I CERTIFY THAT THIS PLAN, AS PREPARED, CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

SCALE: 1" = 250'

NOTES:
1. VERTICAL DATUM IS NAVD OF 1988

DATUM CONVERSION

<table>
<thead>
<tr>
<th>NAVD 1988</th>
<th>NGVD 1929</th>
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<tbody>
<tr>
<td>9.18'</td>
<td>10.0'</td>
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2.03' - 2.85' ORDINARY HIGH WATER

0.0' - 0.82' FLOOD EL.

-0.82' - 0.0'

PLANS ACCOMPANYING PETITION OF BOSTON PARKS AND RECREATION DEPARTMENT, AND THE MASSACHUSETTS DEPARTMENT OF CONSERVATION AND RECREATION ON BEHALF OF THE U.S. ARMY CORPS OF ENGINEERS TO CONSTRUCT AND MAINTAIN THE MUDDY RIVER FLOOD DAMAGE AND ENVIRONMENTAL RESTORATION PROJECT - PHASE 1, IN AND ALONG THE MUDDY RIVER IN BOSTON, SUFFOLK COUNTY, MASSACHUSETTS.

PROJECT DESIGNED BY THE U.S. ARMY CORPS OF ENGINEERS.

FEBRUARY 24, 2011
I CERTIFY THAT THIS PLAN, AS PREPARED, CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

NOTES:

1. BACK BAY MAINTENANCE YARD IS AVAILABLE FOR USE BY CONTRACTOR/GOVERNMENT OFFICE AREA AND PARKING. FUEL PUMP AREA IS OFF LIMITS AND SHALL BE FENCED OFF BY THE CONTRACTOR PRIOR TO USE OF THE YARD. A LIMITED AMOUNT OF MATERIAL STAGING/STORAGE MAY BE ALLOWED AT THIS AREA AT THE DISCRETION OF THE CONTRACTING OFFICER.

2. LIMIT OF CONTRACTOR'S WORK AREA AS SHOWN INCLUDES AREA REQUIRED FOR ROADWAY RESTORING.

3. EXCAVATION/SITE RESTORATION KEY PLAN REFERS TO AREA OF FLOOD DAMAGE REDUCTION AND ENVIRONMENTAL RESTORATION FEATURES.

4. TEMPORARY CONSTRUCTION FENCE IS NOT SHOWN IN THE RIVERWAY/BROOKLINE AREA/ASHINALE AREA. THE LOCATION OF THE FENCE IN THESE AREAS WILL BE INDICATED BY ROADWAY RESTORATION KEY PLAN.

5. TEMPORARY CONSTRUCTION FENCE UPSTREAM OF THE RIVERWAY AND DOWNSTREAM OF WIND PEAKETT SHALL BE BROUGHT TO THE WATER'S EDGE.

6. ACCESS TO THE BROOKLINE AVENUE GATEHOUSE BY BOSTON WATER AND SEWER COMMISSION PERSONNEL SHALL BE MAINTAINED AT ALL TIMES.

7. ABBREVIATIONS:
   - TRM - TURF REINFORCEMENT MAT
   - AGB - ARTICULATED CONCRETE BLOCK
   - ACM - ARTICULATED CONCRETE MATTRESS

Scale: 1" = 300'

General Site Plan
Sheet 2 of 16 Sheets
NOTES:
1. SEE SHEETS 12 OF 16 AND 13 OF 16 FOR ELEVATION VIEWS OF THE NEW RIVERWAY COLLECTORS.
2. CELLULL SHALL BE FILLED AND COVERED WITH AN ADDITIONAL 6 INCHES OF TOPSOIL AND SEEDING. TURF REINFORCEMENT LINING SHALL BE PLACED OVER CELLULL AREAS. CELLULL UPLANDS OF 3-A FEET SHALL EXTEND TO EL 5.0. CELLULL IN ALL OTHER AREAS SHALL EXTEND TO EL 5.0 EXCEPT UPTOWARDS OF THE RIVERWAY WHERE CELLULL SHALL EXTEND FROM EL 5.0 TO EL 8.0.
3. EXISTING BOXES, STORM DRAINAGE STRUCTURES, TRAFFIC ISLANDS, CURBING, GRASS AREAS AT THE RIVERWAY INTERSECTION ARE TO BE RECONSTRUCT TO THE NEW CONSTRUCTION AS SHOWN ON ROUTE PLANS SHEETS DP-101 TO DP-110.
4. EXISTING CULVERTS SHALL BE REMOVED IN THE DAYLIGHTING AREA AND AS NECESSARY TO CONSTRUCT THE NEW AREA CULVERT. NON-WEML. PORTIONS OF EXISTING CULVERTS UNDER RIVERWAY DRIVE SHALL BE REMOVED AND CULVERTS FILLED WITH CONCRETE SLURRY.
5. NEW STORM DRAIN HEADWALL LOCATIONS AND INVERT ELEVATIONS SHOWN ON THE PLANS ARE ESTIMATED. THE EXACT LOCATION AND INVERT ELEVATION OF EACH HEADWALL SHALL BE DETERMINED IN THE FIELD. EROSION PROTECTION IS REQUIRED ON CELLULL AT HEADWALL DAYLIGHT SECTIONS.
6. TURF REINFORCEMENT LINING SHALL EXTEND 5 FEET BEYOND TOP OF SLOPE TO ANCHOR IN EXISTING SOIL.
7. THE CONSTRUCTION SHALL PROTECT FROM DAMAGE ALL EXISTING UTILITIES IN THE VICINITY OF NEW STORM DRAIN.
NOTES:

1. SEE SHEETS 14 OF 16 AND 15 OF 16 FOR ELEVATIONS OF THE NEW BROOKLINE AVENUE DRAIN.

2. NEW JUNCTION BOX CONNECTS EXISTING 48" DIA. AND 51 1/2" DIA. STORM DRAIN LINES TO BROOKLINE 48" DRAIN, OVERLAP THROUGH THE PIPES. EXISTING DRAIN LINES ARE TO BE ABANDONED NORTH OF NEW JUNCTION BOX.

3. GEOCELLS SHALL BE FULL OF TOPSOIL, AND SEEDED. GEOCELL UPLIFT OF 2" SHALL EXTEND TO EL. 5.0. GEOCELL IN ALL OTHER AREAS SHALL EXTEND TO EL. 3.0.

4. EXISTING ROADS, SIDEWALKS, TRAFFIC ISLANDS, CURBING, GRASS AREAS ARE TO BE RECONSTRUCTED TO NEW CONFIGURATION AS SHOWN ON ROADSIDE PLANS.

5. EXISTING JUNCTION BOX STRUCTURE AND 72" DIA. DUCTS SHALL BE REMOVED TO THE EXTENT NECESSARY TO CONSTRUCT NORTH SIDE WALL AT DOWNSTREAM END OF BROOKLINE AVENUE DRAIN. OPENING TO EXISTING 84" DIA. DUCTS SHALL BE PERMANENTLY BLOCKED WITHIN EXISTING UNDERGROUND DUCT/BURIAL STRUCTURE.

6. FOR NEW STORM DRAIN HEADWALLS IN DAYLIGHTING AREA, LOCATIONS AND ELEVATIONS SHOWN ON THE PLAN ARE ESTIMATED. THE EXACT LOCATION AND INVERT ELEVATIONS OF EACH HEADWALL SHALL BE DETERMINED DURING CONSTRUCTION.

Erosion protection is required on geocells at headwalls in daylighting sections.

7. TURF REINFORCEMENT MAT SHALL EXTEND 5 FEET BEYOND TOP OF EXCAVATION SLOPES TO ANCHOR IN EXISTING SOIL. WHERE UPPER SLOPE IS CLEARED ONLY (UPPER FENS POND) MAT SHALL EXTEND TO LIMIT OF CLEARING (EL. 8.0).

8. SEDIMENT EXCAVATION IN UPPER FENS CONSISTS OF REMOVAL OF UPPER 2 FEET OF DEBRIS WITHIN POND TO WATER'S CURVE AT NORMAL WATER SURFACE ELEVATION.
I CERTIFY THIS PLAN AS PREPARED, CONFORMS TO THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS.

NOTES:
1. GEDDells SHALL BE FILLED WITH TOPSOIL AND SEEDED.
2. WHERE UPPER SLOPE IS CLEARED ONLY, UPPER FENS POND TURRENFORCEMENT WATERSHED EXTENDS TO LIMIT OF CLEARING (EL. 8.0). TURRENFORCEMENT MIGHT BE RENEWED OR AVENUE.
3. CLEARED AREA EL. 8.0 WITHIN THE UPPER FENS POND AREA SHALL BE SELECTED IN CONFORMITY AS INDICATED ON THE LANDSCAPING PLAN AND PER DIRECTIONAL GUIDELINES FOR THE CONTRACTING OFFICER'S REPRESENTATIVE.
4. SEDIMENT EXCAVATION IN UPPER FENS POND CONSISTS OF REMOVAL OF UPPER 2 FEET OF SEDIMENT WITHIN POND TO WATER'S EDGE AT NORMAL WATER SURFACE ELEVATION.
5. EROSION PROTECTION IS REQUIRED ON GEDDells AT EXISTING STORM DRAIN HEADWALLS IN DAD-WAY SECTIONS.

LICENSE NO. 3099 Approved by Department of Environmental Protection Date
NOTES:

1. SEE SHEET 9 OF 16 FOR PLAN AT AVENUE LOUIS PASTEUR.

2. NEW STORM DRAIN HEADWALLS IN DAYLIGHTING AREA.
   LOCATIONS AND BELOW ELEVATIONS SHOWN ON THE PLANS ARE ESTIMATED.
   HEADWALLS SHALL BE ERECTED WITHIN 6 FEET OF EXISTING SLOPE.
   EXISTING SLOPE IS 6/12.

3. GRABILL SHALL BE FILLED WITH TOPSOIL.
   SEDIMENT EXCAVATION IN ALL OTHER AREAS SHALL EXTEND TO EL. 3.5.

4. TURF REINFORCEMENT MAT SHALL EXTEND 3 FEET BEYOND TOP OF
   SLOPE TO allowing 10X50 EDGES IN EXISTING SLOPE.
   EXISTING SLOPE IS 6/12.

5. EXISTING 72" DIA. CULVERTS SHALL BE REMOVED IN THE DAYLIGHTING AREA
   EXCLUDING AT THE ATTACHMENT TO THE FACE OF THE EXISTING JUNCTION BOX
   AT AVENUE LOUIS PASTEUR.

6. SEDIMENT EXCAVATION IN UPPER FNG POND CONSISTS OF REMOVAL OF UPPER 2
   FEET NO ATTACHMENT WITHIN POND TO WATER'S EDGE AT NORMAL WATER SURFACE.

7. EXISTING STORM DRAINAGE SHALL BE REMOVED AND REPLACED BY A MANHOLE
   AT THE LOCATION SHOWN. THE EXISTING 30" DIA. STORM DRAIN SHALL BE TIED
   INTO THE NEW MANHOLE AND A NEW 36" DIA. STORM DRAIN SHALL REPLACE THE
   EXISTING 30" DIA. STORM DRAIN TO BE REMOVED.
1. Trees growing from the face of the headwall shall be removed by cutting and treating stumps with herbicide so as to avoid damage to the existing headwall.
2. New protection (G. cloxcells, Trm., etc.) shall be placed in such a manner as to avoid damage to the existing headwall.
3. Avenue Louis Pasteur Bridge is unrated for highway traffic loads.
4. Erosion protection is required at existing storm drain headwalls which daylight on geocells or Trm.
5. Excavate river bottom sediments to EL -4.5 throughout entire length of existing culvert.
6. Locate steel sheet piling to avoid buried stone foundation of existing culvert. Pre-dig/evaluate to depth necessary to determine extent of existing foundation.