

CONSTRUCTION OBSERVATION REPORT

Date: November 30, 2021	Time On Site: 8:30 AM	Time Off Site: 11:00 AM
Project: Middlebury River Flood Resiliency Project (15032.00002)		
Observed By: Brian Cote and Roy Schiff		
Weather: Cloudy, 25°F, normal flows		

Equipment / Operator

- CAT 325CL Excavator – Markowski Excavation, Inc. (Grist Mill Road floodwall)
- CAT CS-323C Compactor – Markowski Excavation, Inc. (Grist Mill Road floodwall)
- CAT Skid Steer – Markowski Excavation, Inc. (Grist Mill Road floodwall)
- CAT EW170 Wheeled Excavator - Markowski Excavation, Inc. (Upstream site)

Personnel

- Tom and Mike Markowski, Markowski Excavation, Inc.

Construction Activity

- Review grading plan for flood wall area with landowner.
- Perform finish grading around flood wall area.

Design/Construction Notes

- Flood Wall Area
 - Completed removal of construction access road to river. Dimensions of stone fill match plans. All river work complete.
 - Steeper and shorter earth slope requested behind new flood wall by landowner to be planted with native wildflower and annual rye seed, and covered with mulch. This area will not be mowed. Birch saplings to be installed near toe of slope in spring 2022.
 - Place cobble on stone at downstream section of wall to replicate previous cobble. Blend into earthen fill behind wall.
 - Created flatter opening with stone and gravel for river access and viewing. Area will be covered with topsoil and seeded.
 - Driveway to be final repaired in spring 2022 by removing gravel, installing surpak, and seeding edge. For winter stabilization grade to remove tire ruts to avoid icing.
 - Additional tasks to be completed
 - Seed and mulch behind existing flood wall where repairs took place.
 - Complete finish grading and topsoil installation.
 - Complete wildflower seeding with rye, and mulching.
 - Complete repair of existing flood wall. One small section remains.
 - Complete filling holes in concrete from forms. Lower holes are already filled.
 - Plant large trees and bare root trees in Spring 2022.
 - Move transplanted shrubs in spring 2022.
- Upstream Site (Toby and Ranita's)

- Live stakes installed on riprap slope. These need to be driven in further (>1/2 length minimum) to promote future growth. OK to move stake a bit to find planting crevice. OK to hammer in stakes with mallet. Pry bar likely needed to poke around. **This update is needed for all live stake plantings.**
- Gravel access drive properly removed. Landowner pleased with work.
- Additional tasks to be completed.
 - Seed and mulch.
 - Plant bare root trees on flatter area along flood chute.
- Goodro's Site
 - Larger trees properly planted.
 - Additional tasks to be completed.
 - Update live stakes per above note.
 - Plant bare root trees on flatter floodplain area and in pockets at base of berm.
- Eric Murray's Site
 - Larger trees properly planted.
 - Additional tasks to be completed.
 - Update live stakes per above note.
 - Plant bare root trees on flatter floodplain area and in pockets at base of berm.

Compliance Notes

- All river work completed.
- Time extension to December 1 has been approved by project regulators to allow for the access road to remain in place along the existing and proposed flood wall.

Schedule

- Final grading at access wall to be completed this week.
- Winter shutdown likely to take place next week.

Photographs



Figure 1: Final river setting with removed construction access road and replaced stone along flood wall.



Figure 2: Installed topsoil following gravel access road removal at upstream site awaiting seed and mulch.



Figure 3: Installed dormant stake plantings at the upstream site along the armored slope. Note that these need to be driven in further.



Figure 4: Planted larger trees (background) and dormant stakes (foreground) at the Goodro Lumber site.



Figure 5: Installed large trees at the Murray site.



Figure 6: Installed dormant stakes at the Murray site.



Figure 7: Placing stone fill and gravel at the flood wall opening to create elevated access and river viewing area. This approach allows future river access by the Town, while also meeting desires of landowners.