

The Boardman: A River Reborn

Removing Dams for a Free Flowing River



Brown Bridge Update

- Dam removal & associated restoration completed at \$5,728,547
- Instream wood habitat installation fall 2016 supported by GTB & NRCS
- Upper impoundment channel work late summer 2016
- Plantings – Grand Traverse Conservation District hosting work bee
Saturday, April 30



Cass Road Bridge

- Construction underway via contracts between MDOT & Davis Construction, and GTCRC & Northwest Designs Group
- Target date of September 1, 2016 for opening road with full completion by December 1, 2016
- \$2,872,000 construction cost + CE/staking
- GTCRC doing Keystone intersection improvements summer 2016



Boardman Dam Removal

- Design 100% complete
- MDEQ reviewing Joint Permit Application
- MDNR Natural Rivers permit application under review
- USACE/EPA providing \$8M for construction
- IT grants funding design/bid documents
- USACE bidding out project summer 2016
- Target start date by/in spring 2017



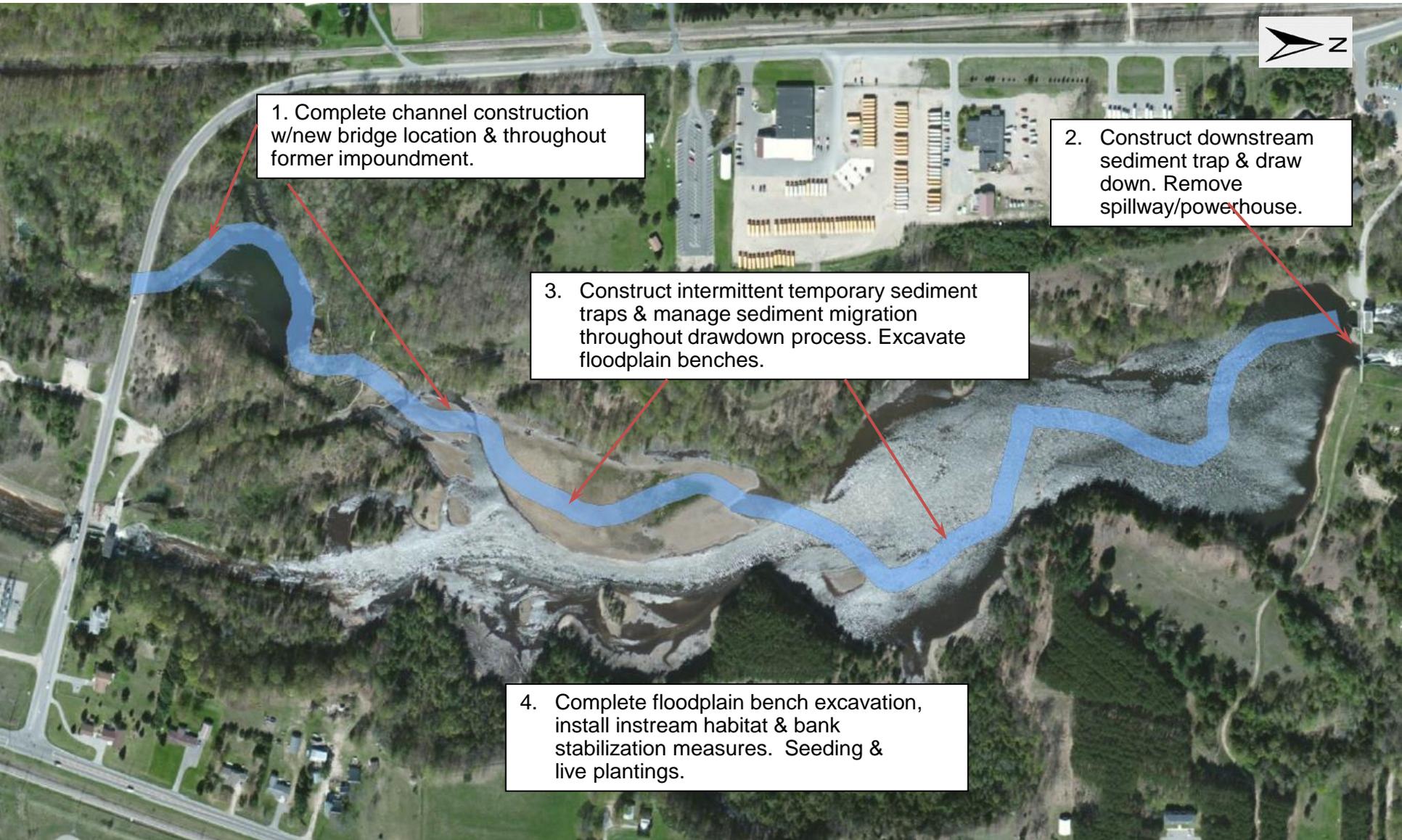


Sabin Dam Removal

- Design is approaching 30% completion
- Remaining field investigation, design & permit applications will be funded under IT grants in 2016 when work authorization #6 approved
- Permits & bidding process 2017
- Target construction timeline 2018



Sabin Dam Removal Construction Sequence – Target 2018



1. Complete channel construction w/new bridge location & throughout former impoundment.

2. Construct downstream sediment trap & draw down. Remove spillway/powerhouse.

3. Construct intermittent temporary sediment traps & manage sediment migration throughout drawdown process. Excavate floodplain benches.

4. Complete floodplain bench excavation, install instream habitat & bank stabilization measures. Seeding & live plantings.

Union Street Dam

- Conceptual design only to date
- Final design TBD
- All required permits TBD
- Construction contract award TBD
- Estimated Cost to Complete: \$1.5M (cost-shared)
 - ▶ Federal Share (65%): \$975K
 - ▶ Non-Federal Share (35%): \$525K



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USACE Cost Sharing Summary

	<u>Est. Total</u>	<u>Federal</u>	<u>Non-Federal</u>
Boardman Dam^a	\$ 8,000,000	\$ 8,000,000	\$ 0
Sabin Dam^b	\$ 2,700,000	\$ 1,755,000	\$ 945,000
Union St. Dam^b	\$ 1,500,000 ^c	\$ 975,000	\$ 525,000
Current Investment^d	<u>\$ 2,000,000</u>	<u>\$ 1,300,000</u>	<u>\$ 700,000</u>
TOTAL	\$ 14,200,000	\$ 12,030,000	\$ 2,170,000^e

^a Per USACE/EPA interagency agreement

^b Per USACE/Owner project partnership agreement

^c Per alternative in USACE Dec 2014 Feasibility Report

^d 2005-2015 USACE costs for Feasibility Study, NEPA, etc.

^e May be further reduced via in-kind crediting, etc.



U.S. ARMY



Note: All costs are estimated and are subject to change

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Next Steps – with USACE

- Owners provide letter of intent to complete project - DONE
- USACE/EPA execute Interagency Agreement(s) which will provide Federal GLRI funds to remove Boardman Dam – 1st for design is DONE, 2nd for construction is underway
- USACE/Owners execute local agreement to provide real estate, long-term O&M, etc. for Boardman Dam
- USACE/Owners execute Project Partnership Agreement for Sabin/Union Street Dam components of the project



Working Groups

- Fish Passage Team exploring options for facilitating public discussion on issue of fish passage in Boardman River
- Monitoring Team expanded scope from aquatic insects, plus amphibians & reptiles at Boardman/Sabin; developing plan for JPA
- Communications Team outreach plan & related materials underway
- Rotary leading private philanthropy to assist with local match requirement

