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JUN 19 2018



CAMBRIDGE HISTORICAL COMMISSION CAMBRIDGE HISTORICAL COMMISSION
831 Massachusetts Avenue, 2nd Fl., Cambridge, Massachusetts 02139
Telephone: 617 349 4683 Fax: 617 349 3116 TTY: 617 349 6112
E-mail: histcomm@cambridgema.gov URL: http://www.cambridgema.gov/Historic

APPLICATION FOR CERTIFICATE

1. The undersigned hereby applies to the Cambridge Historical Commission for a Certificate of (check one box): Appropriateness, Nonapplicability, or Hardship, in accordance with Chapter 40C of the Massachusetts General Laws and/or Chapter 2.78 of the Municipal Code.

2. Address of property: Willard Street, Cambridge, Massachusetts

3. Describe the proposed alteration(s), construction or demolition in the space provided below: (An additional page can be attached, if necessary).

The Willard Street Drainage Improvements Project has a primary goal of reducing incidences of surface flooding along the street and adjacent properties, and of improving the quality of stormwater discharged to the Charles River. The significant underground infrastructure construction which is required, also provides an opportunity to provide surface improvements, including accessible sidewalks, traffic calming, landscaping, and "Green Infrastructure" features.

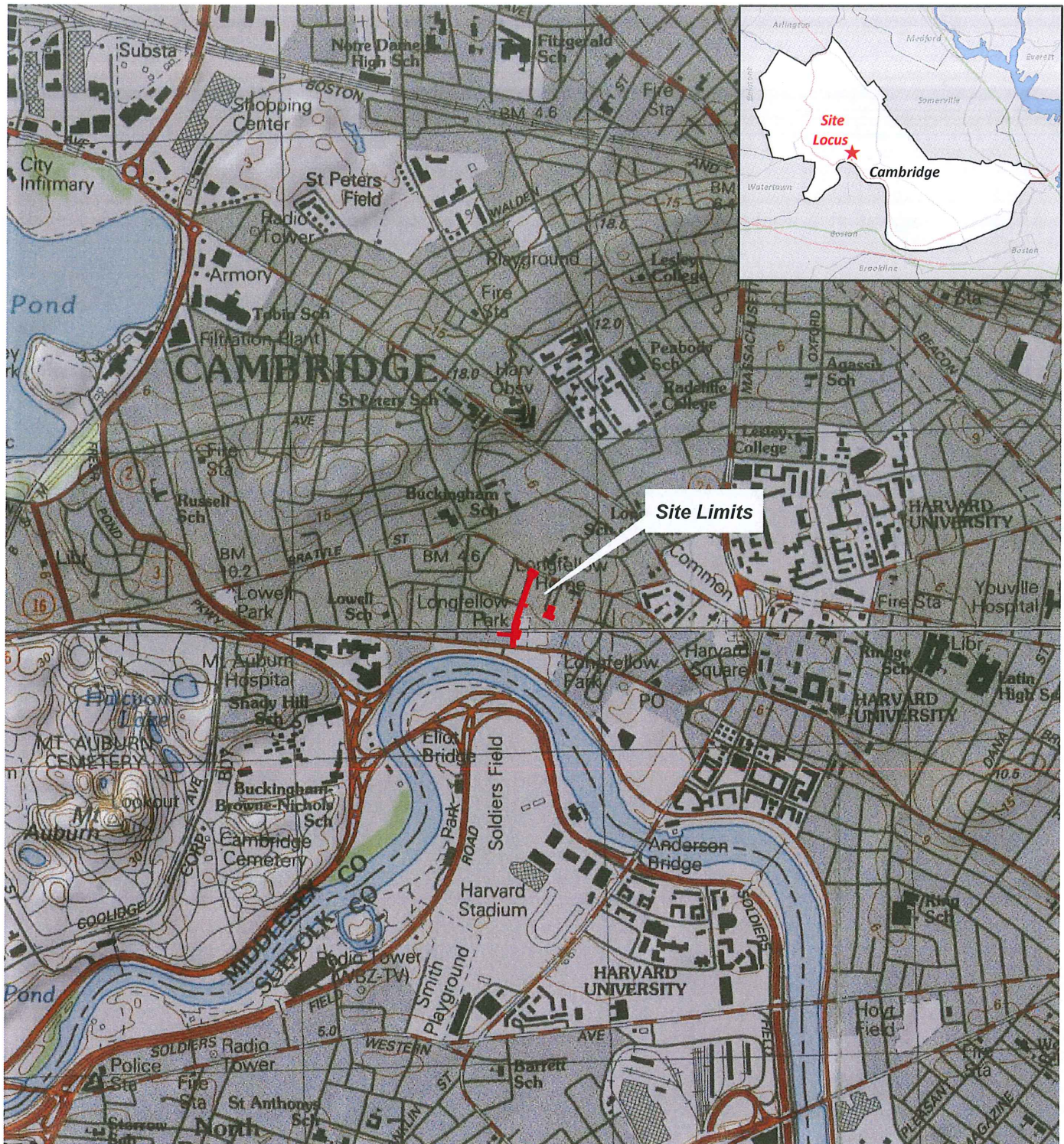
The surface restoration will be largely accomplished using the City's standard construction materials, including granite curb, cast-in-place concrete sidewalks, pre-cast concrete pavers at raised intersections, and new street trees. Additionally, for added stormwater benefit, pervious materials are being considered for portions of the sidewalk edge on the west side of the street.

I certify that the information contained herein is true and accurate to the best of my knowledge and belief. The undersigned also attests that he/she has read the statements printed on the reverse.

Name of Property Owner of Record: City of Cambridge
Mailing Address: 795 Massachusetts Avenue, Cambridge, MA 02139
Telephone/Fax: (617) 349-4000
⇒ Signature of Property Owner of Record: *Louis De Casquale*
(Required field; the application will not be considered complete without the property owner's signature)

Name of proponent, if not record owner: City of Cambridge, Dept. of Public Works
Mailing Address: 147 Hampshire Street, Cambridge, MA 02139 (Att: Jerry Friedman)
Telephone/Fax: (617) 349-9720 E-mail: jfriedman@cambridgema.gov

(for office use only):
Date Application Received: 6/19/18 Case Number: 3971 Hearing Date: 7/12/18
Type of Certificate Issued: _____ Date Issued: _____



Document Path: H:\Projects\2016\16124A HDR_Willard St Cambridge SW\GIS\Maps\Permitting\Locus.mxd

*Boston North, Boston South, Lexington & Newton Topographic Quadrangles

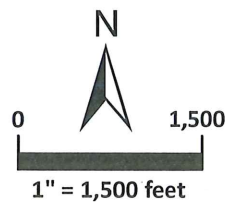
Legend

 Site Limits

Horsley Witten Group
 Sustainable Environmental Solutions
 90 Route 6A • Unit 1 • Sandwich, MA 02563
 508-833-8600 • horsleywitten.com

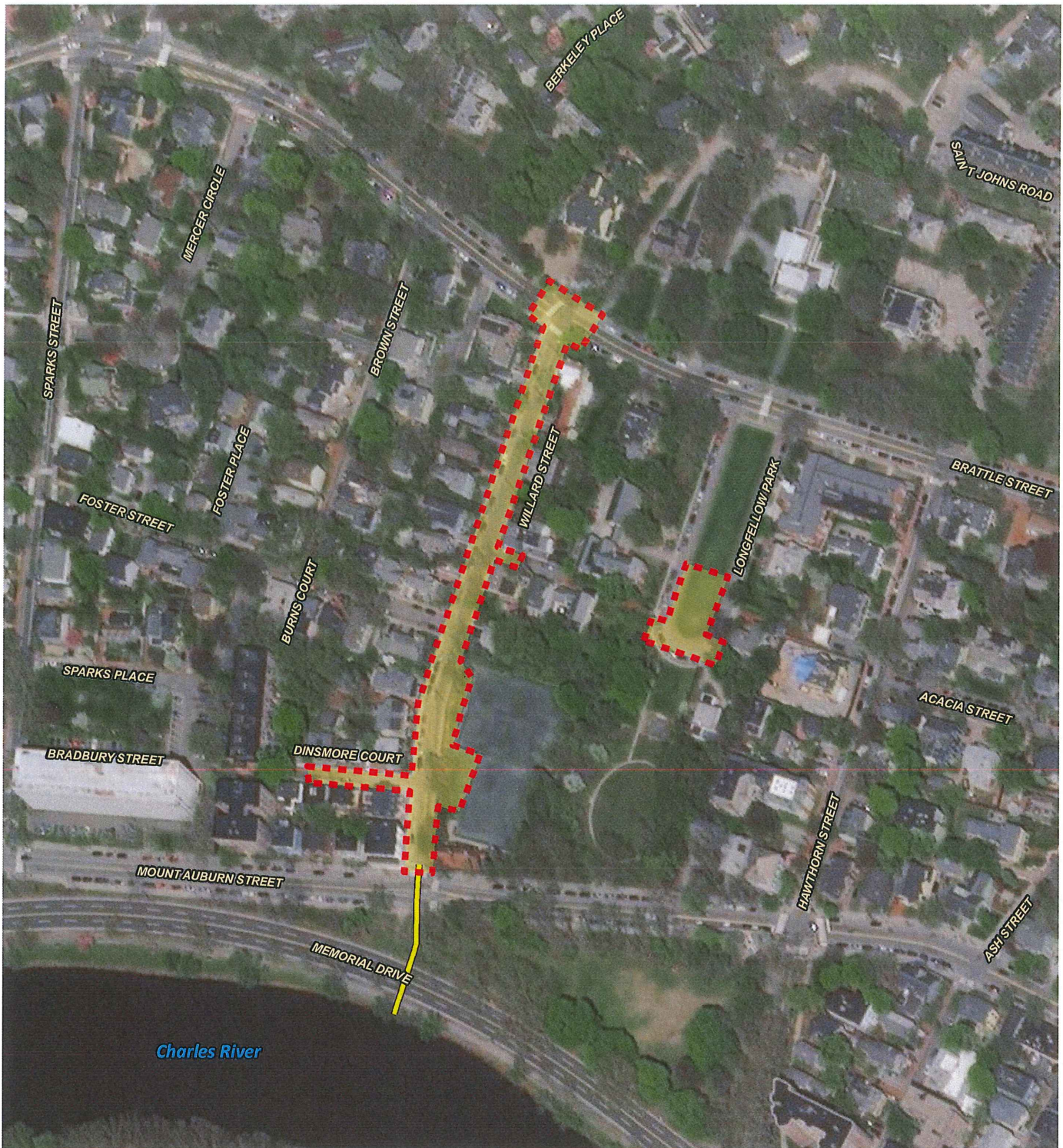


USGS Locus
 Willard Street
 Cambridge, MA



Date: 3/20/2018

Figure 1

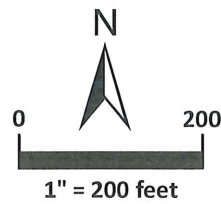


Document Path: H:\Projects\2016\16124A HDR_Willard St Cambridge SW\GIS\Maps\Permitting\Aerial.mxd

Legend

-  Site Limits
-  Restored Outfall

*Aerial Imagery - ESRI 2017



Horsley Witten Group
 Sustainable Environmental Solutions
 90 Route 6A • Unit 1 • Sandwich, MA 02563
 508-833-9600 • horsleywitten.com





Aerial Photo
 Willard Street
 Cambridge, MA

Date: 3/20/2018

Figure 2

Willard Street, Cambridge		PHOTOGRAPHIC LOG
Client Name: Cambridge DPW		Site Location: Willard Street, Cambridge
Photo No. : 1	Date: 12/06/16	
Description: From Brattle Street looking south to Willard Street.		

Willard Street, Cambridge		PHOTOGRAPHIC LOG
Client Name: Cambridge DPW		Site Location: Willard Street, Cambridge
Photo No. : 2	Date: 12/06/16	
Description: Willard Street looking south towards Memorial Drive.		

Willard Street, Cambridge		PHOTOGRAPHIC LOG
Client Name: Cambridge DPW	Site Location: Willard Street, Cambridge	
Photo No. : 3	Date: 12/06/16	
Description: Willard Street looking north.		

Willard Street, Cambridge		PHOTOGRAPHIC LOG
Client Name: Cambridge DPW	Site Location: Willard Street, Cambridge	
Photo No. : 4	Date: 12/06/16	
Description: Willard Street looking south.		

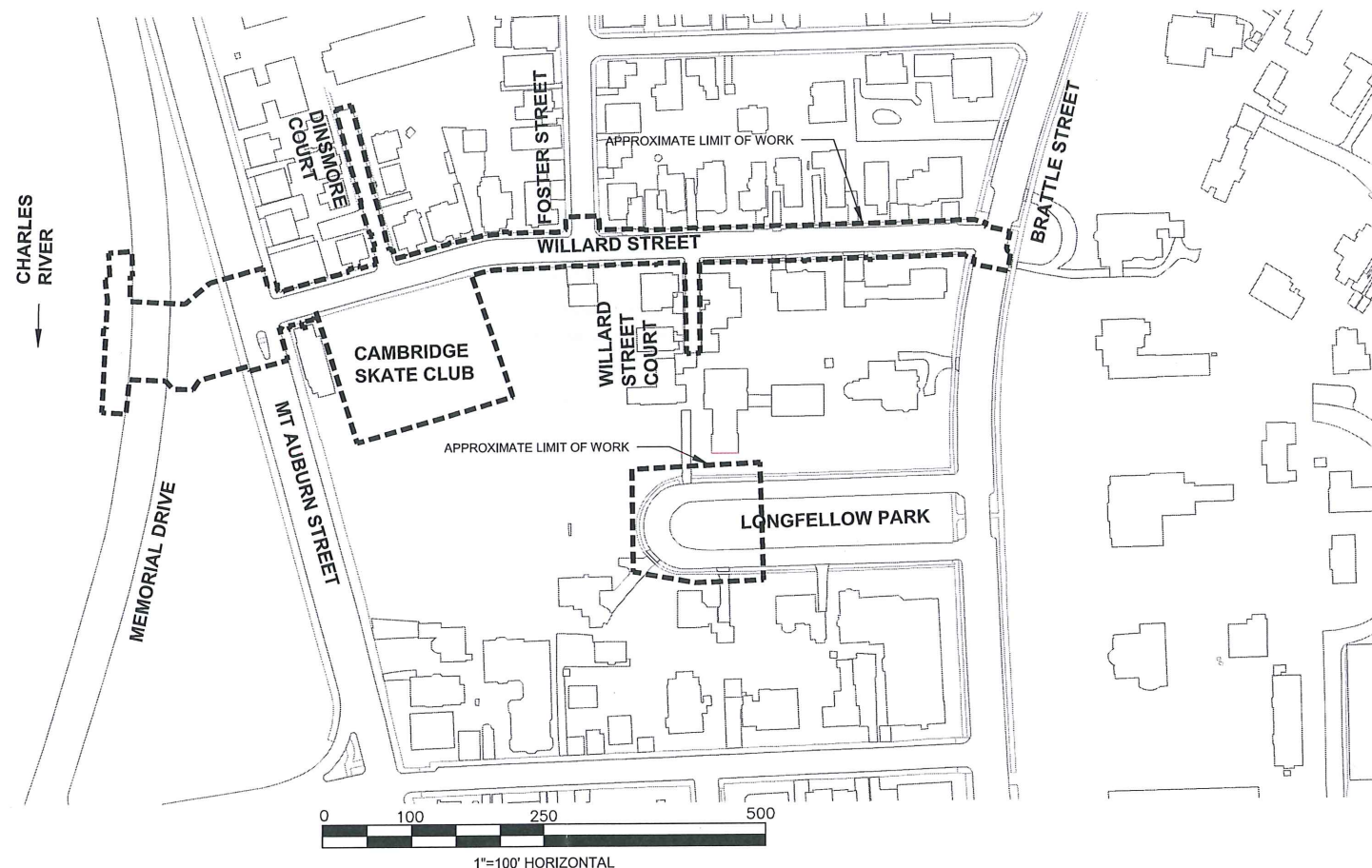
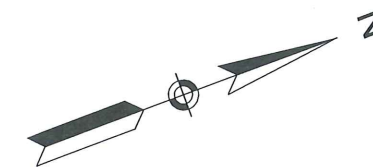
WILLARD STREET DRAINAGE IMPROVEMENTS

WILLARD STREET

50% DRAFT SUBMISSION

INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
G-1	TITLE SHEET & INDEX OF DRAWINGS
G-2	LEGEND AND ABBREVIATIONS
G-3	GENERAL NOTES
G-4	KEY PLAN
ES-1.2	EROSION AND SEDIMENT CONTROL PLAN
CD-1.3	CIVIL CONSTRUCTION DETAILS
CO-1.2	CIVIL OUTFALL PLAN, PROFILE AND SECTIONS
E-1.2	EXISTING CONDITIONS PLAN
C-1.3	CIVIL CONSTRUCTION PLAN
UC-1.2	CIVIL UTILITY CONSTRUCTION PLAN
GI-1	GREEN INFRASTRUCTURE WILLARD STREET AND SKATE CLUB
GI-2	GREEN INFRASTRUCTURE LONGFELLOW PARK
GI-3	GREEN INFRASTRUCTURE DETAILS
RG-1	ROADWAY TYPICAL SECTIONS
RG-2.3	ROADWAY CONSTRUCTION DETAILS
RC-1.2	ROADWAY CONSTRUCTION PLAN
G-1.2	GRADING PLAN
L-1.3	LANDSCAPE OUTFALL PLANS
L-4.4.2	LANDSCAPE OUTFALL DETAILS
L-5.6	LANDSCAPE PLANS



PREPARED FOR:

CITY OF CAMBRIDGE
DEPARTMENT OF PUBLIC WORKS

MARCH 22, 2018



PREPARED BY:
 HDR, INC.
 99 HIGH STREET
 SUITE 2300
 BOSTON, MA 02110

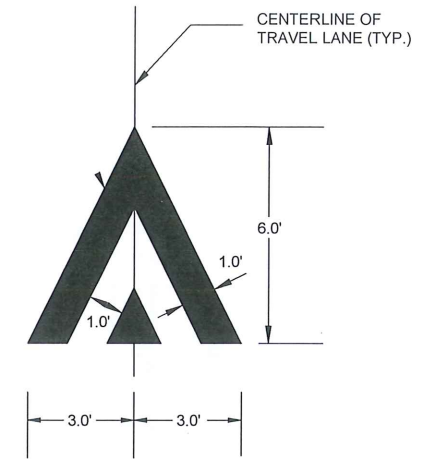


HDR ENGINEERING, INC.
 99 HIGH STREET, SUITE 2300
 BOSTON, MASSACHUSETTS 02110-2378
 (617) 357-7700

No.	Description	Date
REVISIONS		

Scale	Client	CITY OF CAMBRIDGE, MA	Sheet	G-4
Date	Project	WILLARD STREET DRAINAGE IMPROVEMENTS PROJECT	Total Sheets	
Job No.	Drawing	KEY PLAN	File No.	
Designed by				
Drawn by				
Checked by				
Approved by				

EXAMPLE OF RAISED INTERSECTION WITH CROSSWALK

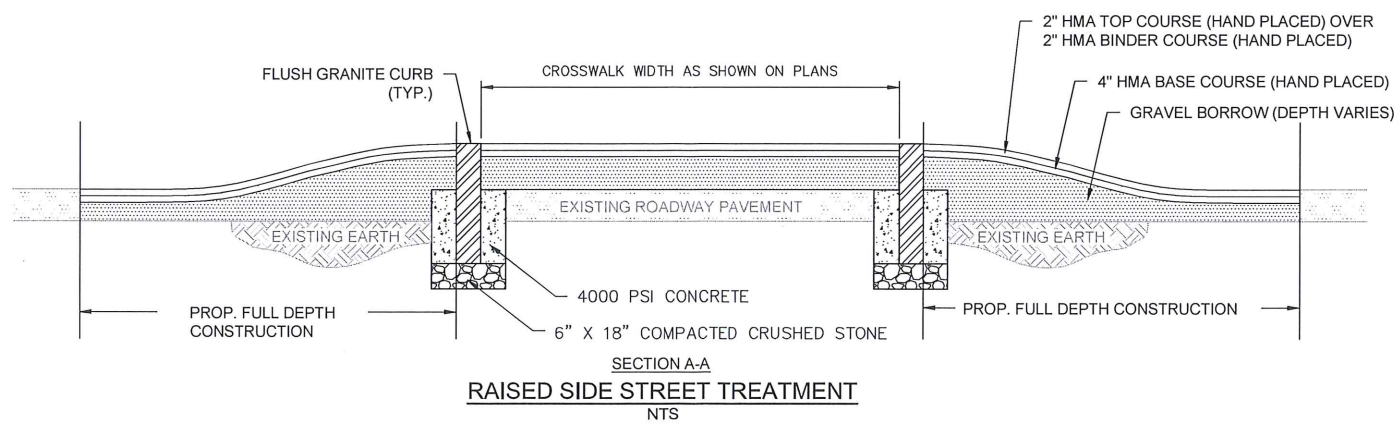


RAMP MARKING DETAIL
NTS

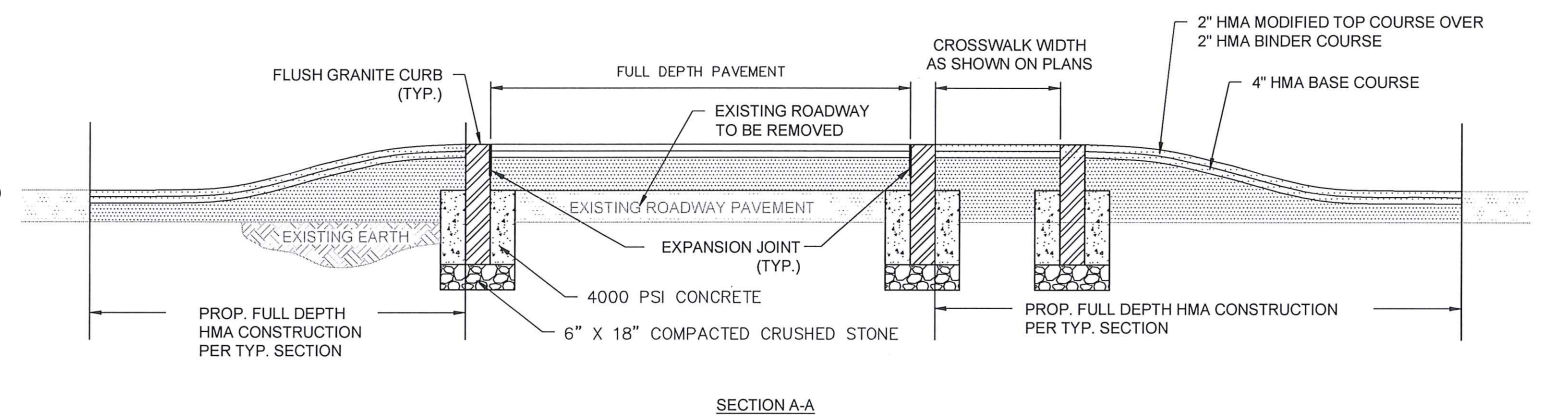
CONCRETE SIDEWALK

NOTE: SEE PLANS FOR SPECIFIC CROSSWALK AND MARKING LAYOUT.

EXAMPLE OF RAISED SIDE STREET TREATMENT



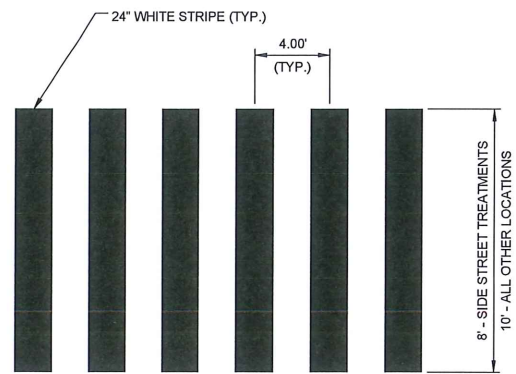
SECTION A-A
RAISED SIDE STREET TREATMENT
NTS



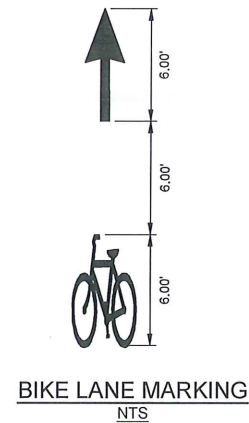
SECTION A-A
RAISED INTERSECTION WITH CROSSWALK DETAILS
(ONE CROSSWALK SHOWN - TWO CROSSWALKS SIMILAR)
NTS

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BOSTON, MASSACHUSETTS 02110-2378
(617) 357-7700

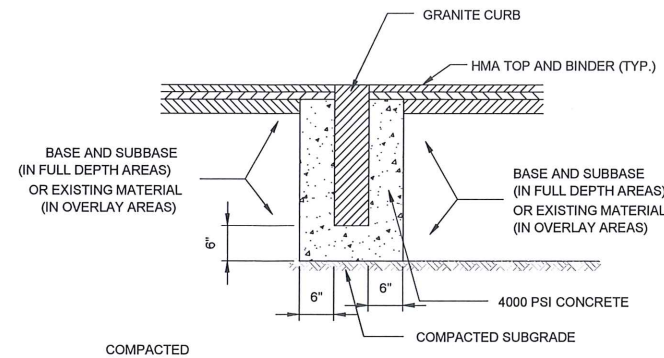
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AUGUST 2017		Date			
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		Designed by			
		Drawn by			
		Checked by			
		Approved by			
No.	Description	Date			
	REVISIONS				



CROSSWALK MARKING
NTS

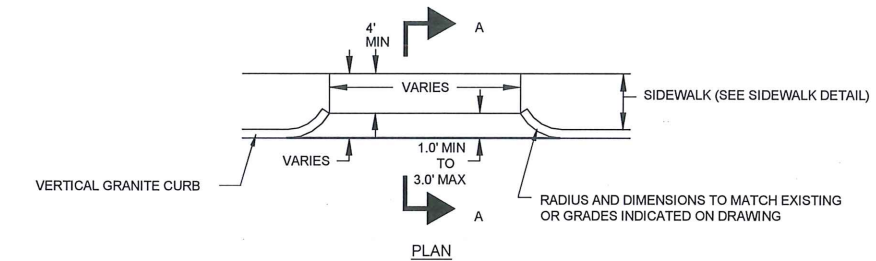
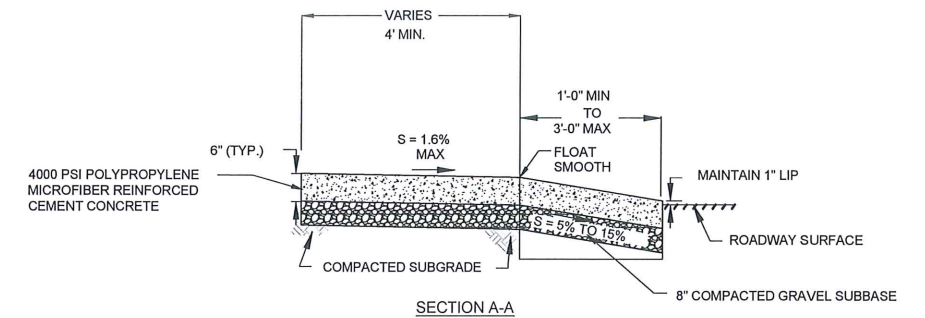


BIKE LANE MARKING
NTS

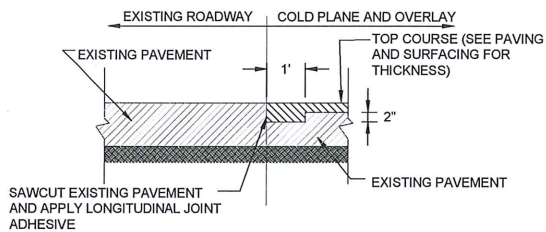


NOTE:
1. EXISTING MATERIAL SHALL BE USED IF DEEMED SUITABLE BY THE ENGINEER.

FLUSH GRANITE CURB INSTALLATION
NTS

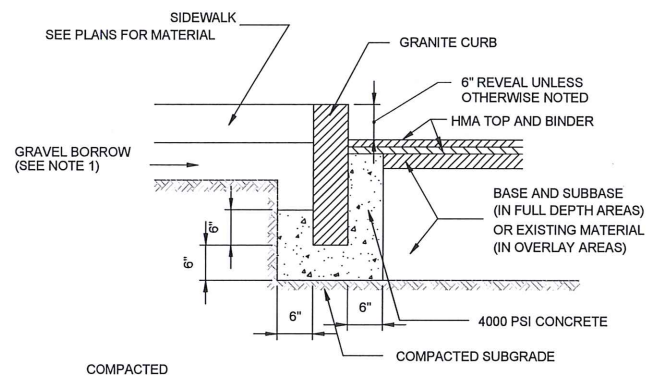


CONCRETE DRIVEWAY APRON
NTS



NOTES:
1. CLEAN ALL COLD PLANED SURFACES BEFORE APPLYING JOINT ADHESIVE AND FINAL PAVEMENT

MATCH EXISTING PAVEMENT - OVERLAY
NTS



NOTE:
1. EXISTING MATERIAL SHALL BE USED IF DEEMED SUITABLE BY THE ENGINEER.

GRANITE CURB INSTALLATION
NTS

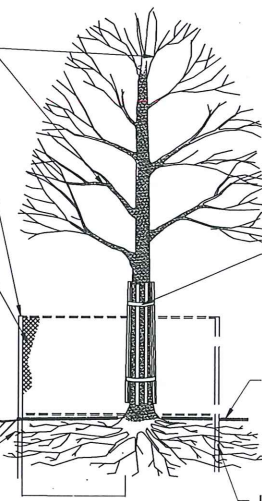
PRUNE PER ISA STANDARDS. REMOVE DEAD & DAMAGED BRANCHES. TIE BRANCHES UP TO AVOID DAMAGE FROM CONSTRUCTION EQUIPMENT.

WOODEN OR STEEL POSTS (TYPICAL)

INSTALL FENCING AT EDGE OF DRIPLINE OR AS FAR FROM TRUNK AS POSSIBLE. MIN. DISTANCE IS 6' FROM TRUNK. MAY BE POLYETHYLENE FENCE OR CHAIN LINK, MIN. 4' HIGH.

ZONE OF CONSTRUCTION IMPACT

PRUNE DAMAGED OR EXPOSED ROOTS WITH A SHARP SAW.



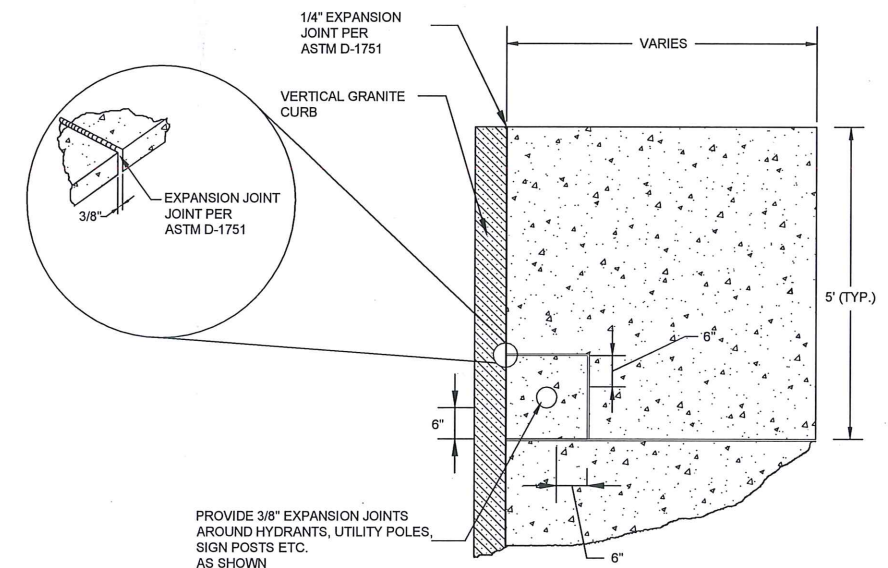
2x4 DIM. LUMBER ATTACHED W/ METAL WIRE (OPT) AT 2 LOCATIONS (MIN.). CLADDING SHALL BE 8' HIGH WITH 6" SPACING OF BOARDS. WRAP BARK W/ BURLAP PRIOR TO ARMORING.

EXISTING GRADE

LIMIT OF FENCING

PROPOSED TREE PROTECTION
NOT TO SCALE

NOTES:
1. NO STORAGE OF EQUIPMENT OR STOCKPILING OF MATERIALS WITHIN DRIPLINE.
2. COORDINATE WITH LOCAL CITY ARBORIST ON PRUNING OR ROOT CUTTING.



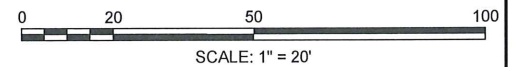
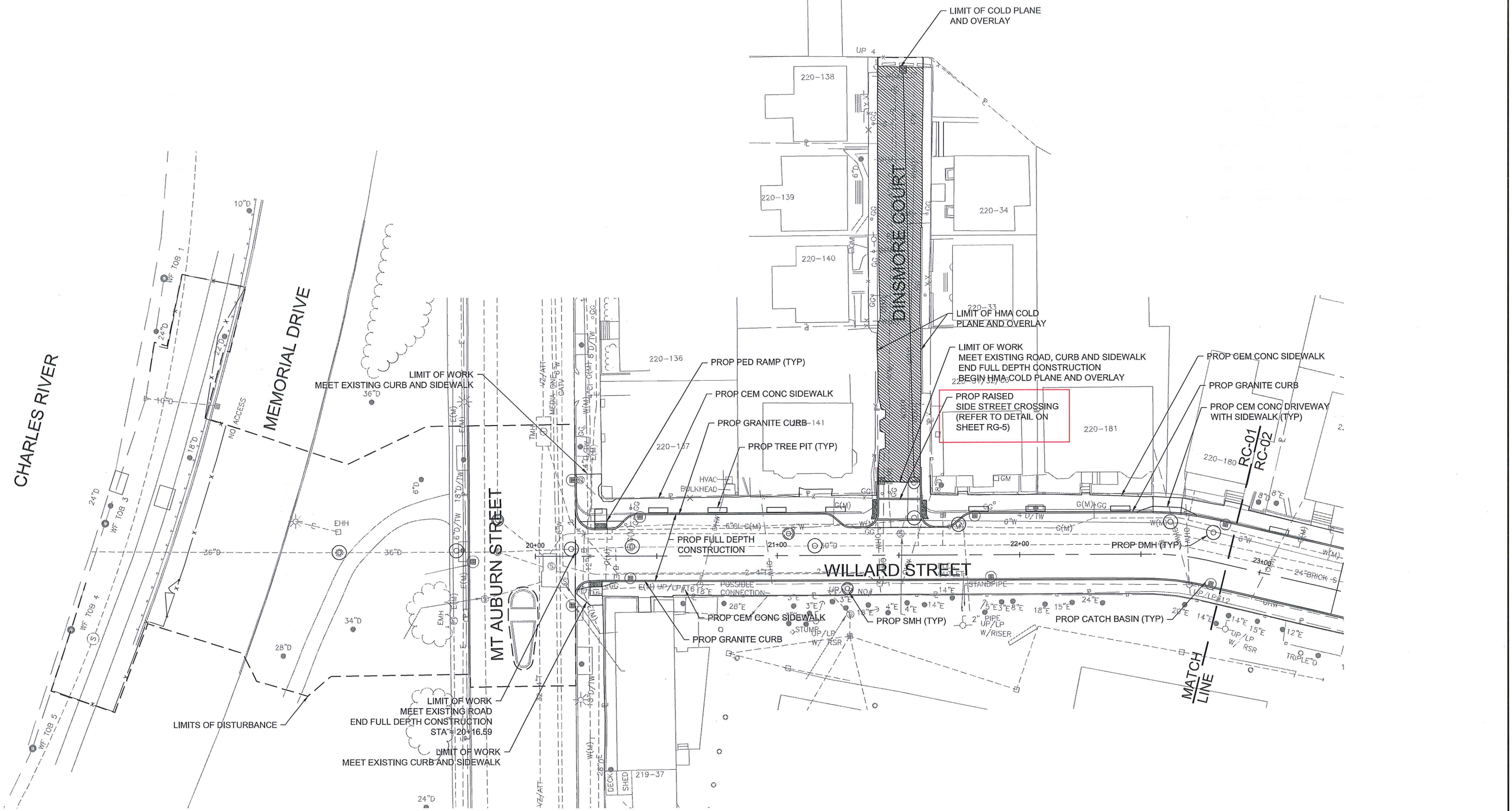
PROVIDE 3/8" EXPANSION JOINTS AROUND HYDRANTS, UTILITY POLES, SIGN POSTS ETC. AS SHOWN

SIDEWALK EXPANSION JOINT DETAIL
NTS

AS NOTED	Scale	Client	Sheet
AUGUST 2017	Date	CITY OF CAMBRIDGE, MA	RG-2
	Job No.	Project	Total Sheets
	Designed by	WILLARD STREET DRAINAGE IMPROVEMENTS PROJECT	
	Drawn by	Drawing	File No.
No.	Description	CONSTRUCTION DETAILS -1	
	REVISIONS		
	Date		
	Checked by		
	Approved by		



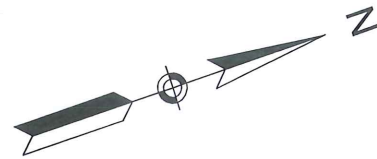
LEGEND
 HMA COLD PLANE AND OVERLAY



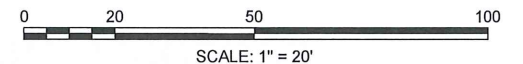
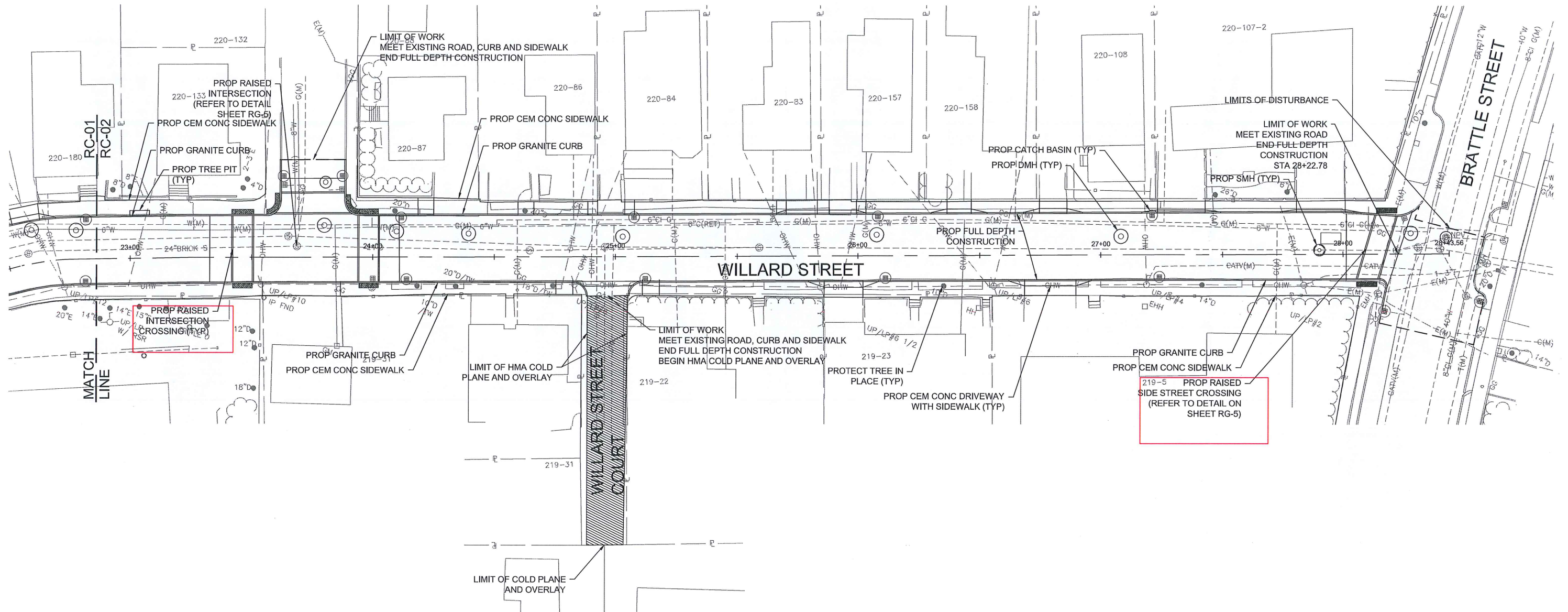
HDR
 HDR ENGINEERING, INC.
 99 HIGH STREET, SUITE 2300
 BOSTON, MASSACHUSETTS 02110-2378
 (617) 357-7700

No.	Description	Date

Scale	Client	Sheet
Date	CITY OF CAMBRIDGE, MA	RC-01
Job No.	Project	Total Sheets
Designed by	WILLARD STREET DRAINAGE IMPROVEMENTS PROJECT	
Drawn by	Drawing	File No.
Checked by	ROADWAY CONSTRUCTION PLAN - 1	
Approved by		



LEGEND
 HMA COLD PLANE AND OVERLAY



HDR ENGINEERING, INC.
 99 HIGH STREET, SUITE 2300
 BOSTON, MASSACHUSETTS 02110-2378
 (617) 357-7700

		Scale	Client	Sheet
		Date	CITY OF CAMBRIDGE, MA	RC-02
		Job No.	Project	Total Sheets
		Designed by	WILLARD STREET DRAINAGE IMPROVEMENTS PROJECT	
		Drawn by	Drawing	File No.
		Checked by	ROADWAY CONSTRUCTION PLAN - 2	
		Approved by		
No.	Description	Date		
	REVISIONS			



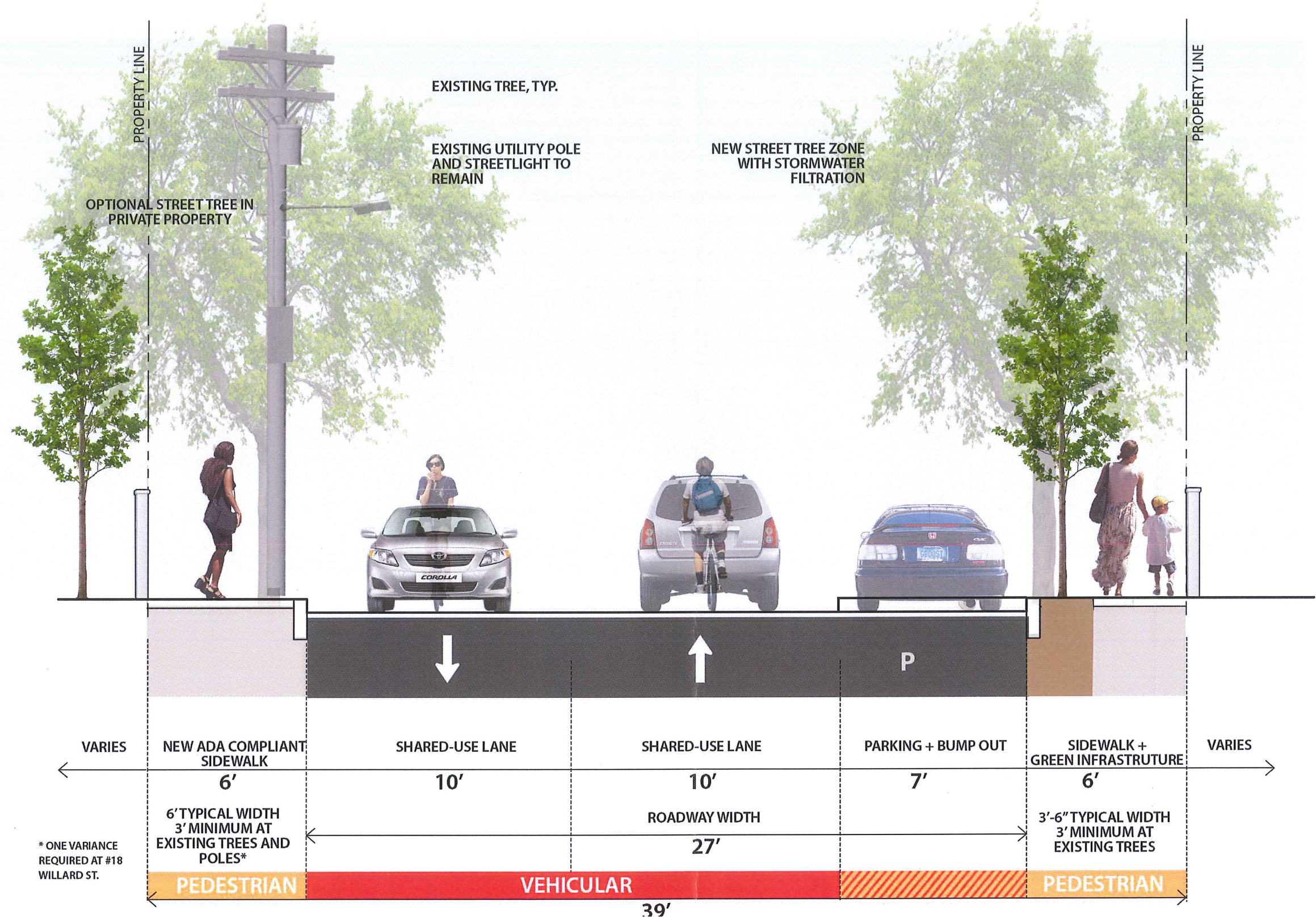
LEGEND	
	EXISTING STREET TREE
	PROPOSED STREET TREE
	PROPOSED TREE IN PRIVATE PROPERTY
	OVER HEAD WIRE
	EXISTING UTILITY POLES
	PAVERS

CONCEPTUAL LOCATION ONLY. PRIVATE PROPERTY "BACK OF SIDEWALK" TREES TO BE PLANTED ONLY WHERE REQUESTED BY PROPERTY OWNER.

PROPOSED TREE LOCATIONS

WILLARD STREET
CITY OF CAMBRIDGE, MA





PROPOSED STREET SECTION

WILLARD STREET
CITY OF CAMBRIDGE, MA

