Muddy River Flood Risk Management & Environmental Restoration Project
Phase 1 Construction Activities Next 90 Days
November 2015

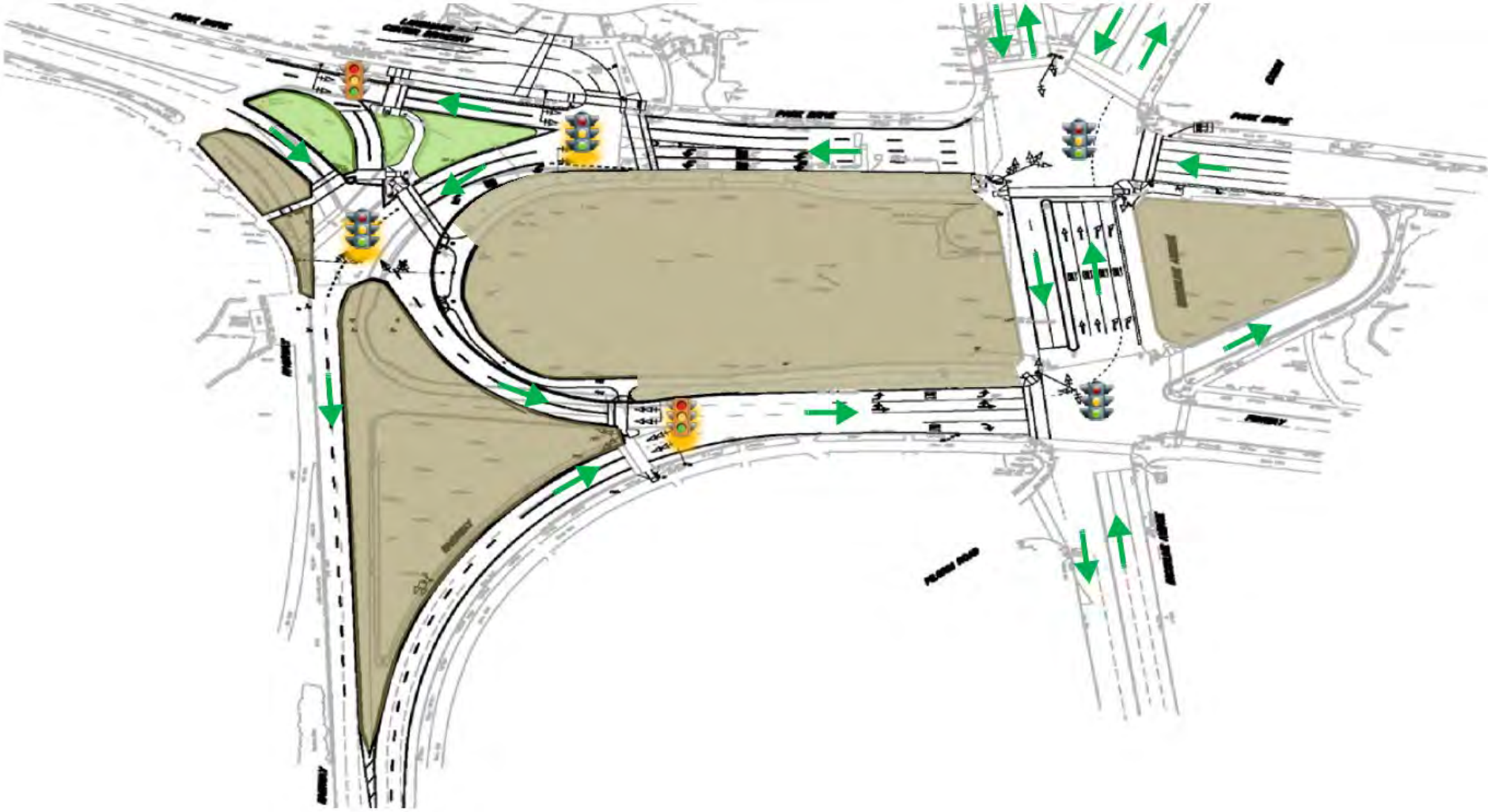
General: The Muddy River Flood Risk Management (FRM) & Environmental Restoration Phase 1 Construction Project is located in the footprint generally between the Riverway downstream to Avenue Louis Pasteur. The major project components involve the installation of a 10-foot by 24-foot box culvert under the Riverway roadway, the installation of 10-foot by 24-foot box culvert under the Brookline Avenue roadway, daylighting of the area between the Riverway and Brookline Avenue, and daylighting of the area between Brookline Avenue and Avenue Louis Pasteur. Daylighting is the removal of existing twin 72" culverts and excavation of the area to return the waterway to a natural state. This Notice is intended to identify the general construction activities that will be performed in the next 90 days. A figure that shows the existing conditions and the proposed improvements is at the end of this report.

November 2015 through January 2016 Period:

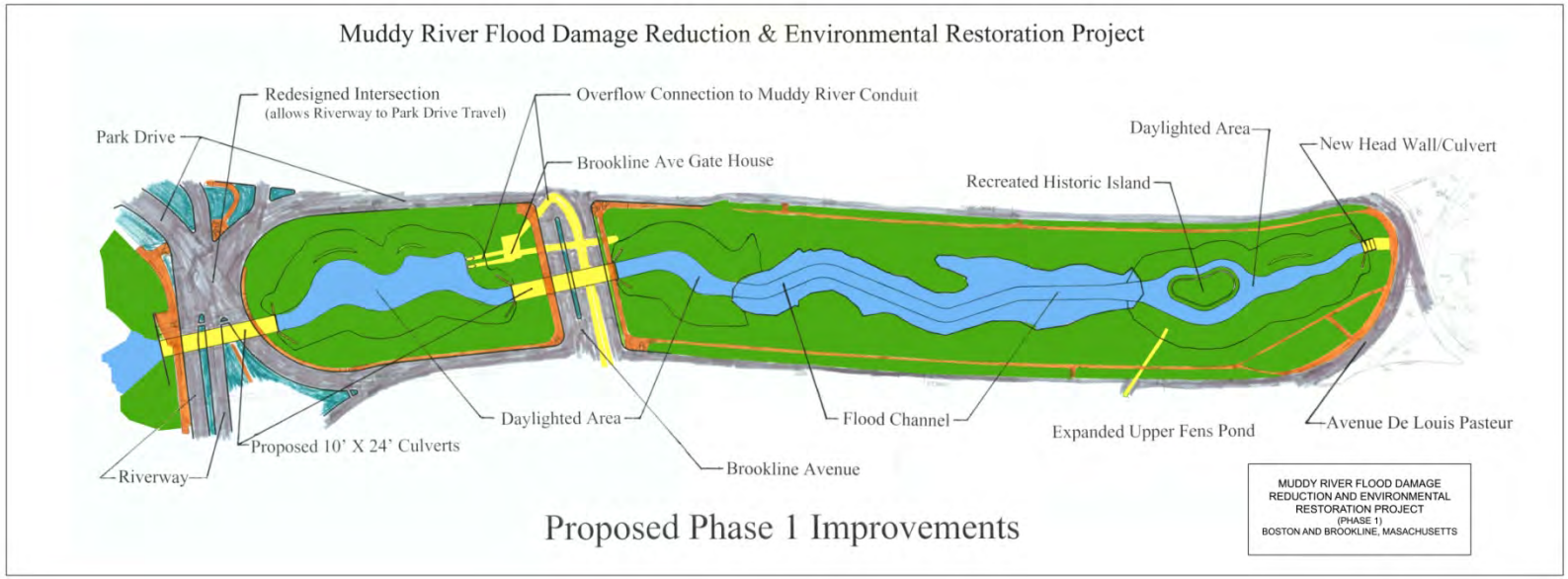
- In order to continue work on the project, a traffic shift will take place on 5 December in order to open the end state new left turn onto Park Drive from Riverway and open the end state crosswalks for pedestrian use. This shift will allow the permanent closure of the Jug Handle roadway and its sidewalk so that the Muddy River can be daylighted in this area, which continues the daylighted portion of the waterway at the former Sears Parking Lot, now connected by the new Brookline Avenue culvert; and will feed directly to the Upper Fens Pond as a natural waterway.
- The relocation of a portion of the existing 24” sewer line in the former Sears Parking Lot began mid October. Since that time, the southern portion of the new sewer line was installed from the existing manhole on Riverway Connector to a new manhole on the street and will continue into the former Sears Parking Lot. Over the next several weeks and to the end of the year, this southern portion of the new sewer line from the Riverway Connector will be advanced up to the river diversion sheeting; with the completion and connection to the existing system in early 2016, once the existing twin 72” culverts are abandoned.
- In the former Sears Parking Lot work area, with the permanent utilities relocated back in Brookline Avenue and energized, the temporary utilities have been disconnected, and the “daylighting” of the former Sears Parking Lot began in early October. Since that time, active excavation to construct the southside (right side, looking downstream) of the new river channel from the new Riverway Culvert to the new Brookline Avenue Culvert has begun to include grading of the new banks and installation of articulated concrete blocks (ACBs) at the downstream outlet of the new Riverway culvert. Excavation to construct the northside will take place in late January once the existing twin 72” culverts are abandoned and the river is flowing through the new culverts and the southside of the constructed river.
- In early December, the Jug Handle roadway will be removed permanently from service. Shortly after, river diversion sheeting will be installed and active excavation of the southside (right side, looking downstream) of the Jug Handle will take place. Excavation to construct the northside will take place in early February once the existing twin 72” culverts are abandoned and the river is flowing through the new culverts and the southside of the constructed river.
- Since the active diversion of the river began in mid-April, the removal of the sediment in the river bottom to construct the new flood risk management channel; and the bank restoration/stabilization on both sides of the channel with stone protection in the Upper Fens Pond has been completed. Geocells have been installed on the upland part of the channel and bank construction is complete. All plantings for the fall planting season have been installed. Remaining plantings will be planted in the next planting season, starting 1 May 2016.
- Upstream of Avenue Louis Pasteur (ALP), the precast culvert sections were installed on 15 October. Since that time, the concrete wingwalls were placed and backfill around the culvert sections was completed. Granite veneer on the wingwalls will be complete next week. Concurrent with these

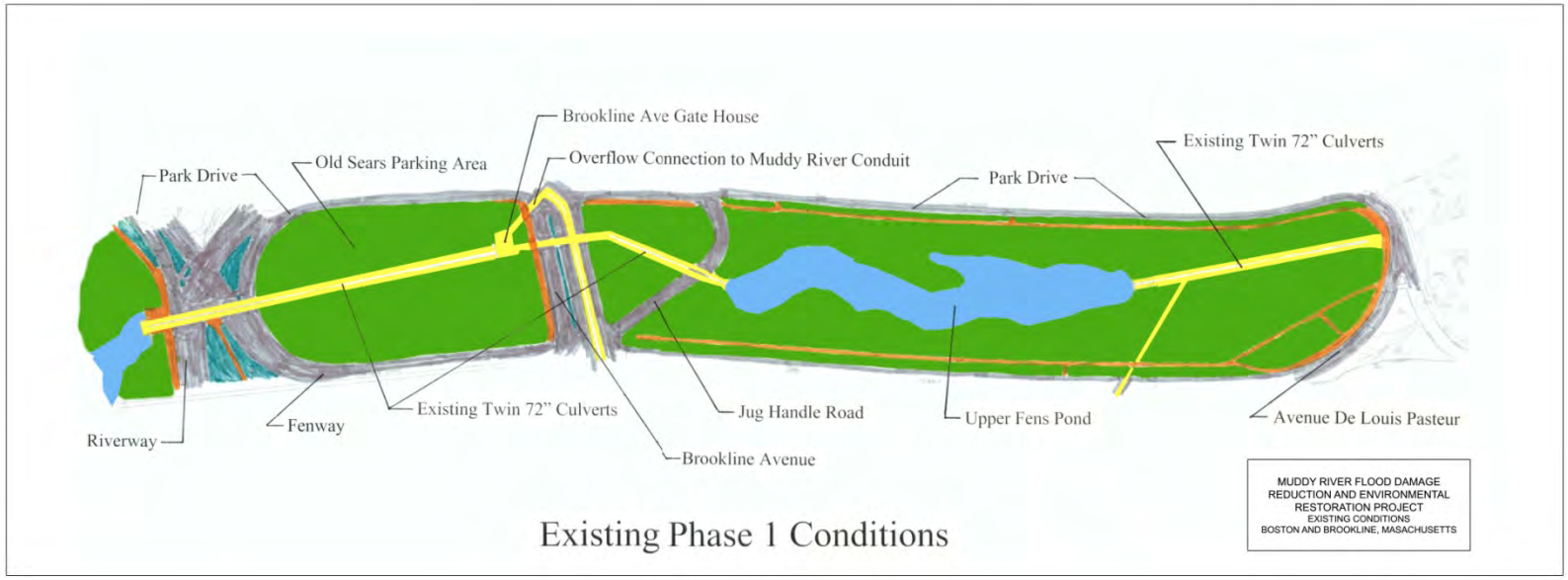
ALP activities this past month, the “daylighting” between the Upper Fens Pond and this extension piece of precast concrete culvert began and will continue until the end of the year. The existing twin 72” culverts were removed so that the flood risk management channel and the recreation of the historic Olmstead island can be constructed. In the next month, continued excavation and grading; articulated concrete blocks (ACBs) for scour protection upstream of ALP; and stone protection and geocells for bank stabilization will be done so that the river can flow through this area and the diversion pumps can be removed.

- Downstream of Avenue Louis Pasteur, the contractor has removed the sediment from the outlet and inside of the existing culvert to construct the new flood risk management channel. The articulated concrete blocks (ACB) for scour protection have been installed; and stone protection and geocells for bank stabilization at this downstream end of Phase 1 Construction is completed. All plantings for the fall planting season have been installed. Remaining plantings will be planted in the next planting season, starting 1 May 2016.
- At the end of this notice we have included some pictures that show the construction progress in the Riverway Culvert; the former Sears Parking Lot; the Upper Fens Pond; and Avenue Louis Pasteur work areas. We thought folks would be interested in seeing the work occurring behind the fence.
- If you have 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



TRAFFIC MANAGEMENT PLAN DURING THE CREATION OF NEW LEFT TURN ONTO PARK DRIVE FROM RIVERWAY


Muddy River Flood Damage Reduction & Environmental Restoration Project
Redesigned Intersection
(allows Riverway to Park Drive Travel)
Overflow Connection to Muddy River Conduit
Park Drive
Brookline Ave Gate House
Daylighted Area
New Head Wall/Culvert
Recreated Historic Island
Daylighted Area
Flood Channel
Avenue De Louis Pasteur
Expanded Upper Fens Pond
Proposed 10' X 24' Culverts
Riverway
Brookline Avenue
Proposed Phase 1 Improvements
MUDDY RIVER FLOOD DAMAGE
REDUCTION AND ENVIRONMENTAL
RESTORATION PROJECT
(PHASE 1)
BOSTON AND BROOKLINE, MASACHUSETTS


Brookline Ave Gate House
Existing Twin 72" Culverts
Park Drive
Old Sears Parking Area
Overflow Connection to Muddy River Conduit
Park Drive
Avenue De Louis Pasteur
Upper Fens Pond
Jug Handle Road
Existing Twin 72" Culverts
Fenway
Riverway
Brookline Avenue
Existing Phase 1 Conditions
MUDDY RIVER FLOOD DAMAGE
REDUCTION AND ENVIRONMENTAL
RESTORATION PROJECT
EXISTING CONDITIONS
BOSTON AND BROOKLINE, MASACHUSETTS

Construction of the new left turn from Riverway onto Park Drive – note the constructed new median separating existing outbound Riverway lanes (right side of median) and two new inbound lanes (left side of median) that will soon allow a left turn onto Park Drive – mid November 2015.

Overview of the former Sears Parking Lot – note the excavation downstream of the new Riverway Culvert to construct the new river channel to return the Muddy River to its natural state – early November 2015.

Excavation and shaping of the right (looking downstream) bank of the new river channel downstream of the new Riverway Culvert – mid November 2015.

Installation of the Articulated Concrete Blocks (ACBs) for scour protection downstream of the new Riverway Culvert – mid November 2015.

Upper Fens Pond – plantings as part of the bank restoration work in the fall planting season completed – herbivore exclusion fence and habitat boulders installed – early November 2015.

Daylighting of area between Upper Fens Pond and Avenue Louis Pasteur Culvert – note the recreation of the historic Olmstead island (foreground right) starting to take shape – early November 2015

Excavation of the area between Upper Fens Pond and Avenue Louis Pasteur Culvert – note the existing timber piling on the left side which delineates the side of the existing twin 72” culverts that were recently removed as part of the daylighting efforts – early November 2015.

New granite veneer being installed on the façade of the new precast concrete culvert sections and new wingwalls of the Avenue Louis Pasteur Culvert extension – early November 2015.