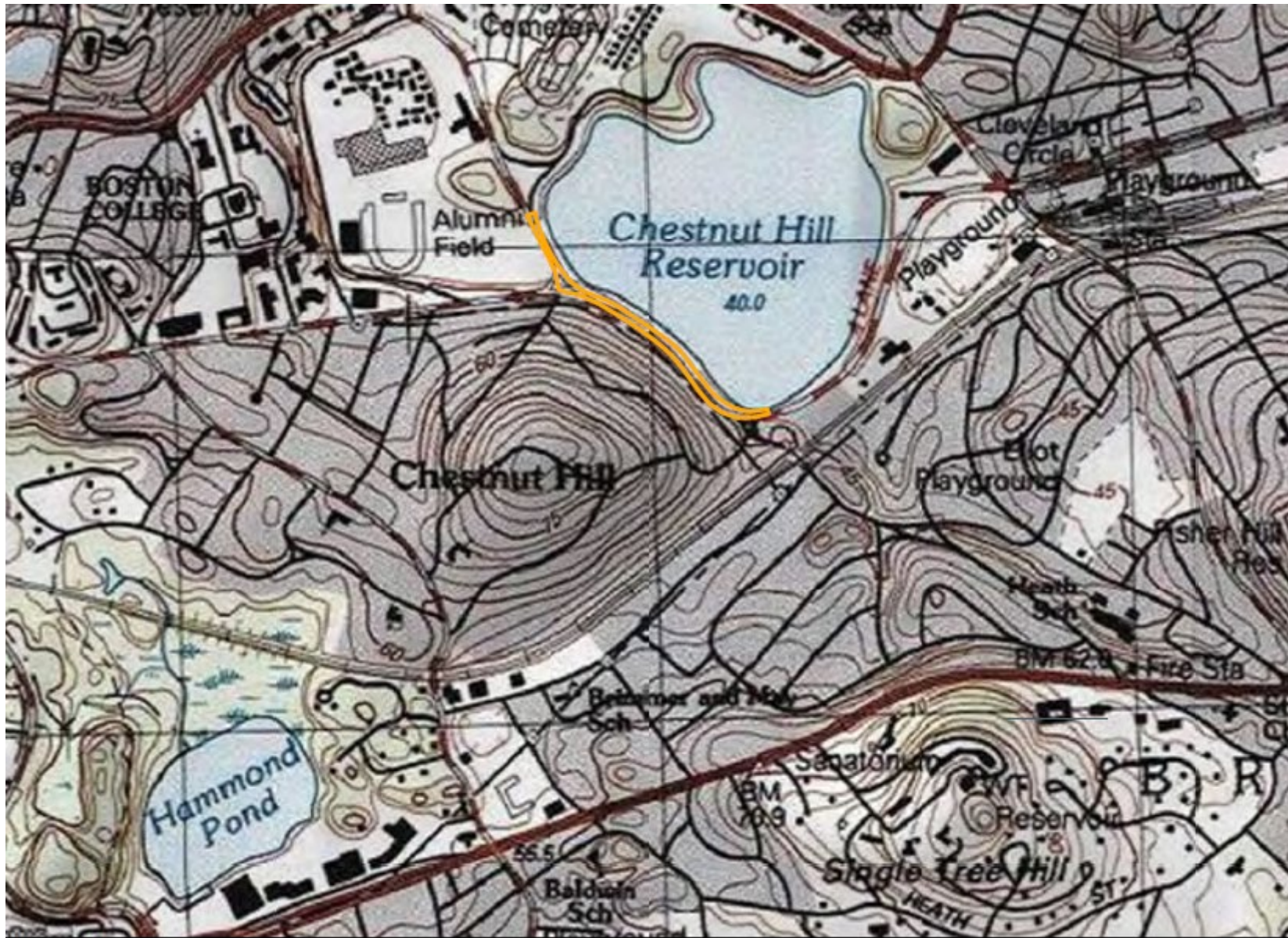


Boston Landmarks Commission Hearing


April 28, 2026

Chestnut Hill Reservoir Sidewalk and Drainage Improvements

Applicant: MA Department of Conservation and Recreation



Legend

 Project Location

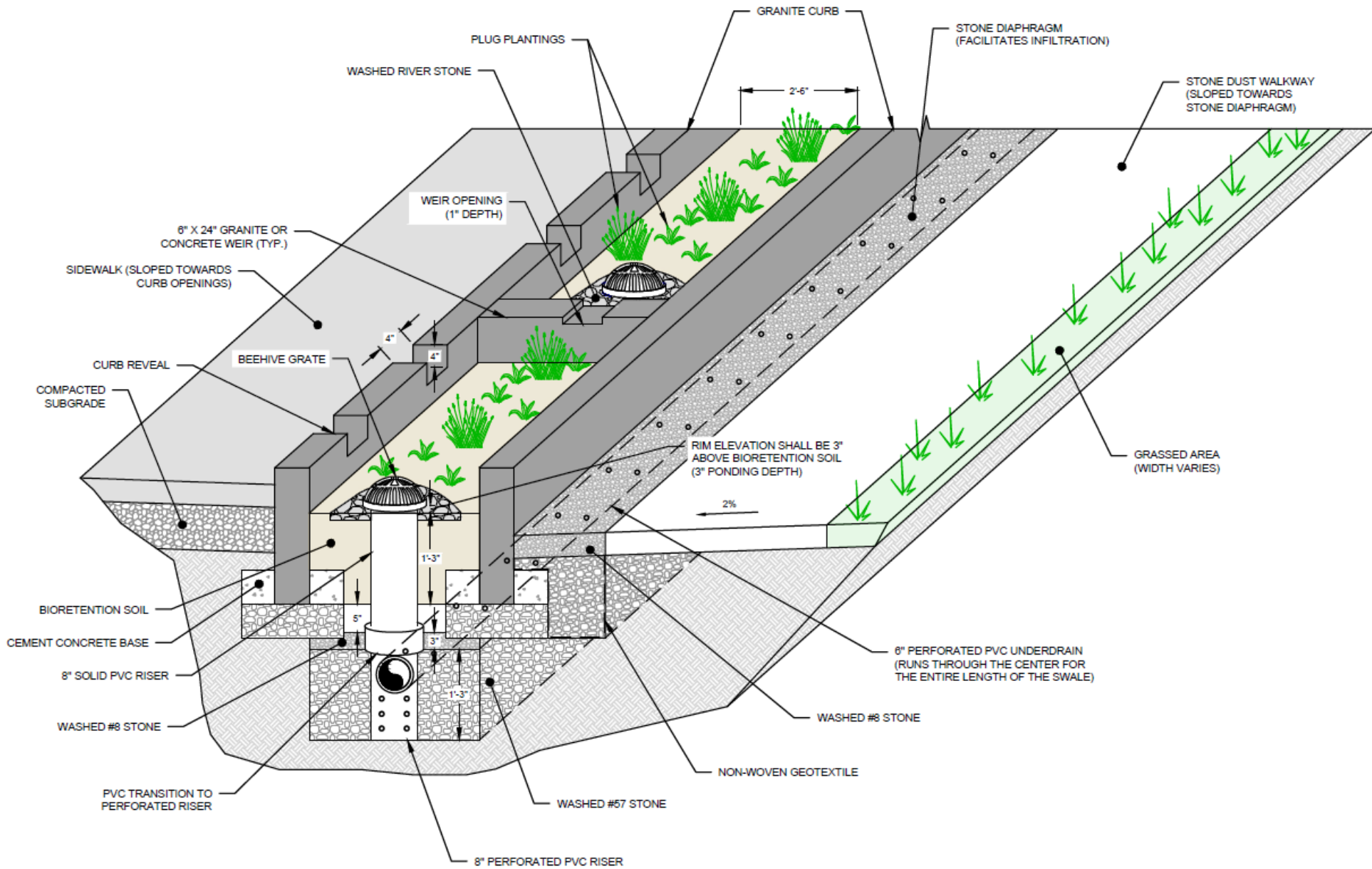
Extent of project work along Chestnut Hill Reservoir



Existing conditions at north end of project area

Proposed location of bioretention swale between paved path and stone dust path

BIORETENTION SWALE



BIORETENTION SWALE PLANTING PLAN

8" BEEHIVE GRATE - BIORETENTION SWALE
(SEE NOTE 2)

BIORETENTION CURB

SIDEWALK RESTORATION

BIORETENTION SOIL

SAND BORROW

WASHED #8 STONE

WASHED #57 STONE

SCARIFY SUBGRADE
TO A MIN. DEPTH OF 6"

6" PERFORATED PVC UNDERDRAIN

8" PERFORATED PVC RISER

2'-6"

RIM ELEVATION SHALL BE 3"
ABOVE BIORETENTION SOIL
(3" PONDING DEPTH)

EL. 131.2'

2%

EL. 131.4'

BIORETENTION SWALE
PLANTING PLAN

14
D-03

GRASS RESTORATION
(SEE PLANS FOR EXTENTS)

3"

1'-3"

8" SOLID PVC RISER
TRANSITION TO
PERFORATED RISER

11a
D-02

STONE DIAPHRAGM (TYPE A)

15
D-03

STONE DUST RESTORATION

22
D-05

12
D-03

10
D-02

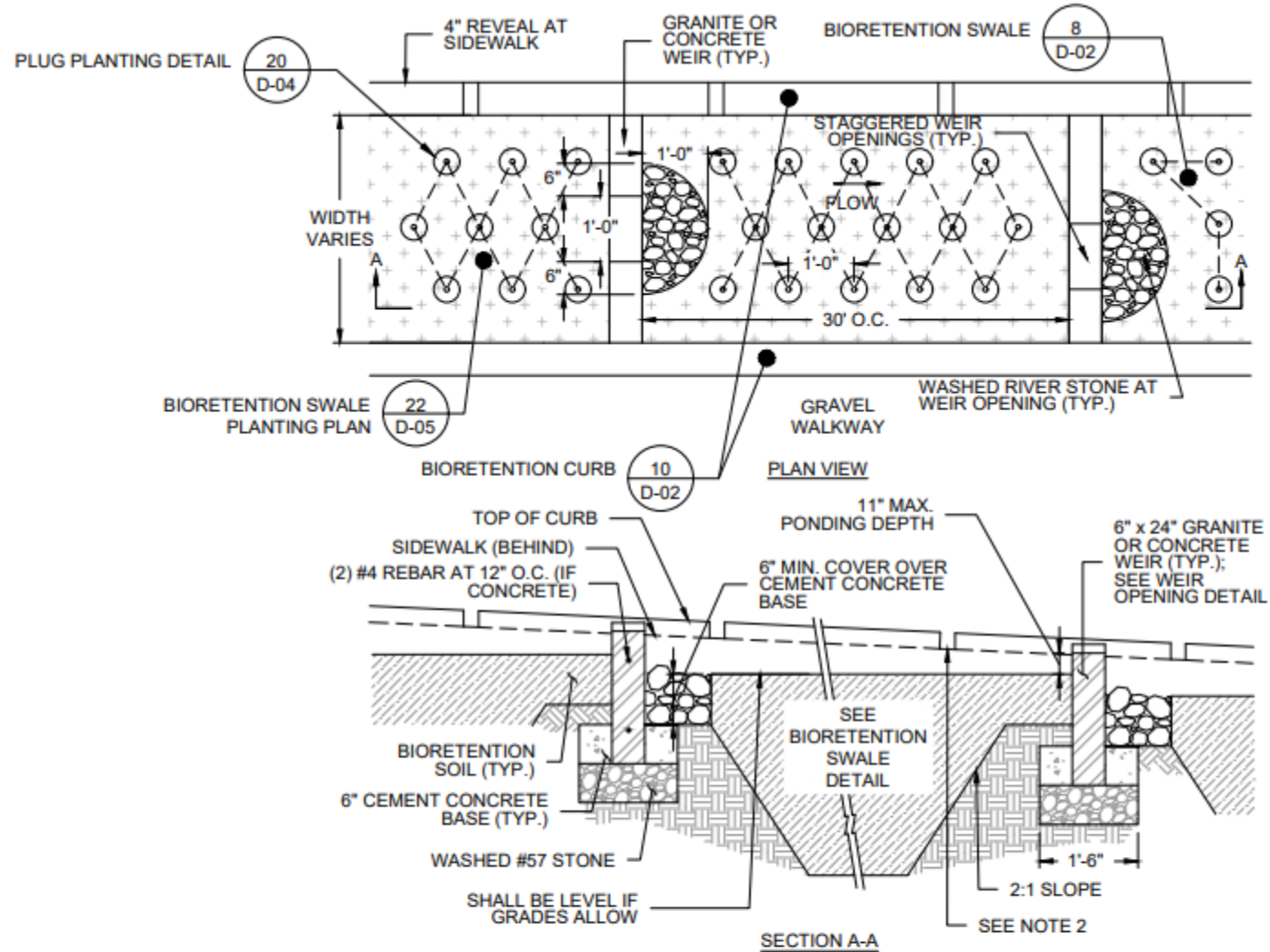
13
D-03

NOTES:

1. GRANITE OR CONCRETE WEIRS SHALL BE SPACED EVERY 30 LINEAR FEET AND INSTALLED AS SHOWN IN GRANITE/CONCRETE WEIR DETAIL.
2. BEEHIVE DRAINS SHALL BE CENTERED BETWEEN EACH WEIR/TERMINAL CURB END.
3. GENERAL REQUIREMENTS BIORETENTION SOIL SHALL ACHIEVE A LONG-TERM, IN-PLACE INFILTRATION RATE OF AT LEAST 5 INCHES PER HOUR. BIORETENTION SOIL SHALL ALSO SUPPORT VIGOROUS PLANT GROWTH. BIORETENTION SOIL SHALL BE A WELL-BLENDED MIXTURE OF MINERAL AGGREGATE AND COMPOST, MEASURED ON A VOLUME BASIS. BIORETENTION SOIL SHALL CONSIST OF TWO PARTS COMPOST (APPROXIMATELY 35 TO 40 PERCENT) BY VOLUME AND THREE PARTS MINERAL AGGREGATE (APPROXIMATELY 60 TO 65 PERCENT), BY VOLUME. THE MIXTURE SHALL BE WELL BLENDED TO PRODUCE A HOMOGENEOUS MIX.

8 BIORETENTION SWALE
* SCALE: NTS

* = DP-01, R-01, D-02



NOTES:

1. PROVIDE 4" BREAKS IN CURB REVEAL AT 6'-0" O.C. TO ALLOW SIDEWALK RUNOFF INTO BIORETENTION AREAS.
2. UPSTREAM OF WEIRS, BREAKS IN CURB REVEAL SHALL BE LOCATED A MIN. OF 1" ABOVE THE WEIR OPENING TO LIMIT THE POTENTIAL FOR THE BIORETENTION AREA TO OVER-TOP ONTO THE SIDEWALK.
3. IF USED IN CONTINUOUS SWALE, ALL WEIRS SHALL BE CONSTRUCTED OF THE SAME MATERIAL.

9 GRANITE OR CONCRETE WEIR

SCALE: NTS

* = DP-01, R-01



View of bioretention swale with granite curbs and weirs installed at 114 Dudley Street in Roxbury as example of similar installation proposed for Chestnut Hill Reservoir (minus trees).



Views of existing granite curbing just north of project area along Chestnut Hill Driveway

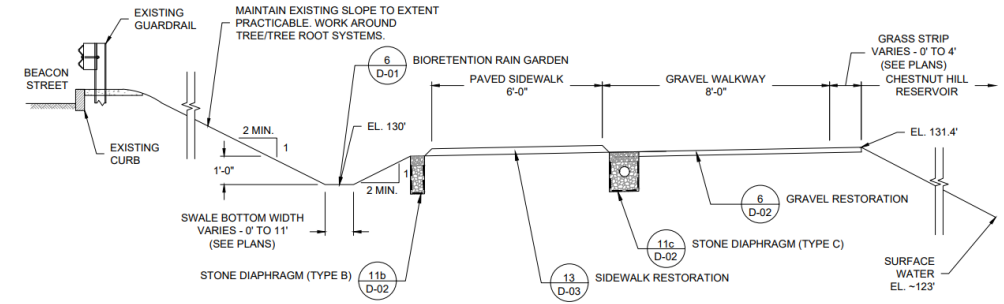




Existing Conditions along southern project area

Paved Path
5' – 6' wide

Stone Dust Path
12' – 14' wide

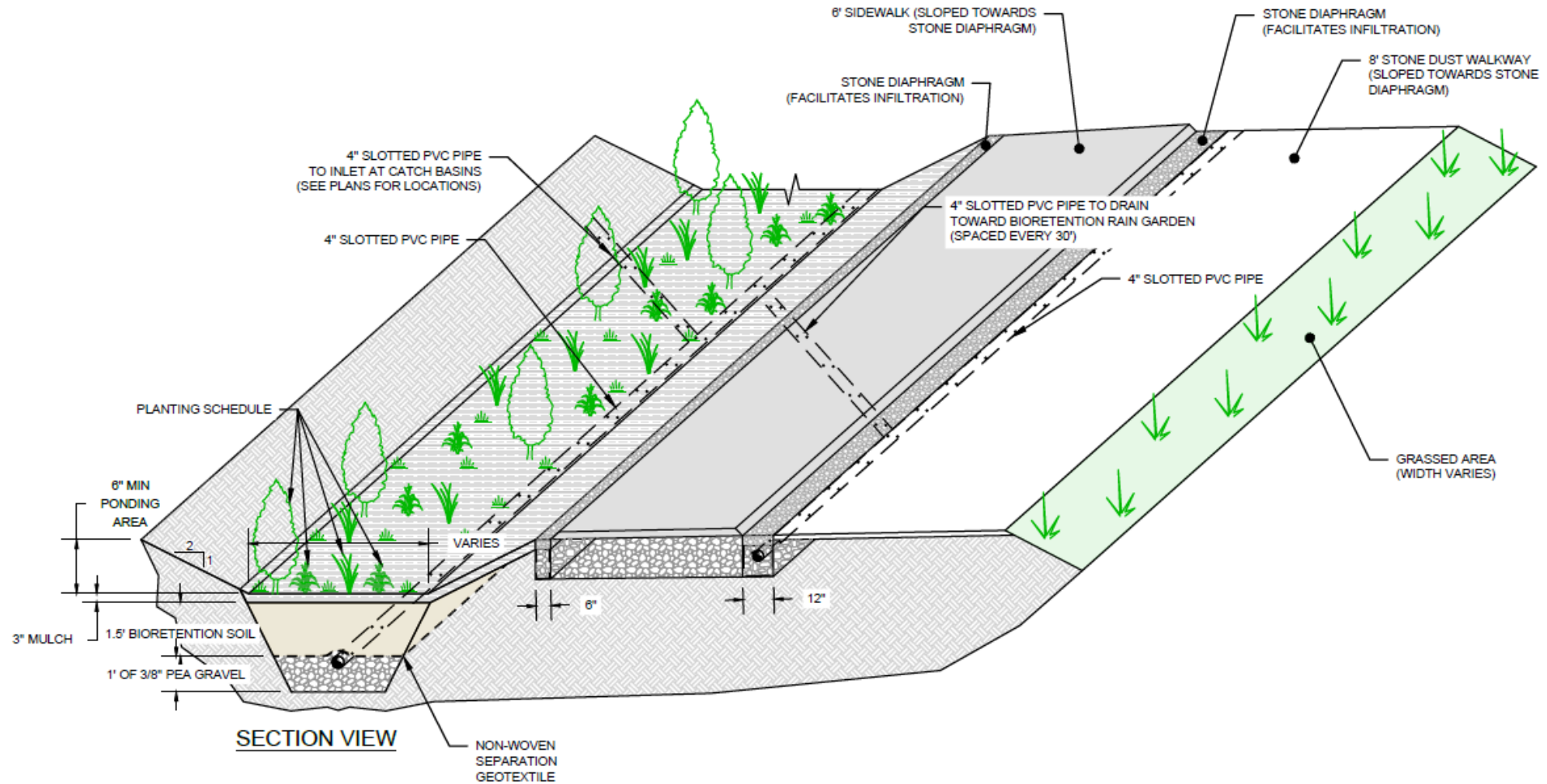


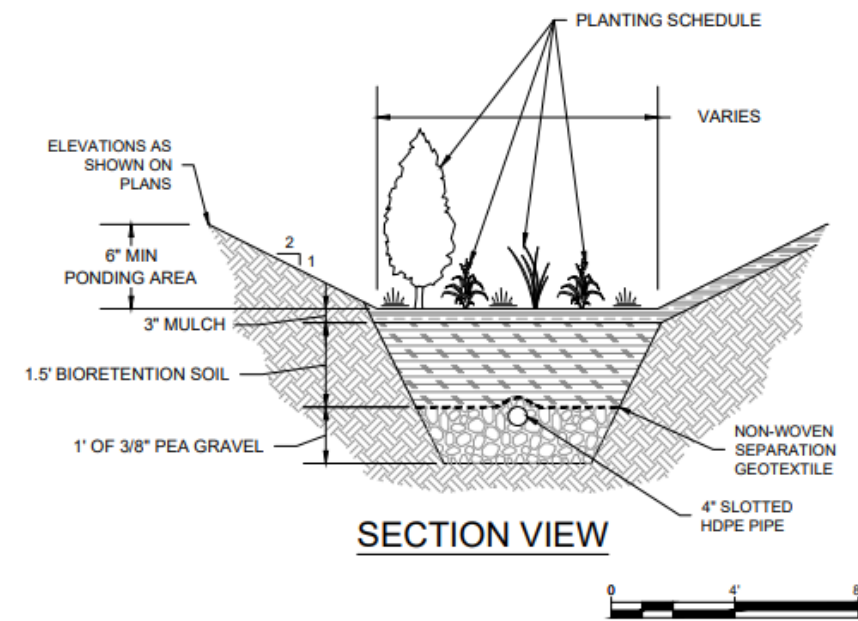
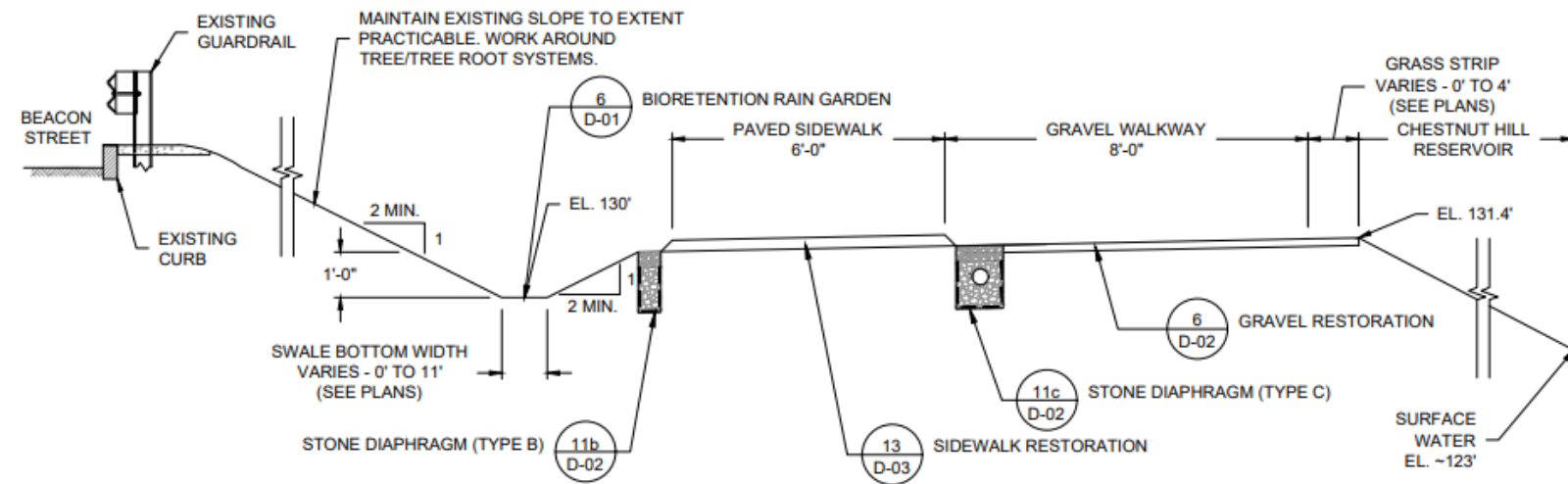
Proposed Profile Conditions

5 SECTION DETAIL (STA 5+55 - STA 18+45)
NTS

* = DP-01, DP-02, DP-03

BIORETENTION RAIN GARDEN





NOTES

1. BIORETENTION SOIL SHALL ACHIEVE A LONG-TERM, IN-PLACE INFILTRATION RATE OF AT LEAST 5 INCHES PER HOUR. BIORETENTION SOIL SHALL ALSO SUPPORT VIGOROUS PLANT GROWTH. BIORETENTION SOIL SHALL BE A WELL-BLENDED MIXTURE OF MINERAL AGGREGATE AND COMPOST, MEASURED ON A VOLUME BASIS. BIORETENTION SOIL SHALL CONSIST OF TWO PARTS COMPOST (APPROXIMATELY 35 TO 40 PERCENT) BY VOLUME AND THREE PARTS MINERAL AGGREGATE (APPROXIMATELY 60 TO 65 PERCENT), BY VOLUME. THE MIXTURE SHALL BE WELL BLENDED TO PRODUCE A HOMOGENEOUS MIX.

5 SECTION DETAIL (STA 5+55 - STA 18+45)
* NTS

* = DP-01, DP-02, DP-03

6 BIORETENTION RAIN GARDEN
* NTS

* = DP-01, DP-02, DP-03, R-01, R-02, R-03, D-01



View southeast along pathway at northern terminus of proposed bioretention rain garden, to be located to the right of paved path.



View northwest along southern half of project area showing typical existing conditions.

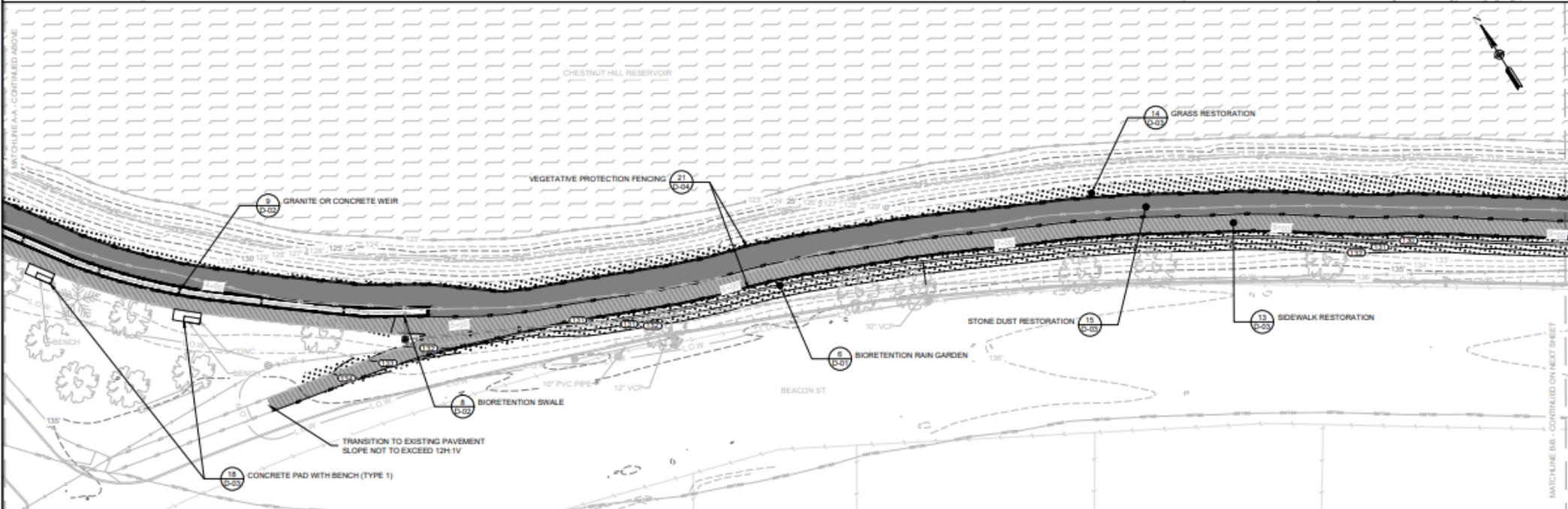
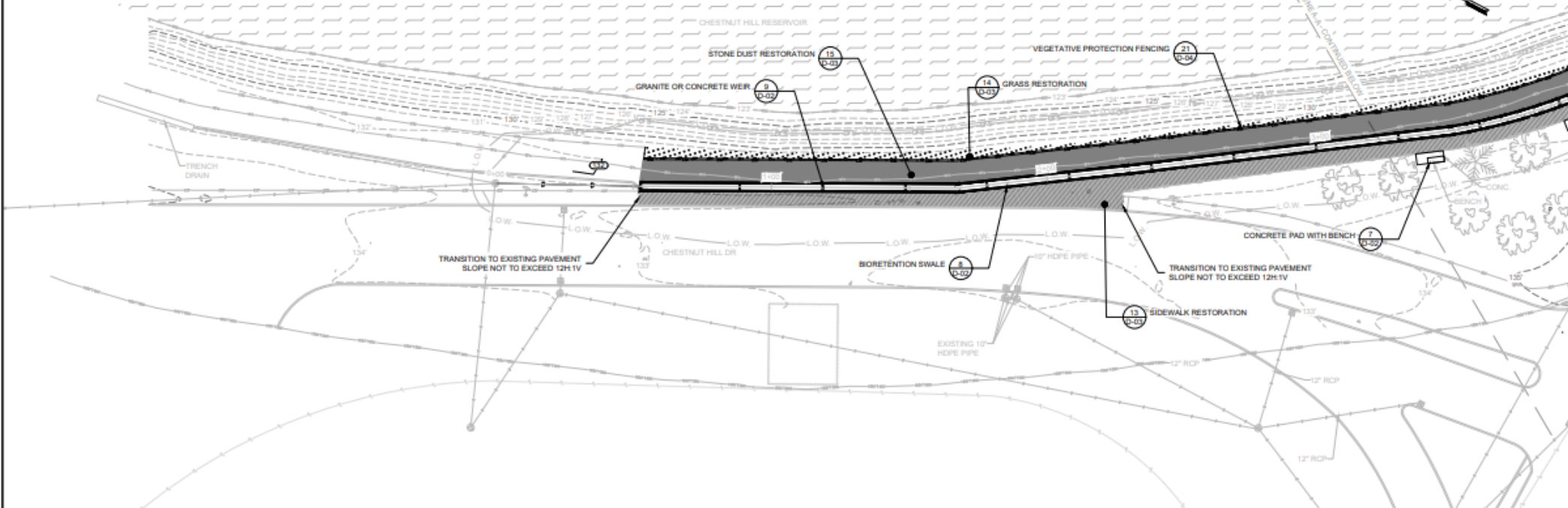


View northwest showing existing conditions at proposed location of oval planting bed to left of paved pathway.



View west from southern terminus of project area.

Approved: _____
 Checked: _____
 Designer: _____
 Project Management (Initials): _____



- NOTES**
- ALL DISTURBED AREAS SHALL BE SCARIFIED AND SEEDING.
 - SHORT TERM EROSION CONTROL FABRIC (STECF) SHALL BE INSTALLED ON SLOPES GREATER THAN 3H:1V. STECF SHALL BE SINGLE NET STRAW BLANKET WITH BIODEGRADABLE JUTE NETTING.

PROJECT
 CHESTNUT HILL RESERVOIR
 SIDEWALK REPLACEMENT AND
 DRAINAGE IMPROVEMENTS
 CHESTNUT HILL, MASSACHUSETTS

CLIENT
 MASSACHUSETTS DEPARTMENT
 OF CONSERVATION AND RECREATION
 10 PARK PLAZA, SUITE 6620
 BOSTON, MA 02116

CONSULTANT
 AECOM
 290 Apollo Drive
 Chelmsford, MA 01524
 978.925.2100 tel 978.925.2101 fax
 www.aecom.com

REGISTRATION

Date: 10-10-2025

ENGINEER'S CERTIFICATION:
 THE UNDERSIGNED HEREBY CERTIFIES
 THIS PLAN TO BE AN APPROPRIATE
 REPRESENTATION OF THE PROPOSED
 SITE FEATURES. THE COMPLIANCE OF THE
 IMPLEMENTATION OF CONTRACT WORK IS
 THE CONTRACTOR'S SOLE RESPONSIBILITY.

REFERENCE

ISSUE/REVISION

NO.	DATE	DESCRIPTION
0	10/10/2025	ISSUED FOR PERMIT

PROJECT NUMBER
 60724762

SHEET TITLE
 RESTORATION PLAN

SHEET 1 OF 3
 PAGE 13 OF 21
SHEET NUMBER
 R-01



Date: 10-10-2025

ENGINEER'S CERTIFICATION:
 THE UNDERSIGNED HEREBY CERTIFIES
 THIS PLAN TO BE AN APPROPRIATE
 REPRESENTATION OF THE PROPOSED
 SITE FEATURES. THE COMPLIANCE OF THE
 IMPLEMENTATION OF CONTRACT WORK IS
 THE CONTRACTOR'S SOLE RESPONSIBILITY.

REFERENCE



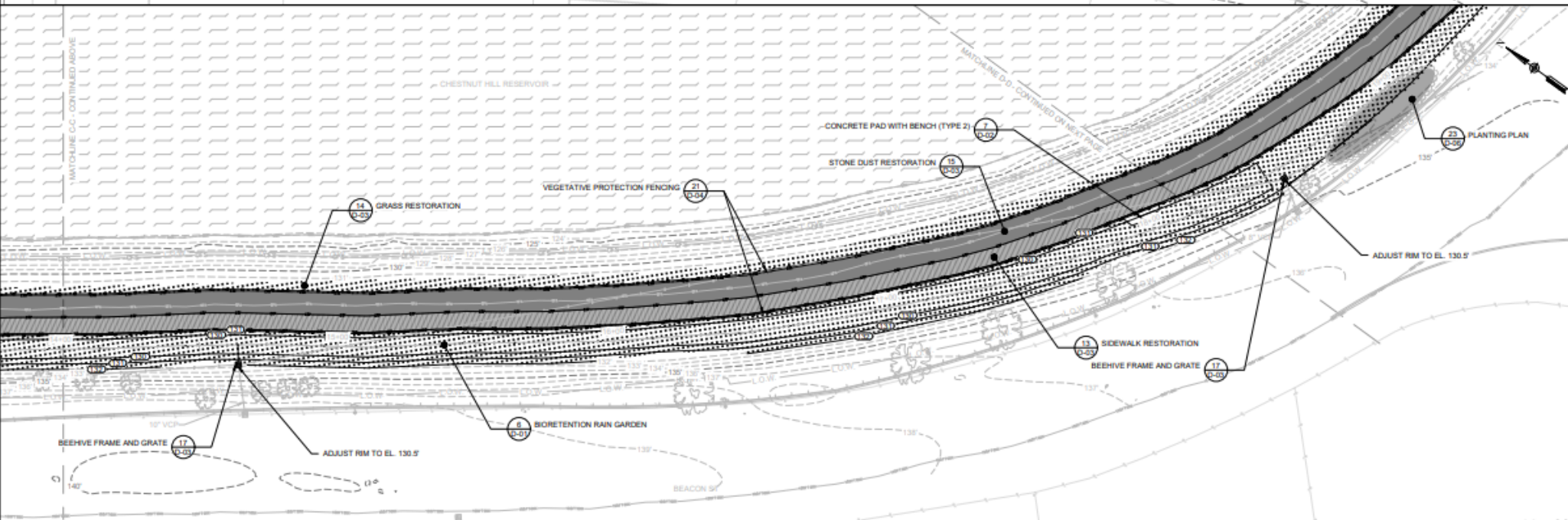
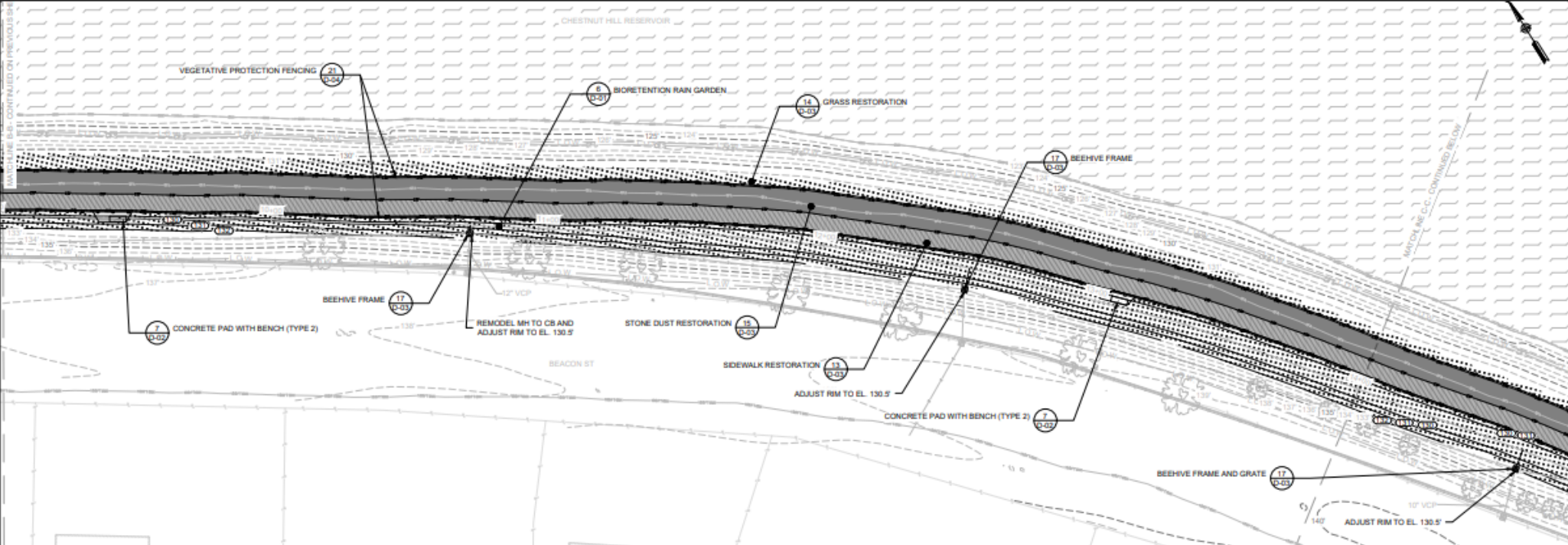
ISSUE/REVISION

NO.	DATE	DESCRIPTION
0	10/10/2025	ISSUED FOR PERMIT

PROJECT NUMBER
60724762

SHEET TITLE
RESTORATION PLAN

SHEET 2 OF 3
PAGE 14 OF 21
SHEET NUMBER

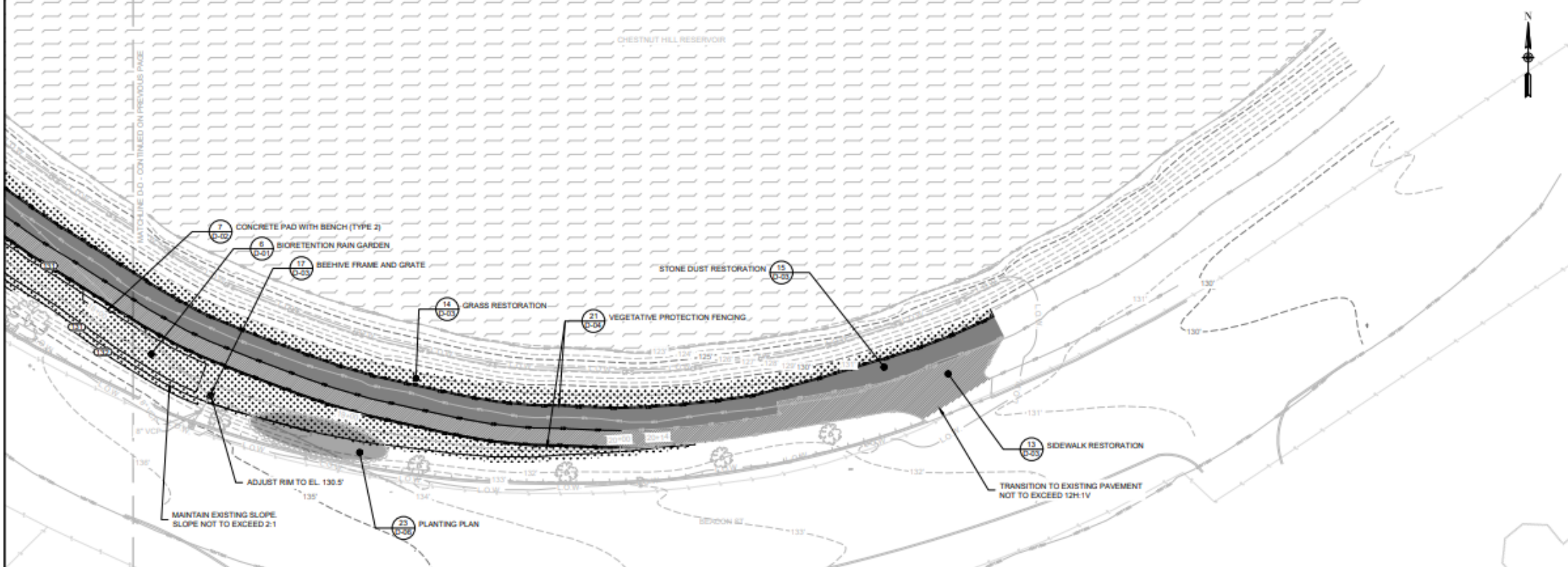


NOTES:
 1. ALL DISTURBED AREAS SHALL BE SCARIFIED AND SEEDED.

Approved: _____
 Checked: _____
 Project Management (Initials): _____
 Designer: _____

ANSI D

AMS/D 22' x 35'
 Approved:
 Checked:
 Designer:
 Project Management/Title:



PROJECT
 CHESTNUT HILL RESERVOIR
 SIDEWALK REPLACEMENT AND
 DRAINAGE IMPROVEMENTS
 CHESTNUT HILL, MASSACHUSETTS

CLIENT
 MASSACHUSETTS DEPARTMENT
 OF CONSERVATION AND RECREATION
 10 PARK PLAZA, SUITE 6620
 BOSTON, MA 02116

CONSULTANT
 AECOM
 250 Apollo Drive
 Chelmsford, MA 01824
 978.905.2100 tel 978.905.2101 fax
 www.aecom.com

REGISTRATION



Date: 10-10-2025

ENGINEER'S CERTIFICATION:
 THE UNDERSIGNED HEREBY CERTIFIES
 THIS PLAN TO BE AN APPROPRIATE
 REPRESENTATION OF THE PROPOSED
 SITE FEATURES. THE COMPLIANCE OF THE
 IMPLEMENTATION OF CONTRACT WORK IS
 THE CONTRACTOR'S SOLE RESPONSIBILITY.

REFERENCE



ISSUE/REVISION		
NO	DATE	DESCRIPTION
0	10/10/2025	ISSUED FOR PERMIT

PROJECT NUMBER
 60724762

SHEET TITLE