

CONSTRUCTION OBSERVATION REPORT

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| Date: August 11, 2021 | Time On Site: 9:45 AM | Time Off Site: 2:00 PM |
| Project: Middlebury River Flood Resiliency Project (15032.00002) | | |
| Observed By: Brian Cote, accompanied by Kishor Patel | | |
| Weather: Partly Cloudy, $\pm 80^{\circ}\text{F}$, flows above normal, rain over night | | |

Equipment / Operator

- CAT 325CL Excavator – Markowski Excavation, Inc. (staged at Murray parcel)
- CAT 336EL Excavator – Markowski Excavation, Inc. (Goodro Lumber)
- CAT D350E Off-Road Haul Unit – Markowski Excavation, Inc. (Goodro Lumber)
- CAT 980C Front-end Loader – Markowski Excavation, Inc. (Goodro Lumber)
- On-Road Dump Trucks – Markowski Excavation, Inc. / Belden
- DEERE 245G LC with Drill Rig – Helical Drilling, Inc. (Grist Mill Road floodwall)
- LULL Forklift - Helical Drilling, Inc. (Grist Mill Road floodwall)

Personnel

- Tyler Truman (Site Superintendent / Operator) – Markowski Excavation, Inc.
- Dana Truman (Operator) – Markowski Excavation, Inc.
- Front-End Loader Operator – Markowski Excavation, Inc.
- Haul Unit Operator – Markowski Excavation, Inc.
- Ground Anchor Installation Crew (3 person) – Helical Drilling, Inc.

Construction Activity

- Excavating sediment from the gravel bar (Sediment Bar D & Bar E) near Goodro Lumber. Removing stockpiled sediment and transporting to disposal site in Brandon.
- Mobilizing ground anchor installation rig and materials to the Grist Mill Road floodwall.

Design/Construction Notes

- Met with Tim Parent (Parent Construction), Tyler Truman (Markowski), and Kishor Patel (SLR) to discuss the concrete work and sheeting installation along the Grist Mill Road floodwall.
- An approach to remedy the surface stability of the existing floodwall was discussed, SLR will create a sketch to address the top of wall where excessive spalling has occurred.
- The existing wall will be pressure washed and loose concrete removed. The portion of the wall that will remain exposed after construction will be coated with a skim coat repair mortar.
- Parent Construction will provide a cost to perform the surface stability work for the Town to consider.
- Also discussed the installation of the steel sheeting, flowable fill concrete, and planned work sequence.
- Sheeting install at the upstream end require extra caution as the existing floodwall, where it meets the bridge wingwall, is shallow and poured directly onto large boulders. If the boulders are disturbed, the wall could be undermined. Sheeting may need to be adjusted to protect this short, approximately 10-foot section of the existing wall. SLR will work with Markowski and Parent as needed.
- Note that Parent Construction was the primary contractor on the Grist Mill Road bridge construction.

- Sediment removal at Bar D underway near Goodro Lumber. Sediment loaded into the haul unit, transported across the river at a water crossing / ford, then stockpiled on the berm. Front-end loader then used to load sediment into on-road dump trucks for transport to the Brandon disposal site.
- While on site, the haul unit hit a spot of soft material under the river gravel causing discharge of turbid water. The contractor was immediately asked to stop crossing and to move the crossing away from the problem spot. After moving, discharges were minimal once again.
- Work installing stone armoring along the Ossie Road berm near the Murray parcel is complete. Topsoil and grubblings have been placed over the top of the armored slope. Seed has been spread and the site is awaiting mulch. Rutting remains on top of the berm at the downstream most end of the work area and will need to be smoothed.

Compliance Notes

- Project limit tape properly installed.
- Traffic control signs properly posted.
- No tracking onto roadway surface observed while on site.

Schedule

- Continue sediment removal from gravel bars and flood chutes at the Goodro Lumber work site.
- Continue installation of ground anchors at the existing floodwall through the week of August 9th. Installation may extend into the week of August 16th.
- Installation of sheet piling at the existing floodwall tentatively scheduled for the week of August 16th.
- ***Reminder that the next Project Team meeting is scheduled for August 17th at 1:00PM, meeting will begin at the Congregational Church parking lot.***

Photographs



Figure 1: Sediment removal from Sediment Bar D, discharge of turbidity due to soft spot at water crossing visible in photo. Water crossing adjusted to avoid soft spot and minimize discharges.



Figure 2: View of armored Ossie Road berm at the Murray parcel, topsoil and grubbings placed over the stone armoring, site awaiting mulch, live stakes to be planted at a later date.



Figure 3: Gravel bar after sediment removal at the Ossie Road berm work site near the Murray parcel.



Figure 4: Ground anchor rods and PVC piping staged at the Grist Mill Road floodwall awaiting installation.