

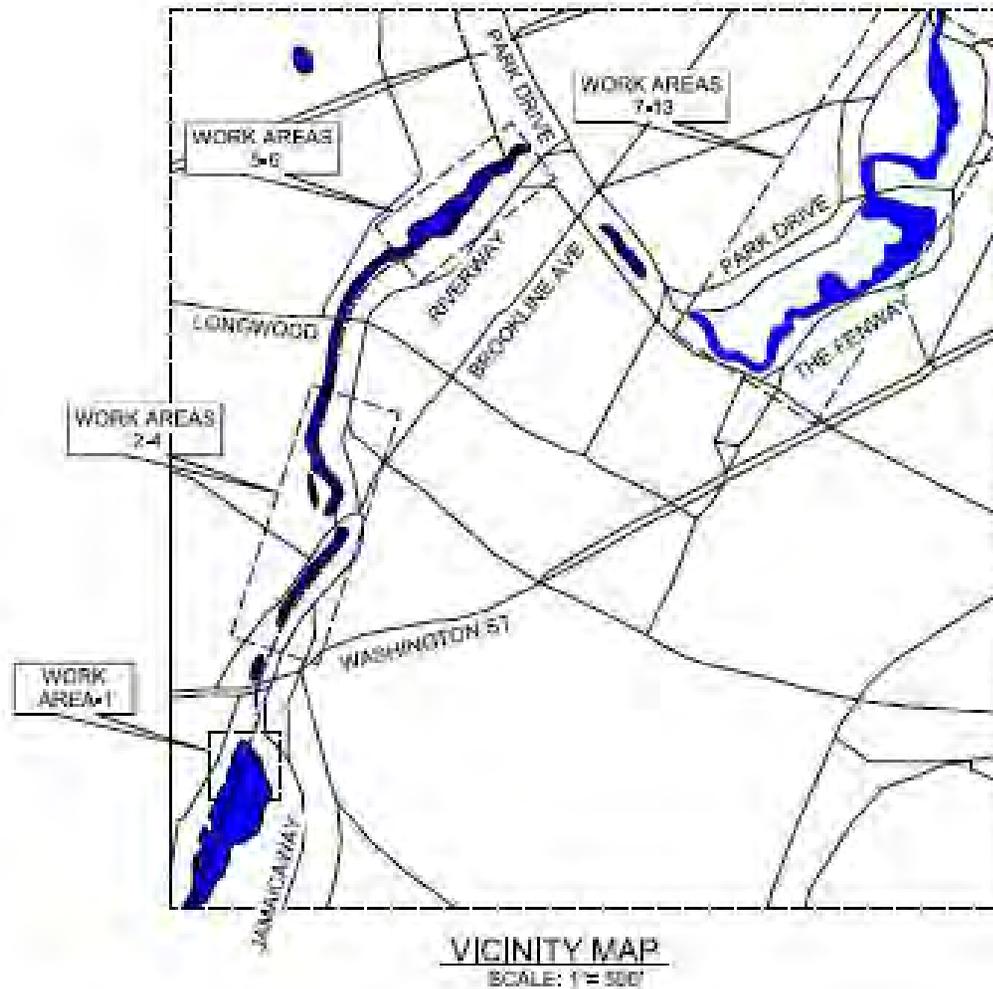
Muddy River Flood Damage Reduction Project
Phase 2 Construction Activities Next 90 Days
June 2021

General: The Muddy River Flood Damage Reduction Phase 2 Construction Project is located in the footprint generally between Leverett Pond to Boylston Street in Boston and Brookline. The major project components involve dredging 1 to 8' of sediment for flow conveyance in the Back Bay Fens and the Riverway sections of the Muddy River. It also includes excavation of the sandbar and island at Leverett Pond. Work also includes the removal of *phragmites* from the wetland and riparian areas which affect flow conveyance. After removal of river sediments and *phragmites*, preservation and restoration of the historic park shoreline in construction areas will consist of planting emergent wetland plants and restoring riparian vegetation in upland areas by planting trees and shrubs. This Notice is intended to identify the general construction activities that will be performed in the next 90 days. A figure that shows a typical flood control channel and the proposed improvements is at the end of this report.

June 2021 through August 2021 Period:

- Since the award of the construction contract and issuance of the Notice to Proceed over a year ago, the contractor has been actively dredging the sediment from the river and properly disposing of the material at disposal facilities. Utilization of two crews working in different work areas has maximized productivity of dredged sediments.
- Dredging of the Muddy River is divided into 12 work areas as shown in the Vicinity Map, with 6 work areas upstream of the Riverway and 6 work areas downstream of Avenue Louis Pasteur. The contractor just completed dredging in Work Area #4 and Work Area #9.
- **Work Area #2** – section of river at Brookline Avenue and the Riverway – near Beth Israel Deaconess Hospital – the contractor completed dredging this section mid-February 2021. Surveying was done in February to confirm new flood risk management cross sections. Since that time, some materials and equipment in this area have been relocated to other active work areas. Planting and restoration have been deferred to September to coincide with the Fall planting window. This will allow review of as-dredged conditions to ensure the designed plant material will be planted in its optimal location for success as well as source the best topsoil for the project. Maintenance of the planting will begin immediately during the two-year plant guarantee period.
- **Work Area #3** – section of river at Brookline Avenue, the Riverway, and Netherlands Road – near Beth Israel Deaconess Hospital – the contractor completed dredging this section late-March 2021. Surveying was done in May to confirm new flood risk management cross sections. Since that time, materials and equipment in this area have been relocated to other active work areas. Planting and restoration have been deferred to September to coincide with the Fall planting window. This will allow review of as-dredged conditions to ensure the designed plant material will be planted in its optimal location for success as well as source the best topsoil for the project. Maintenance of the planting will begin immediately during the two-year plant guarantee period.
- **Work Area #4** – section of river immediately downstream of Work Area #3, across Netherlands Road – the contractor completed dredging this section early April 2021. Surveying was done late May to confirm new flood risk management cross sections. Since that time, materials and equipment in this area have been relocated to other active work areas. Planting and restoration have been deferred to September to coincide with the Fall planting window. This will allow review of as-dredged conditions to ensure the designed plant material will be planted in its optimal location for success as well as source the best topsoil for the project. Maintenance of the planting will begin immediately during the two-year plant guarantee period.
- **Work Area #1** – Leverett Pond – Additional sampling has been completed and resultant test results have been reviewed. A revised dredge footprint was engineered to address the recent information received. The contractor began dredging in Work Area #1 early May and will be complete with dredging late June. Materials and equipment will be relocated to active work areas later this month or early July. Planting and restoration of Work Area #1 will occur in September to coincide with the Fall planting window.

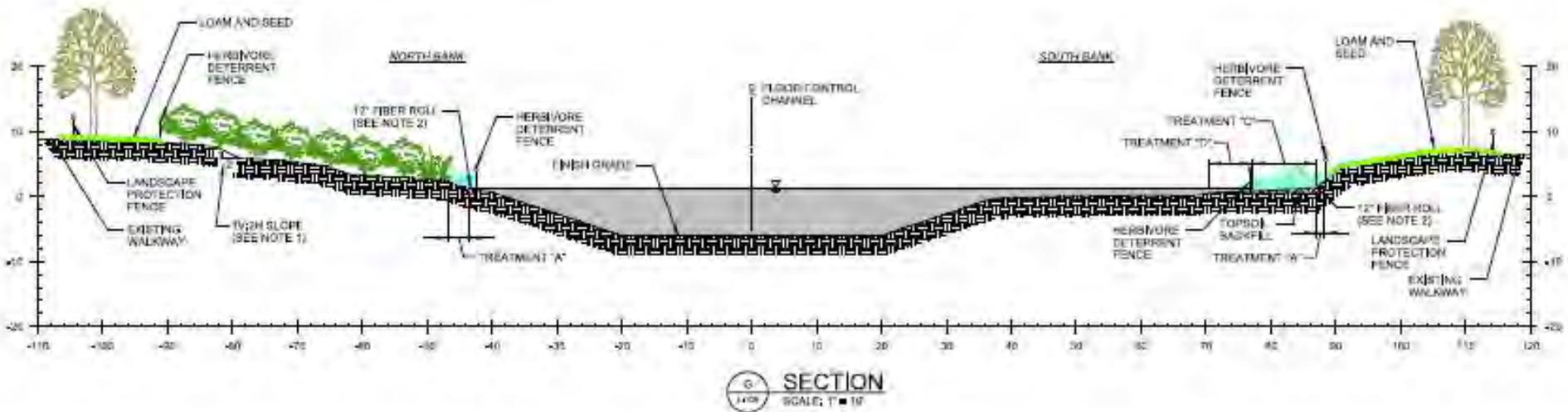
- **Work Area #7** – section of river immediately downstream of Avenue Louis Pasteur – the contractor completed dredging this section at the end of December 2020. Surveying was done in early January to confirm new flood risk management cross sections. Since that time, materials and equipment in this area have been relocated to other active work areas. Planting and restoration have been deferred to September to coincide with the Fall planting window. This will allow review of as-dredged conditions to ensure the designed plant material will be planted in its optimal location for success as well as source the best topsoil for the project. Maintenance of the planting will begin immediately during the two-year plant guarantee period.
- **Work Area #8** – section of river immediately downstream of Work Area #7 – the contractor completed dredging this section before the end of February 2021. Surveying was done in late February to confirm new flood risk management cross sections. Since that time, materials and equipment in this area have been relocated to other active work areas. Planting and restoration have been deferred to September to coincide with the Fall planting window. This will allow review of as-dredged conditions to ensure the designed plant material will be planted in its optimal location for success as well as source the best topsoil for the project. Maintenance of the planting will begin immediately during the two-year plant guarantee period.
- **Work Area #9** – section of river immediately downstream of Work Area #8 – the contractor completed dredging this section mid-April 2021. Surveying will be done shortly to confirm new flood risk management cross sections. Since that time, materials and equipment in this area have been relocated to Work Area #10 for dredging. Planting and restoration have been deferred to September to coincide with the Fall planting window. This will allow review of as-dredged conditions to ensure the designed plant material will be planted in its optimal location for success as well as source the best topsoil for the project. Maintenance of the planting will begin immediately during the two-year plant guarantee period.
- **Work Area #10** – section of river immediately downstream of Work Area #9 which ends at Agassiz Road – dredging began in late April 2021 and will continue for several months and work will continue into next year in this work area. Work Area #10 has the largest quantity of dredged sediment to be removed at about 35,000cy. Planting and restoration will begin once dredging is complete.
- **Work Area #13** – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – Construction of the new floodwall around the BFD building began with the demolition of the existing security fence and its footing in early May. That led to the excavation for the new wall subbase and foundation. As part of the foundation, helical piles began to be installed late May starting at the north section of the wall and was halted shortly after rounding the corner of the FD Building. This allowed for the excavation of the underground pump station which was set in place this week. Helical pile installation will resume next week and will be completed before the end of June. Formwork, rebar, and concrete placement will also begin late June for the foundation.
- **Work Areas #11 and #12** – Victory Gardens Area – Temporary construction fence installation at the Victory Gardens began mid-January to allow for the construction of processing bins of the Central Processing Facility on the left bank of Work Area #11, to supplement the already constructed bins on the right bank near the Duck House. This was required due to the increase of daily dredged material production, necessitating additional bins to store the dredged sediment while it is dewatered and stabilized before the processed sediment is loaded and transported to the final disposal facility. These work areas will continue to see periodic activity as dredged material storage is required. However, dredging in the section of the river in these areas will likely begin much later this year or early in 2022.
- At the end of this notice we have included some pictures that show the construction progress at Work Areas #1, #7, #10, and #13. We thought folks would be interested in seeing the work occurring behind the fence.
- If you any questions, require additional information or would like to be added to the Project Contact List, please email the project mailbox at MuddyRiver@usace.army.mil



EXTENTS OF PROJECT WORK AREA FOR PHASE 2 CONSTRUCTION



REPRESENTATIVE FIGURE OF FLOOD CONTROL CHANNEL AND PROPOSED IMPROVEMENTS





Work Area #1 – Leverett Pond – Silt curtain installed upstream of the dredged footprint.



Work Area #1 – Leverett Pond – Amphibious excavator dredging and loading off-road truck to transport sediment to temporary processing bin.



Work Area #7 – section of river immediately downstream of Avenue Louis Pasteur – herbivore deterrent fence installed on the water side of the expected plantings. Preparation work in anticipation of planting in the Fall planting window.



Work Area #10 – Amphibious excavator dredging section of river immediately downstream of Work Area #9 which ends at Agassiz Road.



Work Area #13 – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – completed demolition of the existing security fencing and its footing. Awaiting excavation for new floodwall subbase and foundation.



Work Area #13 – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – completed demolition of the existing security fencing and its footing. This section of excavation will be done with vacuum excavation to avoid damage to the existing tree.



Work Area #13 – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – excavation for the new underground pump station in front of the existing metal building.



Work Area #13 – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – excavation for the new underground pump station in front of the existing metal building and for the new floodwall foundation to the left of the metal building.



Work Area #13 – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – crane lifting new underground precast pump station and getting ready to place in hole – 9 June 2021.



Work Area #13 – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – new underground precast pump station placed in hole – 9 June 2021.



Work Area #13 – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – top slab of the new underground precast pump station placed on top of the precast box – 9 June 2021.



Work Area #13 – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – northern section of the new floodwall – excavated; subbase installed and compacted; awaiting helical piles.



Work Area #13 – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – helical piles on site.



Work Area #13 – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – mini-excavator installing helical piles.



Work Area #13 – Boston Fire Department Building in the vicinity of the Fenway and Agassiz Road – helical piles installed on the northern section of the new floodwall and rounding the corner of the FD building.