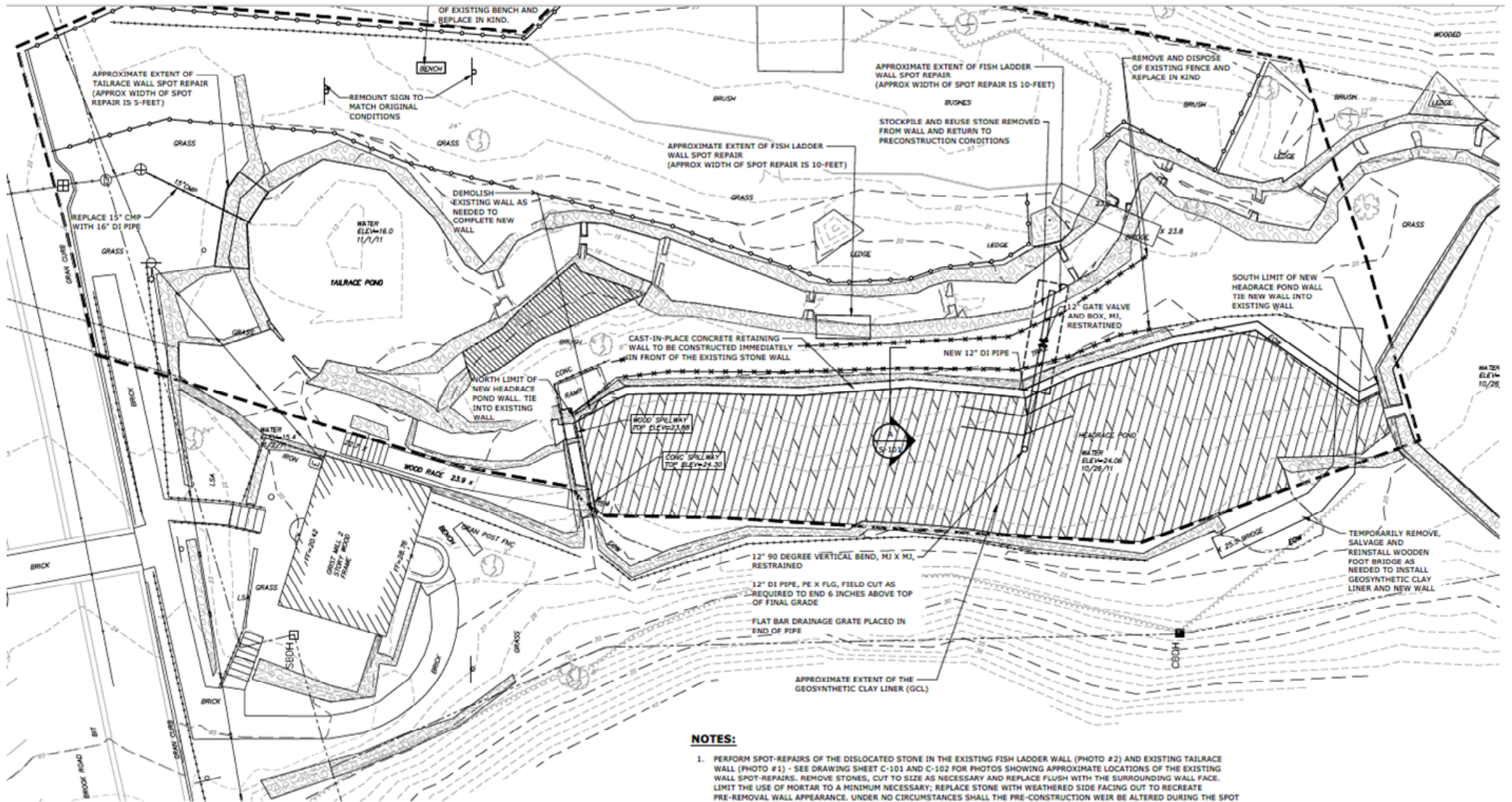
PHOTO 3



PHOTO 2

LEGEND:
 2 → PHOTO LOCATION





NOTES:

1. PERFORM SPOT-REPAIRS OF THE DISLOCATED STONE IN THE EXISTING FISH LADDER WALL (PHOTO #2) AND EXISTING TAILRACE WALL (PHOTO #1) - SEE DRAWING SHEET C-101 AND C-102 FOR PHOTOS SHOWING APPROXIMATE LOCATIONS OF THE EXISTING WALL SPOT-REPAIRS. REMOVE STONES, CUT TO SIZE AS NECESSARY AND REPLACE FLUSH WITH THE SURROUNDING WALL FACE. LIMIT THE USE OF MORTAR TO A MINIMUM NECESSARY; REPLACE STONE WITH WEATHERED SIDE FACING OUT TO RECREATE PRE-REMOVAL WALL APPEARANCE. UNDER NO CIRCUMSTANCES SHALL THE PRE-CONSTRUCTION WEIR BE ALTERED DURING THE SPOT REPAIRS.

Fish Run Improvements north of road



Existing conditions and weirs.



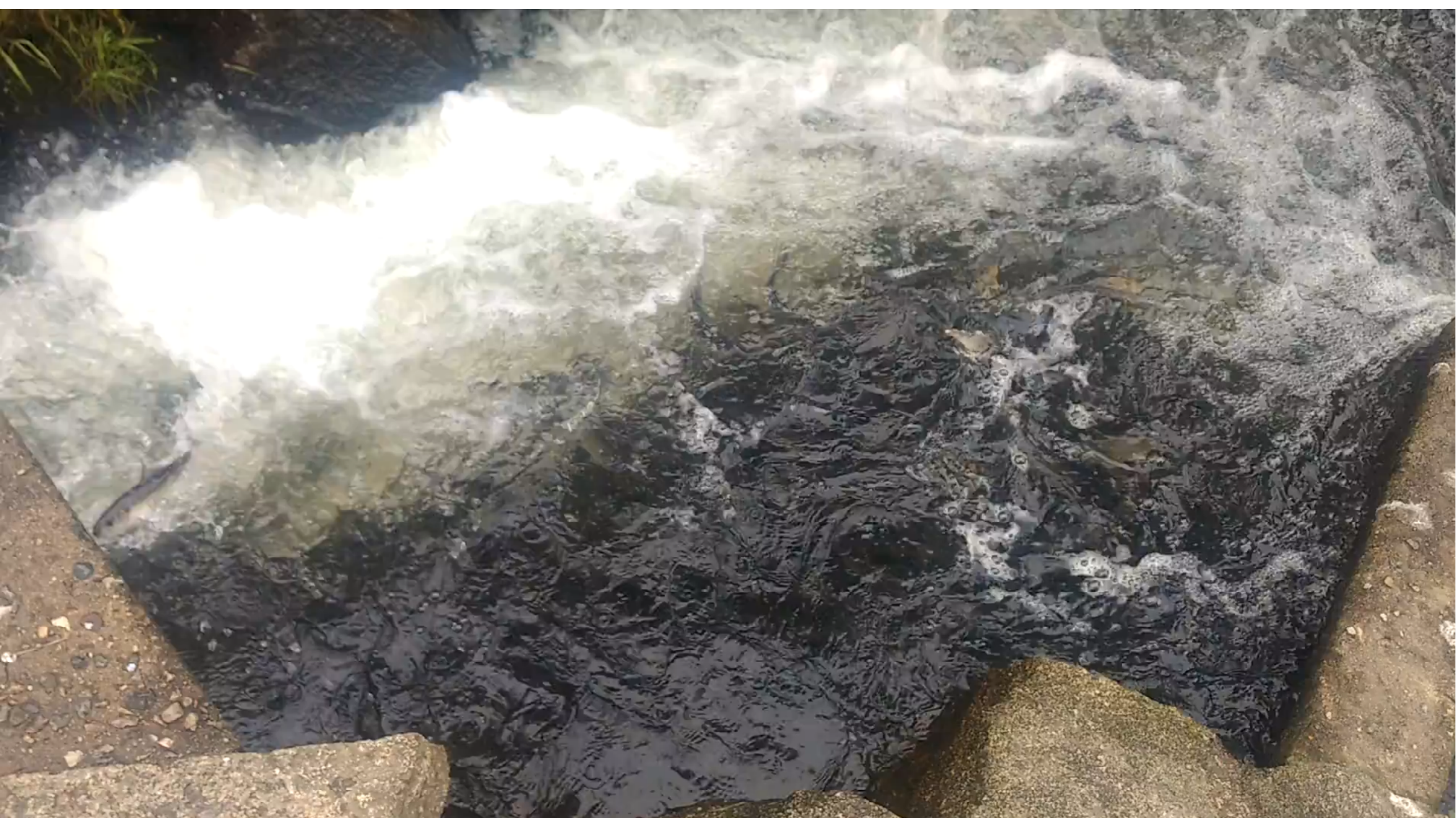




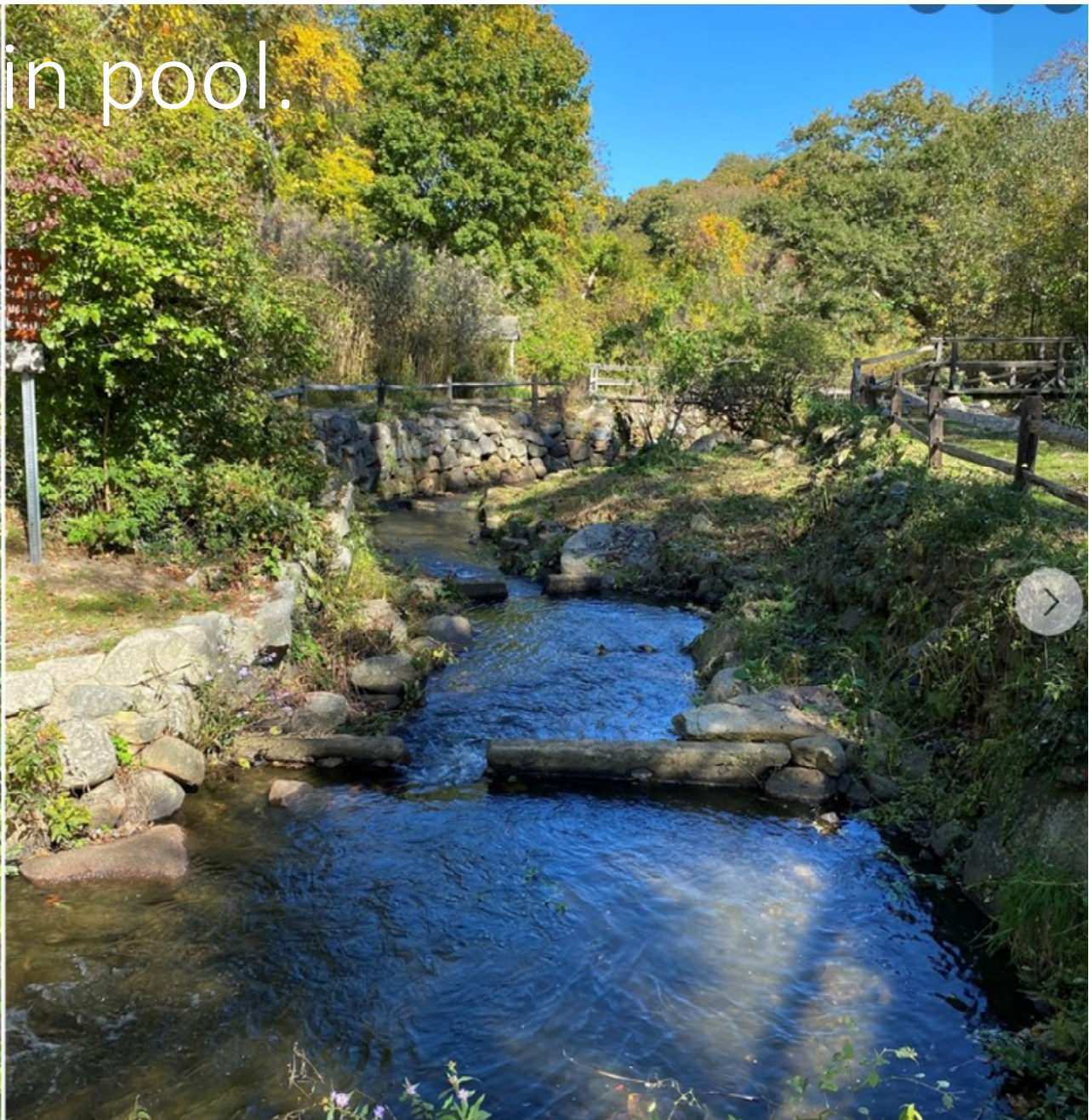
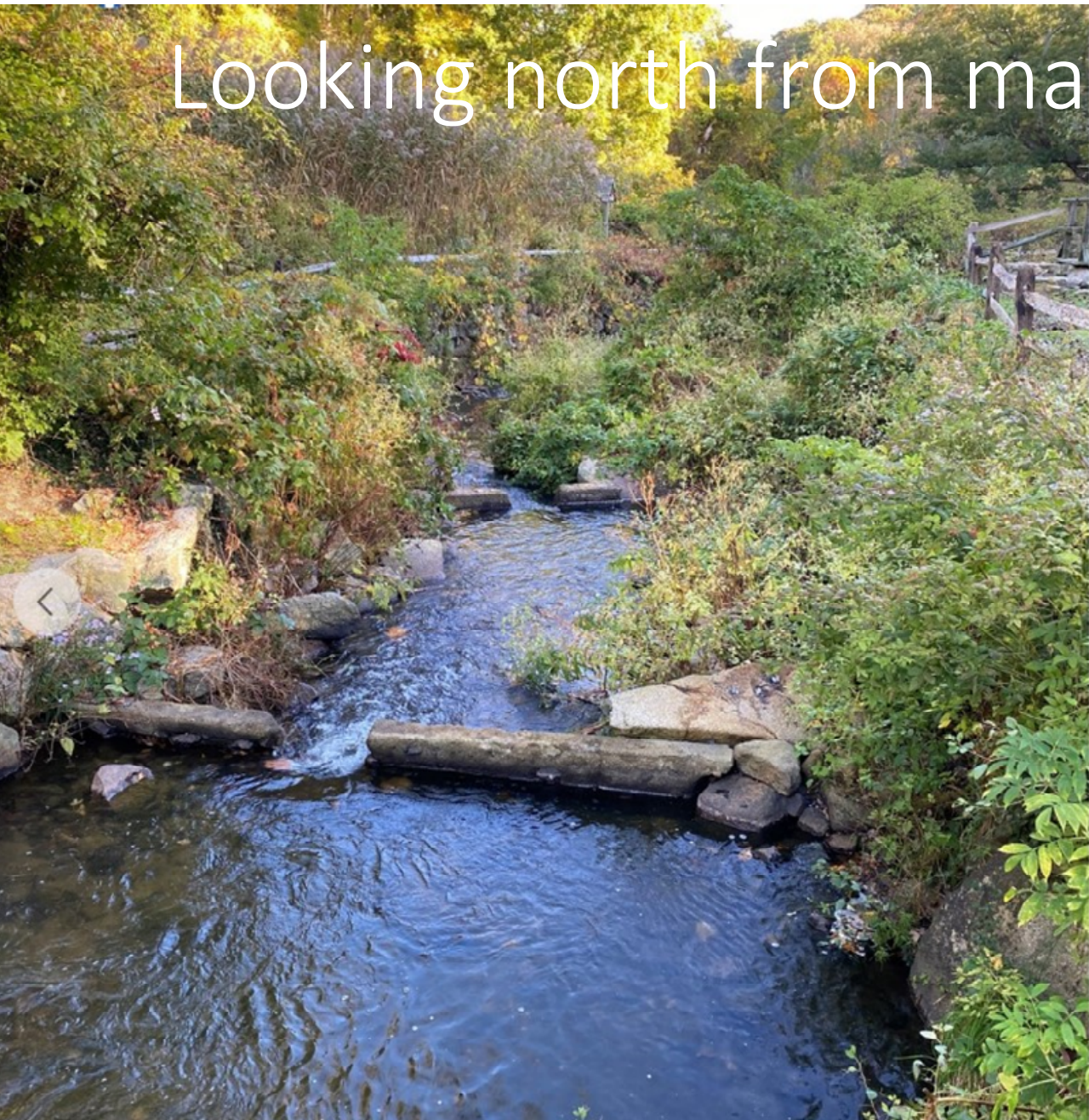








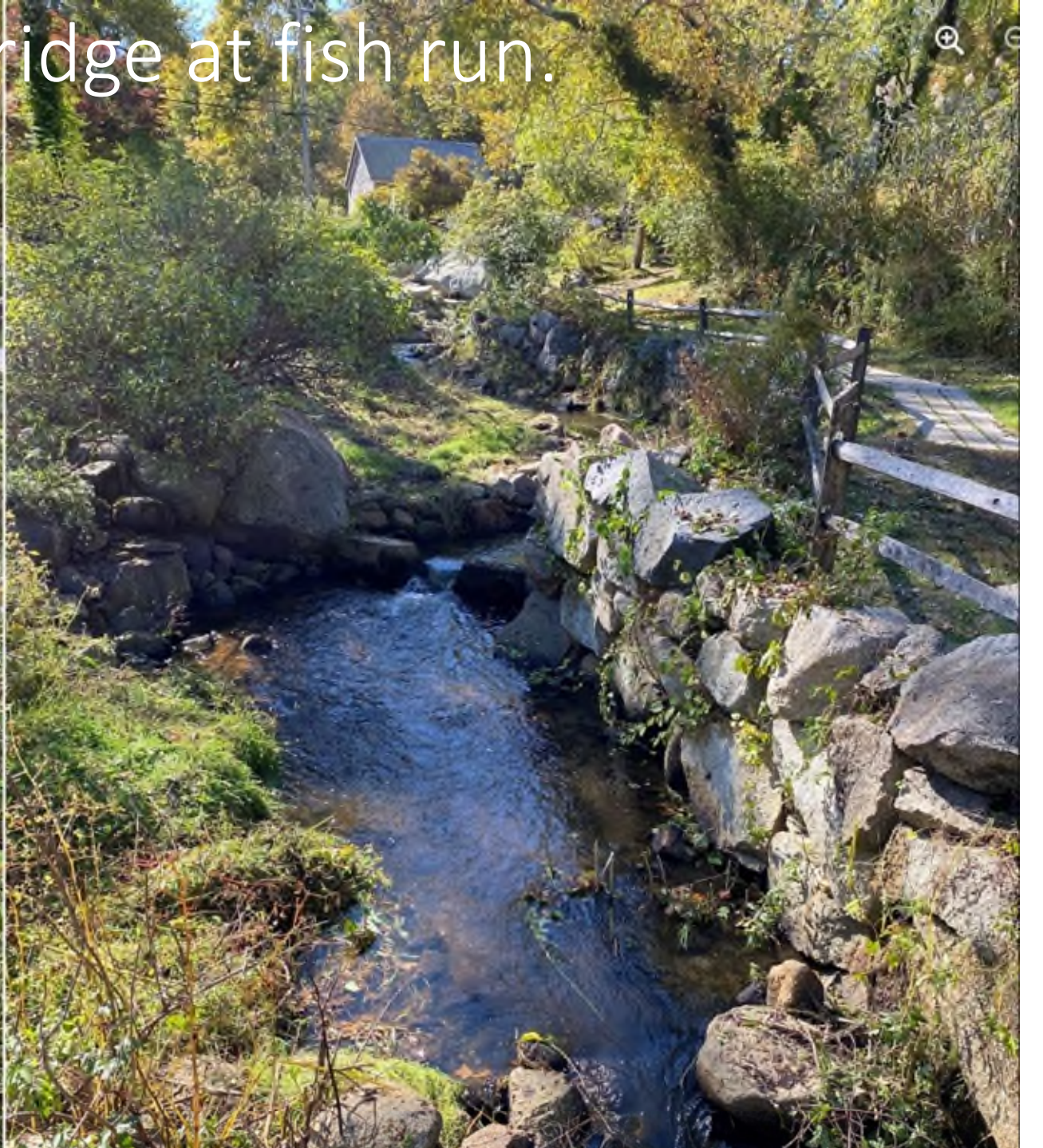
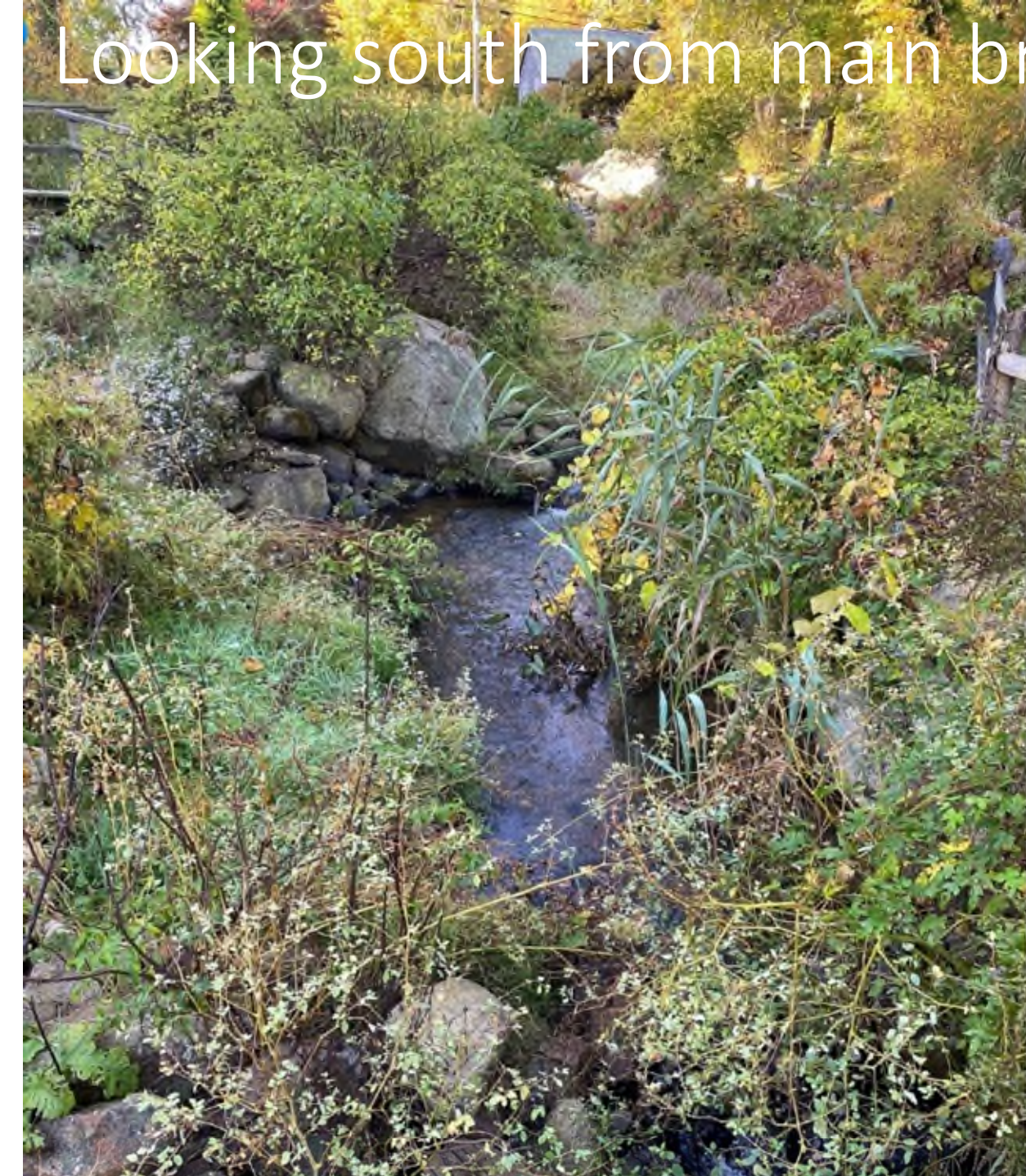
Looking north from main pool.



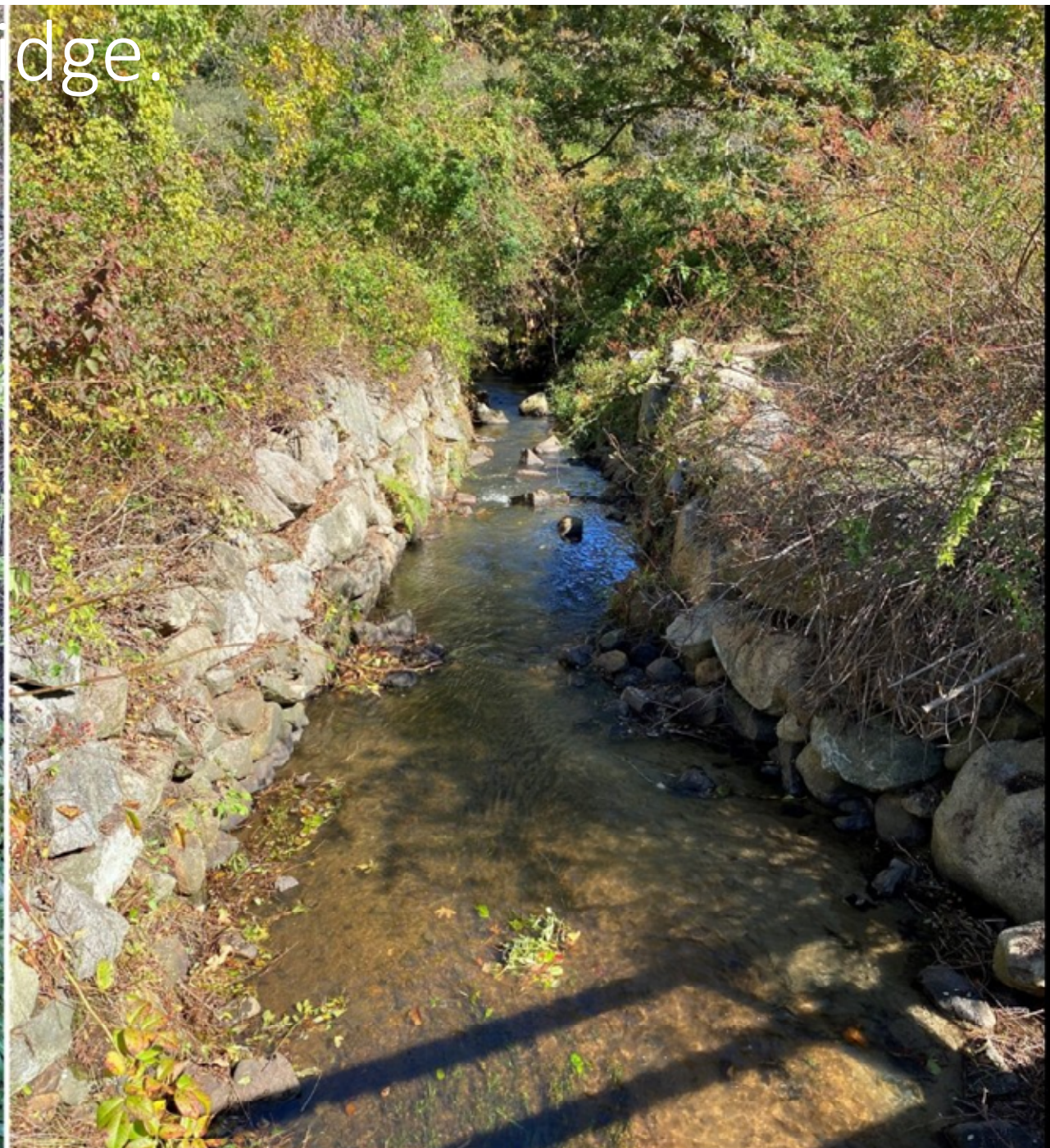
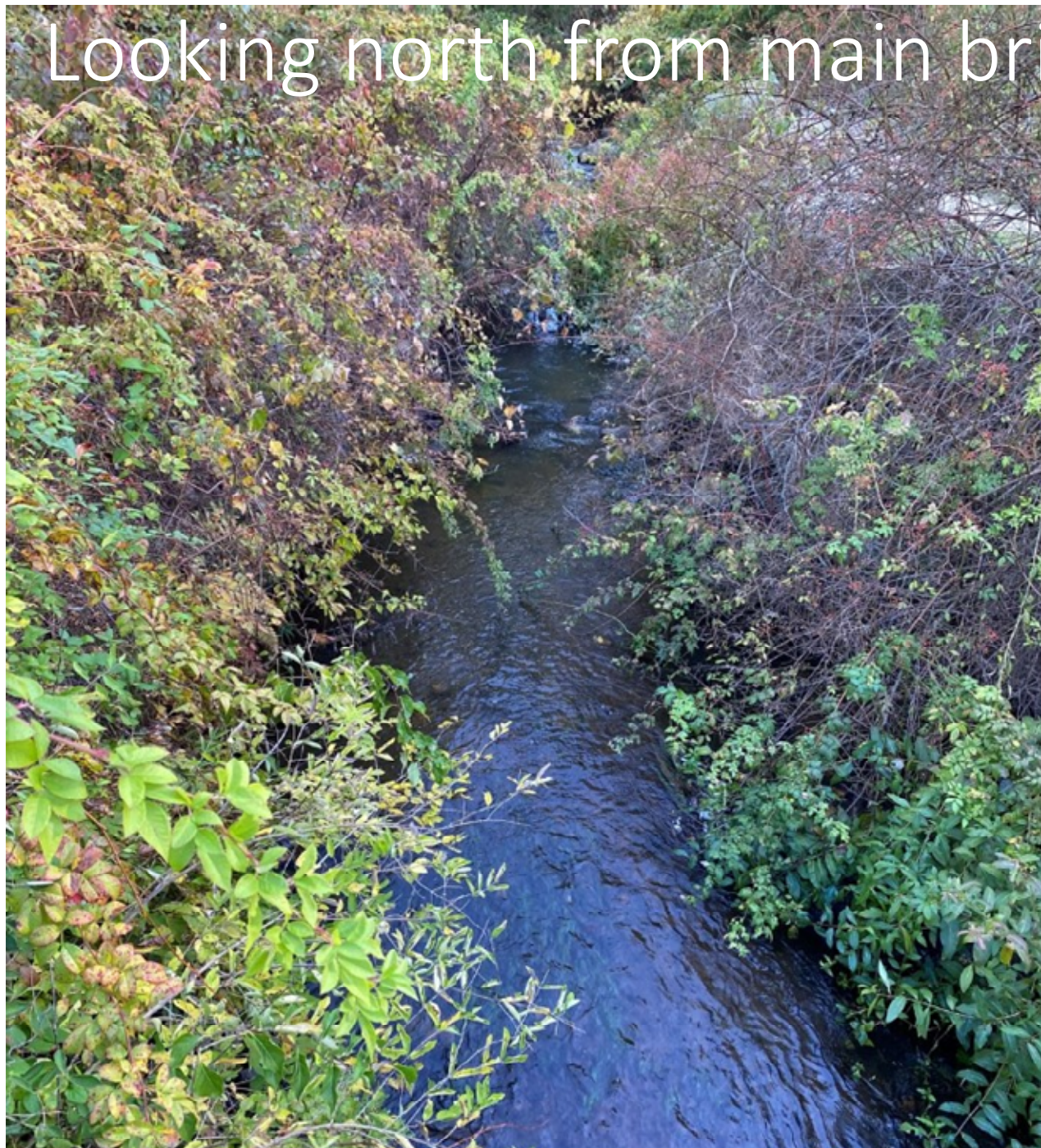
Looking south from main bridge at bypass channel.



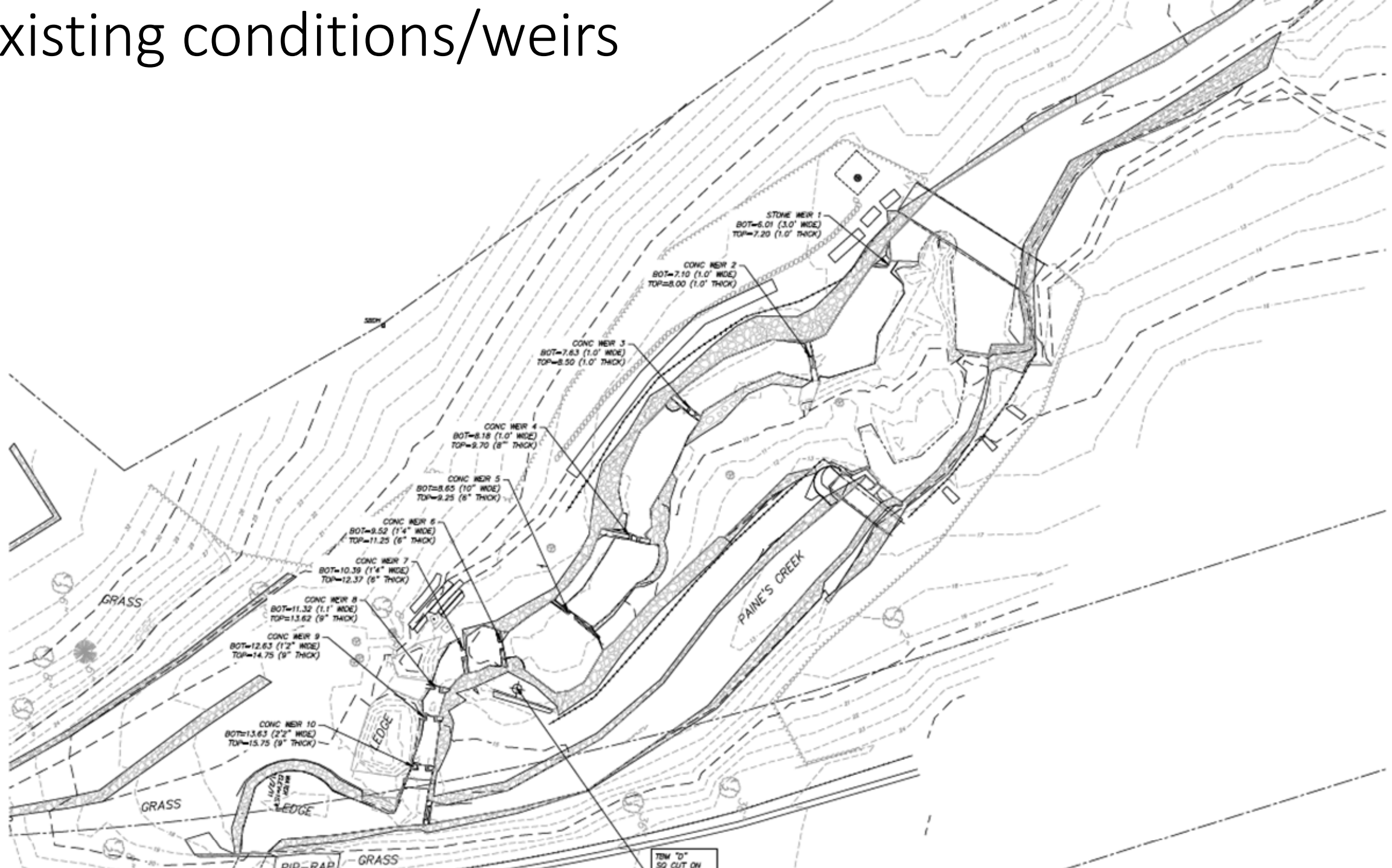
Looking south from main bridge at fish run.



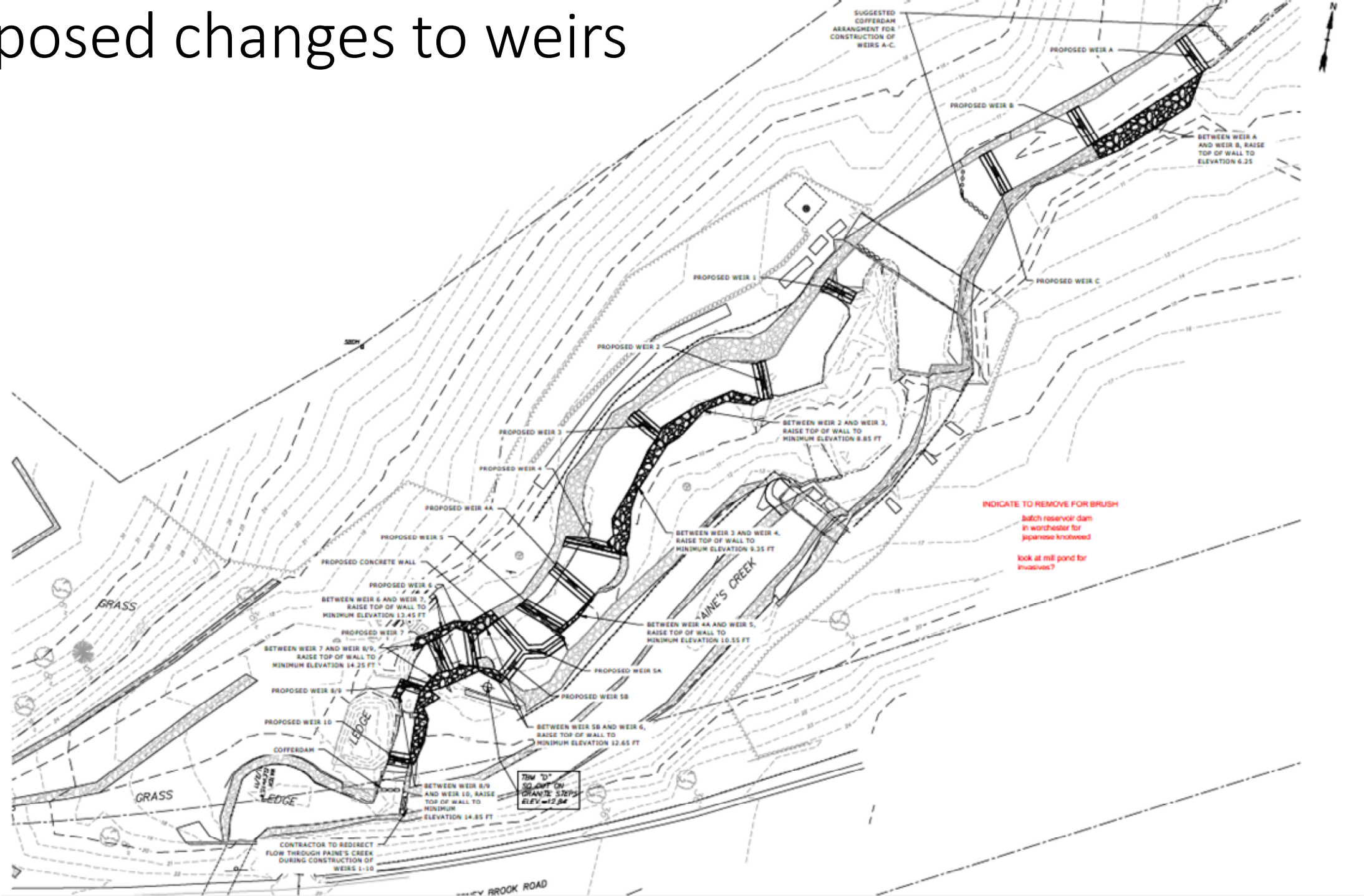
Looking north from main bridge.



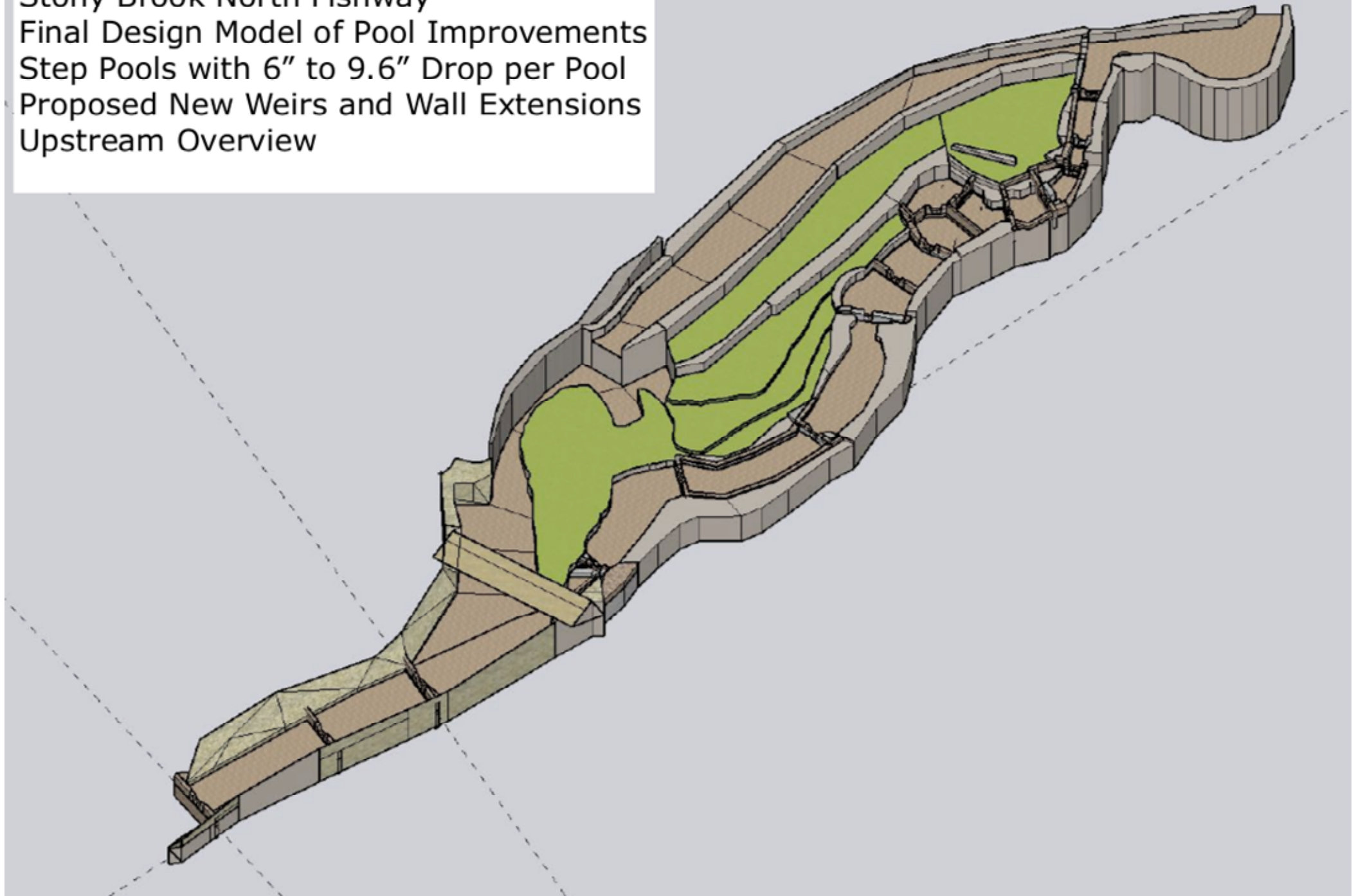
Existing conditions/weirs



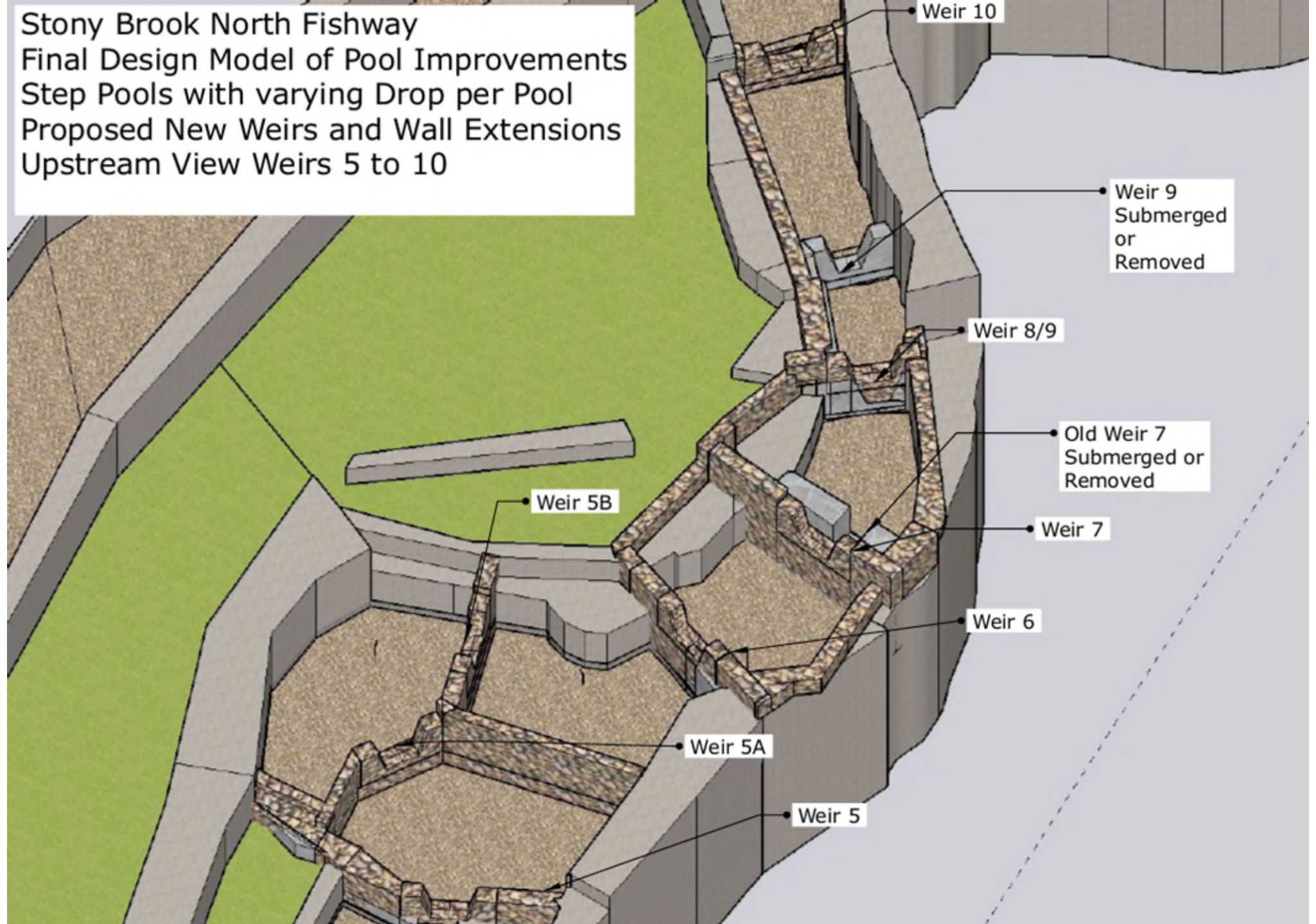
Proposed changes to weirs



Stony Brook North Fishway
Final Design Model of Pool Improvements
Step Pools with 6" to 9.6" Drop per Pool
Proposed New Weirs and Wall Extensions
Upstream Overview

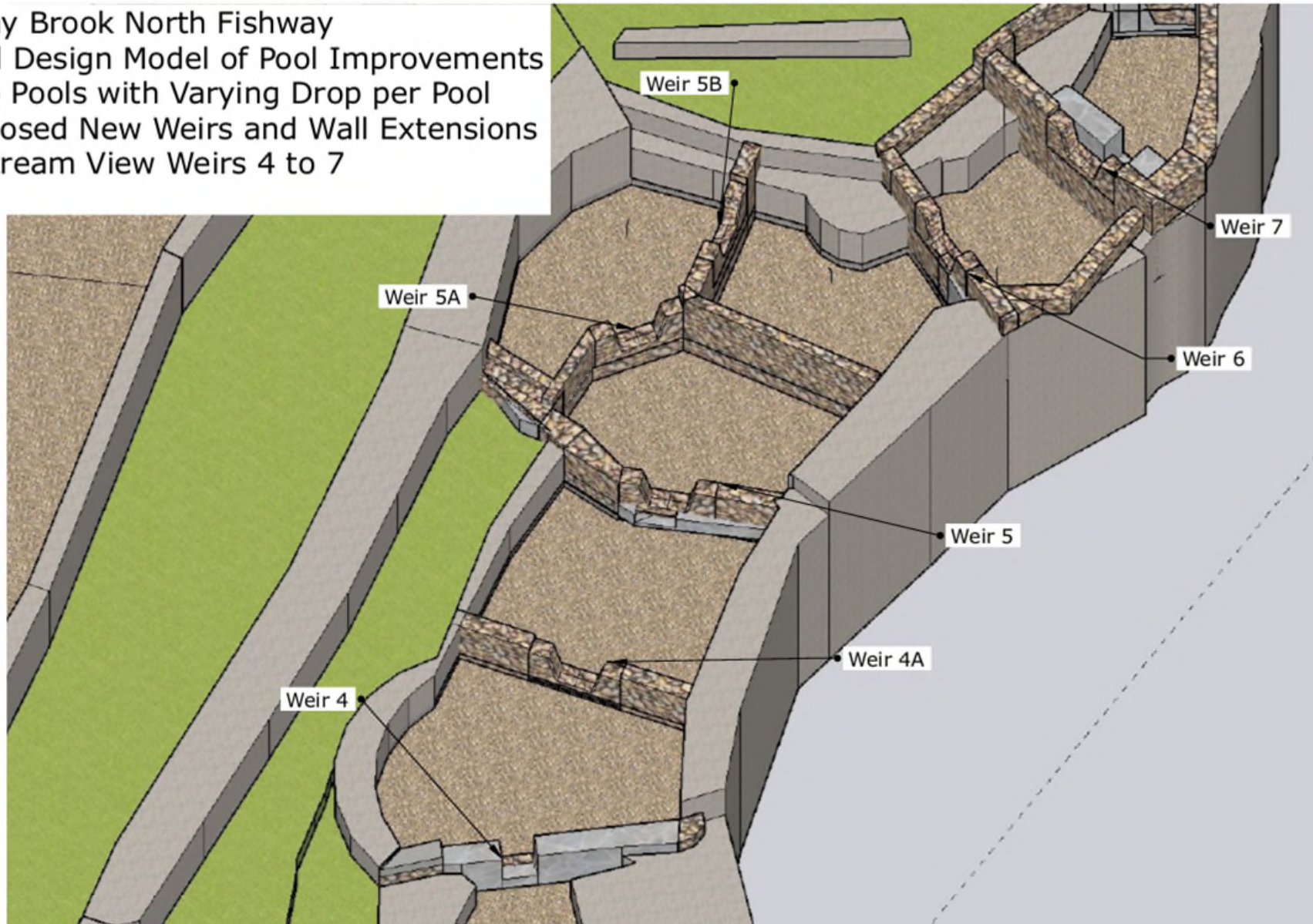


Stony Brook North Fishway
Final Design Model of Pool Improvements
Step Pools with varying Drop per Pool
Proposed New Weirs and Wall Extensions
Upstream View Weirs 5 to 10

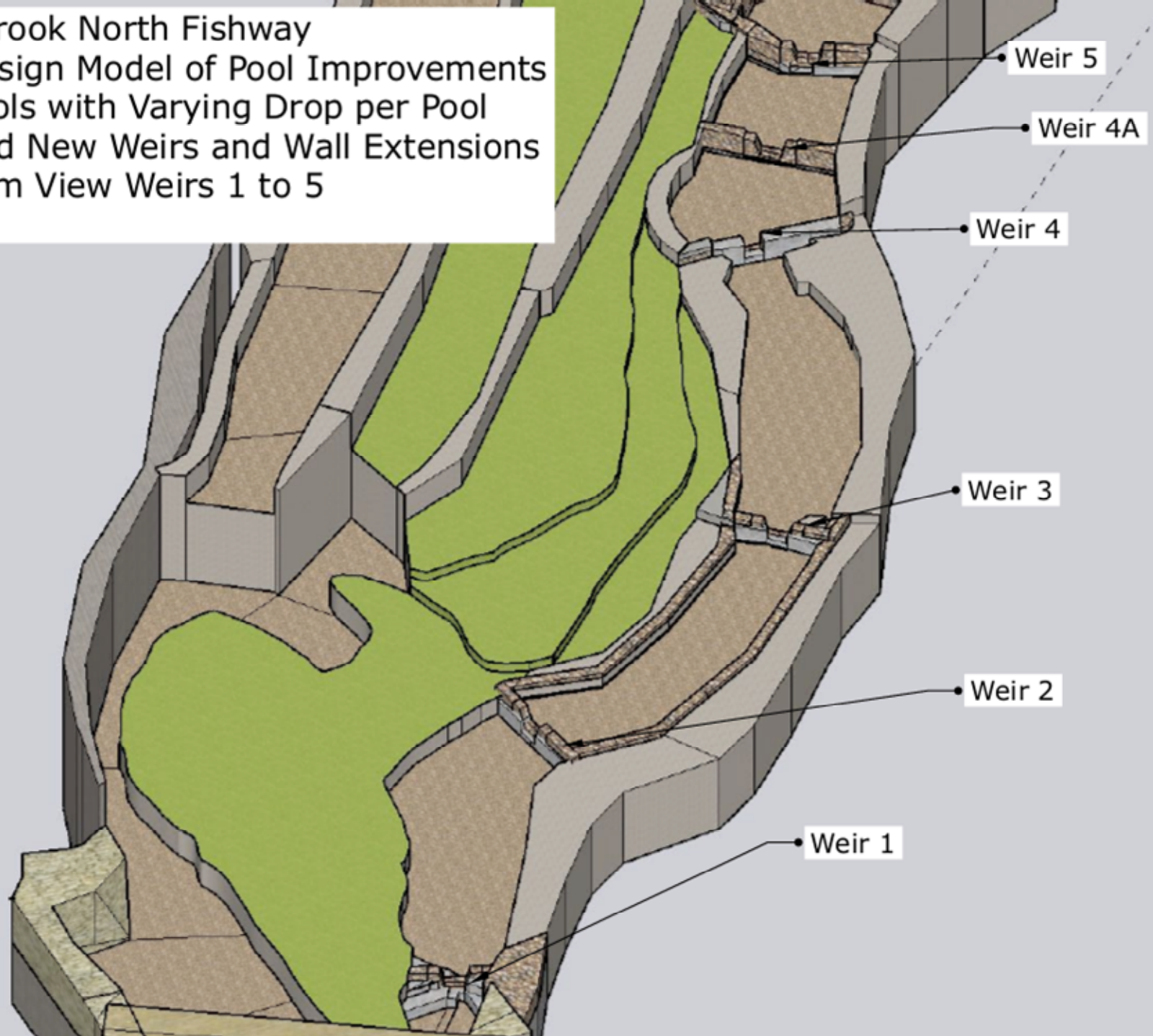




Stony Brook North Fishway
Final Design Model of Pool Improvements
Step Pools with Varying Drop per Pool
Proposed New Weirs and Wall Extensions
Upstream View Weirs 4 to 7



Stony Brook North Fishway
Final Design Model of Pool Improvements
Step Pools with Varying Drop per Pool
Proposed New Weirs and Wall Extensions
Upstream View Weirs 1 to 5



Weir 5

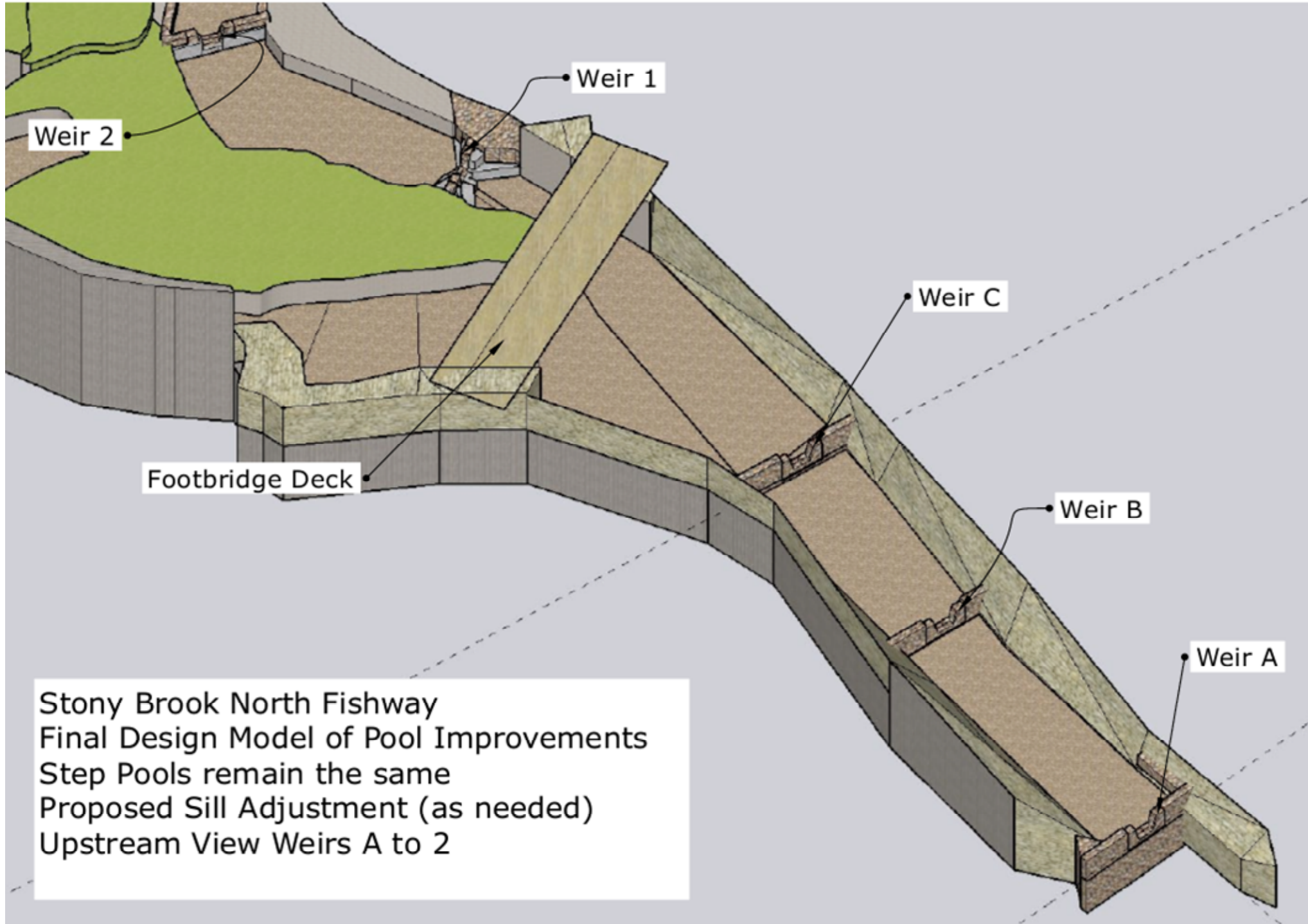
Weir 4A

Weir 4

Weir 3

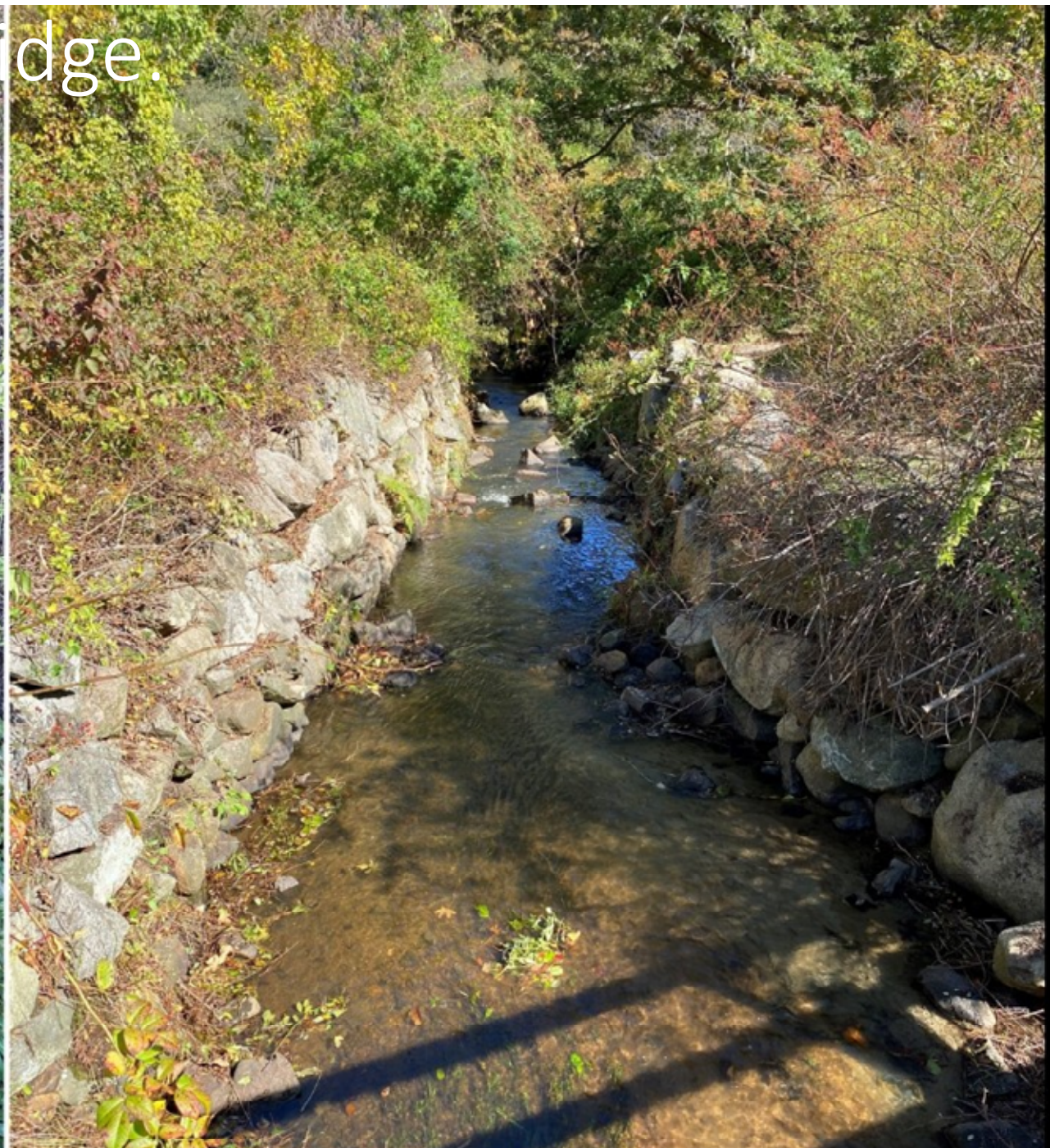
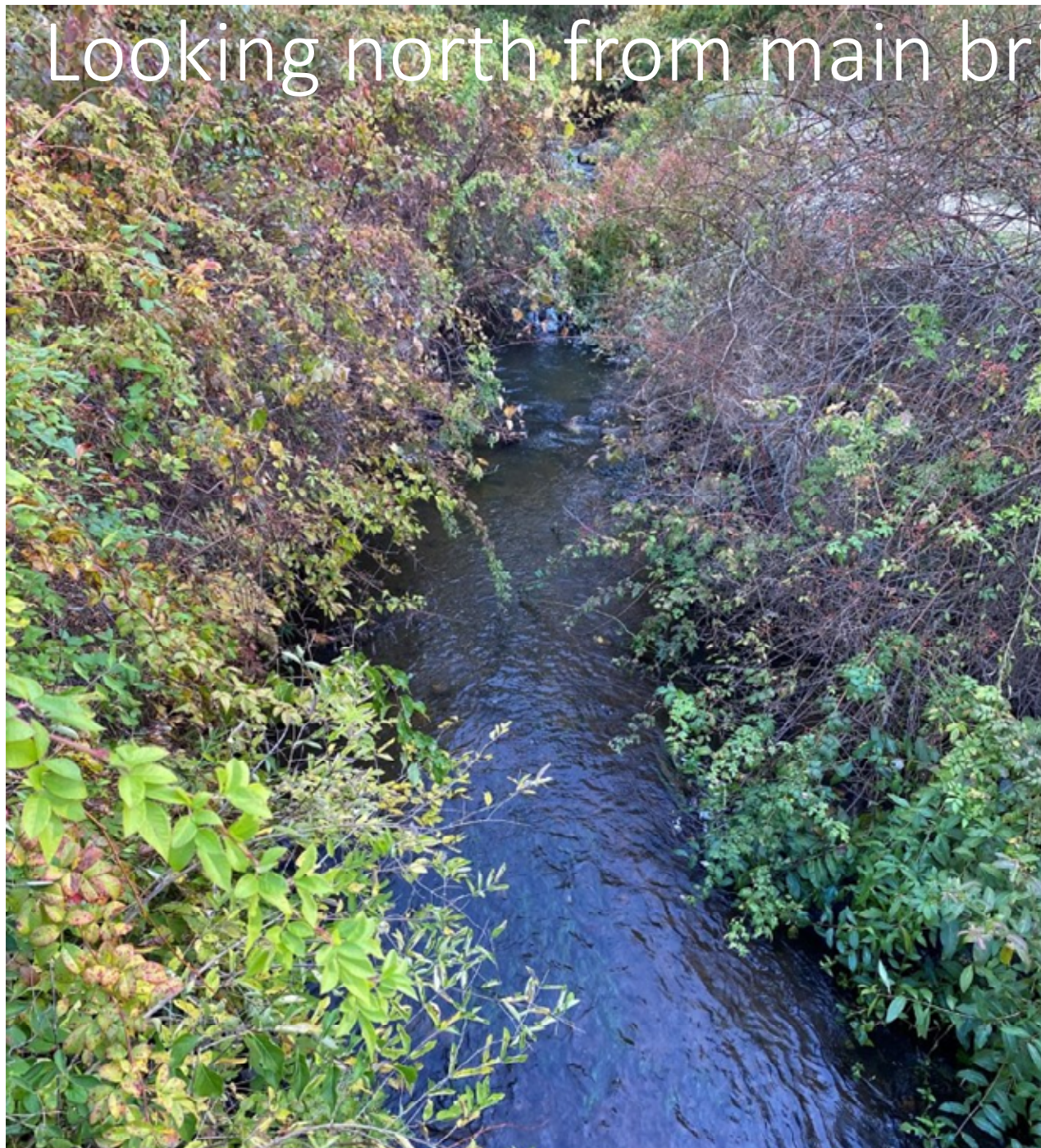
Weir 2

Weir 1



Stony Brook North Fishway
Final Design Model of Pool Improvements
Step Pools remain the same
Proposed Sill Adjustment (as needed)
Upstream View Weirs A to 2

Looking north from main bridge.







Budget

- Design services were funded by a grant from the Cape Cod Conservation District (\$50,000 towards fish passage north of the road, \$60,700 for design of the retaining wall work south of the road).
- Construction estimates are \$502,000 for the work on the retaining walls south of the road. The restoration/redesign of the fish passage north of the road is \$320,000. Bidding and engineering construction phase services are \$95,000, bringing the total to \$917,000 for construction. Final costs are subject to permit changes and public bidding.
- 75% of construction costs are provided by a grant from the NRCS Natural Resource Conservation Service, a part of the US Department of Agriculture (\$876,000).
- NRCS is also providing technical assistance funding during construction at \$116,000.
- Our local contributions include \$41,000 in permitting for the two phases of the project, approved last fall.
- **Brewster is responsible for a 25% match to the final construction cost.**
- We have a CPC grant for \$125,000
- **We are asking May Annual Town Meeting for \$200,000 for the rest of the local match.**

Thanks to project partners:

- Town Staff
- Brewster Millsites Committee
- Brewster Alewife Committee
- Brewster Community Preservation Committee
- Citizens

