

# CONSTRUCTION OBSERVATION REPORT

<b>Date:</b> August 17, 2021	<b>Time On Site:</b> 10:15 AM	<b>Time Off Site:</b> 2:45 PM
<b>Project:</b> Middlebury River Flood Resiliency Project (15032.00002)		
<b>Observed By:</b> Brian Cote		
<b>Weather:</b> Cloudy with periodic rain, $\pm 75^{\circ}\text{F}$ , flows above average		

## 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 (2) – Markowski Excavation, Inc. (Goodro Lumber)
- CAT 980C Front-end Loader – Markowski Excavation, Inc. (Goodro Lumber)
- On-Road Dump Trucks – Markowski Excavation, Inc. / K. Pope
- CAT 259D Skid Steer – Markowski Excavation, Inc. (staged at Goodro Lumber)
- DEERE 245G LC with Drill Rig – Helical Drilling, Inc. (Grist Mill Road floodwall)
- LULL Forklift - Helical Drilling, Inc. (Grist Mill Road floodwall)
- Genie S-60 Lift - Helical Drilling, Inc. (Grist Mill Road floodwall)

## Personnel

- Tyler Truman (Site Superintendent / Operator) – Markowski Excavation, Inc.
- Dana Truman (Operator) – Markowski Excavation, Inc.
- Haul Unit Operators (2) – Markowski Excavation, Inc.
- Front-end Loader Operator – Markowski Excavation, Inc.
- Ground Anchor Installation Crew (4 person) – Helical Drilling, Inc.

## Construction Activity

- Excavating cobble and gravel material from Sediment Bar F and Flood Chute 3B near Goodro Lumber. Material loaded into haul units and transported to stockpile on the berm at Goodro Lumber.
- Stockpiled sediment loaded into on-road dump trucks and transported to disposal site in Brandon.
- Ground anchor installation underway at the Grist Mill Road floodwall.
- No activity underway at the Ossie Road Berm work site near Murray parcel while on site.
- Monthly Project Update Meeting held while on site.

## Meeting Attendees

- Dan Werner – Town of Middlebury
- Amy Sheldon – Landslide Natural Resource Planning
- Angela Repella – Army Corps of Engineers
- Tyler Truman – Markowski Excavation, Inc.
- Tom Markowski – Markowski Excavation, Inc.
- Brian Cote – SLR Consulting, Inc.

### Project Team Meeting Notes

- Tyler of Markowski Excavation, Inc. provided a summary of work progress to date.
- Toured the Ossie Road Berm work site near the Murray parcel. Work removing material from the gravel bars and flood chutes is complete. Stone armor installation is complete. Seed and mulch has been spread over disturbed areas.
- Toured the active work site at Goodro Lumber, work continues removing sediment from the gravel bars and flood chutes, once complete work will continue with stone armor installation along the berm.
- Toured the Grist Mill Road work site. Ground anchor installation underway. Reviewed the two maple trees with Angela Repella with the Army Corps of Engineers for evidence of potential bat habitat. Additional review will be required, SLR will continue discussion with bat biologists.
- The third payment application was reviewed with Markowski, the Town, and SLR. Markowski to provide an updated payment application for review so that the final can be provided to the Town prior to the Thursday (08/19) deadline to make it before the Selectboard meeting on Tuesday (08/24).
- *The next project meeting is scheduled for September 21<sup>st</sup>, beginning at 1:00PM at the Congregational Church parking.*

### Design/Construction Notes

- Disturbed areas at the Ossie Road Berm near the Murray parcel have been seeded and mulched. The portion of the berm that had been rutted has been smoothed, reseeded, and mulched. Live stakes along the armored berm near the river will be planted later this fall.
- Reviewed the sediment removal at Bar F with the Contractor, discussed the removal work that remains and limits of removal. Also reviewed layout and extent of sediment removal to open Chute 3A.
- Water crossings continue to work well to minimize discharge of turbidity to the extent practicable. Contractor is monitoring the crossings and making adjustments or repairs as needed so that crossings continue to limit discharge.
- Ground anchor installation continues, Contractor was working on 11<sup>th</sup> anchor installation out of 18 total prior to leaving the site.
- On Friday August 13<sup>th</sup>, the rig installing the ground anchors had an equipment failure and had to be repaired. As a result, one of the anchors fell into the hole they were work on (5<sup>th</sup> hole from the downstream end of the existing wall). SLR Engineers are working with the Contractor to determine if there is a solution that will maintain the designed stability, however there is a chance that a new hole will need to be cored through the wall and a ground anchor installed.

### Compliance Notes

- Project limit tape properly installed.
- Traffic control signs properly posted.
- Limited discharge of turbid water observed while on site.
- No tracking onto roadway surface observed while on site.
- Spill kits are staged at the Goodro Lumber and Grist Mill Road work sites.

### Schedule

- Continue removing sediment from the Goodro Lumber work site, tentative completion of sediment removal anticipated by August 19<sup>th</sup>.
- Installation of stone armoring along the berm at the Goodro Lumber work site scheduled to begin the week of August 23<sup>rd</sup>.
- Continue installation of ground anchors, tentative completion anticipated by August 20<sup>th</sup>.
- Installation of steel sheeting scheduled to begin during the week of August 23<sup>rd</sup>.

### Photographs



**Figure 1: Gravel removal underway at Sediment Bar F.**





**Figure 2: View of completed Flood Chute 3B and portion of Sediment Bar F.**



**Figure 3: View of water crossing at the Goodro Lumber work site, two haul units transporting excavated sediment so that excavation work can be completed as soon as possible, and river crossings restored.**





***Figure 4: ground anchor installation underway at the Grist Mill Road Floodwall.***



***Figure 5: Work area at the Ossie Road Berm near the Murray parcel has been seeded and mulched.***