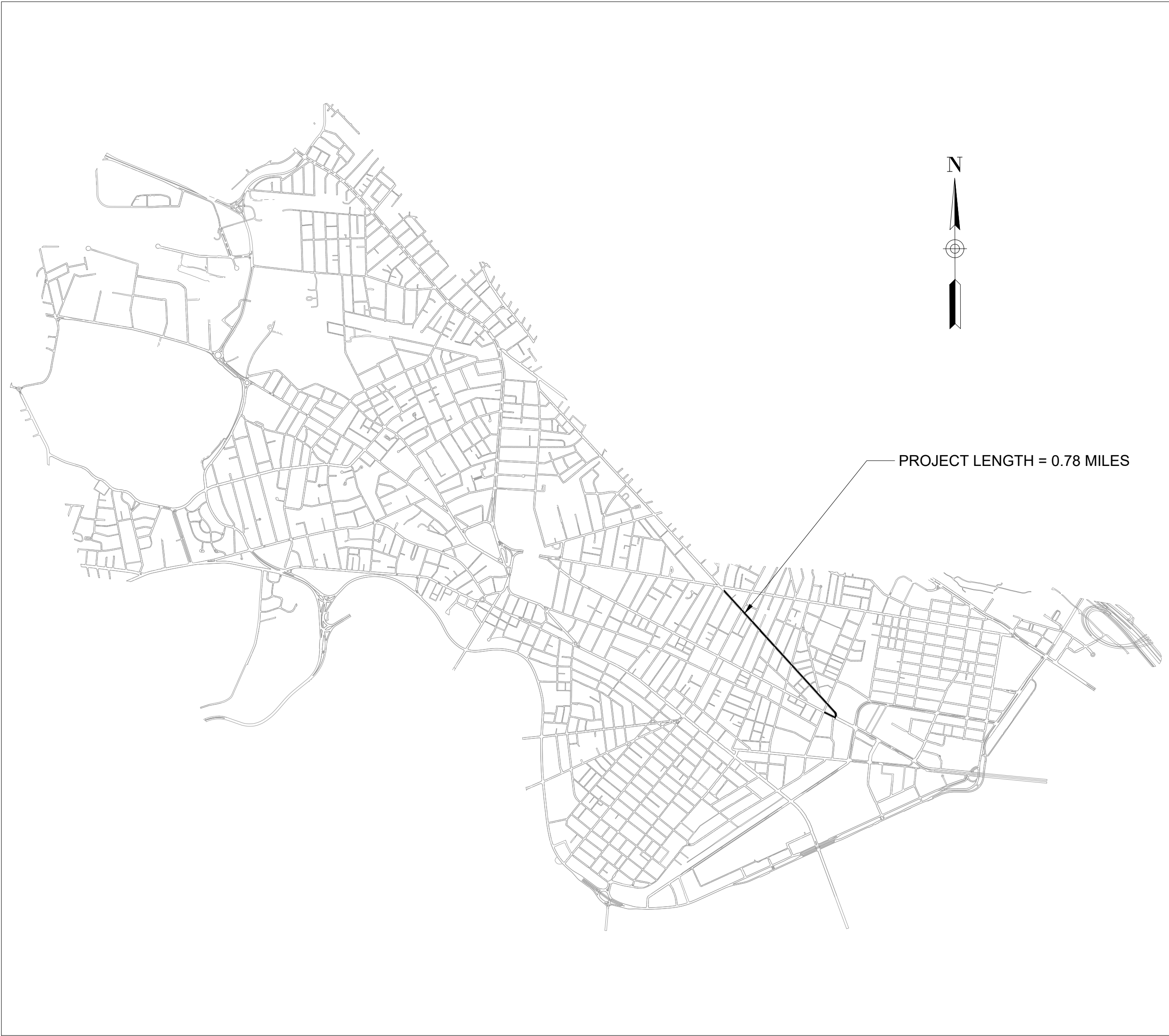


CITY OF CAMBRIDGE
HAMPSHIRE STREET CORRIDOR PROJECT
FROM BROADWAY TO INMAN STREET
SEPARATED BIKE LANES

INDEX

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ALL WORK SHALL CONFORM TO THESE PLANS, THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1988, THE SUPPLEMENTAL SPECIFICATIONS DATED JUNE 15, 2012, THE 2016 CONSTRUCTION STANDARD DETAILS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, 2009 EDITION, AND ALL INTERIM REVISIONS PUBLISHED BY FEDERAL HIGHWAY ADMINISTRATION. WHERE CONFLICTS EXIST, THE CITY OF CAMBRIDGE STANDARDS AND SPECIFICATIONS SHALL GOVERN.



LOCUS PLAN
NOT TO SCALE

PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS						<div><div>TOOLE</div><div>DESIGN</div></div> <div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div> <div>HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE</div>	TRANSPORTATION		PROJECT NO. 00122.01
	ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.							TITLE SHEET	DATE 8.14.2023	
									DRAWING NO. G-01	
									SHEET NO. 1 OF 37	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE], LICENSE NO. _____, EXPIRATION DATE: _____.	DSGN	SA								
	DR	SA								
	CHK	SR								
	APVD	MD	NO.	DATE	REVISION	BY	APVD			

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GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS. SIGN AND STRIPING WORK SHALL ALSO MEET ALL APPLICABLE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. BASE MAPPING WAS ESTABLISHED UTILIZING GIS DATA PROVIDED BY THE CITY OF CAMBRIDGE. HYDRANTS, PARKING METERS, UTILITIES AND UTILITY POLES, LIGHT POLES, SIGNAL EQUIPMENT, STREET TREES, FENCING, AND OTHER STREET FURNITURE ARE APPROXIMATE.
3. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY CONFLICTS BETWEEN EXISTING CONDITIONS AND PROPOSED FEATURES TO THE ENGINEER.
4. ALL PAVEMENT MARKINGS AND SIGNS SHALL MEET MUTCD STANDARD SPECIFICATIONS.
5. THE CONTRACTOR SHALL ERADICATE ALL EXISTING PAVEMENT MARKINGS WITHIN THE LIMITS OF WORK USING AN APPROVED, NON-DESTRUCTIVE METHOD SUCH THAT NO TRACES OF EXISTING MARKINGS REMAIN VISIBLE. THE CONTRACTOR SHALL NOT INSTALL NEW PAVEMENT MARKINGS WITHOUT FIRST ERADICATING EXISTING PAVEMENT MARKINGS, OR AS DIRECTED BY THE FIELD ENGINEER.
6. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS, AND FEATURES ADJACENT TO THE LIMITS OF WORK, AS DIRECTED BY THE ENGINEER, AND AT THE CONTRACTOR'S OWN EXPENSE, THE CONTRACTOR SHALL REPAIR, REPLACE, OR OTHERWISE MAKE GOOD ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS.
7. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK SUCH THAT THERE WILL BE NO CONFLICTS AT ANY TIME BETWEEN TRAFFIC PATTERNS AND TRAFFIC CONTROL DEVICES (TEMPORARY OR NEW) WITHIN THE LIMITS OF THE PROJECT.
8. ALL EXISTING PEDESTRIAN RAMP LOCATIONS ARE APPROXIMATE. NOT ALL EXISTING PEDESTRIAN RAMPS HAVE BEEN REVIEWED FOR ADA COMPLIANCE.
9. THE MINIMUM HEIGHT, MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK, SHALL BE 7', THE MINIMUM LATERAL OFFSET, MEASURED FROM THE EDGE OF THE SIGN TO THE FACE OF THE CURB, SHALL BE 1'.
10. NEW SIGNS SHALL BE FULLY INSTALLED AT THE SAME TIME OR PRIOR TO THE INSTALLATION OF NEW PAVEMENT MARKINGS. SIGNS CONFLICTING WITH THE EXISTING PAVEMENT MARKINGS SHALL BE COVERED UNTIL THE FINAL PAVEMENT MARKINGS ARE INSTALLED ONCE THE PAVEMENT MARKINGS ARE INSTALLED, THE SIGNS SHALL BE PROMPTLY UNCOVERED.
11. ALL PARKING REGULATION SIGNS (EXISTING OR PROPOSED) SHALL BE INSTALLED AT 45 DEGREE ANGLE RELATIVE TO THE CURB LINE UNLESS OTHERWISE NOTED IN THE PLANS. ALL OTHER TRAFFIC-RELATED SIGNS (EXISTING OR PROPOSED) SHALL BE INSTALLED AT A 90 DEGREE ANGLE TO THE CURB, UNLESS OTHERWISE NOTED IN THE PLANS.
12. FLEXPOSTS TO BE CENTERED IN BUFFER SPACE UNLESS OTHERWISE NOTED.
13. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH ARE A RESULT OF THE CONTRACTOR'S ACTIVITIES OR METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGED UTILITIES AND RESTORE SERVICE IN A TIMELY MANNER, PRIOR TO PROCEEDING WITH CONSTRUCTION, AT THE CONTRACTOR'S EXPENSE.
14. WHERE AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
15. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE.
16. THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED USING NEW MATERIALS, REMOVING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND STACK" (R&S), OR, WHERE APPLICABLE, RE-USING EXISTING MATERIALS IDENTIFIED AS "REMOVE AND RESET" (R&R).
17. THE TERM "MEET EX" MEANS TO MEET BOTH THE EXISTING HORIZONTAL ALIGNMENT AND ELEVATION.
18. STRIPED PARKING SPACES SHALL MAINTAIN A MINIMUM DISTANCE OF 4' FROM ALL DRIVEWAYS UNLESS OTHERWISE NOTED. CENTER PARKING SPACES BETWEEN DRIVEWAYS WHERE APPLICABLE.
19. PARKING AREAS SHOWN ARE APPROXIMATE LIMITS OF PARKING BASED UPON EXISTING SIGNED REGULATIONS. DRIVEWAYS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND NOT ALL DRIVEWAYS ARE SHOWN.
20. THE CITY OF CAMBRIDGE IS RESPONSIBLE FOR THE INSTALLATION AND RELOCATION OF ALL PARKING METERS.
20. THE PREPARER OF THESE PLANS HAS NO ROLE IN THE OVERSIGHT OR OTHERWISE IN THE IMPLEMENTATION OF THESE PLANS.

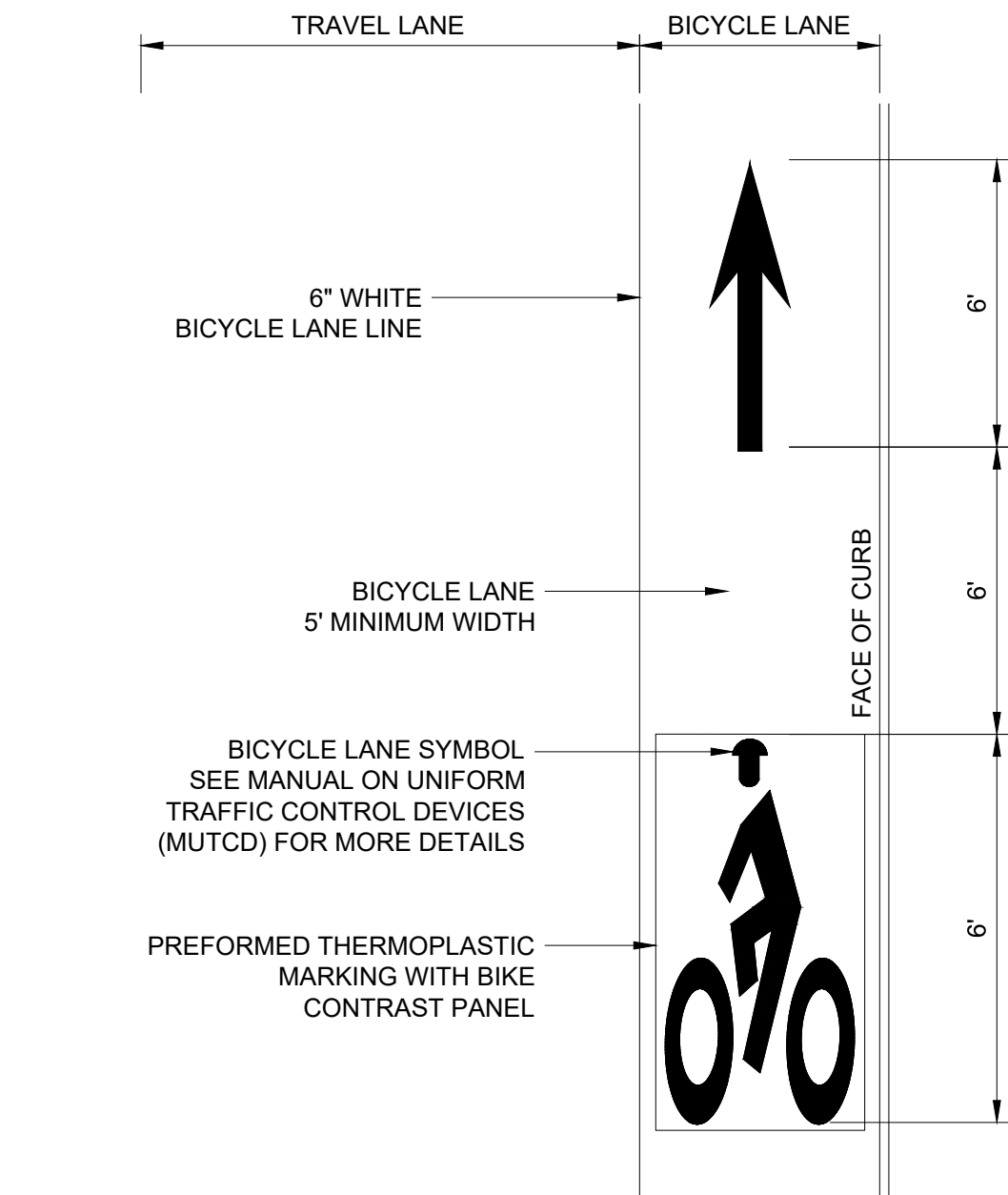
LEGEND AND ABBREVIATIONS

EXISTING	PROPOSED	
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		12" STOP LINE (UNLESS OTHERWISE NOTED)
		CROSSWALK
		4" DOUBLE YELLOW LINE
		4" DOTTED DOUBLE YELLOW LINE
		6" SOLID WHITE LINE
		6" SOLID YELLOW LINE
		6" BROKEN WHITE LINE
		6" BROKEN YELLOW LINE
		6" DOTTED WHITE LINE (2' LINE, 4' GAP)
		6" DOTTED YELLOW LINE (2' LINE, 4' GAP)
		6" DOUBLE WHITE LINE
		8" SOLID WHITE BIKE LANE LINE
		8" SOLID WHITE CHANNELIZATION LINE
		8" SOLID YELLOW CHANNELIZATION LINE
		SHARED LANE MARKING SYMBOL
		BIKE LANE MARKING SYMBOL
		BIKE LANE YIELD LINE
		BIKE DETECTOR SYMBOL
		BICYCLE BOX SYMBOL
		GREEN HIGH FRICTION SURFACE TREATMENT
		BEIGE HIGH FRICTION SURFACE TREATMENT
		LIMIT OF WORK
		BEGIN ERADICATION
		END ERADICATION
		ERADICATE SYMBOL
		EXISTING
		RETAIN
		MOUNT
		REMOVE AND STACK
		REMOVE AND DISPOSE
		REMOVE AND RESET
		HYDRANT
		SIGN POST
		FLEX POST
		STREET LIGHT
		DOUBLE HEAD METER
		SINGLE HEAD METER
		UTILITY POLE
		NEW OR RELOCATED SIGN

PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS						<div><div>TOOLE DESIGN</div><div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div></div>	HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE	TRANSPORTATION	PROJECT NO. 00122.01
	ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.								GENERAL NOTES & LEGEND	DATE 8.14.2023
	DSGN	SA							DRAWING NO. G-02	
	DR	SA								
	CHK	SR								
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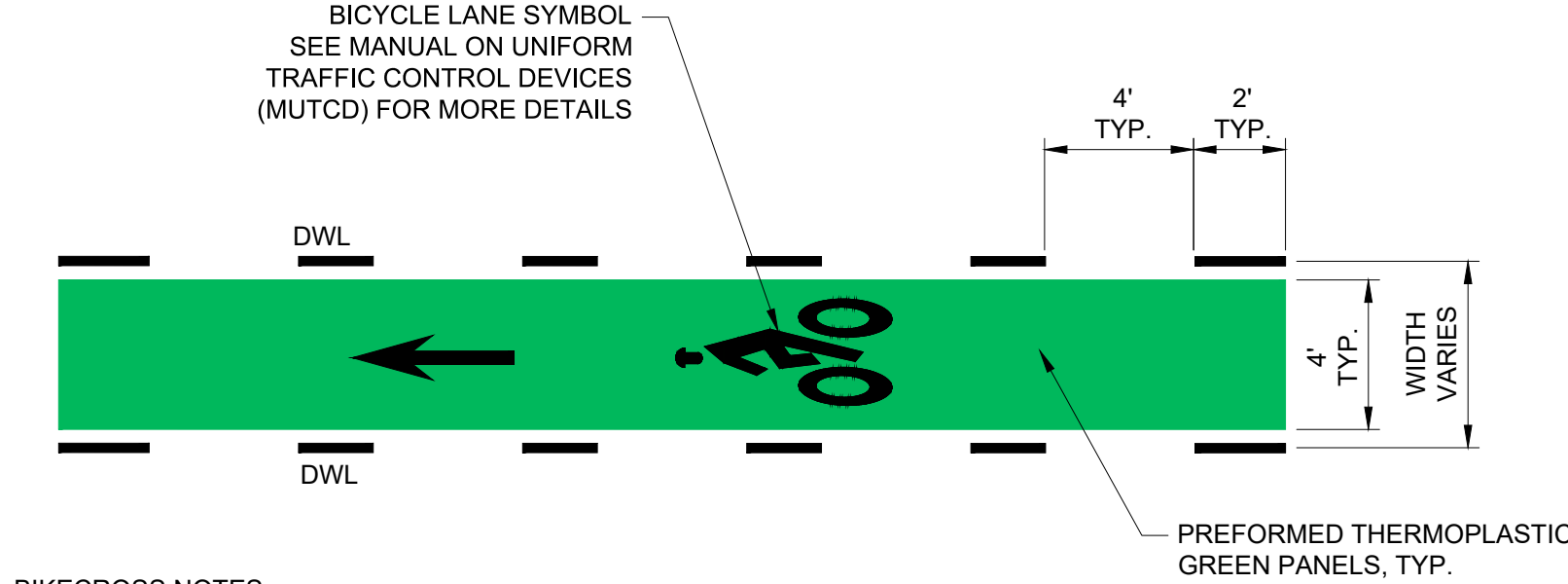
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BICYCLE LANE STRIPING NOTES:

- DO NOT PLACE SYMBOLS ON LANE LINES.
- PLACE BICYCLE LANE SYMBOLS WITHIN CENTER OF BICYCLE LANE.
- SEE PLAN SHEETS FOR SYMBOL LOCATIONS.
- TRAVEL AND PARKING LANE WIDTHS ARE AS SHOWN ON THE DRAWINGS.
- DO NOT PLACE SYMBOLS WITHIN DASHED LINES.

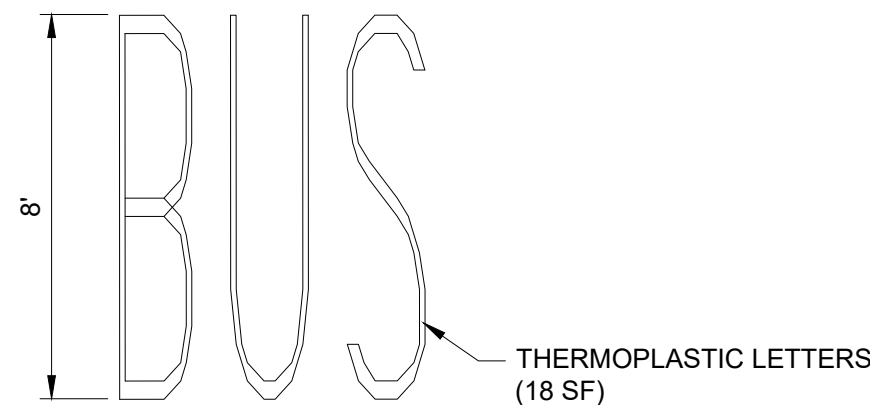
TYPICAL BICYCLE LANE MARKING SYMBOL
NOT TO SCALE



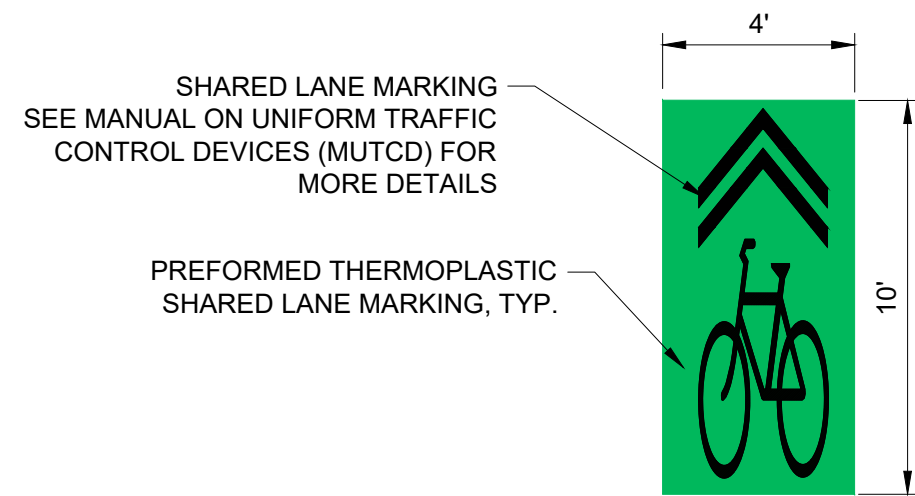
BIKECROSS NOTES:

- PREFORMED THERMOPLASTIC GREEN PANELS ARE USED AS SHOWN ON THE PLANS.
- INSTALL PREFORMED THERMOPLASTIC GREEN PANELS BETWEEN 2' DOTTED WHITE LANE LINES AS SHOWN ON PLANS.
- INSTALL PREFORMED THERMOPLASTIC GREEN PANELS SO THAT CROSSWALK MARKINGS ARE NOT DISTURBED.
- INSTALL PREFORMED THERMOPLASTIC GREEN PANELS SO NOT TO COVER ANY UTILITY MANHOLES AND/OR GATES.

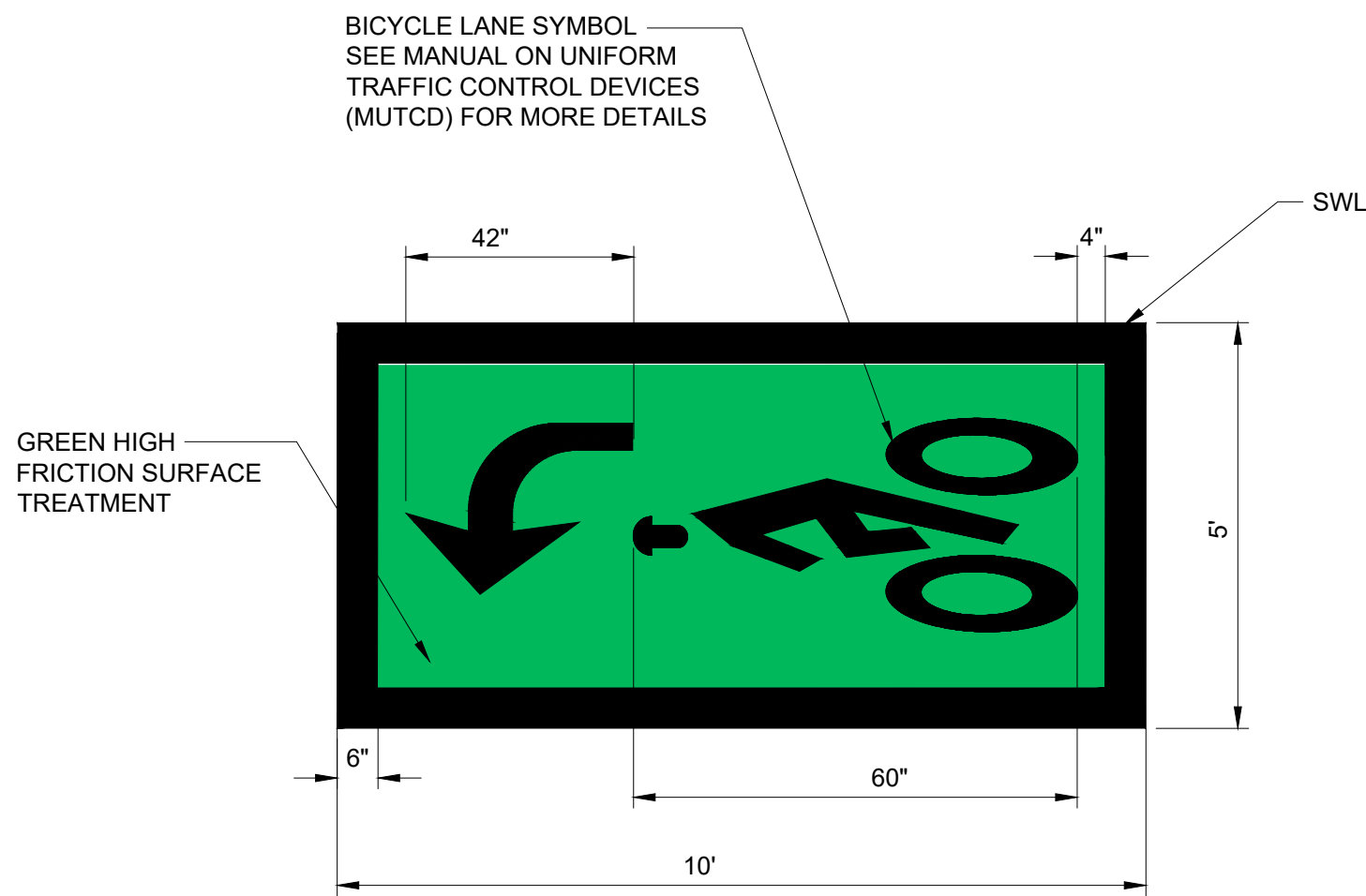
TYPICAL BIKECROSS
NOT TO SCALE



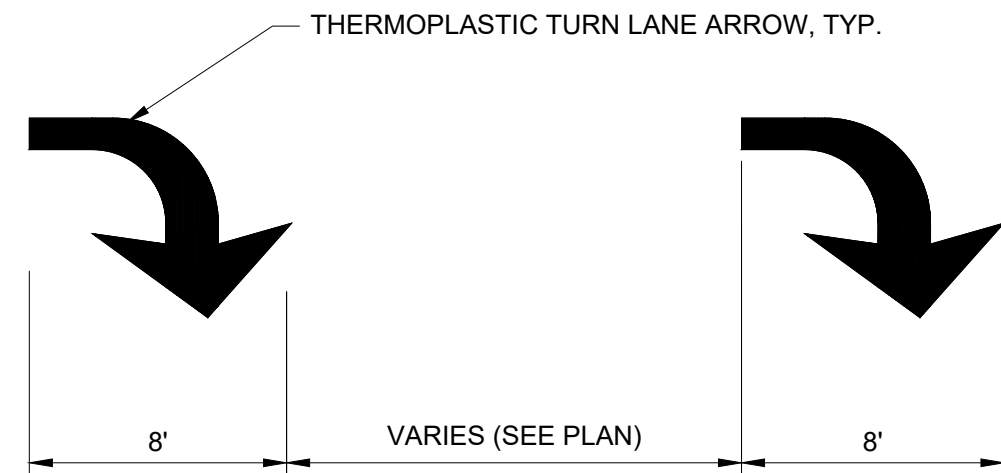
TYPICAL "BUS" MARKING
NOT TO SCALE



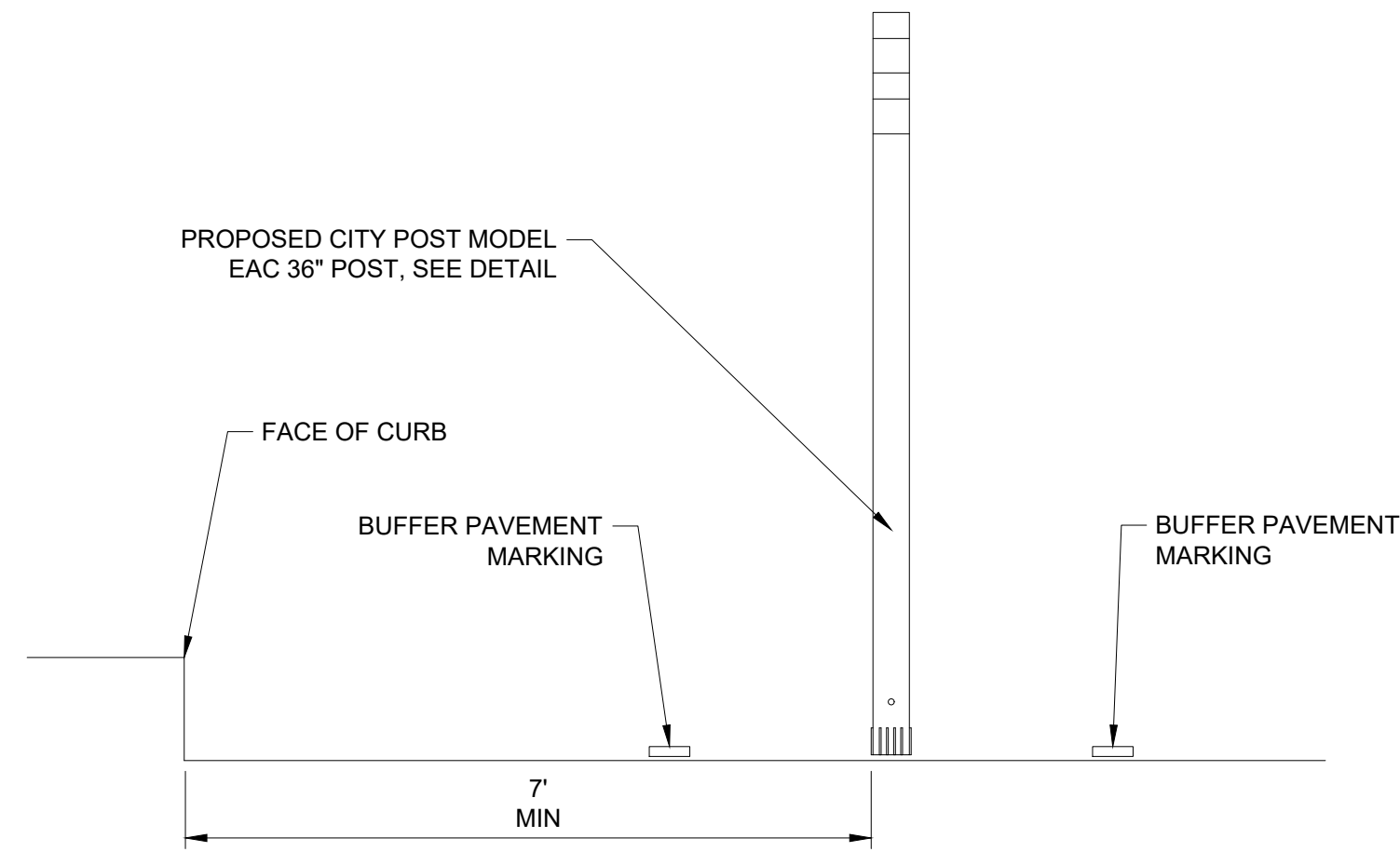
TYPICAL SHARED LANE MARKING WITH GREEN
NOT TO SCALE



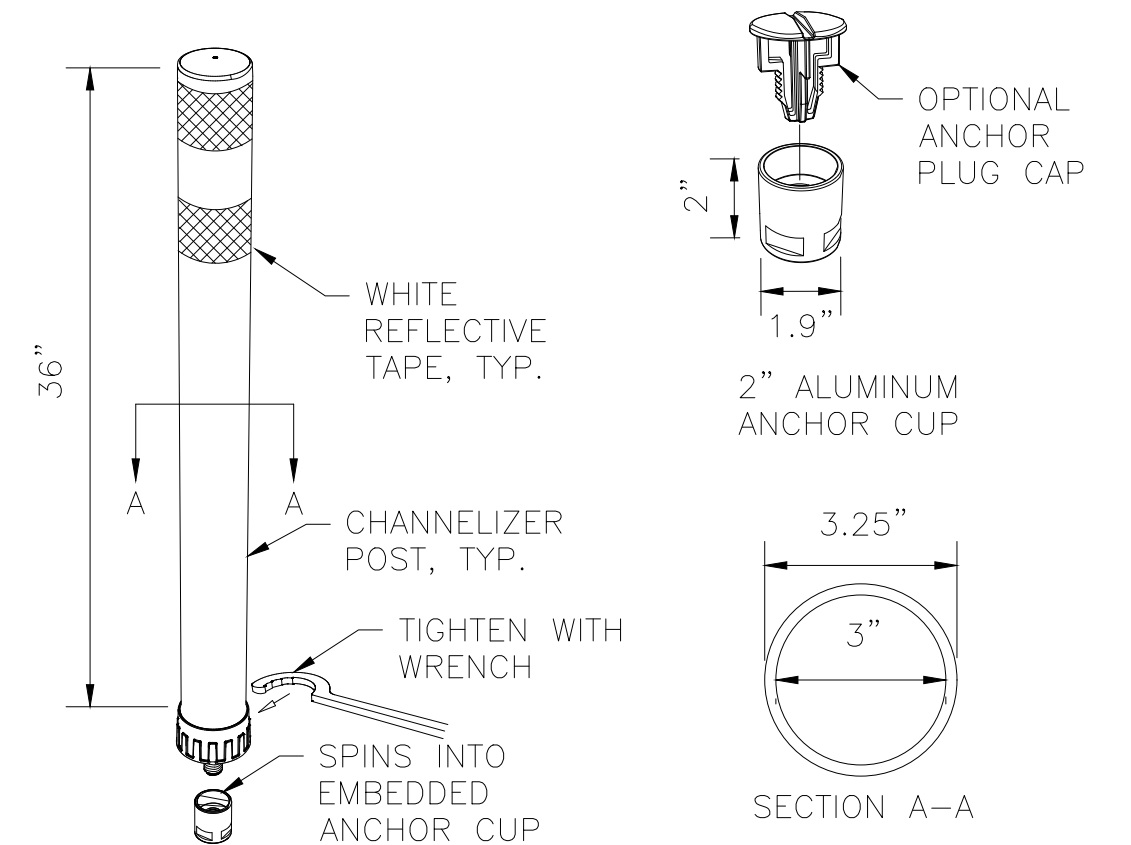
TYPICAL BIKE LEFT TURN PANEL
NOT TO SCALE



TYPICAL PAVEMENT MARKING SYMBOLS PLACEMENT
NOT TO SCALE



TYPICAL LATERAL DISTANCE OF FLEXPOST FROM CURB
(UNLESS OTHERWISE NOTED ON PLANS)
NOT TO SCALE

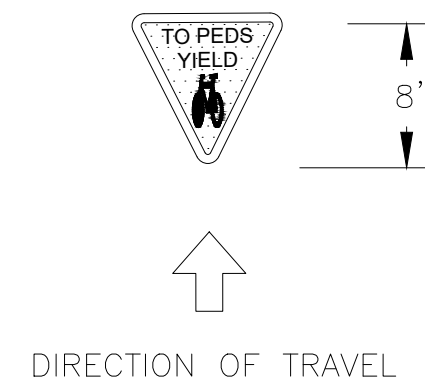


36" WHITE CORED
BASE FLEXPOST DETAIL
NOT TO SCALE

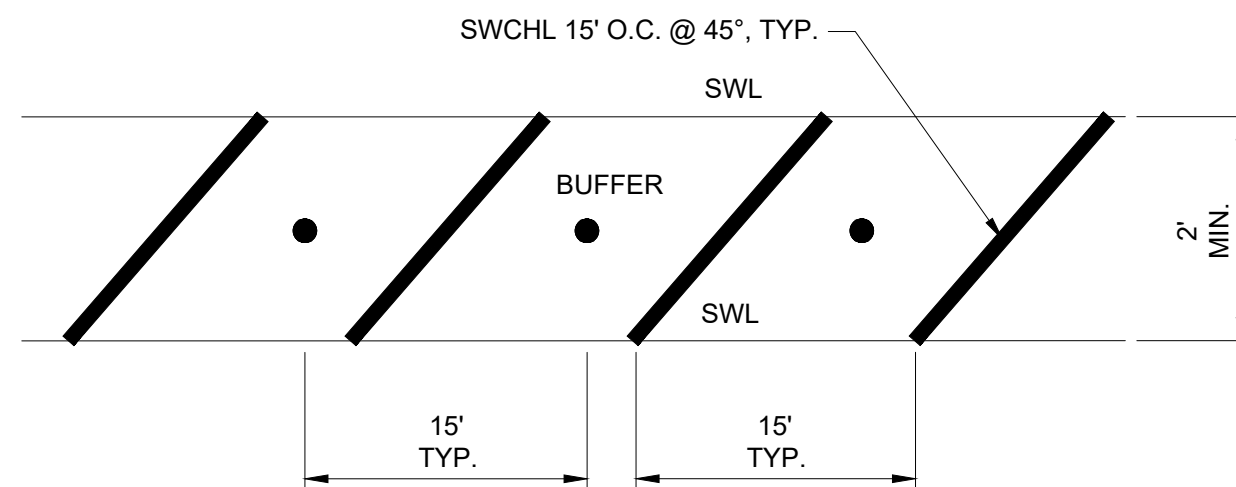
FLEXPOST NOTES:

- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DIMENSIONS, MATERIALS, AND ATTACHMENTS MAY VARY BETWEEN MANUFACTURERS.
- COLOR OF POST SHALL MATCH COLOR OF APPLICABLE EDGE LINE.
- PER CITY OF BOSTON SPECIFICATIONS FOR IN GROUND CORED BASE FLEXPOST.

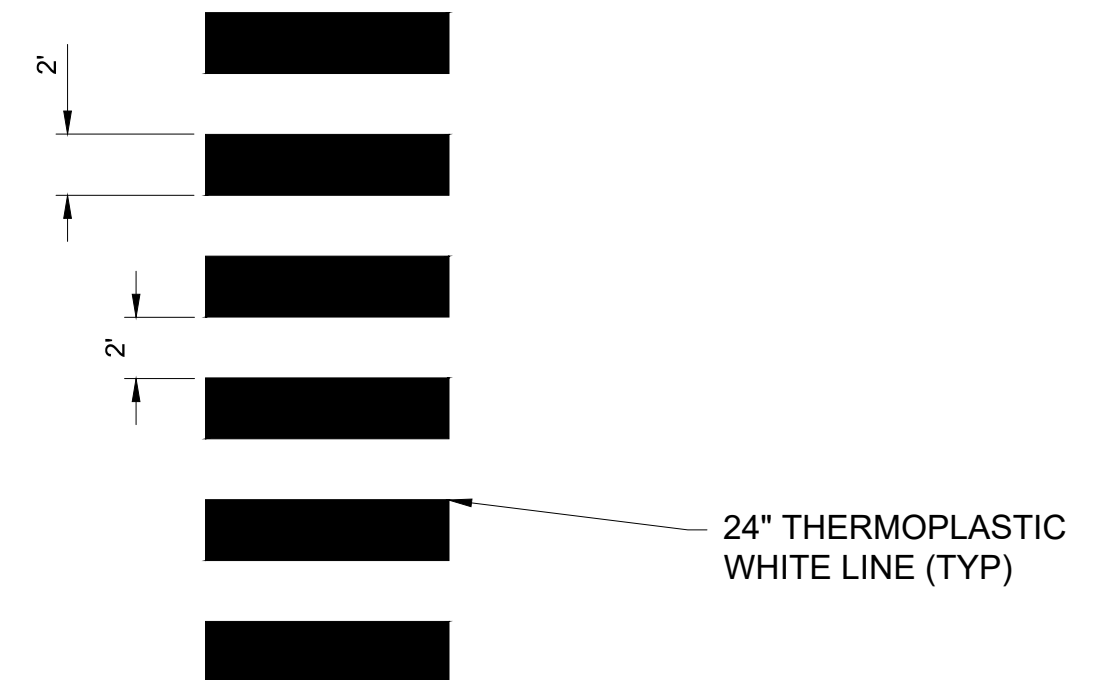
CITY POST MODEL EAC 36" POST
NOT TO SCALE



BIKE LANE YIELD LINE PAVEMENT
MARKING DETAIL
NOT TO SCALE



BIKE LANE BUFFER DETAIL
NOT TO SCALE




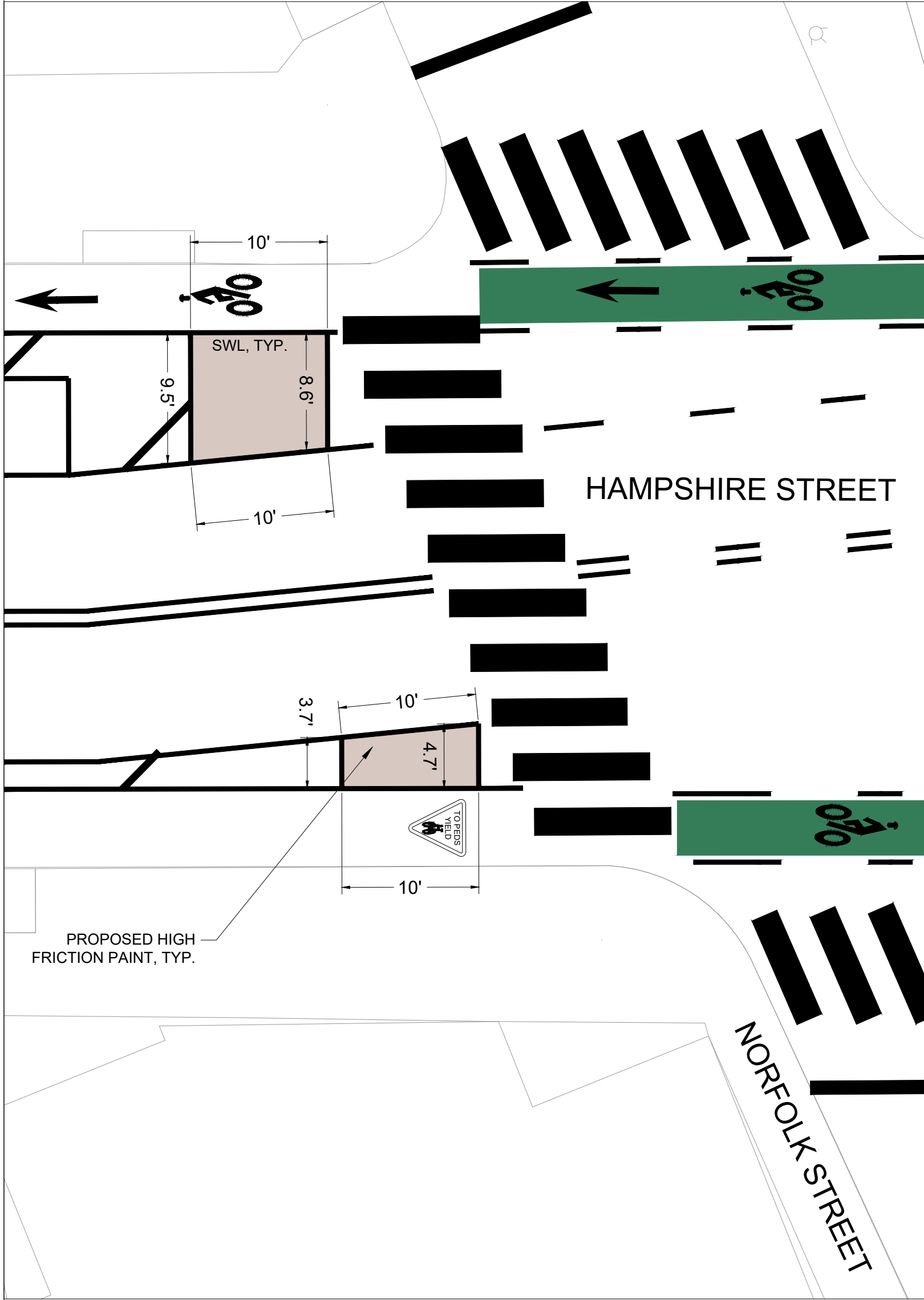
CROSSWALK NOTES:

- ALL 12" LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6" LINES) WILL BE ACCEPTED.
- LAYOUT OF CROSSWALKS SHALL BE APPROVED BY THE ENGINEER PRIOR TO APPLICATION.
- CROSSWALK BARS SHALL BE PLACED OUTSIDE THE VEHICULAR WHEEL PATH WHEREVER POSSIBLE.

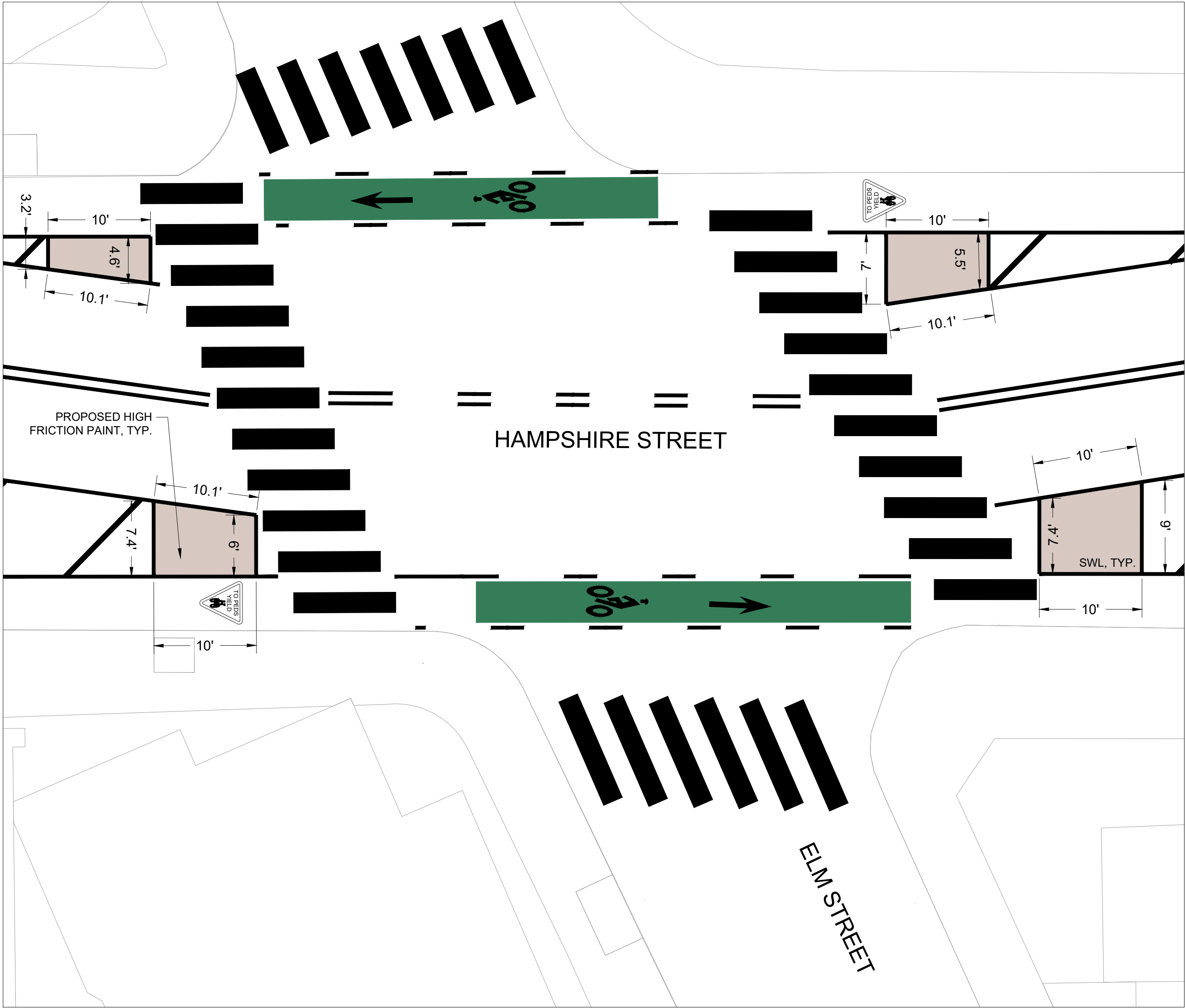
TYPICAL CROSSWALK MARKING
NOT TO SCALE

PRELIMINARY - NOT FOR CONSTRUCTION

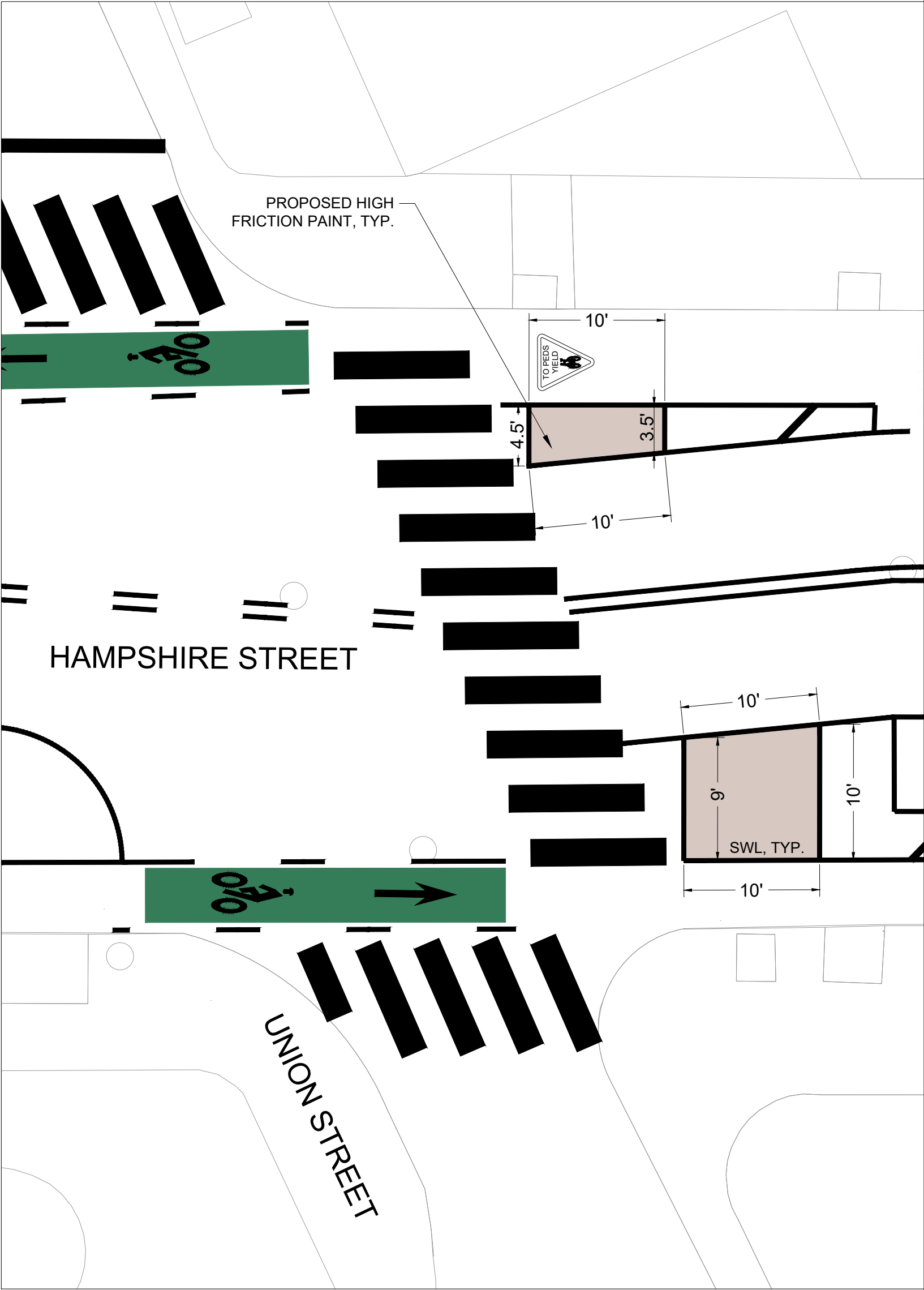
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.							<div></div> <div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div>		HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE		TRANSPORTATION		PROJECT NO. 00122.01	
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		DR		SA												
		CHK		SR												
		APVD		MD												
		NO.		DATE		REVISION		BY		APVD		DRAWING NO. CD-01				
												SHEET NO. 3 OF 37				



CURB EXTENSION DETAIL AT NORFOLK STREET
NOT TO SCALE




CURB EXTENSION DETAIL AT ELM STREET
NOT TO SCALE



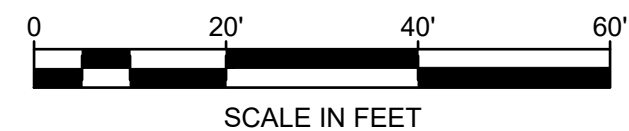
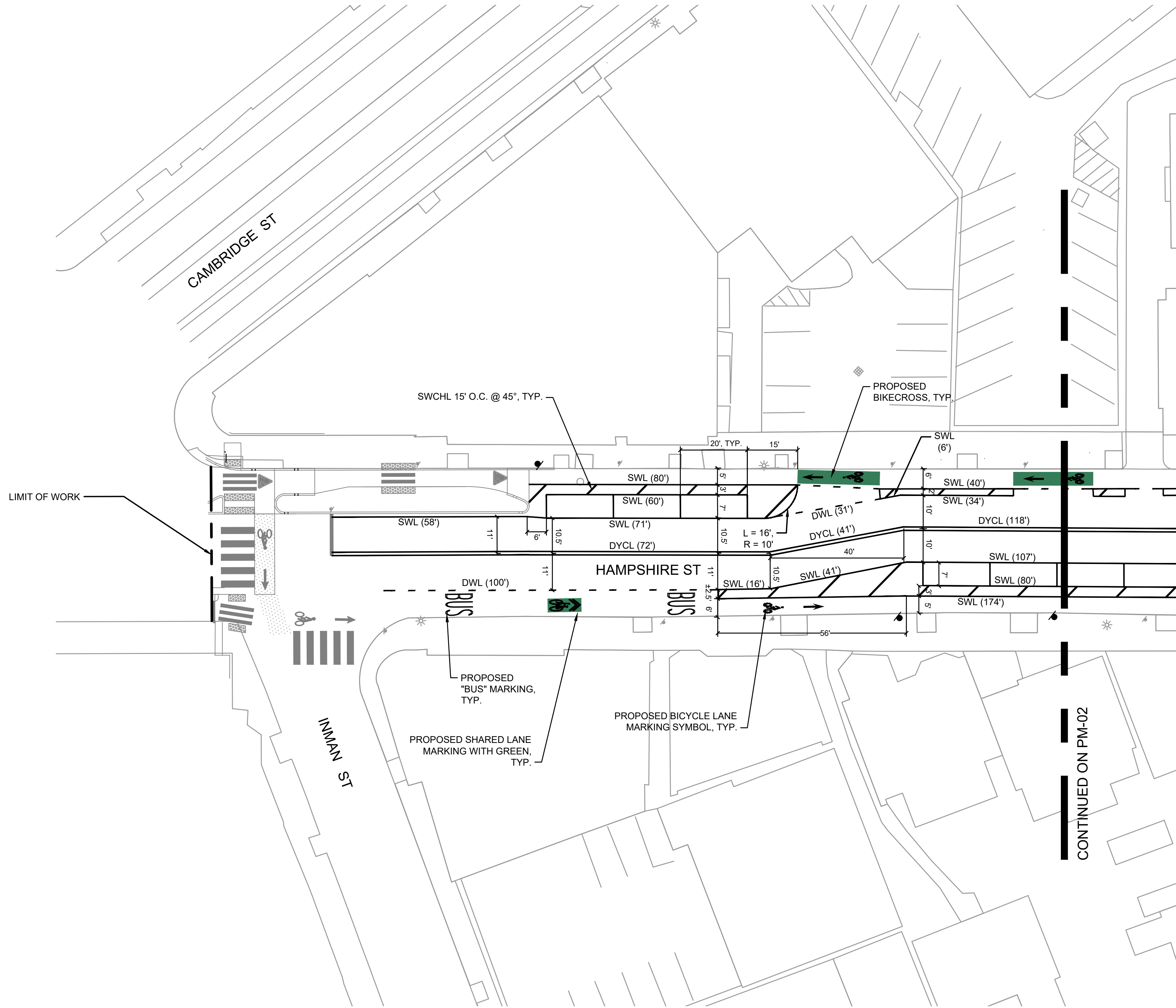
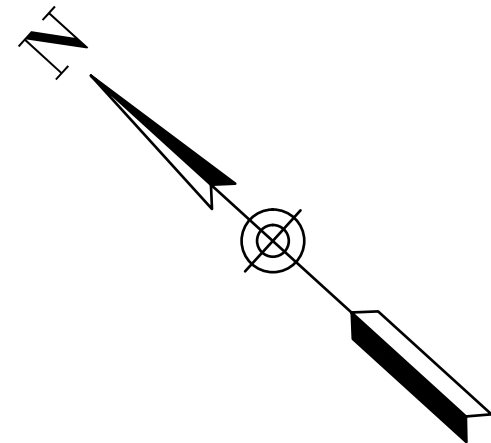
CURB EXTENSION DETAIL AT UNION STREET
NOT TO SCALE

PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS						<div></div> <div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div>	HAMPSHIRE STREET SEPARATED BIKE LANES		TRANSPORTATION	PROJECT NO. 00122.01
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	DSGN	SA							DRAWING NO. CD-02		
	DR	SA									
	CHK	SR									
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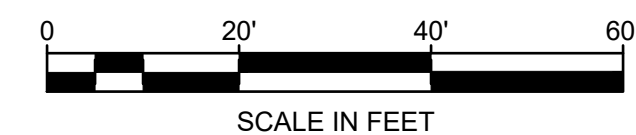
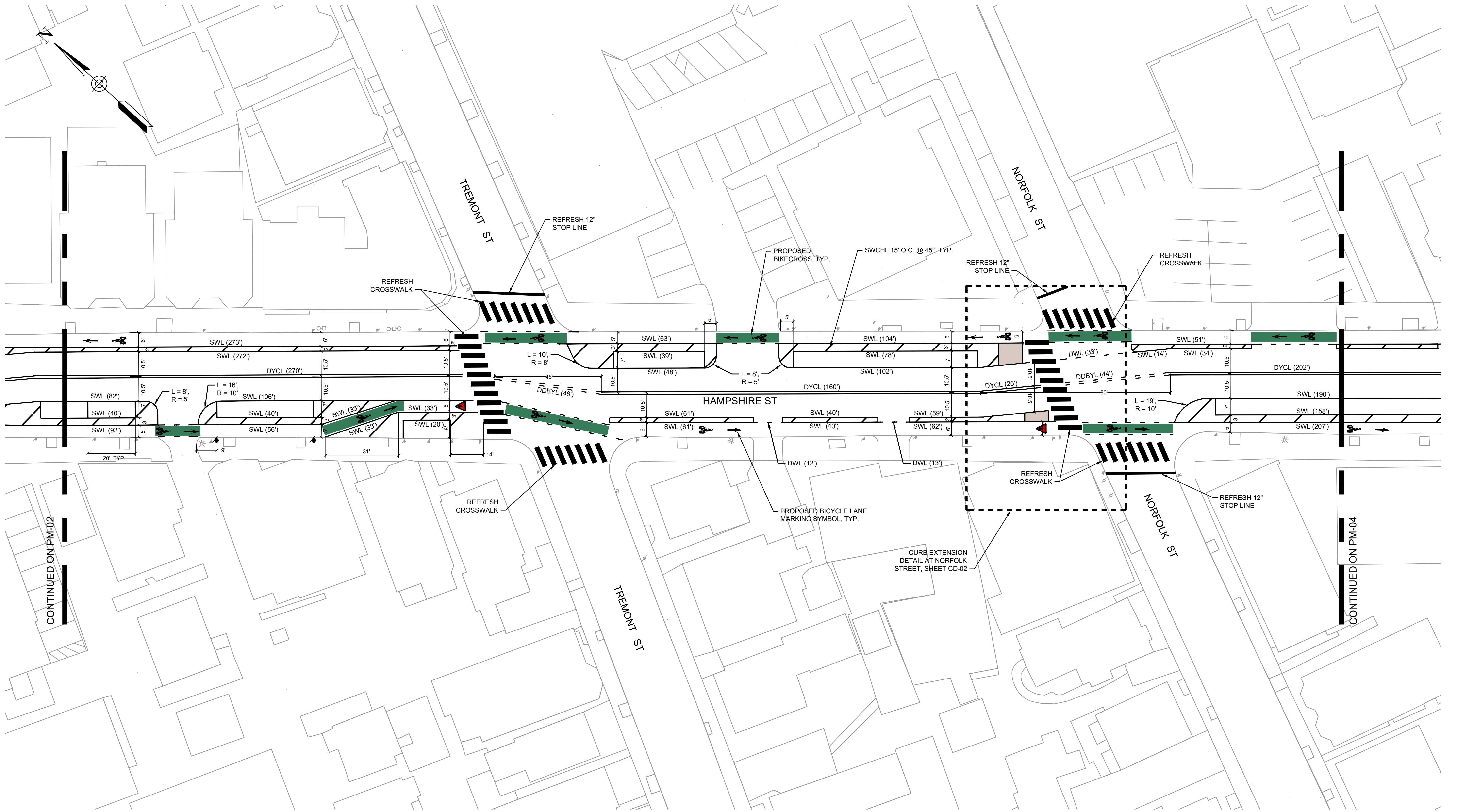
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PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS							<div>TOOLE DESIGN</div> <div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div>		HAMPSHIRE STREET SEPARATED BIKE LANES		TRANSPORTATION		PROJECT NO. 00122.01	
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		DSGN SA													DRAWING NO. PM-01	
		DR SA													SHEET NO. 5 OF 37	
		CHK SR														
		APVD MD		NO.	DATE	REVISION			BY	APVD						

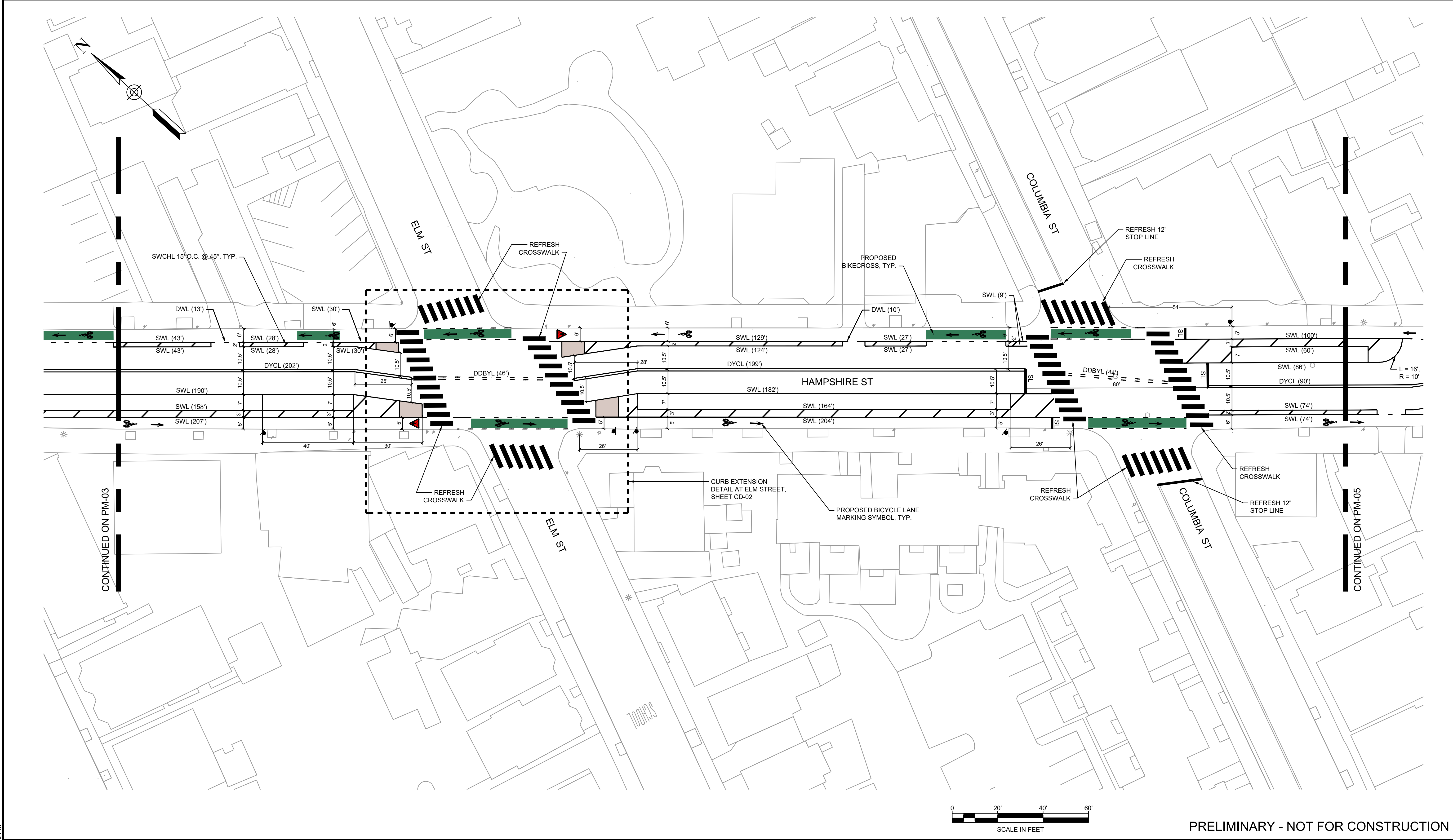
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		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.								PAVEMENT MARKING PLAN		DATE	8.14.2023
		DSGN	SA								DRAWING NO.	PM-03	
		DR	SA								SHEET NO.	7 OF 37	
		CHK	SR										
APVD	MD	NO.	DATE	REVISION	BY	APVD							

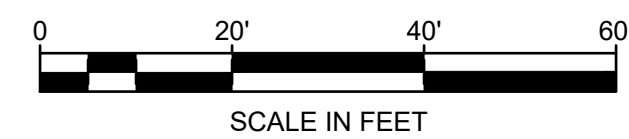
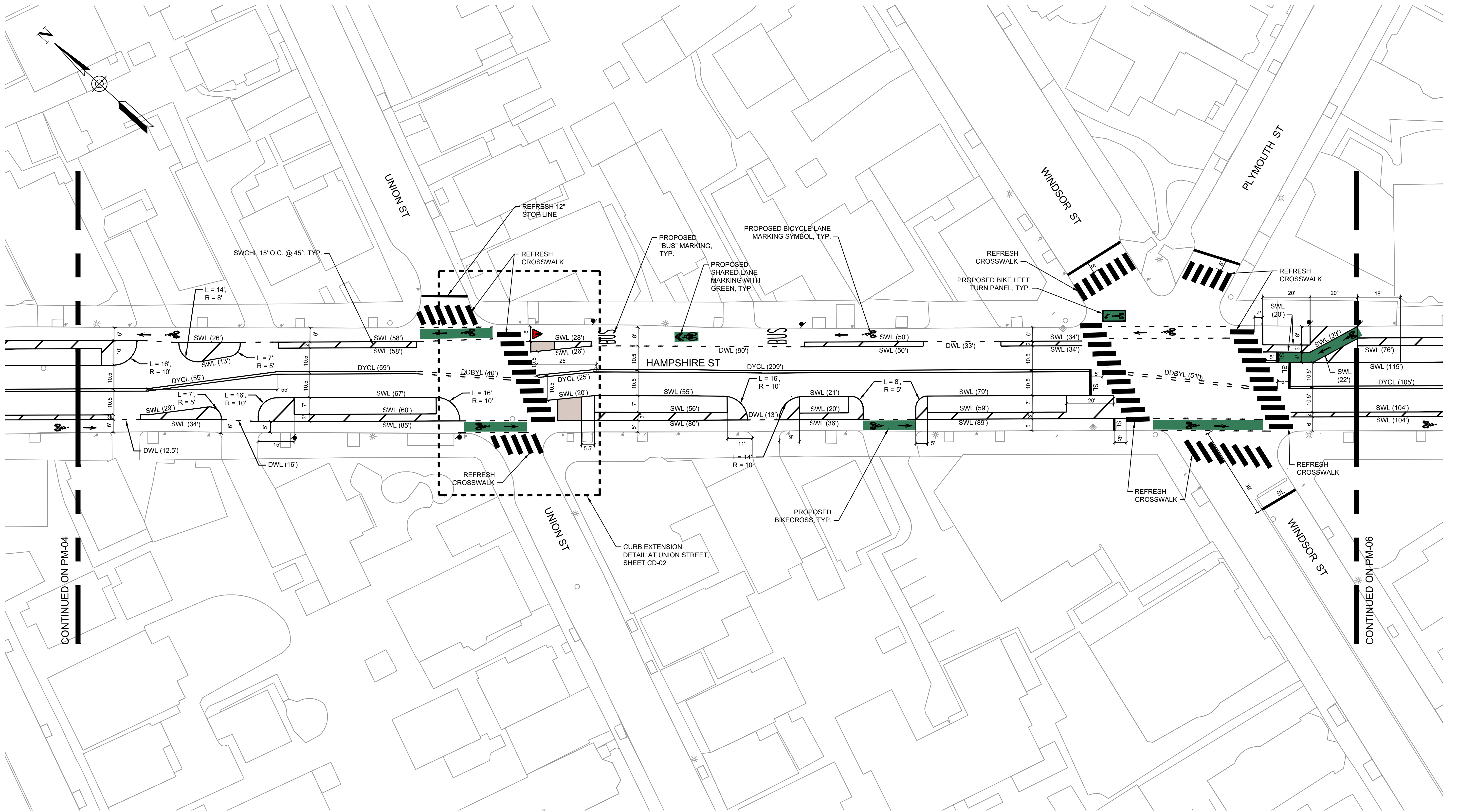
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Monday, August 14, 2023 4:56:06 PM



PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						<div><div>TOOLE DESIGN</div><div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div></div>		<div>HAMPSHIRE STREET SEPARATED BIKE LANES</div> <div>CITY OF CAMBRIDGE</div>		TRANSPORTATION		PROJECT NO. 00122.01		
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.										PAVEMENT MARKING PLAN SHEET 4 OF 8		DATE 8.14.2023		
		DSGN	SA												DRAWING NO. PM-04	
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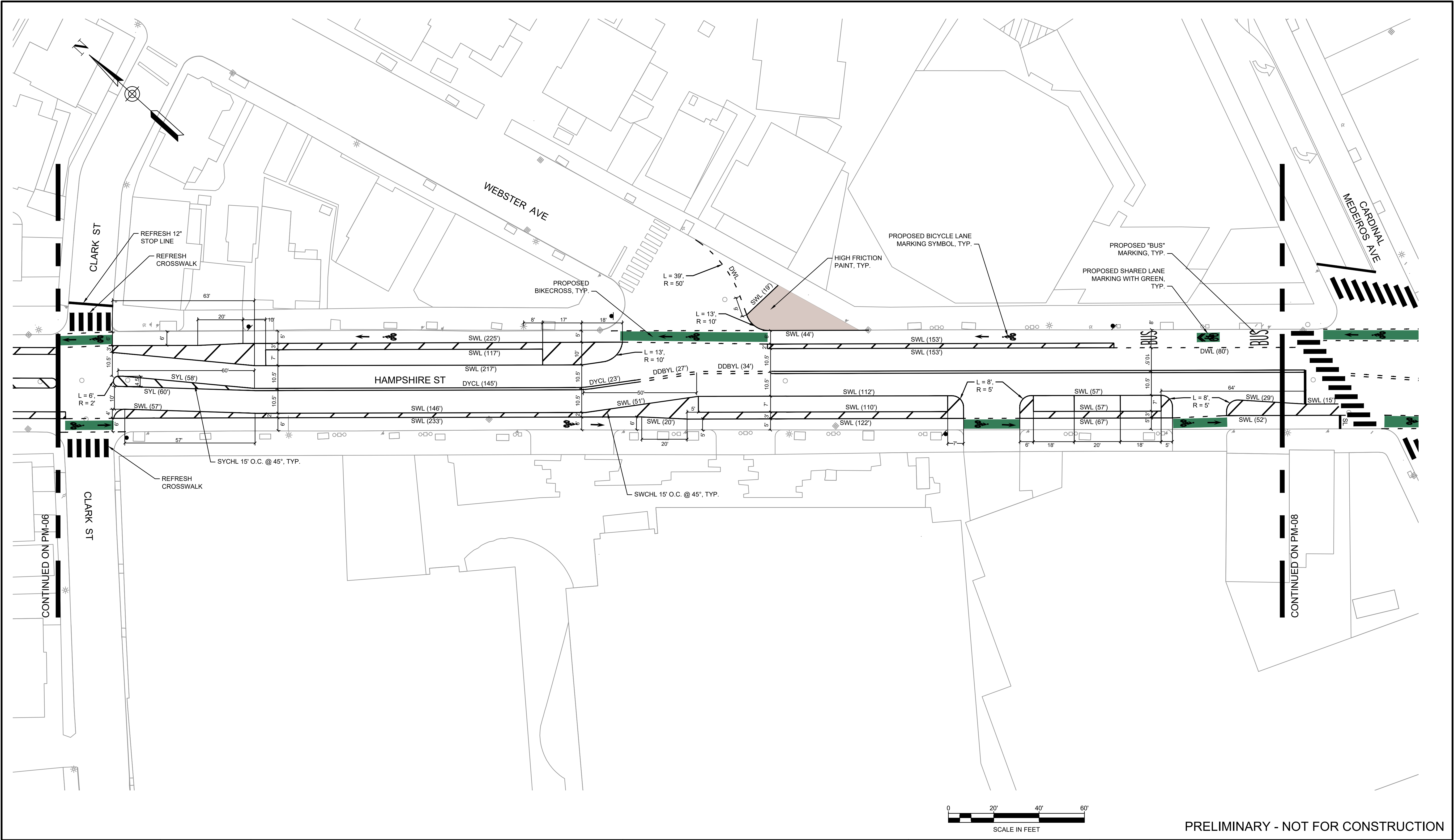
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Monday, August 14, 2023 4:56:11 PM



PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION	<div>I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.</div>	REUSE OF DOCUMENTS						<div><div>TOOLE DESIGN</div><div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div></div>	<div>HAMPSHIRE STREET SEPARATED BIKE LANES</div> <div>CITY OF CAMBRIDGE</div>	TRANSPORTATION		PROJECT NO. 00122.01	
		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.								PAVEMENT MARKING PLAN		DATE 8.14.2023	
		DSGN	SA									DRAWING NO.	PM-05
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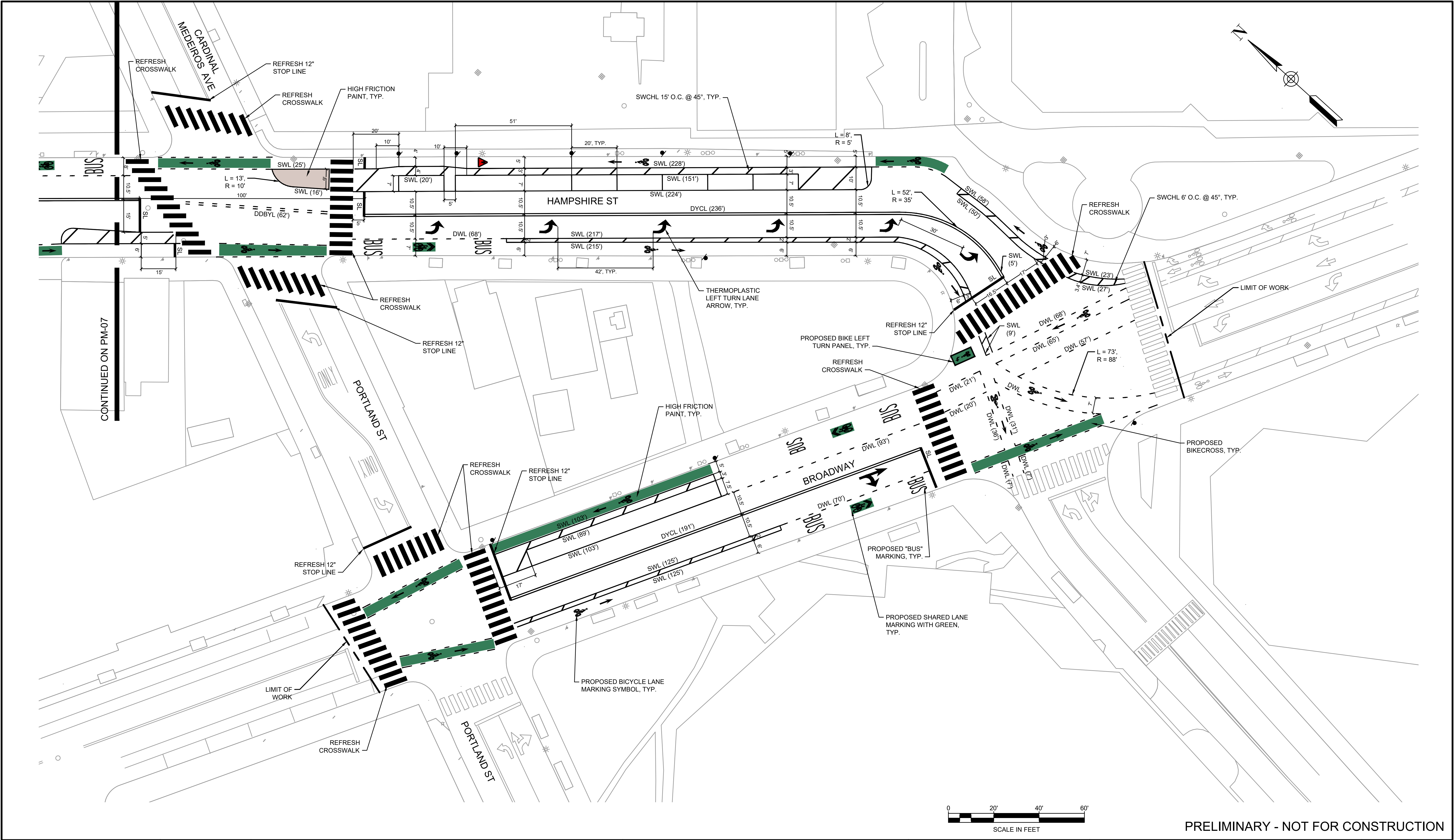
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Monday, August 14, 2023 4:56:21 PM



PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.							<div><div>TOOLE DESIGN</div><div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div></div>		HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE		TRANSPORTATION		PROJECT NO. 00122.01	
PAVEMENT MARKING PLAN SHEET 7 OF 8													DATE 8.14.2023			
		DRAWING NO. PM-07														
		SHEET NO. 11 OF 37														
		I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.		DSGN		SA										
DR				SA												
CHK				SR												
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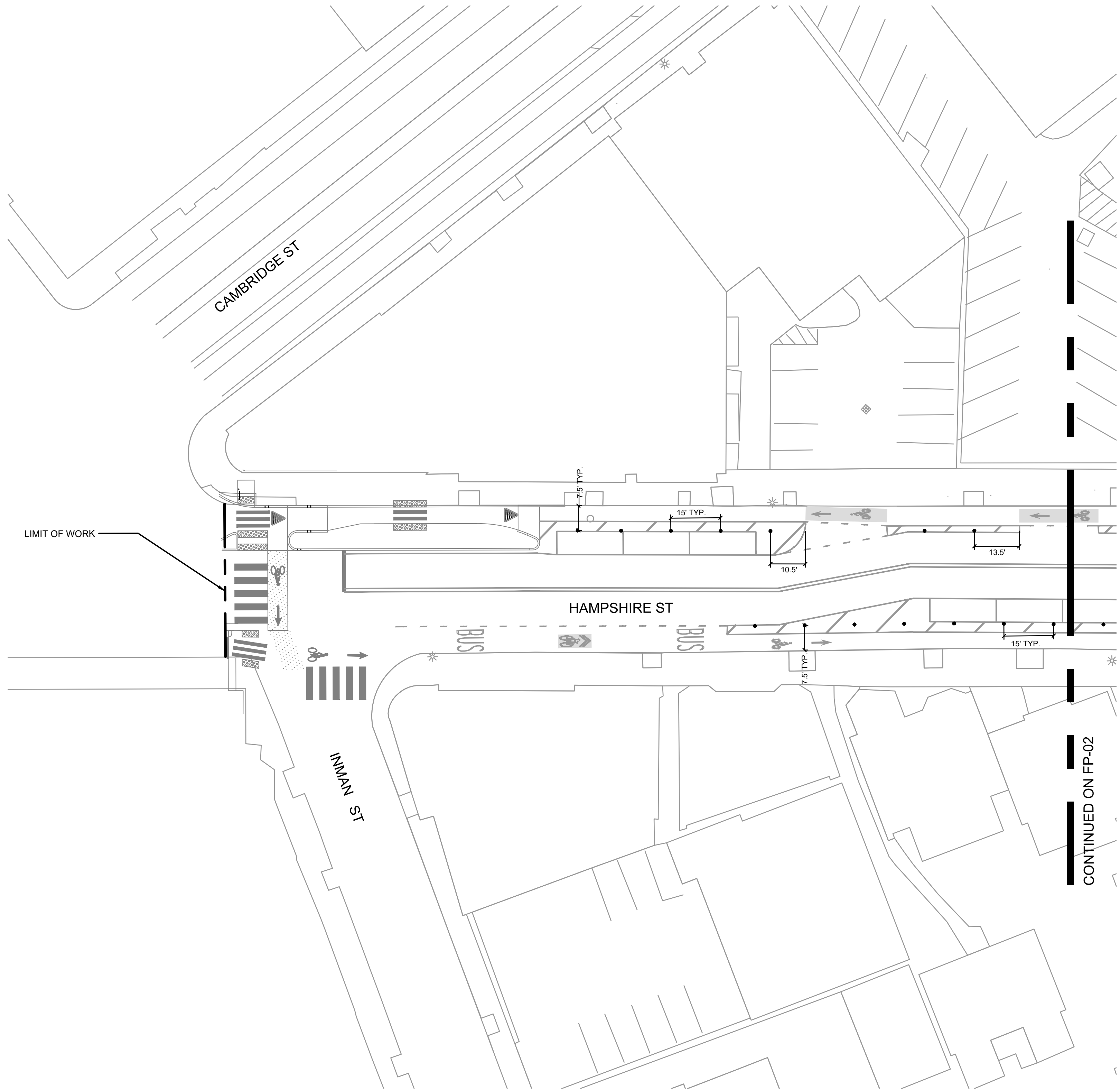
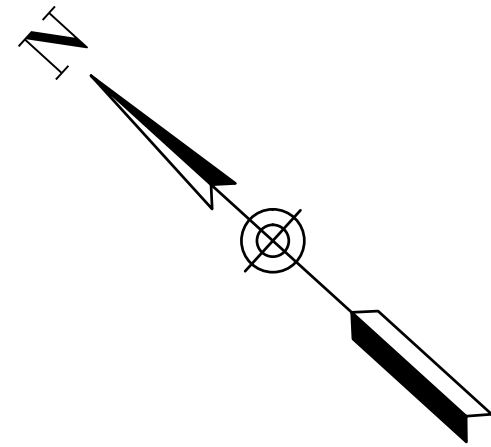
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Monday, August 14, 2023 4:56:26 PM



PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS				TOOLE DESIGN		HAMPSHIRE STREET SEPARATED BIKE LANES		TRANSPORTATION		PROJECT NO.	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.				TOOLE DESIGN		2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com		PAVEMENT MARKING PLAN SHEET 8 OF 8		00122.01	
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		DR	SA									8.14.2023	
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		NO.	DATE	REVISION		BY	APVD					SHEET NO.	
												12 OF 37	

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Monday, August 14, 2023 4:31:19 PM



PRELIMINARY - NOT FOR CONSTRUCTION

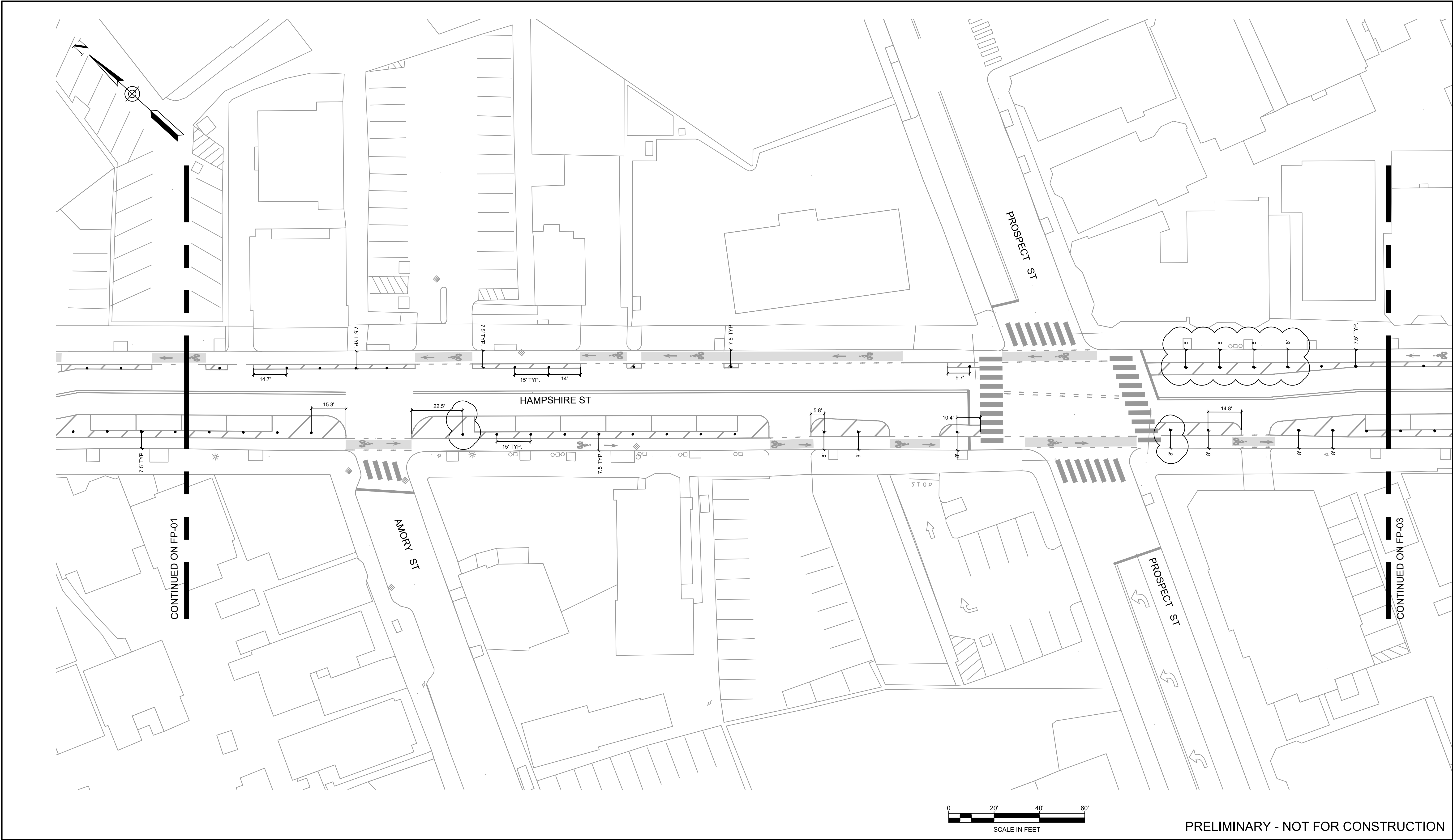
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						TRANSPORTATION		PROJECT NO.		
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE], LICENSE NO. _____, EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.						HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE		00122.01		
		DSGN	SA								DATE	
		DR	SA								8.14.2023	
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		NO.	DATE	REVISION			BY	APVD	SHEET NO.			
											13 OF 37	

TOOLE

DESIGN

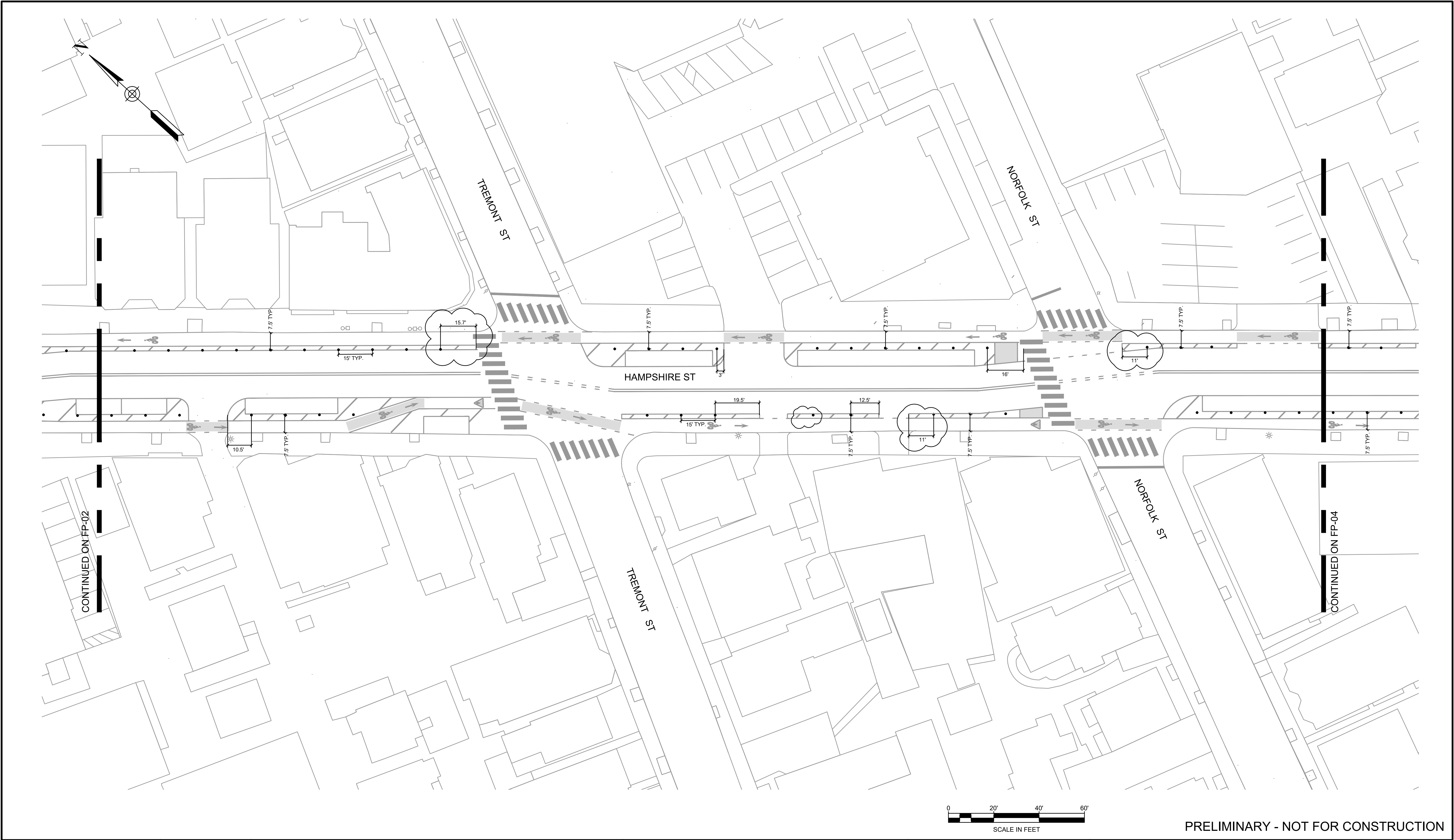
2 OLIVER STREET, SUITE 305
BOSTON, MA 02109
PHONE: 617.619.9910
FAX: 301.927.2800
www.tooledesign.com

H:\6000\0060S\00122.01_S_Hampshire Street Separated Bicycle Lanes\PRODUCTION\cad\PLANS\00122.01_FP_001.dwg
Monday, August 14, 2023 4:31:32 PM



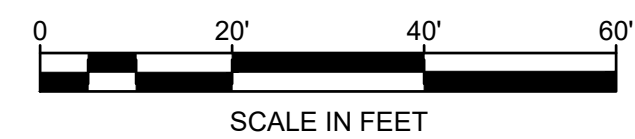
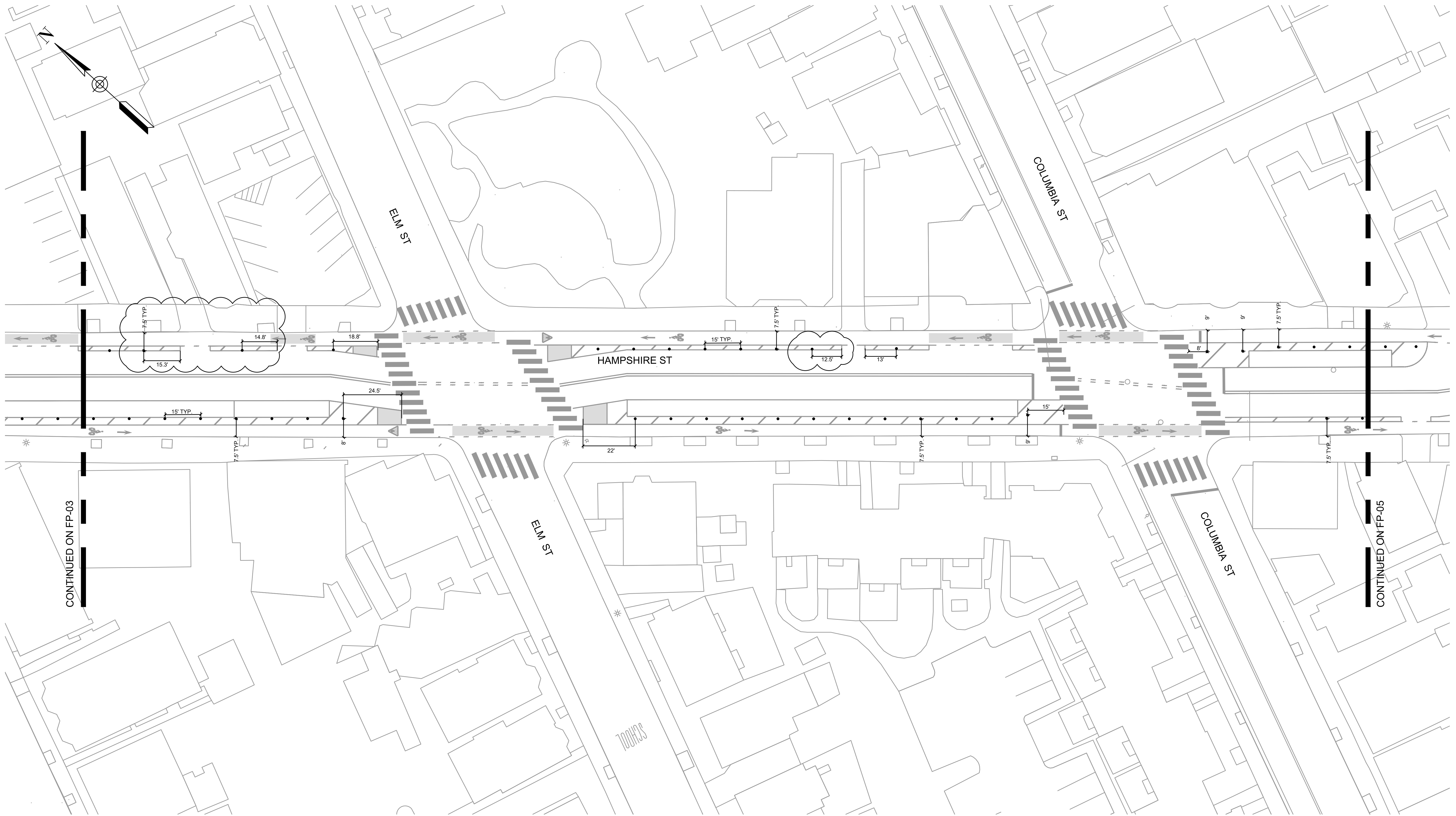
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS				TOOLE DESIGN		HAMPSHIRE STREET SEPARATED BIKE LANES		TRANSPORTATION		PROJECT NO.
												00122.01
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.				2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com		CITY OF CAMBRIDGE		FLEXPOST PLAN SHEET 2 OF 8		DATE
		DSGN	SA									8.14.2023
		DR	SA									DRAWING NO.
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												14 OF 37

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Monday, August 14, 2023 4:31:42 PM



PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____		REUSE OF DOCUMENTS ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.				TOOLE DESIGN 2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com		HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE		TRANSPORTATION		PROJECT NO. 00122.01
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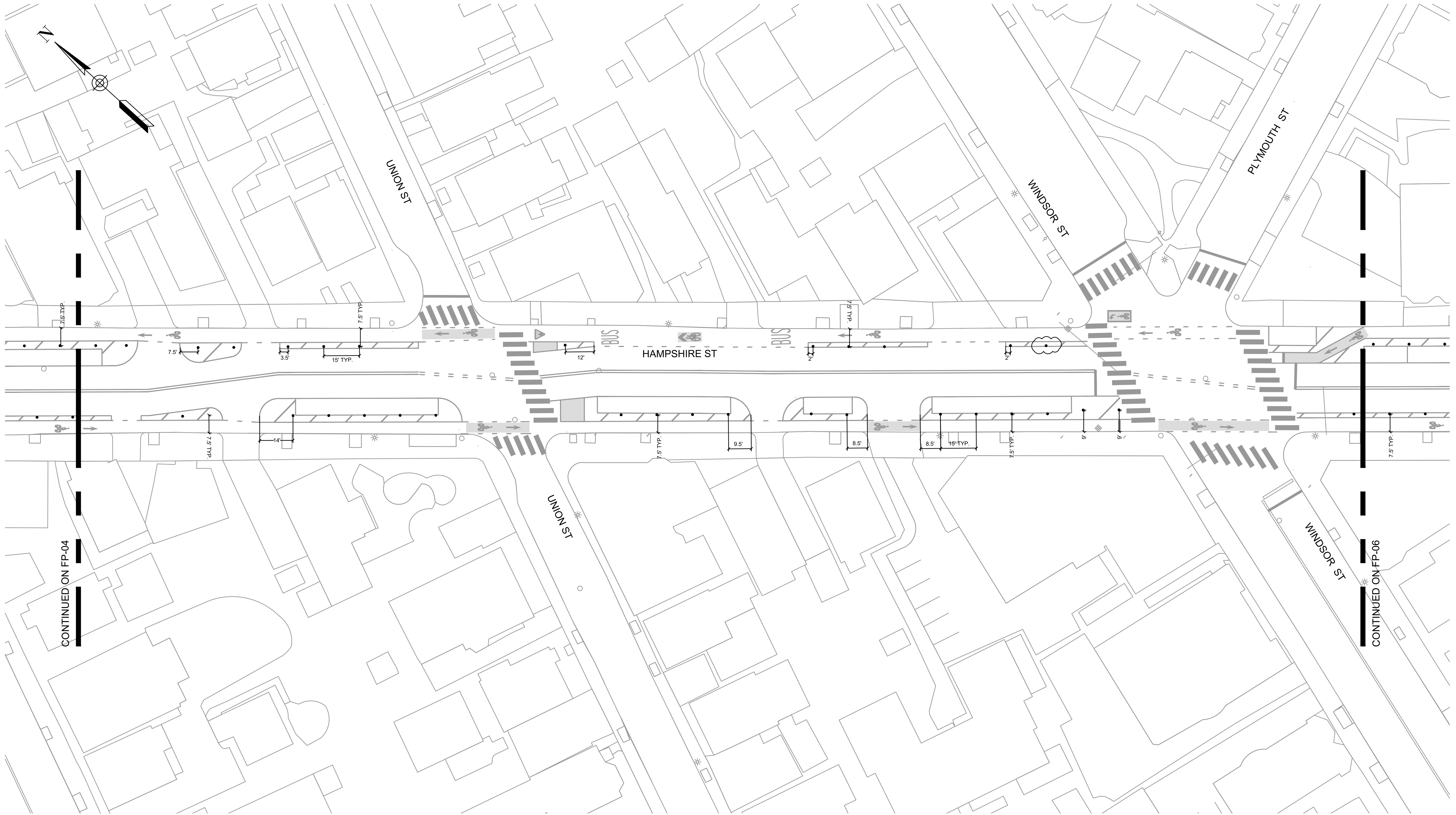
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PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS										<div><div>TOOLE DESIGN</div><div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div></div>	HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE		TRANSPORTATION		PROJECT NO. 00122.01
	ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.													FLEXPOST PLAN		DATE 8.14.2023
	DSGN SA									DRAWING NO. FP-04						
	DR SA									SHEET NO. 16 OF 37						
	CHK SR															
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.	APVD MD	NO.	DATE	REVISION	BY	APVD										

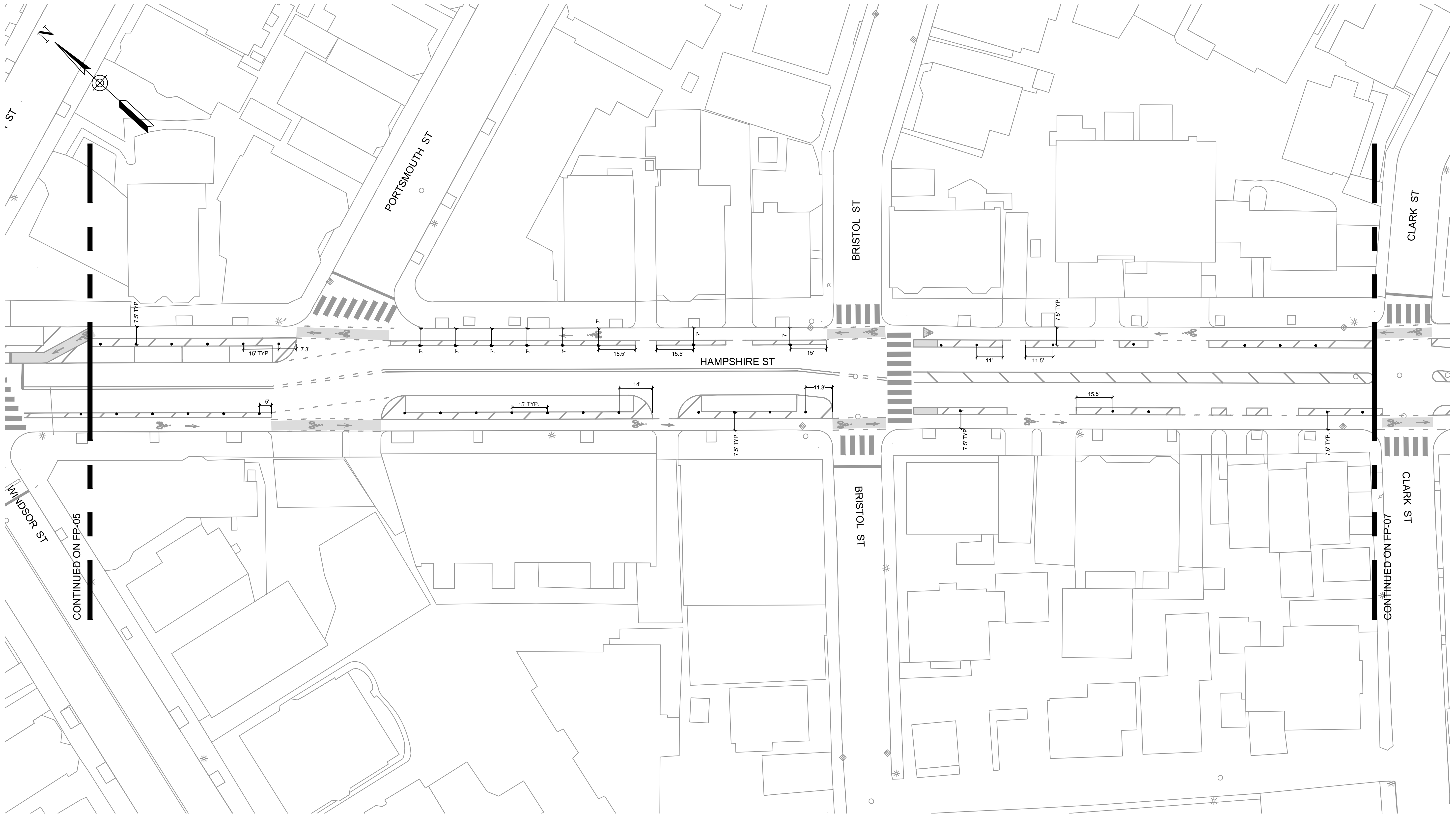
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Monday, August 14, 2023 4:32:04 PM



PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION	<div>I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.</div>	REUSE OF DOCUMENTS						<div>TOOLE DESIGN</div> <div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div>	<div>HAMPSHIRE STREET SEPARATED BIKE LANES</div> <div>CITY OF CAMBRIDGE</div>	TRANSPORTATION		PROJECT NO. 00122.01
		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.								FLEXPOST PLAN		DATE 8.14.2023
		DSGN	SA								DRAWING NO.	FP-05
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		CHK	SR								SHEET NO.	17 OF 37
		APVD	MD	NO.	DATE	REVISION	BY	APVD				

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PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____	REUSE OF DOCUMENTS ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.						TRANSPORTATION		PROJECT NO. 00122.01
	DSGN	SA					FLEXPOST PLAN SHEET 6 OF 8		DATE 8.14.2023
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	APVD	MD	NO.	DATE	REVISION	BY	APVD		

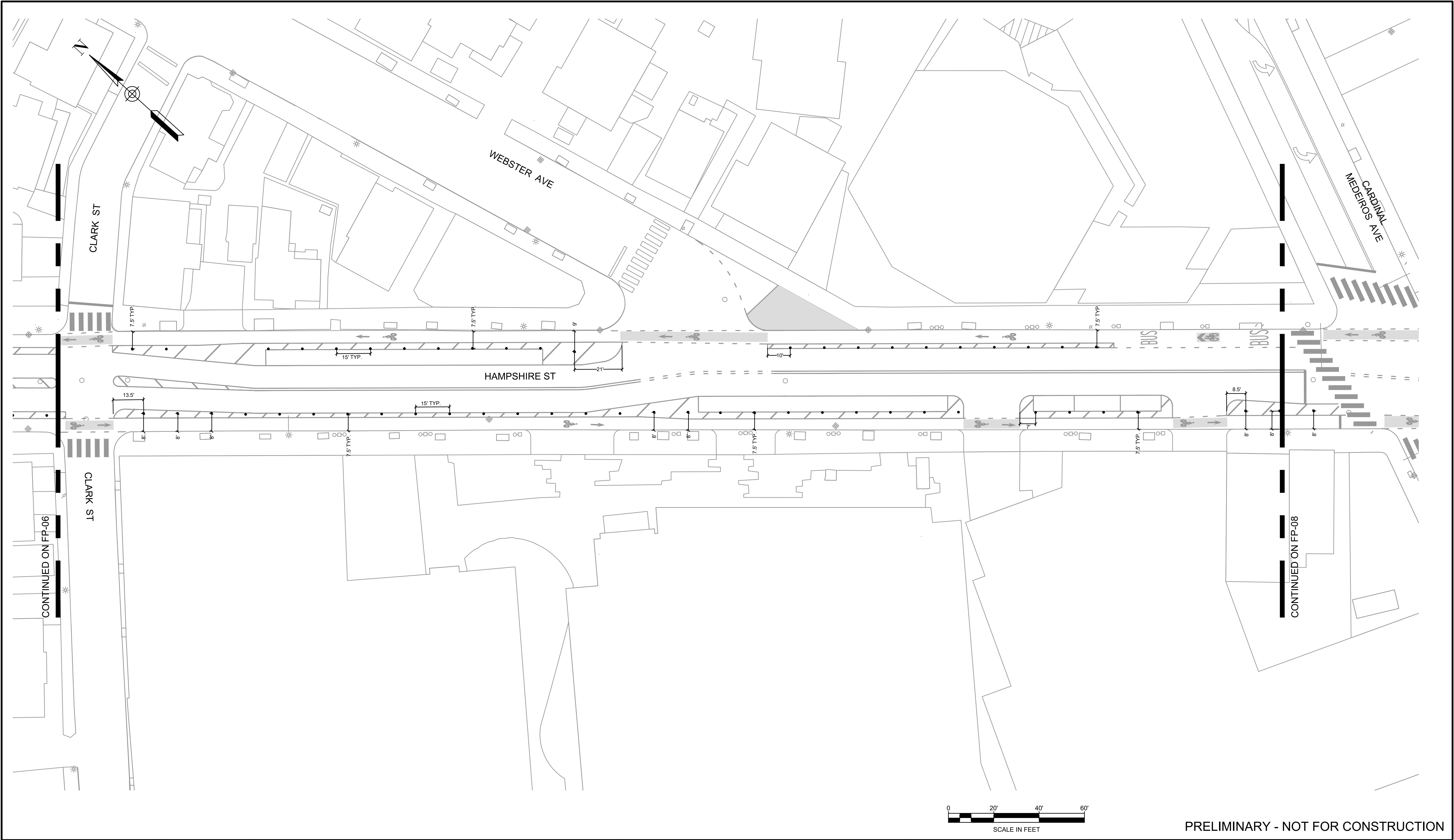
TOOLE
DESIGN

2 OLIVER STREET, SUITE 305
BOSTON, MA 02109
PHONE: 617.619.9910
FAX: 301.927.2800
www.tooledesign.com

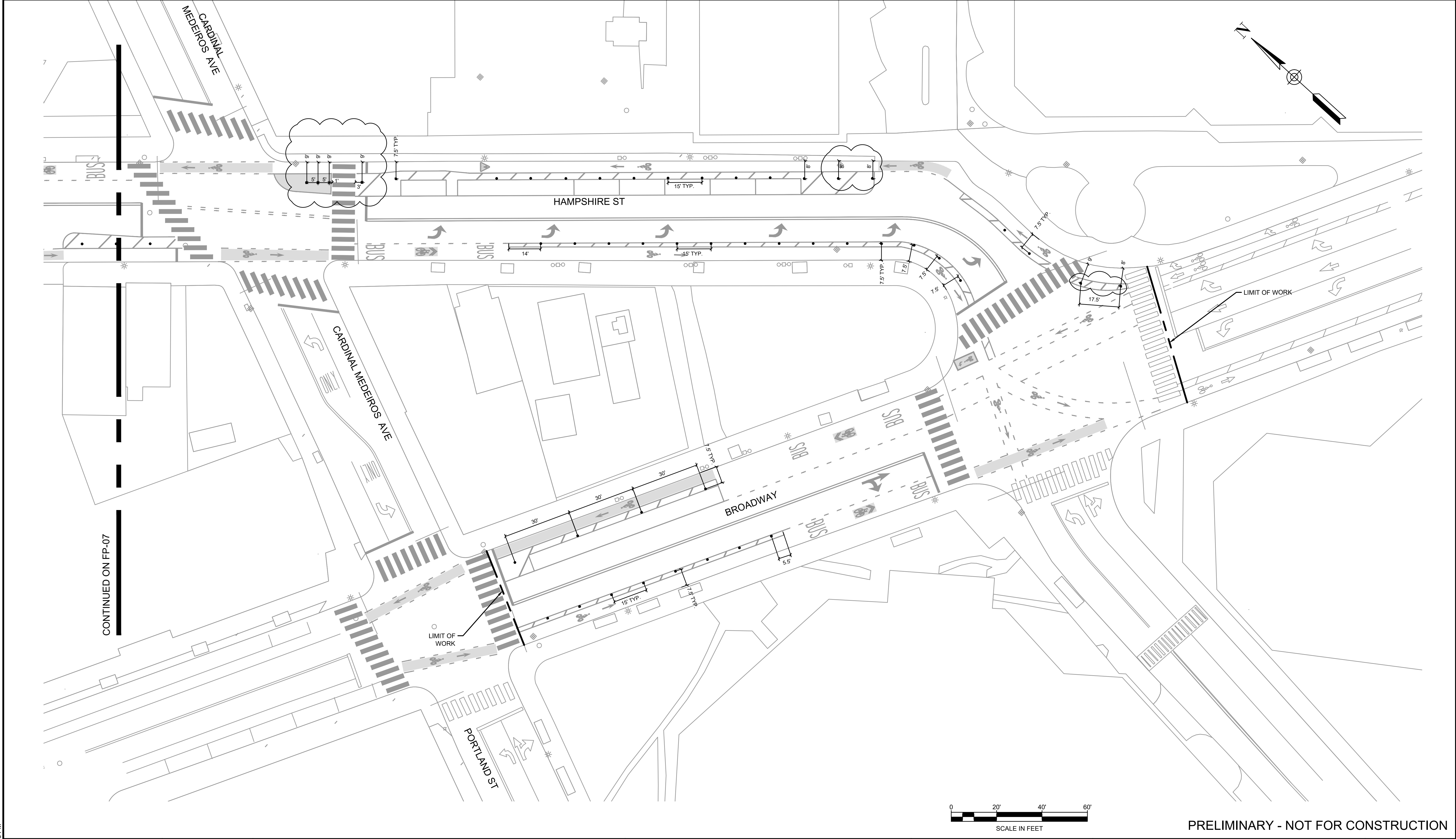
HAMPSHIRE STREET
SEPARATED BIKE LANES

CITY OF CAMBRIDGE

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Monday, August 14, 2023 4:32:33 PM



PROFESSIONAL CERTIFICATION I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____		REUSE OF DOCUMENTS ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.				<div>TOOLE DESIGN</div> <div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div>	HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE	TRANSPORTATION		PROJECT NO. 00122.01
										DATE 8.14.2023
		DSGN		SA				FLEXPOST PLAN SHEET 7 OF 8		DRAWING NO. FP-07
		DR		SA						
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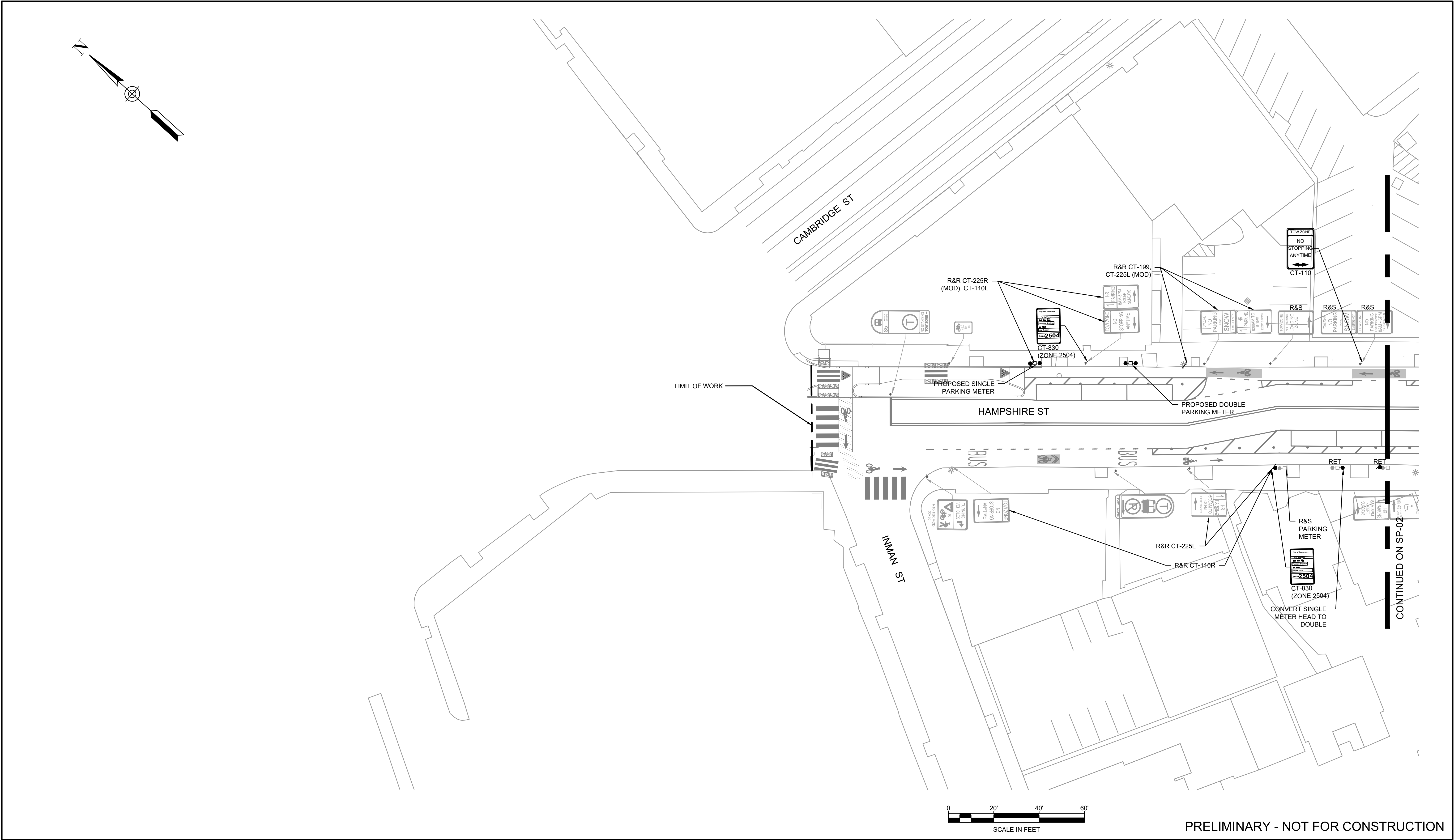


PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS										TRANSPORTATION		PROJECT NO.	00122.01
	ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.												DATE	8.14.2023
	I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.												DRAWING NO.	FP-08
													SHEET NO.	20 OF 37
										HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE		FLEXPOST PLAN SHEET 8 OF 8		
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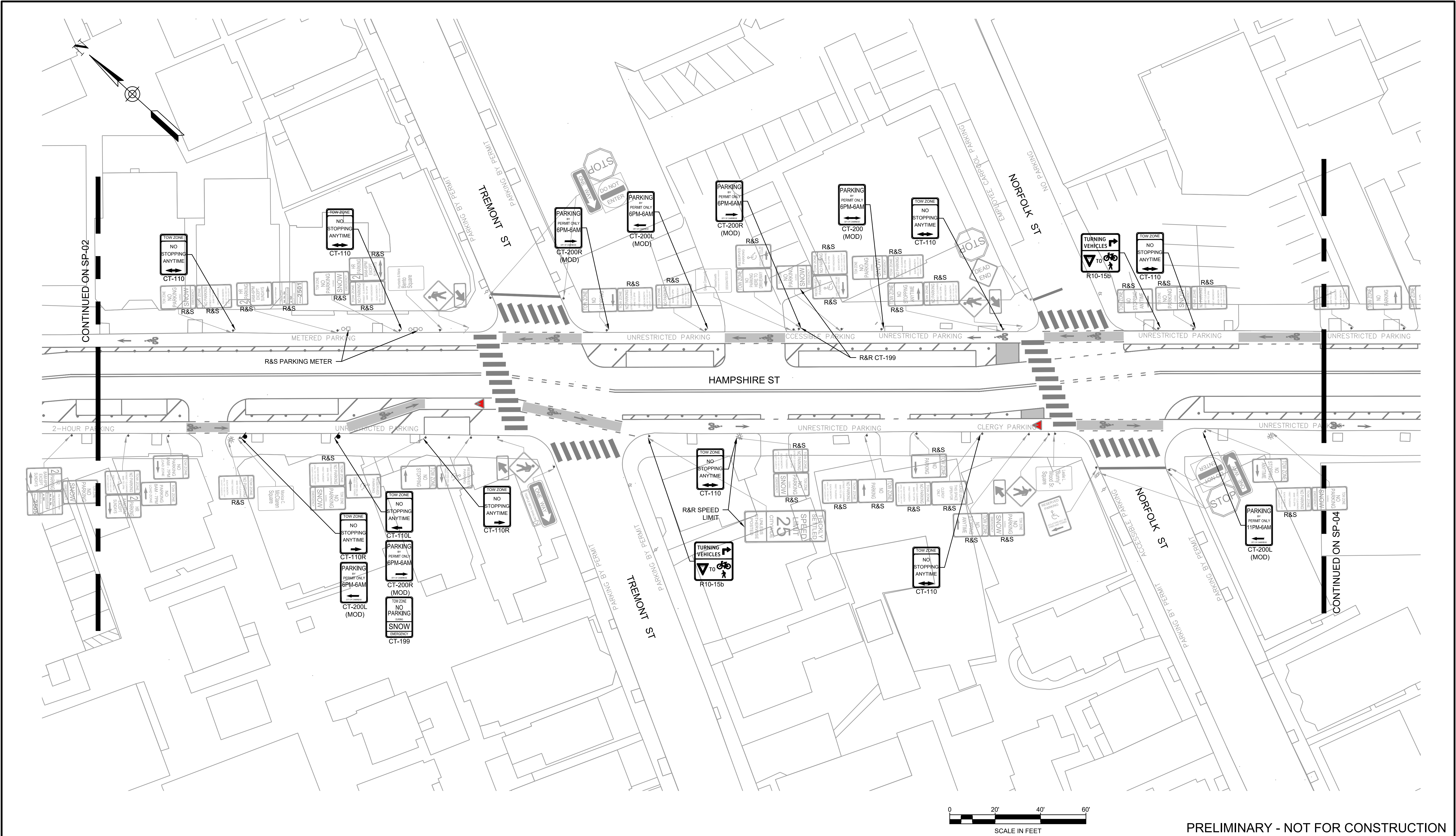
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Monday, August 14, 2023 4:33:28 PM



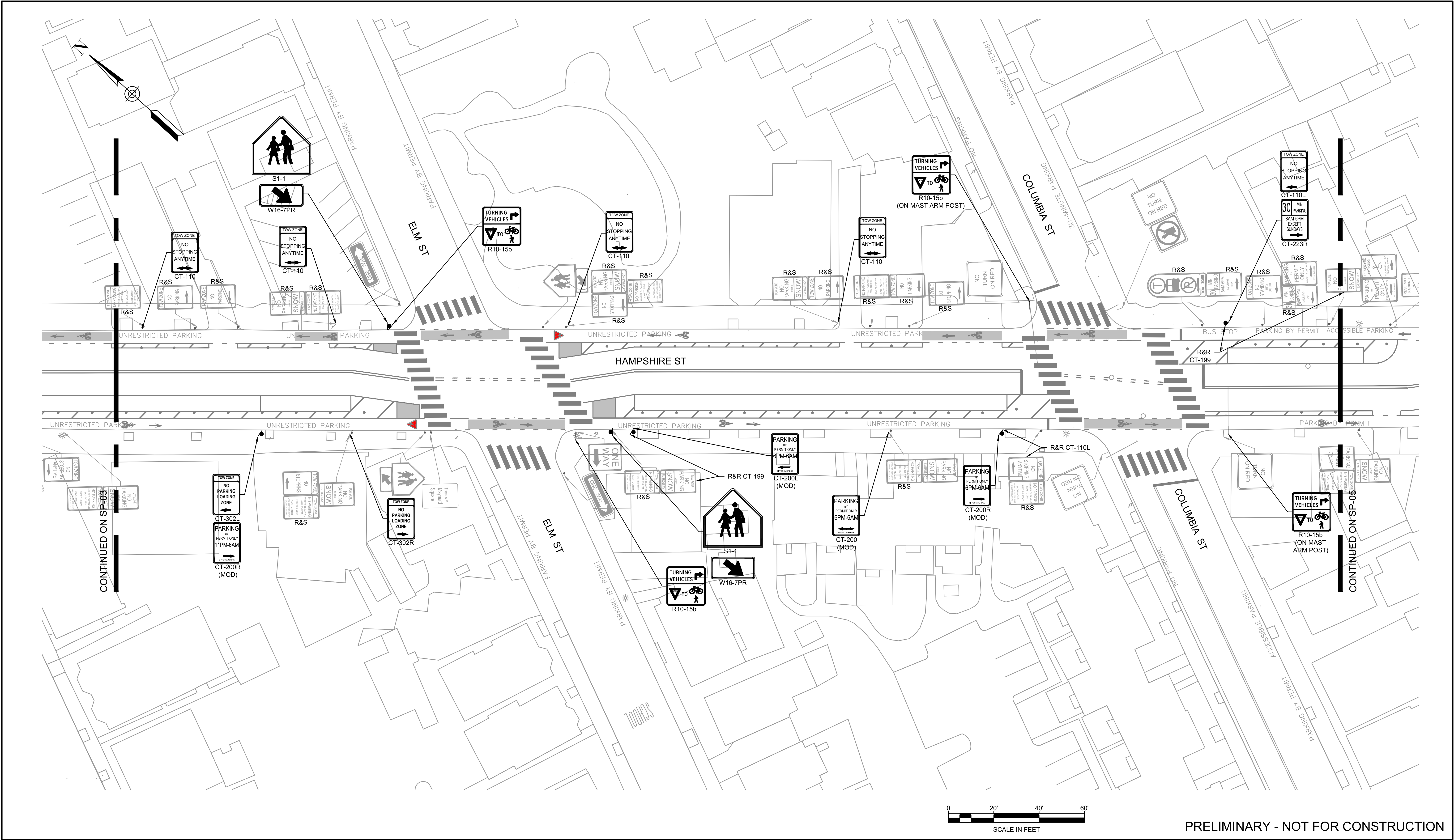
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.						<div><div>TOOLE DESIGN</div><div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div></div>		HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE		TRANSPORTATION		PROJECT NO. 00122.01	
SIGNAGE AND METER PLAN SHEET 1 OF 8												DATE 8.14.2023			
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.		DSGN	SA										DRAWING NO. SP-01		
		DR	SA										SHEET NO. 21 OF 37		
		CHK	SR												
		APVD	MD	NO.	DATE	REVISION		BY	APVD						

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Monday, August 14, 2023 4:34:01 PM



PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						<div><div>TOOLE DESIGN</div><div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div></div> <div>HAMPSHIRE STREET SEPARATED BIKE LANES</div> <div>CITY OF CAMBRIDGE</div>		TRANSPORTATION		PROJECT NO. 00122.01
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.								SIGNAGE AND METER PLAN		DATE 8.14.2023
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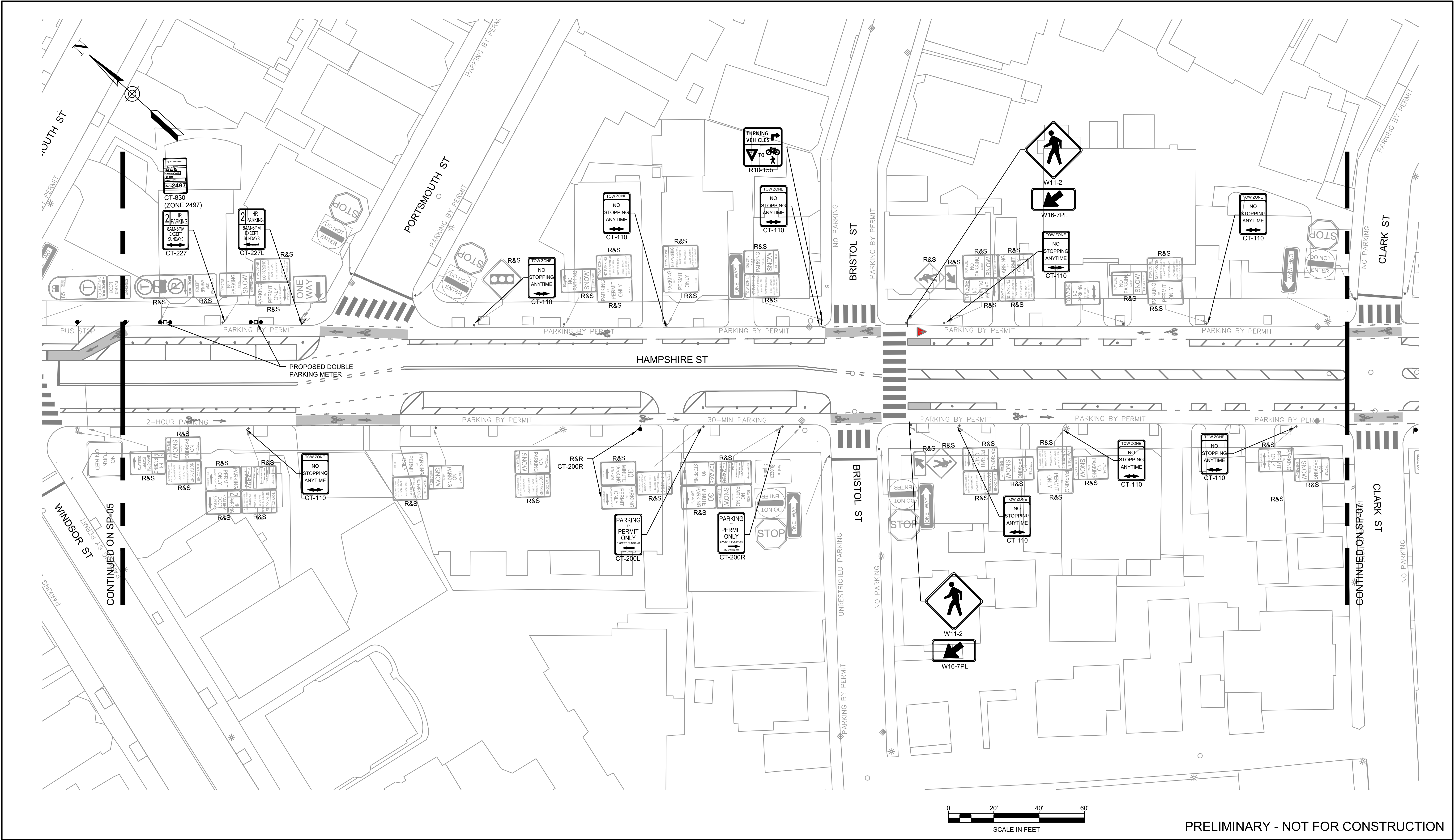
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PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS				TOOLE DESIGN		HAMPSHIRE STREET SEPARATED BIKE LANES		TRANSPORTATION		PROJECT NO.
									SIGNAGE AND METER PLAN		00122.01
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____	DSGN	SA			2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com	CITY OF CAMBRIDGE	SHEET 4 OF 8		DATE	8.14.2023	DATE
	DR	SA							DRAWING NO.	SP-04	DRAWING NO.
	CHK	SR							SHEET NO.	24 OF 37	SHEET NO.
	APVD	MD	NO.	DATE							
				REVISION	BY	APVD					

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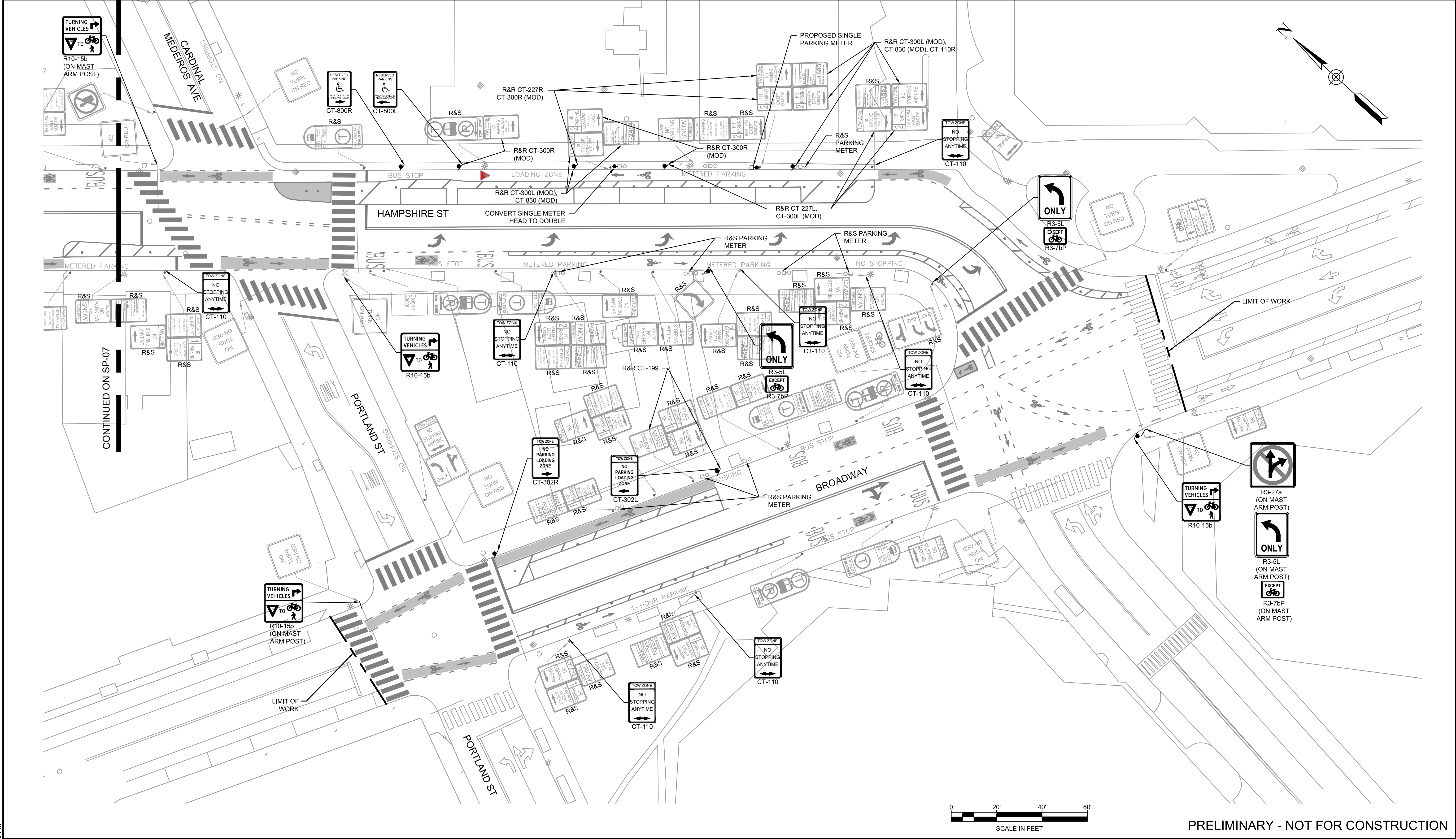


PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS				HAMPSHIRE STREET SEPARATED BIKE LANES		TRANSPORTATION		PROJECT NO.	00122.01
								SIGNAGE AND METER PLAN		DATE	8.14.2023
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____		DSGN	SA			TOOLE DESIGN		SHEET 6 OF 8		DRAWING NO.	SP-06
		DR	SA							SHEET NO.	26 OF 37
		CHK	SR								
		APVD	MD	NO.	DATE	REVISION	BY	APVD			

0 20' 40' 60'

SCALE IN FEET

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS										<div><div>TOOLE DESIGN</div><div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div></div>	<div>HAMPSHIRE STREET SEPARATED BIKE LANES</div> <div>CITY OF CAMBRIDGE</div>	TRANSPORTATION		PROJECT NO. 00122.01
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.												SIGNAGE AND METER PLAN SHEET 7 OF 8		DATE 8.14.2023
		DSGN	SA							DRAWING NO. SP-07						
		DR	SA							SHEET NO. 27 OF 37						
		CHK	SR													
APVD	MD	NO.	DATE	REVISION				BY	APVD							



PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE].
LICENSE NO. _____
EXPIRATION DATE: _____

REUSE OF DOCUMENTS

ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

DSGN	SA				
DR	SA				
CHK	SR				
APVD	MD	NO.	DATE	REVISION	BY APVD

TOOLE DESIGN

2 OLIVER STREET, SUITE 305
BOSTON, MA 02109
PHONE: 617.619.9910
FAX: 301.927.2800
www.tooledesign.com

HAMPSHIRE STREET
SEPARATED BIKE LANES

CITY OF CAMBRIDGE

TRANSPORTATION

SIGNAGE AND METER PLAN

SHEET 8 OF 8

PROJECT NO.

00122.01

DATE

8.14.2023

DRAWING NO.


















SP-08


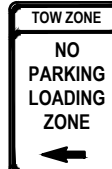




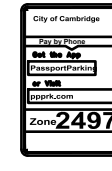

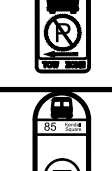
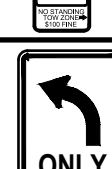








SHEET NO.

28 OF 37

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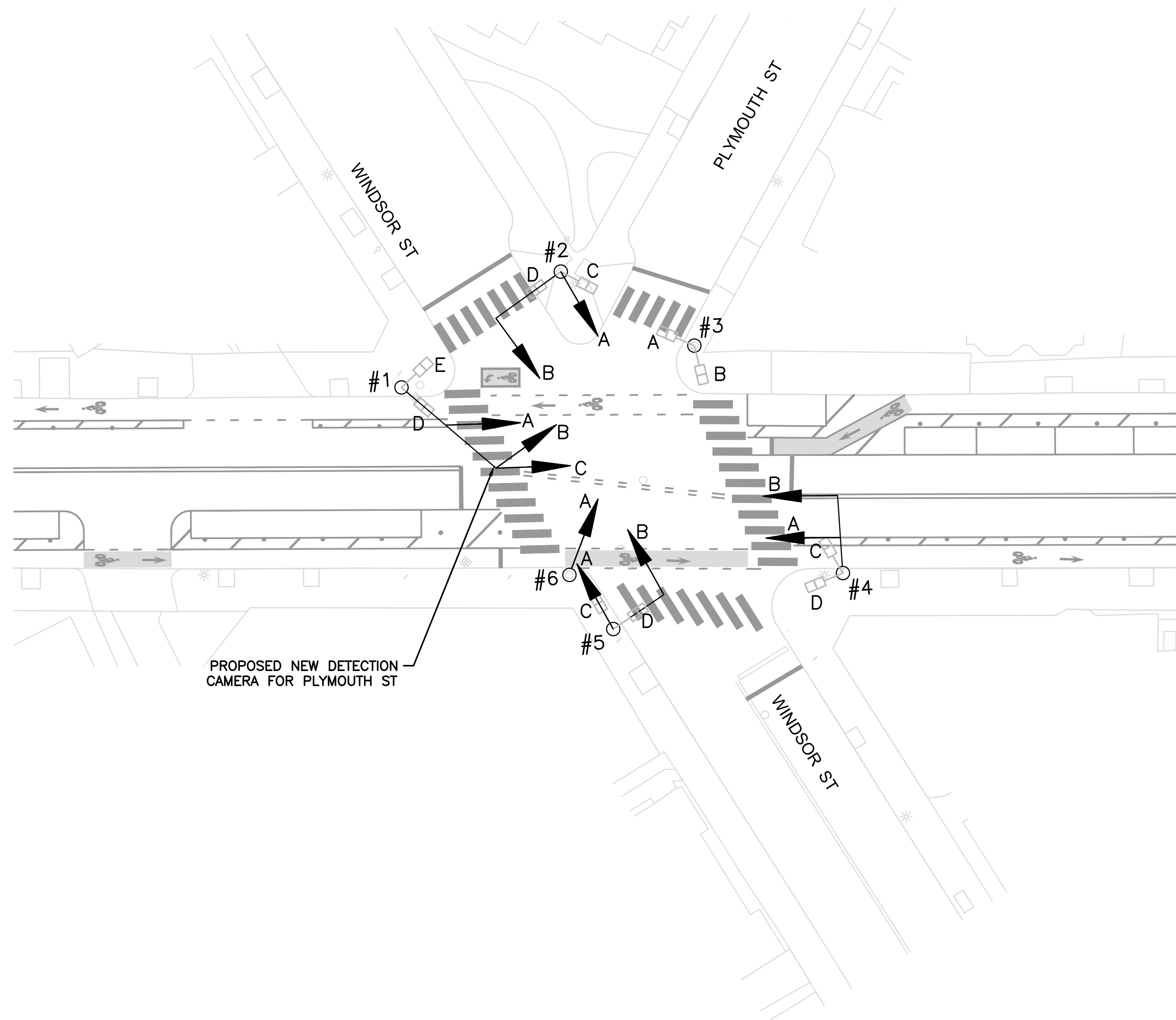
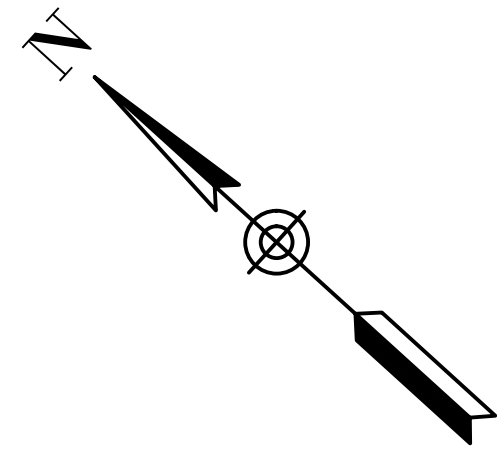
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IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		UNIT AREA (SQ FT)	TEXT	TEXT DIMENSIONS		NUMBER OF SIGNS REQUIRED	COLOR		POST SIZE AND NUMBER REQUIRED PER SIGN	TOTAL AREA (SQ FT)
	WIDTH	HEIGHT									
CT-110	12"	18"	1.50		SEE CITY OF CAMBRIDGE SIGN DETAIL		43	SEE CITY OF CAMBRIDGE SIGN DETAIL		MNT ON EX POST/POLE	64.50
CT-110L	12"	18"	1.50				2			MNT 1 W/ CT-223R, MNT 1 W/CT-302R	3.00
CT-110R	12"	18"	1.50				3			MNT 1 ON 2" POST(1), MNT 1 ON EX POST, MNT 1 W/ CT-223L	4.50
CT-199	12"	18"	1.50				4			MNT 3 ON 2" POST(1), MNT 1 ON EX POST	6.00
CT-200	12"	18"	1.50				2			MNT 1 ON EX POLE, MNT 1 W/ CT-199	3.00
CT-200L	12"	18"	1.50				2			MNT ON EX POST	3.00
CT-200 (MOD) 6PM - 6AM	12"	18"	1.50				2			MNT ON EX POST	3.00
CT-200L (MOD) 6PM - 6AM	12"	18"	1.50				3			MNT 1 ON 2" POST(1), MNT 1 ON EX POST, MNT 1 W/ CT-110R	4.50
CT-200L (MOD) 11PM - 6AM	12"	18"	1.50				1			MNT 1 ON EX POST	1.50
CT-200R	12"	18"	1.50				4			MNT 1 ON EX POST, MNT 2 W/ CT-199, MNT 1 W/ R10-15	6.00
CT-200R (MOD) 6PM - 6AM	12"	18"	1.50				4			MNT 1 ON 2" POST(1), MNT 2 ON EX POST, MNT 1 W/ CT-110L	6.00
CT-200R (MOD) 11PM - 6AM	12"	18"	1.50				1			MNT W/ CT-302L	1.50
CT-223L	12"	18"	1.50				1			MNT ON EX POST	1.50
CT-223R	12"	18"	1.50				1			MNT ON 2" POST(1)	1.50
CT-225R (MOD)	12"	18"	1.50				1			MNT ON 2" POST(1)	1.50
CT-227	12"	18"	1.50				1			MNT W/ CT-830 (ZONE XXXX)	1.50
CT-227L	12"	18"	1.50				1			MNT ON EX POST	1.50

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		UNIT AREA (SQ FT)	TEXT	TEXT DIMENSIONS		NUMBER OF SIGNS REQUIRED	COLOR		POST SIZE AND NUMBER REQUIRED PER SIGN	TOTAL AREA (SQ FT)
	WIDTH	HEIGHT									
CT-227R	12"	18"	1.50		SEE CITY OF CAMBRIDGE SIGN DETAIL		1	SEE CITY OF CAMBRIDGE SIGN DETAIL		MNT W/ CT-830 (ZONE XXXX)	1.50
CT-302L	12"	18"	1.50				3			MNT ON 2" POST(1)	4.50
CT-302R	12"	18"	1.50				3			MNT 2 ON 2" POST(1) MNT 1 ON EX POST	4.50
CT-800(L)	12"	18"	1.50				2			MNT 1 ON 2" POST(1), MNT 1 W/ CT-227R	3.00
CT-800(R)	12"	18"	1.50				2			MNT ON 2" POST(1)	3.00
CT-830 (ZONE 2504)	12"	18"	1.50				3			MNT 1 ON 2" POST(1), MNT 1 ON EX POST, MNT 1 W/ CT-225R (MOD)	4.50
CT-830 (ZONE 2497)	12"	18"	1.50				2			MNT 1 ON 2" POST(1), MNT 1 ON EX POST	3.00
MBTA-1	-	-	-		SEE MBTA STANDARD DETAIL		1	SEE MBTA STANDARD DETAIL		MNT ON 2" POST(1)	-
MBTA-2	-	-	-				2			MNT 1 ON 2" POST(1), MNT 1 ON EX POST	-
MBTA-3	-	-	-				1			MNT ON 2" POST(1)	-
R3-5L	30"	36"	7.50		SEE MUTCD STANDARD DETAIL		3	SEE MUTCD STANDARD DETAIL		MNT 1 ON 2" POST(1), MNT 2 ON EX POLE/ MAST ARM	22.50
R3-7bP	24"	12"	2.00				3			MNT W/ R3-5L	6.00
R3-27a	30"	30"	6.25				1			MNT ON EX POLE/MAST ARM	6.25
R10-15b	30"	30"	6.25				17			MNT 12 ON EX POLE/MAST ARM, MNT 5 ON 2" POST(1)	106.25
W11-2	30"	30"	6.25				2			MNT ON EX POST	12.50
W16-7PL	24"	12"	2.00				4			MNT 2 ON EX POST, MNT 2 W/ W-11-2	12.00
W16-7PR	24"	12"	2.00				2			MNT W/ S1-1	4.00
S1-1	36"	36"	9.00				2			MNT ON 2" POST(1)	18.00

PRELIMINARY - NOT FOR CONSTRUCTION

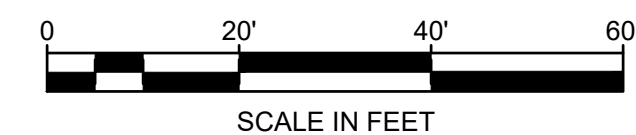
PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS										TOOLE DESIGN		2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com		HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE		TRANSPORTATION		PROJECT NO. 00122.01	
	ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.																SIGN SUMMARY		DATE 8.14.2023	
	DSGN	SA														DRAWING NO. SS-01				
	DR	SA																		
	CHK	SR															SHEET NO. 29 OF 37			
	APVD	MD	NO.	DATE	REVISION					BY	APVD									



PROPOSED NEW DETECTION
CAMERA FOR PLYMOUTH ST

LEGEND:

- PROPOSED SIGNAL EQUIPMENT
- EXISTING SIGNAL EQUIPMENT
- PROPOSED PEDESTRIAN INDICATION
- EXISTING PEDESTRIAN INDICATION



PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS										TRANSPORTATION		PROJECT NO.		
	ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.												00122.01		
	DSGN	SA							DATE						
	DR	SA							8.14.2023						
	CHK	SR							DRAWING NO.						
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____ EXPIRATION DATE: _____.										TS-01	SHEET NO.				
										NO.	DATE	REVISION	BY	APVD	30 OF 37

TOOLE
DESIGN

2 OLIVER STREET, SUITE 305
BOSTON, MA 02109
PHONE: 617.619.9910
FAX: 301.927.2800
www.tooledesign.com

HAMPSHIRE STREET
SEPARATED BIKE LANES

CITY OF CAMBRIDGE

TRAFFIC SIGNAL PLAN
HAMPSHIRE STREET AT WINDSOR STREET/
PLYMOUTH STREET

TOOLE
DESIGN

2 OLIVER STREET, SUITE 305
BOSTON, MA 02109
PHONE: 617.619.9910
FAX: 301.927.2800
www.tooledesign.com

HAMPSHIRE STREET
SEPARATED BIKE LANES
CITY OF CAMBRIDGE

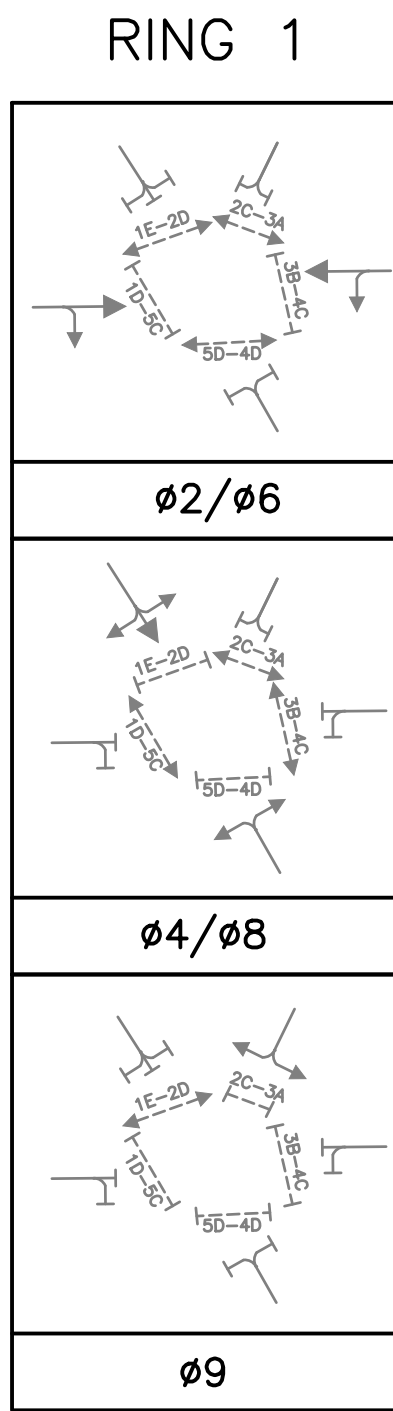
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Monday, August 14, 2023 4:36:23 PM

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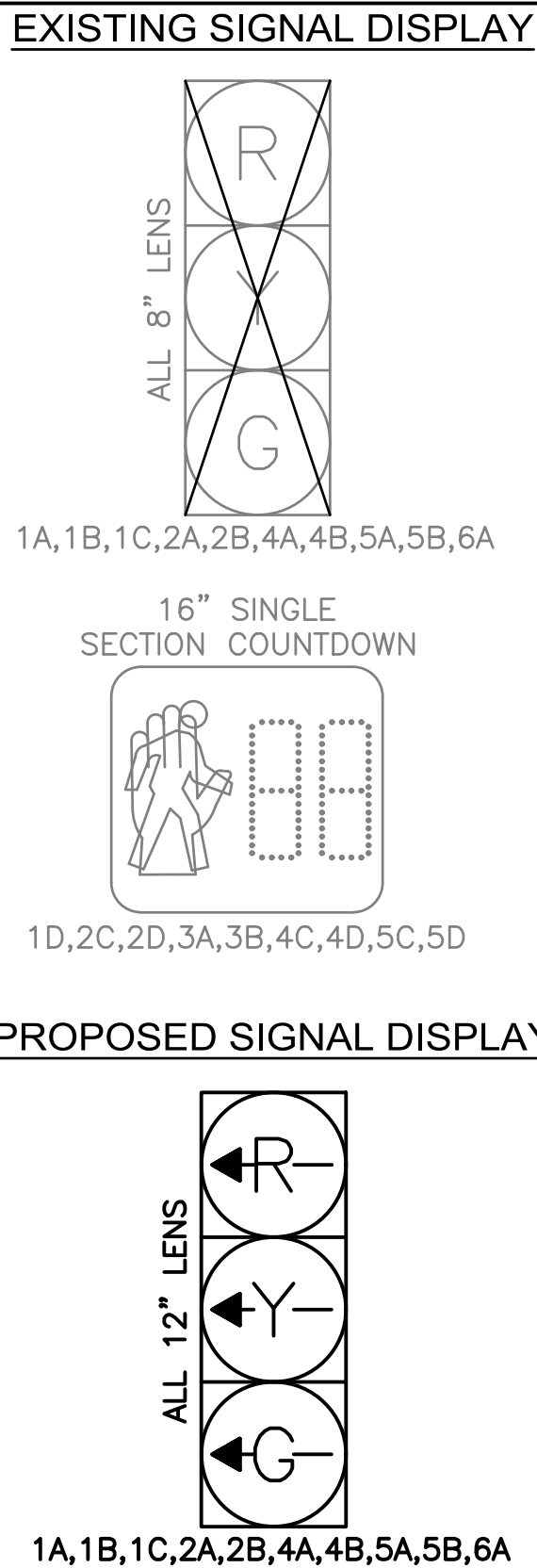
<div><div>(APPROX.)</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div>HAMPSHIRE STREET</div><div>PLYMOUTH STREET</div><div>WINDSOR STREET</div><div>WINDSOR STREET</div></div></div>				TIMING PLAN												FLASHING PRIORITY
<div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div>1E-20</div><div>2C-34</div><div>1E-20</div><div>2C-34</div><div>1E-20</div><div>2C-34</div><div>1E-20</div><div>2C-34</div><div>1E-20</div><div>2C-34</div><div>1E-20</div><div>2C-34</div><div>1E-20</div><div>2C-34</div></div><div><div>15B-40</div><div>15B-40</div><div>15B-40</div><div>15B-40</div><div>15B-40</div><div>15B-40</div><div>15B-40</div><div>15B-40</div><div>15B-40</div><div>15B-40</div><div>15B-40</div><div>15B-40</div><div>15B-40</div><div>15B-40</div></div></div>				<div><div><div>ø2/ø6</div><div>ø4/ø8</div><div>ø9</div></div></div>												
VEHICLE	STREET	DIR.	HEAD	L	GR	CH	CL	L	GR	CH	CL	L	GR	CH	CL	
	HAMPSHIRE ST	EB	4A,4B	R	G	Y	R	—	R	R	R	R	R	R	R	FY
	HAMPSHIRE ST	WB	1A,1C	R	G	Y	R	—	R	R	R	R	R	R	R	FY
	WINDSOR ST	NB	2A,2B	R	R	R	R	—	G	Y	R	R	R	R	R	FY
	WINDSOR ST	SB	5A,5B	R	R	R	R	—	G	Y	R	R	R	R	R	FR
WALK	PLYMOUTH ST	SB	1B,6A	R	R	R	R	—	R	R	R	R	G	Y	R	FR
INTERVAL	CROSSWALK	E-W	1E-2D	W	W/FDW	FDW	DW	—	DW	DW	DW	W	W	W	W	OFF
	CROSSWALK	E-W	2C-3A	W	W	W	W	—	W/FDW	FDW	DW	DW	DW	DW	DW	OFF
	CROSSWALK	E-W	5D-4D	W	W/FDW	FDW	DW	—	DW	DW	DW	DW	DW	DW	DW	OFF
	CROSSWALK	N-S	1D-5C	DW	DW	DW	DW	—	W/FDW	FDW	DW	DW	DW	DW	DW	OFF
	CROSSWALK	N-S	3B-4C	DW	DW	DW	DW	—	W/FDW	FDW	DW	DW	DW	DW	DW	OFF
INTERVAL																
INTERVAL	MINIMUM GREEN				7				7				7			
	EXTENSION				3				3				3			
	MAX 1 GREEN				46				24				20			
	MAX 2 GREEN				46				24				20			
	MAX 3 GREEN				38				20				17			
INTERVAL	YELLOW CHANGE					3				3				3		
	RED CLEARANCE						2				2				2	
	PEDESTRIAN WALK			3	30			3	10			12				
	PEDESTRIAN CLEARANCE					8				9				0		
INTERVAL																
INTERVAL	MEMORY															
	RECALL															

COORDINATION PLAN						TECHNICAL NOTES			
PROGRAM	DAY	TIME	CYCLE LENGTH	OFFSET	PHASE SPLIT	1.	PHASES ø2 AND ø6, ø4 AND ø8 ARE COORD.		
					ø2/ø6 ø4/ø8 ø9	2.	PEDESTRIAN PHASES REST IN WALK.		
MAX 1	M-F	AM PEAK	90	0	46 24 20				
MAX 2	M-F	PM PEAK	90	0	46 24 20				
MAX 3	M-Su	OFF PEAK	75	0	38 20 17				

PHASING SEQUENCE



SIGNAL FACES



CONSTRUCTION NOTES

INSTALL ALL MISCELLANEOUS EQUIPMENT, WIRING, CABLE AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL PER CAMBRIDGE TRANSPORTATION DEPARTMENT STANDARDS AND LATEST SPECIFICATIONS.

PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE].
LICENSE NO. _____
EXPIRATION DATE: _____.

REUSE OF DOCUMENTS

ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT.
REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

DSGN	SA						
DR	SA						
CHK	SR						
APVD	MD	NO.	DATE	REVISION	BY	APVD	

TOOLE
DESIGN

2 OLIVER STREET, SUITE 305
BOSTON, MA 02109
PHONE: 617.619.9910
FAX: 301.927.2800
www.tooledesign.com

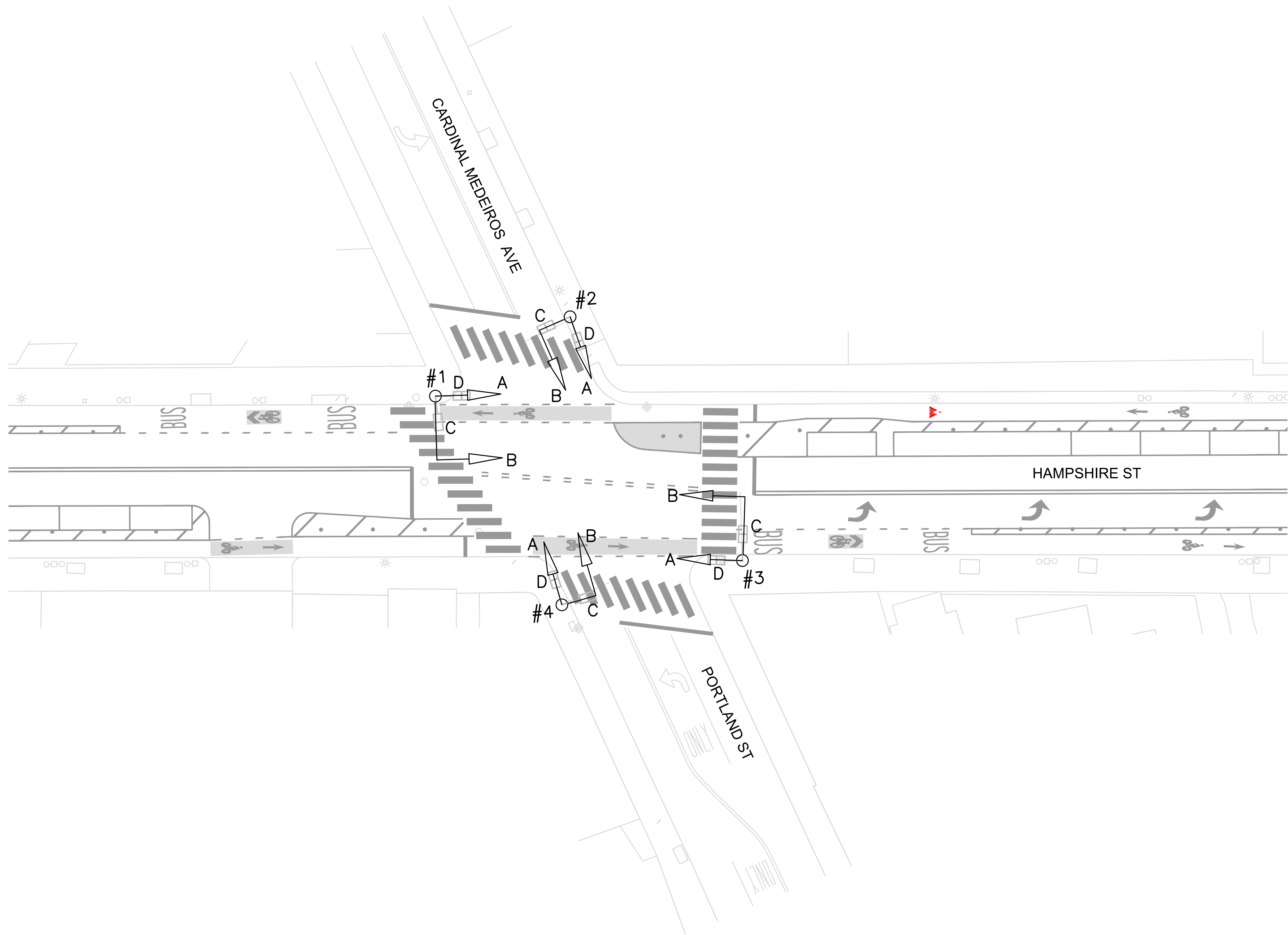
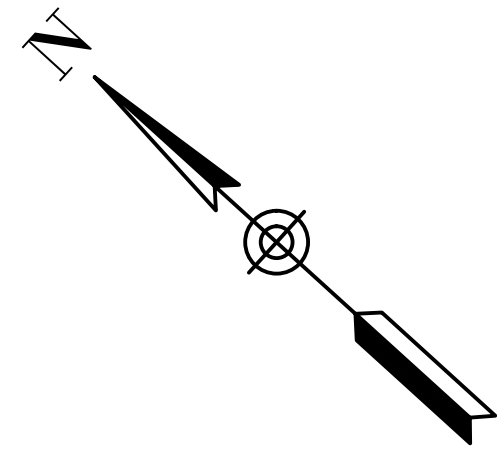
HAMPSHIRE STREET
SEPARATED BIKE LANES

CITY OF CAMBRIDGE

TRANSPORTATION

TRAFFIC SIGNAL SCHEDULE
HAMPSHIRE STREET AT WINDSOR STREET/
PLYMOUTH STREET

PROJECT NO.	00122.01
DATE	8.14.2023
DRAWING NO.	TS-02
SHEET NO.	31 OF 37



LEGEND:

- PROPOSED SIGNAL EQUIPMENT
- EXISTING SIGNAL EQUIPMENT
- PROPOSED PEDESTRIAN INDICATION
- EXISTING PEDESTRIAN INDICATION

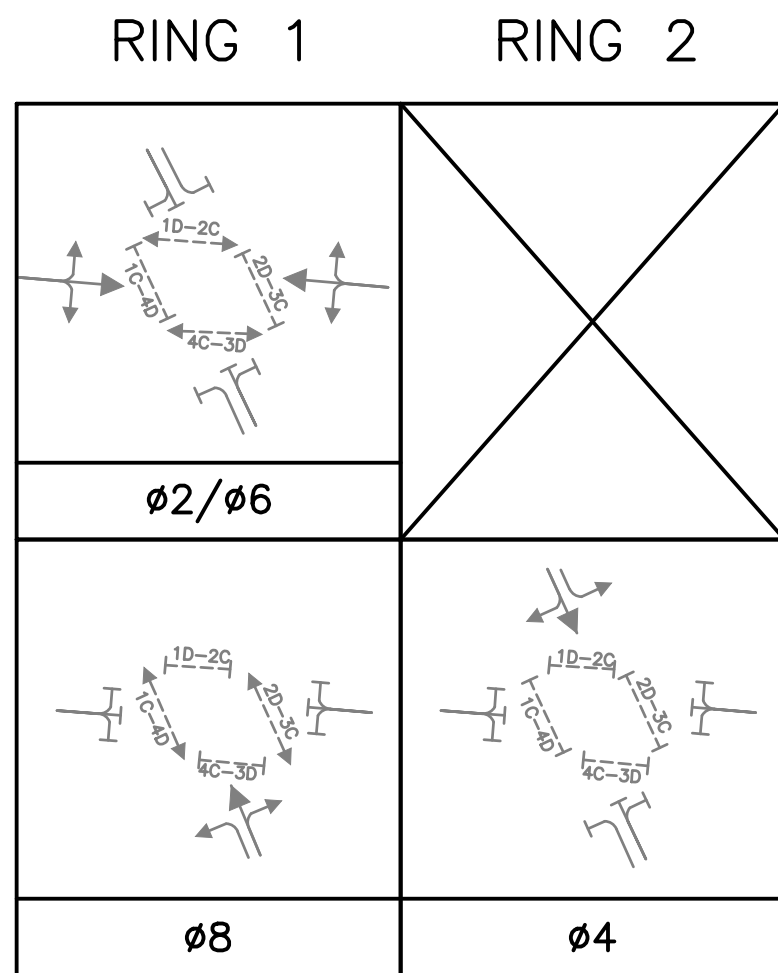


PRELIMINARY - NOT FOR CONSTRUCTION

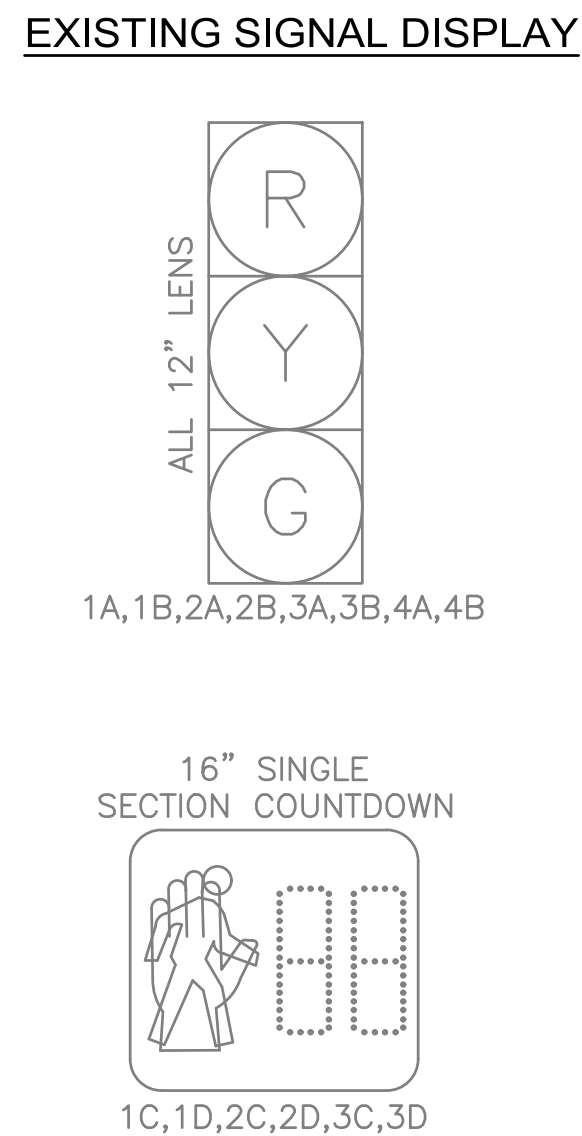
PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS						<div>TOOLE DESIGN</div> <div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div>		HAMPSHIRE STREET SEPARATED BIKE LANES		TRANSPORTATION		PROJECT NO. 00122.01			
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE], LICENSE NO. _____, EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.								CITY OF CAMBRIDGE		TRAFFIC SIGNAL PLAN HAMPSHIRE STREET AT CARDINAL MEDEIROS AVENUE		DATE 8.14.2023			
		DSGN		SA												DRAWING NO. TS-03	
		DR		SA													
		CHK		SR												SHEET NO. 32 OF 37	
		APVD		MD		NO.		DATE		REVISION				BY		APVD	

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Monday, August 14, 2023 4:36:48 PM

PHASING SEQUENCE



SIGNAL FACES

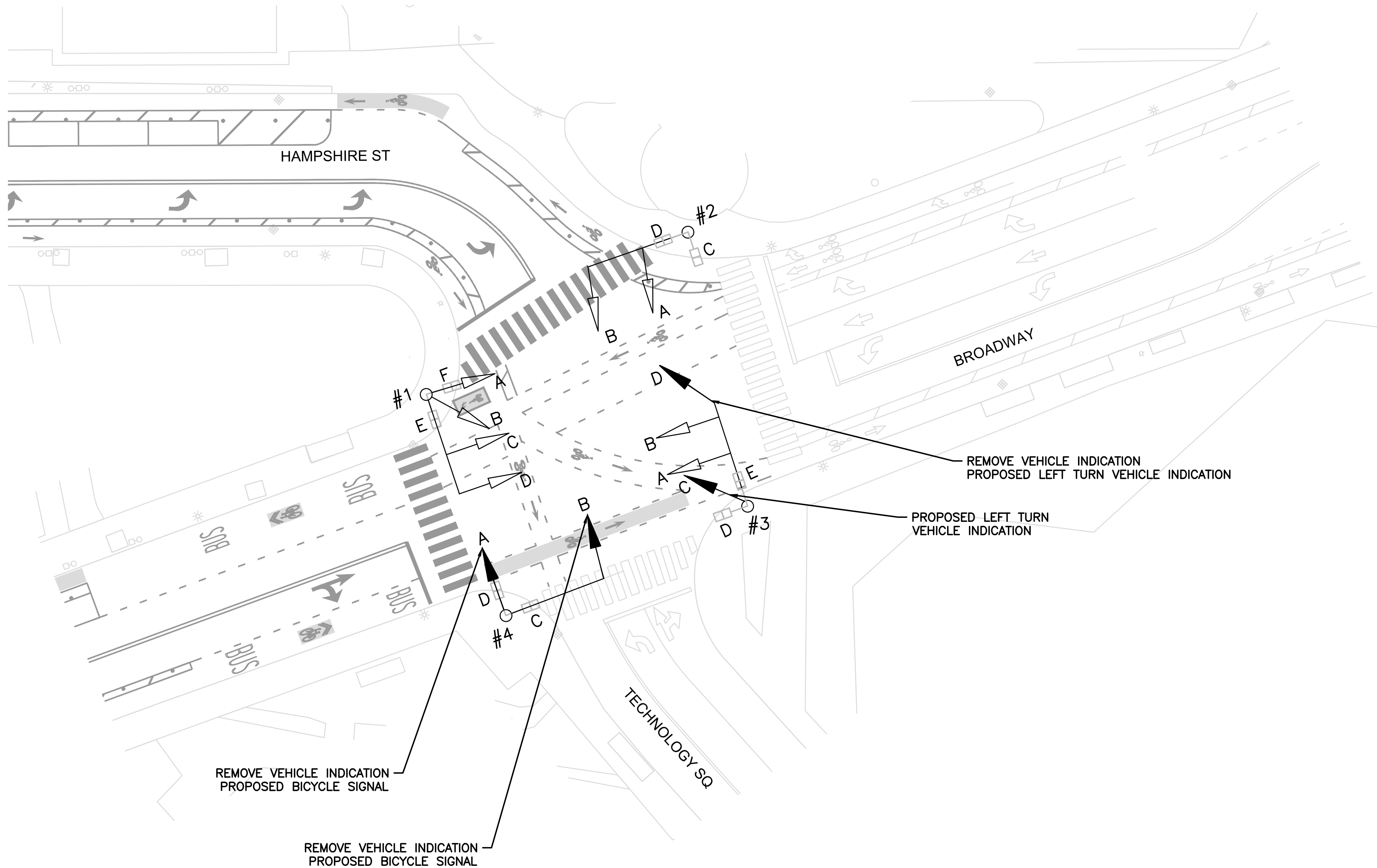
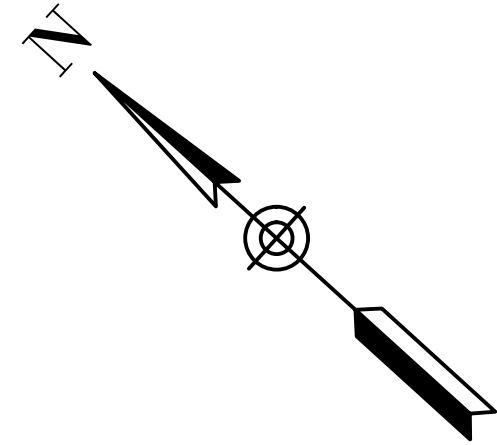


CONSTRUCTION NOTES

INSTALL ALL MISCELLANEOUS EQUIPMENT, WIRING, CABLE AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL PER CAMBRIDGE TRANSPORTATION DEPARTMENT STANDARDS AND LATEST SPECIFICATIONS.

PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION		REUSE OF DOCUMENTS										<div><div>TOOLE DESIGN</div><div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div></div>		HAMPSHIRE STREET SEPARATED BIKE LANES CITY OF CAMBRIDGE		TRANSPORTATION		PROJECT NO. 00122.01	
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE], LICENSE NO. _____, EXPIRATION DATE: _____.		ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.														TRAFFIC SIGNAL SCHEDULE HAMPSHIRE STREET AT CARDINAL MEDEIROS AVENUE		DATE 8.14.2023	
		DSGN		SA														DRAWING NO. TS-04	
		DR		SA															
		CHK		SR														SHEET NO. 33 OF 37	
		APVD		MD		NO.		DATE		REVISION		BY		APVD					



- LEGEND:
- PROPOSED SIGNAL EQUIPMENT
 - EXISTING SIGNAL EQUIPMENT
 - PROPOSED PEDESTRIAN INDICATION
 - EXISTING PEDESTRIAN INDICATION



PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS										<div>TOOLE DESIGN</div> <div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div>		HAMPSHIRE STREET SEPARATED BIKE LANES		TRANSPORTATION		PROJECT NO. 00122.01
I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE]. LICENSE NO. _____, EXPIRATION DATE: _____.	ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.												CITY OF CAMBRIDGE		TRAFFIC SIGNAL PLAN		DATE 8.14.2023
	DSGN	SA														DRAWING NO. TS-05	
	DR	SA															
	CHK	SR															
	APVD	MD	NO.	DATE	REVISION					BY	APVD			HAMPSHIRE STREET AT BROADWAY/TECHNOLOGY SQUARE		SHEET NO. 34 OF 37	

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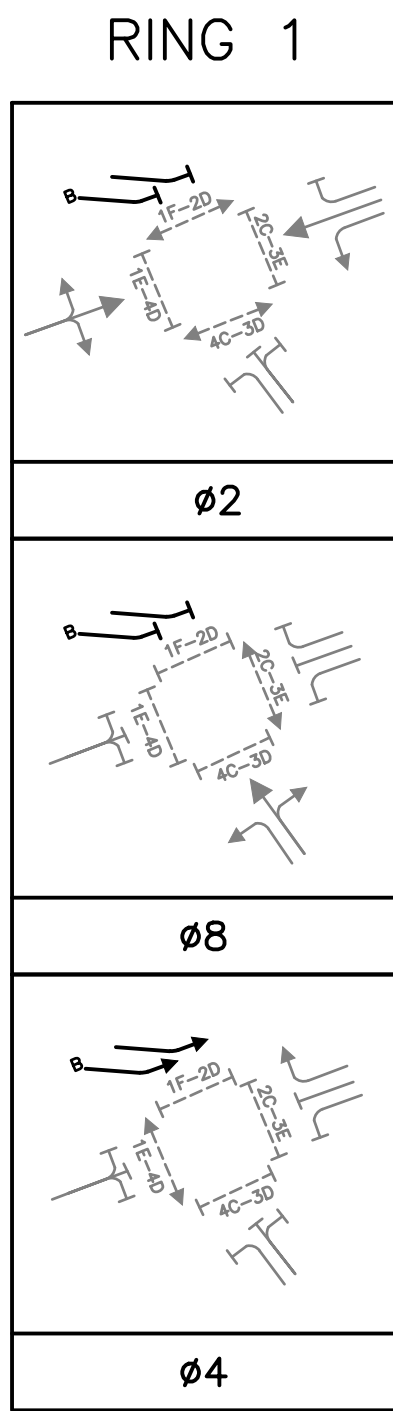
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Monday, August 14, 2023 4:37:30 PM

					TIMING PLAN												FLASHING CODE	
(APPROX.)																		
					ø2				ø8				ø4					
		STREET	DIR.	HEAD	L	GR	CH	CL	L	GR	CH	CL	L	GR	CH	CL		
VEHICLE		BROADWAY	EB	3A,3B	R	G	Y	R	R	R	R	R	R	R	R	R	R	FY
		BROADWAY	WB	1C,1D	R	G	Y	R	R	R	R	R	R	R	R	R	R	FY
		BROADWAY	WB-RT	1A	R	R	R	R	R	R	R	R	R	R	-G>	-Y>	-R>	FY
		TECHNOLOGY SQ	NB	1B,2A,2B	R	R	R	R	R	G	Y	R	R	R	R	R	R	FR
		HAMPSHIRE ST	SB-LT	3C,3D	R	R	R	R	R	R		R	R	R	<G-	<Y-	<R-	FR
WALK																		
		CROSSWALK	E-W	1F-2D	W	W/FDW	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OFF
		CROSSWALK	E-W	4C-3D	W	W/FDW	FDW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	OFF
		CROSSWALK	N-S	1E-4D	DW	DW	DW	DW	DW	DW	DW	DW	W	W/FDW	FDW	DW	DW	OFF
BIKE		CROSSWALK	N-S	2C-3E	DW	DW	DW	DW	W	W/FDW	FDW	DW	DW	DW	DW	DW	DW	OFF
		HAMPSHIRE ST	SB-LT	4A,4B	R	R	R	R	R	R	R	R	R	G	Y	R	R	FR
INTERVAL																		
		MINIMUM GREEN			7				7				7					
		EXTENSION			3				3				3					
		MAX 1 GREEN			36				28				26					
		MAX 2 GREEN			36				28				26					
		MAX 3 GREEN			31				24				20					
		YELLOW CHANGE				3				3				3				
		RED CLEARANCE					2				3					2		
		PEDESTRIAN WALK			3	11				3	7			0	11			
		PEDESTRIAN CLEARANCE					17					15				7		
	MEMORY																	
	RECALL																	
					MAX/PED				MAX/PED				MAX/PED					

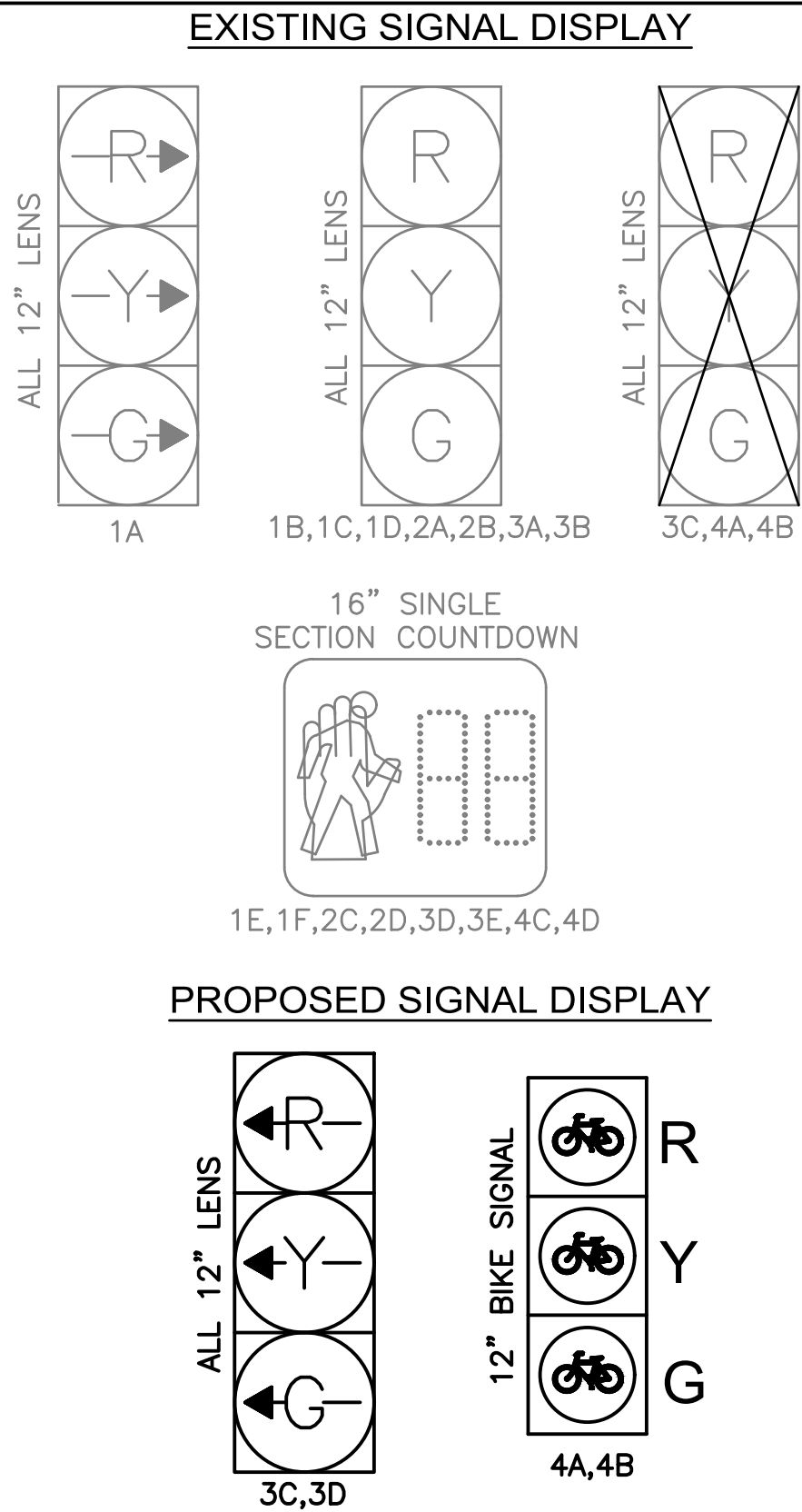
COORDINATION PLAN						
PROGRAM	DAY	TIME	CYCLE LENGTH	OFFSET	PHASE SPLIT	
					Ø2	Ø8 Ø4
MAX 1	M-F	AM PEAK	90	47	36	28 26
MAX 2	M-F	PM PEAK	90	81	36	28 26
MAX 3	M-Su	OFF PEAK	75	33	31	24 20

TECHNICAL NOTES		
1.	PHASE Ø2 IS COORD.	
2.	PEDESTRIAN PHASES REST IN WALK.	

PHASING SEQUENCE



SIGNAL FACES



CONSTRUCTION NOTES

INSTALL ALL MISCELLANEOUS EQUIPMENT, WIRING, CABLE AND MATERIAL NECESSARY TO PROVIDE A COMPLETE OPERATING TRAFFIC CONTROL SIGNAL PER CAMBRIDGE TRANSPORTATION DEPARTMENT STANDARDS AND LATEST SPECIFICATIONS.

PRELIMINARY - NOT FOR CONSTRUCTION

PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF [STATE].
LICENSE NO. _____
EXPIRATION DATE: _____.

REUSE OF DOCUMENTS

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REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.

DSGN	SA
DR	SA
CHK	SR
APVD	MD

NO.

DATE

REVISION

BY

APVD

TOOLE
DESIGN

2 OLIVER STREET, SUITE 305
BOSTON, MA 02109
PHONE: 617.619.9910
FAX: 301.927.2800
www.tooledesign.com

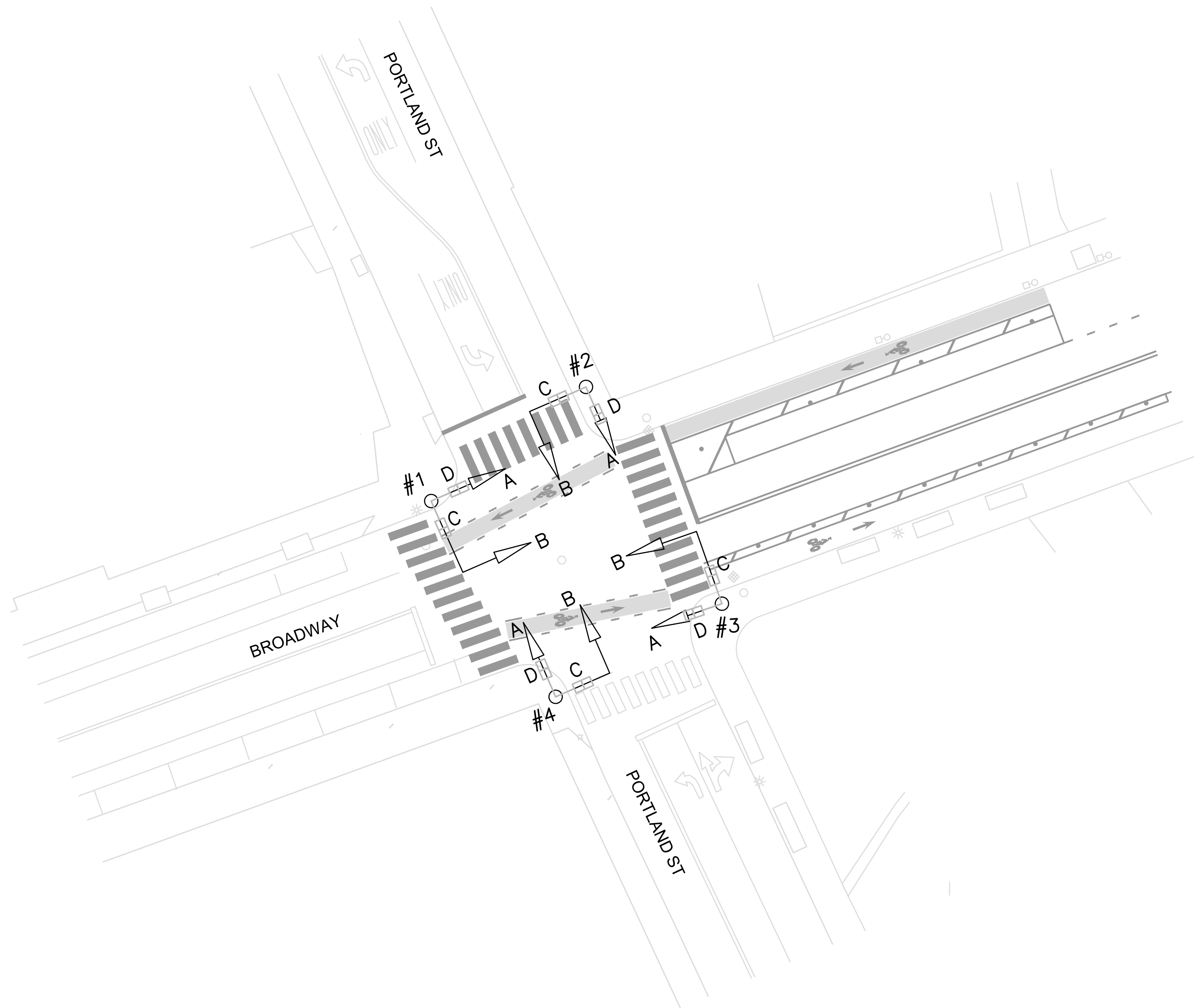
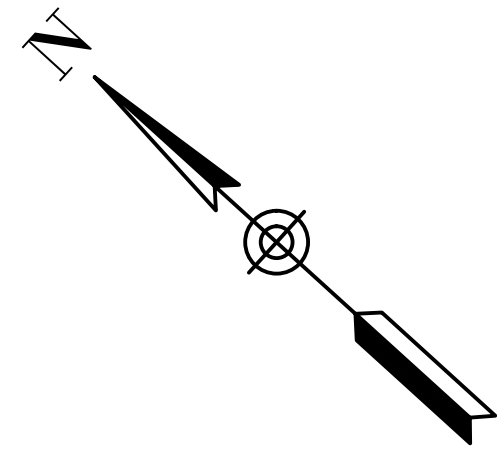
HAMPSHIRE STREET
SEPARATED BIKE LANES

CITY OF CAMBRIDGE

TRANSPORTATION

TRAFFIC SIGNAL SCHEDULE
HAMPSHIRE STREET AT
BROADWAY/TECHNOLOGY SQUARE

PROJECT NO.	00122.01
DATE	8.14.2023
DRAWING NO.	TS-06
SHEET NO.	35 OF 37



- LEGEND:
- PROPOSED SIGNAL EQUIPMENT
 - EXISTING SIGNAL EQUIPMENT
 - PROPOSED PEDESTRIAN INDICATION
 - EXISTING PEDESTRIAN INDICATION



PRELIMINARY - NOT FOR CONSTRUCTION

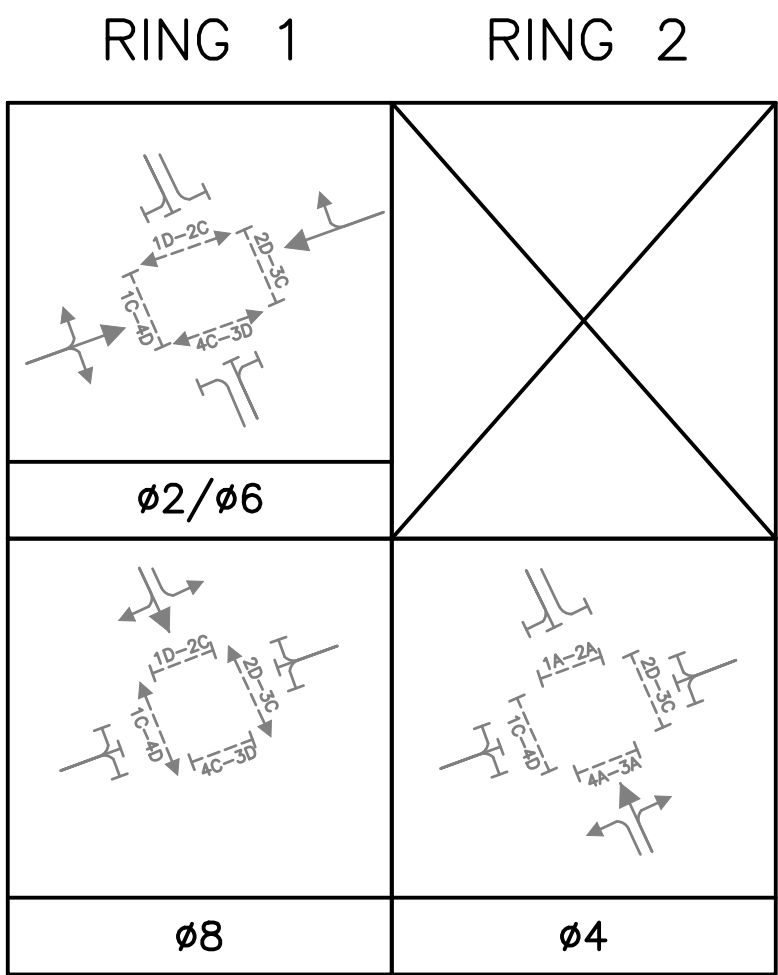
PROFESSIONAL CERTIFICATION	REUSE OF DOCUMENTS										<div><div>TOOLE DESIGN</div><div>2 OLIVER STREET, SUITE 305 BOSTON, MA 02109 PHONE: 617.619.9910 FAX: 301.927.2800 www.tooledesign.com</div></div>	HAMPSHIRE STREET SEPARATED BIKE LANES		TRANSPORTATION		PROJECT NO. 00122.01
	ALL DRAWINGS ARE INSTRUMENTS OF PROFESSIONAL SERVICE FOR THIS PROJECT. REUSE OR ALTERATION IS AT THE USER'S SOLE RISK.											CITY OF CAMBRIDGE		TRAFFIC SIGNAL PLAN BROADWAY AT PORTLAND STREET		
	DSGN	SA										DATE 8.14.2023				
	DR	SA										DRAWING NO. TS-07				
	CHK	SR										SHEET NO. 36 OF 37				
	APVD	MD	NO.	DATE	REVISION	BY	APVD									

H:\6000\00605\00122.01_S_Hampshire Street Separated Bicycle Lanes\PRODUCTION\cad\PLANS\00122.01_TS_001.dwg
Monday, August 14, 2023 4:37:55 PM

<div><div><div>(APPROX.)</div><div><div></div><div></div></div></div><div><div>PORTLAND STREET</div><div>BROADWAY</div></div></div>				TIMING PLAN														VEHICLE WALK
				ø2/ø6				ø8				ø4						
	STREET	DIR.	HEAD	L	GR	CH	CL	L	GR	CH	CL	L	GR	CH	CL			
VEHICLE	BROADWAY	EB	3A,3B	R	G	Y	R	R	R	R	R	—	R	R	R	FY		
	HAMPSHIRE ST	WB	1A,1B	R	G	Y	R	R	R	R	R	—	R	R	R	FY		
	PORTLAND ST	NB	2A,2B	R	R	R	R	R	G	G	G	—	Y	R	R	FR		
	PORTLAND ST	SB	4A,4B	R	R	R	R	R	G	G	G	—	G	Y	R	FR		
WALK	CROSSWALK	E-W	1D-2C	W	W/FDW	FDW	DW	DW	DW	DW	DW	—	DW	DW	DW	OFF		
	CROSSWALK	E-W	4C-3D	W	W/FDW	FDW	DW	DW	DW	DW	DW	—	DW	DW	DW	OFF		
	CROSSWALK	N-S	1C-4D	DW	DW	DW	DW	W	W	FDW	FDW	—	DW	DW	DW	OFF		
	CROSSWALK	N-S	2D-3C	DW	DW	DW	DW	W	W	FDW	FDW	—	DW	DW	DW	OFF		
INTERVAL	MINIMUM GREEN				7				7				7					
	EXTENSION				3				3				3					
	MAX 1 GREEN				49				41				41					
	MAX 2 GREEN				45				45				45					
	MAX 3 GREEN				39				36				36					
	YELLOW CHANGE					3				3				3				
	RED CLEARANCE						1				13				1			
	PEDESTRIAN WALK				3	33			3	25			00	00				
	PEDESTRIAN CLEARANCE						8				9				00			
MEMORY					—				—				—					
RECALL					MAX/PED				MAX/PED				MAX/PED					

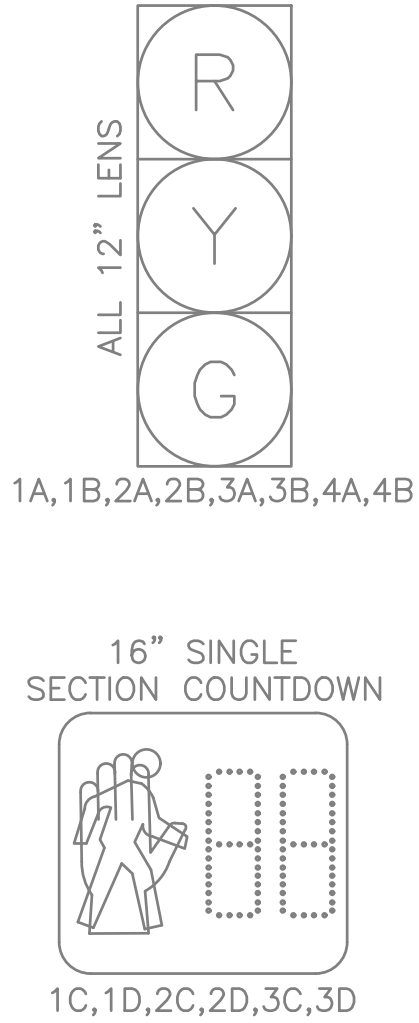
COORDINATION PLAN						TECHNICAL NOTES			
PROGRAM	DAY	TIME	CYCLE LENGTH	OFFSET	PHASE SPLIT ø2/ø6ø8/ø4	1.	PHASES ø2 AND ø6 ARE COORD.		
MAX 1	M-F	AM PEAK	90	56	49 41	2.	PEDESTRIAN PHASES REST IN WALK.		
MAX 2	M-F	PM PEAK	90	81	45 45				
MAX 3	M-Su	OFF PEAK	75	33	39 36				

PHASING SEQUENCE



SIGNAL FACES

EXISTING SIGNAL DISPLAY



CONSTRUCTION NOTES

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DR	SA						
CHK	SR						
APVD	MD	NO.	DATE	REVISION	BY	APVD	

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HAMPSHIRE STREET
SEPARATED BIKE LANES

CITY OF CAMBRIDGE

TRANSPORTATION

TRAFFIC SIGNAL SCHEDULE
BROADWAY AT PORTLAND STREET

PROJECT NO.	00122.01
DATE	8.14.2023
DRAWING NO.	TS-08
SHEET NO.	37 OF 37