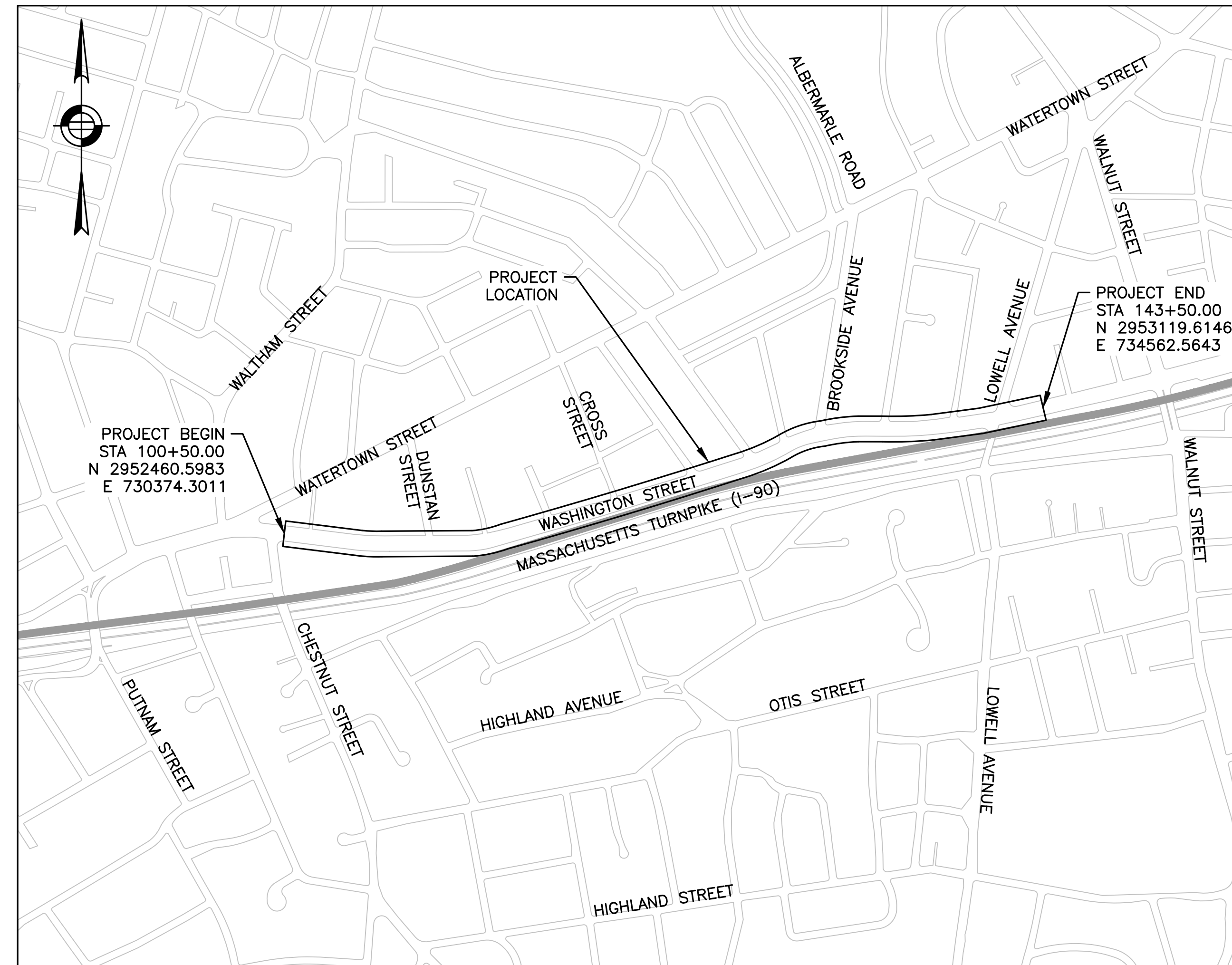


THE CITY OF NEWTON, MASSACHUSETTS WASHINGTON STREET PILOT PROGRAM

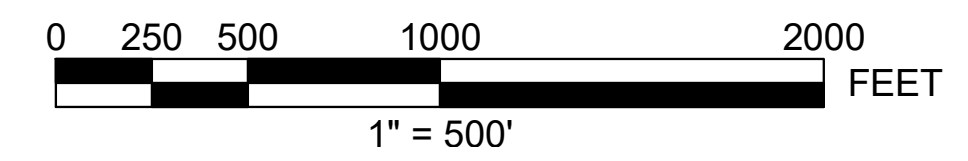
MIDDLESEX COUNTY

PSE DESIGN SUBMISSION

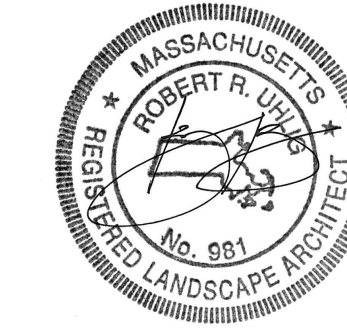
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LOCUS PLAN



ALL WORK UNDER THIS CONTRACT SHALL BE DONE IN CONFORMANCE WITH THE CITY OF NEWTON STANDARD DETAILS, CITY OF NEWTON SPECIFICATIONS, AND CITY OF NEWTON ENGINEERING DIRECTIVES, MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 2024, THE 2017 CONSTRUCTION STANDARD DETAILS, THE 2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS; THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH MASSACHUSETTS AMENDMENTS AND THE STANDARD MUNICIPAL TRAFFIC CODE; THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING; THE LATEST EDITION OF AMERICAN STANDARD FOR NURSERY STOCK; THE PLANS AND THESE SPECIAL PROVISIONS. WHERE CONFLICTS EXIST, THE CITY OF NEWTON STANDARDS AND SPECIFICATIONS SHALL GOVERN.



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DATE	DESCRIPTION	REV #
09/12/2024	PSE HIGHWAY DESIGN PLANS	
08/23/2024	100%/PSE HIGHWAY DESIGN PLANS	
04/08/2024	25%/75% HIGHWAY DESIGN PLANS	

**WASHINGTON STREET PILOT
TITLE SHEET AND INDEX**

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	1	43

GENERAL NOTES

1. THE EXISTING CONDITIONS SHOWN ON THESE PLANS CONSIST OF A COMBINATION OF MASSGIS DATA, LIDAR SURVEY AND AN ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY DAWOOD ENGINEERING, INC. ON MARCH 6, 2023.
2. THE ELEVATIONS DEPICTED ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988 (USFT). ELEVATIONS ARE ESTABLISHED BY USING MEANS OF THE MASSACHUSETTS CONTINUOUSLY OPERATING REFERENCE STATION NETWORK (MACORS).
3. THE HORIZONTAL CONTROL DEPICTED ARE BASED ON MASSACHUSETTS COORDINATE SYSTEM, MAINLAND ZONE, NAD83(2011) EPOCH 2010.00. THE HORIZONTAL CONTROL ARE ESTABLISHED BY USING MEANS OF THE MASSACHUSETTS CONTINUOUSLY OPERATING REFERENCE STATION NETWORK (MACORS).
4. ABUTTER INFORMATION AND APPROXIMATE BOUNDARY LINES SHOWN HEREON HAVE BEEN COMPILED FROM MASSGIS DATA.

5.

TEMPORARY BENCHMARK INFORMATION				
TBM #	DESCRIPTION	ELEVATION	NORTHING	EASTING
52	MAGNAILSET	59.18	5905597.7078	1465507.5127
53	DHSET	61.06	5905526.8902	1465251.5675
54	MAGNAILSET	62.80	5905459.3778	1464957.1922
55	DHSET	60.88	5905405.2292	1464668.5654
56	MAGNAILSET	57.52	5905379.0064	1464302.4587
658	MAGNAILFND	52.78	5905322.1406	1463774.7733
59	MAGNAILSET	50.73	5905191.5937	1463495.0459
60	MAGNAILSET	49.74	5905091.6317	1463195.1060
61	MAGNAILSET	51.18	5904977.9067	1462823.5107
63	MAGNAILSET	52.69	5904775.0994	1462123.5278
64	MAGNAILSET	52.95	5904751.8504	1461914.2841
65	MAGNAILFND	53.15	5904757.5666	1461749.6638
66	MAGNAILSET	51.15	5904754.8991	1461426.0573
67	MAGNAILSET	48.49	5904787.0442	1461106.1212
69	MAGNAILSET	48.77	5904837.8270	1460809.4286

6. EXISTING UTILITIES ARE SHOWN HEREON FROM SURFACE VISIBLE EVIDENCE OBSERVED AT THE TIME OF SURVEY. OTHER UNDERGROUND UTILITIES ARE KNOWN TO EXIST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY LOCATING AND COORDINATING ANY ON-SITE ACTIVITY WITH DIG-SAFE AND THE APPROPRIATE UTILITY COMPANY AND MAINTAINING EXISTING UTILITY SYSTEM SERVICE. DIG-SAFE SHALL BE NOTIFIED PER THE COMMONWEALTH OF MASSACHUSETTS STATUTE CHAPTER 82, SECTION 40, AT 1-888-344-7233. NO GUARANTEE IS IMPLIED OR INTENDED AS TO THE ACCURACY, LOCATION OR THAT ALL UTILITIES AND/OR SUBSURFACE STRUCTURES ARE SHOWN. THE CONTRACTOR SHALL VERIFY SIZE, LOCATION AND INVERTS OR UTILITIES AND STRUCTURES AS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
7. THE CONTRACTOR SHALL RE-ESTABLISH SURVEY CONTROL PRIOR TO BEGINNING WORK ON THIS CONTRACT.
8. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENT OF ELECTRIC, TELEPHONE, AND ANY OTHER PRIVATE UTILITIES BY THE UTILITY COMPANIES AT NO ADDITIONAL COST TO THE OWNER. IF THE CONTRACTOR ADJUSTS UTILITY COVERS IT SHALL BE DEEMED PART OF THE WORK AND THERE WILL BE NO ADDITIONAL COMPENSATION.
9. AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DAMAGED BY THE CONTRACTOR'S OPERATIONS, INCLUDING STAGING AREAS, SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND PROTECT EXISTING CONCRETE PANELS DURING MILLING AND PAVING OPERATIONS.
11. THE CONTRACTOR IS HEREBY NOTIFIED THAT ADDITIONAL WORK WITHIN THE PROJECT LIMITS MAY BE PERFORMED BY OTHERS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INVESTIGATING AND CONFIRMING THAT ALL ITEMS TO BE REUSED ARE IN SERVICEABLE CONDITION. IF IT IS DEEMED THAT ANY ITEM IS NOT ABLE TO BE REUSED, THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING AND INCLUDE ESTIMATED COSTS TO INSTALL NEW.
13. TEMPORARY TRAFFIC CONTROL PLANS CONTAINED HEREIN ARE GIVEN AS A GUIDE FOR TYPICAL WORK ZONE TRAFFIC CONTROL APPLICATIONS FOR THE TYPES OF WORK ANTICIPATED FOR THIS PROJECT. THEY ARE NOT INTENDED TO COVER ALL POSSIBLE CONSTRUCTION OPERATIONS WHICH THE CONTRACTOR MAY CHOOSE TO EMPLOY. WORK ZONE TRAFFIC CONTROL FOR OTHER CONSTRUCTION OPERATIONS OR OTHER TRAFFIC SITUATIONS IF APPLICABLE SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD AND AS APPROVED OR DIRECTED BY RESIDENT ENGINEER.

PAVEMENT NOTES

PAVEMENT MILL AND OVERLAY:

SURFACE COURSE: 1.5" SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5) OVER ASPHALT EMULSION FOR TACK COAT

PAVEMENT MILLING: 1.5" PAVEMENT FINE MILLING

CEMENT CONCRETE SIDEWALK:

SURFACE COURSE: 4" CEMENT CONCRETE SURFACE (4000 PSI, 3/4" STONE) OVER

SUB-BASE: 6" GRAVEL BORROW OVER 2" DENSE GRADED CRUSHED STONE FOR LEVELING

CEMENT CONCRETE PEDESTRIAN CURB RAMP:

SURFACE COURSE: 8" CEMENT CONCRETE SURFACE (4000 PSI, 3/4" STONE) OVER OVER

SUB-BASE: 8" GRAVEL BORROW

HOT MIX ASPHALT SIDEWALK:

SURFACE COURSE: 1 1/2" SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5) OVER ASPHALT EMULSION FOR TACK COAT

INTERMEDIATE COURSE: 1 1/2" SUPERPAVE INTERMEDIATE COURSE - 12.5 (SSC - 12.5)

SUB-BASE: 8" GRAVEL BORROW

MWRA NOTES

1. PRIOR TO CONSTRUCTION ACTIVITY ADJACENT TO MWRA FACILITIES, THE CONTRACTOR SHALL PROVIDE AT LEAST 72-HOUR PRIOR NOTICE TO THE MWRA'S INSPECTION DEPARTMENT, BY CALLING (617) 305-5833, LOCATED AT 2 GRIFFIN WAY, CHELSEA, MA 02150.
2. SUITABLE COMPACTION METHODS SHALL BE EMPLOYED IN RESTORING THE BEDS OF THE MWRA'S MAINS BACKFILLING AROUND THE MWRA'S MAIN SHALL BE PLACED IN MAXIMUM 6-INCH LIFTS AND COMPACTED BY HAND VIBRATORY COMPACTORS.
3. THE MWRA PIPELINE MUST BE PROTECTED AT ALL TIMES DURING CONSTRUCTION. THE MWRA MAY REQUIRE A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MASSACHUSETTS TO SUBMIT A CONSTRUCTION PLAN AND OR PIPELINE ANALYSIS.
4. FOR TEST PIT EXCAVATIONS OR UNEARTHING OF THE MWRA'S WATER MAIN TO THE LAST 2-FEET, BEFORE THE TOP OF PIPE, MUST BE EXCAVATED BY HAND OR USE A VACUUM BORING METHOD AND BACKFILL WITH APPROVED MATERIAL WITHIN AN EASEMENT OR ROADWAY AREA.
5. ANY ADJUSTMENTS TO ANY OR ALL MWRA FRAMES AND COVERS TO GRADE WITHIN THEIR LIMITS OF WORK IN ACCORDANCE WITH THE PLANS REFERENCED. THE MWRA WILL PROVIDE NEW REPLACEMENT MWRA FRAMES AND COVERS (AT NO EXPENSE) FOR ANY EXISTING FRAMES AND COVERS THAT HAVE BEEN DEEMED UNUSABLE BY MWRA PERSONNEL.
6. ALL MWRA MANHOLE OPENINGS THAT WERE COVERED DURING THE BINDER COURSE INSTALLATION SHALL BE MADE ACCESSIBLE WITHIN 48-HOURS. MWRA MANHOLE FRAME AND COVERS SHALL NOT BE REMOVED FOR GRINDING AND OR PULVERIZING. PULVERIZING IS NOT ALLOWED OVER MWRA MANHOLE STRUCTURES.
7. THE CONTRACTOR SHALL NOTIFY IN WRITING, ALONG WITH EMERGENCY CONTACT INFORMATION WHENEVER MWRA VALVES (MANHOLE COVERS) OR FACILITIES ARE COVERED OR OBSTRUCTED.
8. MWRA INSPECTION PERSONNEL MUST BE ON SITE WHENEVER EXCAVATION, CONSTRUCTION, HOISTING OR RIGGING OCCURS AROUND AN MWRA WATER MAIN PIPELINE.
9. NO CONSTRUCTION EQUIPMENT INCLUDING CRANES, BACKHOES, OR MATERIAL MAY BE PARKED, STATIONED, SET UP, OR STORED ON TOP OF THE MWRA'S WATER MAINS OR INFRASTRUCTURE.
10. THE CONTRACTOR SHALL CONTACT THE MWRA THREE (3) WEEKS IN ADVANCE WHEN AN MWRA WATER MAIN VALVE MUST BE OPERATED. ONLY MWRA PERSONNEL WILL OPERATE MWRA VALVES. THE CONTRACTOR SHALL NOT OPERATE ANY MWRA VALVES. MWRA VALVE OPERATIONS ARE LIMITED DURING PEAK DEMAND PERIODS AND MAY NOT BE AVAILABLE BETWEEN THE DATES OF MAY 15TH AND SEPTEMBER 15TH OF EACH CALENDAR YEAR.
11. THE CONTRACTOR WILL BE RESPONSIBLE TO PROTECT AND CORRECT ANY DAMAGE(S) TO THE MWRA'S PROPERTY OR PIPELINE AT NO COST TO THE MWRA.
12. AS-BUILT DRAWINGS SHALL BE FURNISHED TO THE MWRA UPON THE COMPLETION OF THE WORK AUTHORIZED. A PROFESSIONAL MASSACHUSETTS REGISTERED LAND SURVEYOR OR ENGINEER SHALL STAMP AS-BUILT DRAWINGS.
13. WHERE PIPE JACKING IS REQUIRED FOR WORK THAT IS IN CLOSE PROXIMITY TO THE MWRA'S WATER MAINS, SUBMITTALS PREPARED BY A PROFESSIONAL ENGINEER AND REVIEWED BY THE MWRA ARE REQUIRED.



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**WASHINGTON STREET PILOT
 GENERAL NOTES**

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2021163.00	09/12/24	RF	VC	RL	2	43

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		JERSEY BARRIER
		CATCH BASIN
		CATCH BASIN CURB INLET
		FLAG POLE
		GAS PUMP
		MAIL BOX
		POST SQUARE
		POST CIRCULAR
		WELL
		ELECTRIC HANDHOLE
		FENCE GATE POST
		GAS GATE
		BORING HOLE
		MONITORING WELL
		TEST PIT
		HYDRANT
		LIGHT POLE
		COUNTY BOUND
		GPS POINT
		CABLE MANHOLE
		DRAINAGE MANHOLE
		ELECTRIC MANHOLE
		GAS MANHOLE
		MISC MANHOLE
		SEWER MANHOLE
		TELEPHONE MANHOLE
		WATER MANHOLE
		MASSACHUSETTS HIGHWAY BOUND
		MONUMENT
		STONE BOUND
		TOWN OR CITY BOUND
		TRAVERSE OR TRIANGULATION STATION
		TROLLEY POLE OR GUY POLE
		TRANSMISSION POLE
		UTILITY POLE W/ FIREBOX
		UTILITY POLE WITH DOUBLE LIGHT
		UTILITY POLE W / 1 LIGHT
		UTILITY POLE
		BUSH
		TREE
		STUMP
		SWAMP / MARSH
		WATER GATE
		PARKING METER
		OVERHEAD CABLE/WIRE
		CURBING
		CONTOURS (ON-THE-GROUND SURVEY DATA)
		CONTOURS (PHOTOGRAMMETRIC DATA)
		UNDERGROUND DRAIN PIPE (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND ELECTRIC DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND GAS MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND SEWER MAIN (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND TELEPHONE DUCT (DOUBLE LINE 24 INCH AND OVER)
		UNDERGROUND WATER MAIN (DOUBLE LINE 24 INCH AND OVER)
		BALANCED STONE WALL
		GUARD RAIL - STEEL POSTS
		GUARD RAIL - WOOD POSTS
		GUARD RAIL - DOUBLE FACE - STEEL POSTS
		GUARD RAIL - DOUBLE FACE - WOOD POSTS
		CHAIN LINK OR METAL FENCE
		WOOD FENCE
		SEDIMENT CONTROL BARRIER
		TREE LINE
		SAWCUT LINE
		TOP OR BOTTOM OF SLOPE
		LIMIT OF EDGE OF PAVEMENT OR COLD PLANE AND OVERLAY
		BANK OF RIVER OR STREAM
		BORDER OF WETLAND
		100 FT WETLAND BUFFER
		200 FT RIVERFRONT BUFFER
		STATE HIGHWAY LAYOUT
		TOWN OR CITY LAYOUT
		COUNTY LAYOUT
		RAILROAD SIDELINE
		TOWN OR CITY BOUNDARY LINE
		PROPERTY LINE OR APPROXIMATE PROPERTY LINE
		EASEMENT

TRAFFIC SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		SIGNAL POST AND BASE (ALPHA-NUMERIC DESIGNATION NOTED)
		MAST ARM, SHAFT AND BASE (ARM LENGTH AS NOTED)
		SIGN AND POST
		SIGN AND POST (2 POSTS)

PAVEMENT MARKINGS SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
		PAVEMENT ARROW - WHITE
		LEGEND "ONLY" - WHITE
		12" STOP LINE
		CROSSWALK (SEE CONSTRUCTION DETAILS FOR SPACING)
		6" SOLID WHITE LINE
		6" SOLID YELLOW LINE
		6" BROKEN WHITE LINE (10' MARK 30' SKIP)
		6" BROKEN YELLOW LINE (10' MARK 30' SKIP)
		6" DOTTED YELLOW LINE (3' MARK 9' SKIP)
		6" DOTTED WHITE LINE EXTENSION (2' MARK 4' SKIP)
		6" DOUBLE YELLOW LINE
		12" WIDE DOTTED WHITE BIKE LINE (SEE CONSTRUCTION DETAILS FOR SPACING)
		6" DOTTED YELLOW BIKE CENTER LINE (SEE CONSTRUCTION DETAILS FOR SPACING)
		12" WIDE SOLID WHITE LINE (SEE PAVEMENT MARKINGS AND SIGNAGE FOR SPACING)
		12" WIDE SOLID YELLOW LINE (SEE PAVEMENT MARKINGS AND SIGNAGE FOR SPACING)
		GREEN COLORIZED PAVEMENT MARKING

ABBREVIATIONS

GENERAL	DESCRIPTION
AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
ACCM PIPE	ASPHALT COATED CORRUGATED METAL PIPE
BIT.	BITUMINOUS
BC	BOTTOM OF CURB
BD.	BOUND
BL	BASELINE
BLDG	BUILDING
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
CB	CATCH BASIN
CBCI	CATCH BASIN WITH CURB INLET
CC	CEMENT CONCRETE
CCM	CEMENT CONCRETE MASONRY
CEM	CEMENT
CI	CURB INLET
CIP	CAST IRON PIPE
CLF	CHAIN LINK FENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CSP	CORRUGATED STEEL PIPE
CO.	COUNTY
CONC	CONCRETE
CONT	CONTINUOUS
CONST	CONSTRUCTION
CR GR	CROWN GRADE
DHV	DESIGN HOURLY VOLUME
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DW	STEADY DON'T WALK - PORTLAND ORANGE
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EMB	EMBANKMENT
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
EXC	EXCAVATION
F&C	FRAME AND COVER
F&G	FRAME AND GRATE
FDN.	FOUNDATION
FLDSTN	FIELDSTONE
GAR	GARAGE
GD	GROUND
GG	GAS GATE
GI	GUTTER INLET
GIP	GALVANIZED IRON PIPE
GRAN	GRANITE
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LB	LEACH BASIN
LP	LIGHT POLE
LT	LEFT
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MHB	MASSACHUSETTS HIGHWAY BOUND
MIN	MINIMUM
NIC	NOT IN CONTRACT
NO.	NUMBER
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PRC	POINT OF REVERSE CURVATURE
PROJ	PROJECT
PROP	PROPOSED
PSB	PLANTABLE SOIL BORROW
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PVMT	PAVEMENT
PWW	PAVED WATER WAY

ABBREVIATIONS (CONTINUED)

GENERAL	DESCRIPTION
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RDWY	ROADWAY
REM	REMOVE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
RR	RAILROAD
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SHLD	SHOULDER
SMH	SEWER MANHOLE
ST	STREET
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SHLO	STATE HIGHWAY LAYOUT LINE
SW	SIDEWALK
T	TANGENT DISTANCE OF CURVE/TRUCK %
TAN	TANGENT
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
WCR	WHEEL CHAIR RAMP
WG	WATER GATE
WIP	WROUGHT IRON PIPE
WM	WATER METER/WATER MAIN
X-SECT	CROSS SECTION

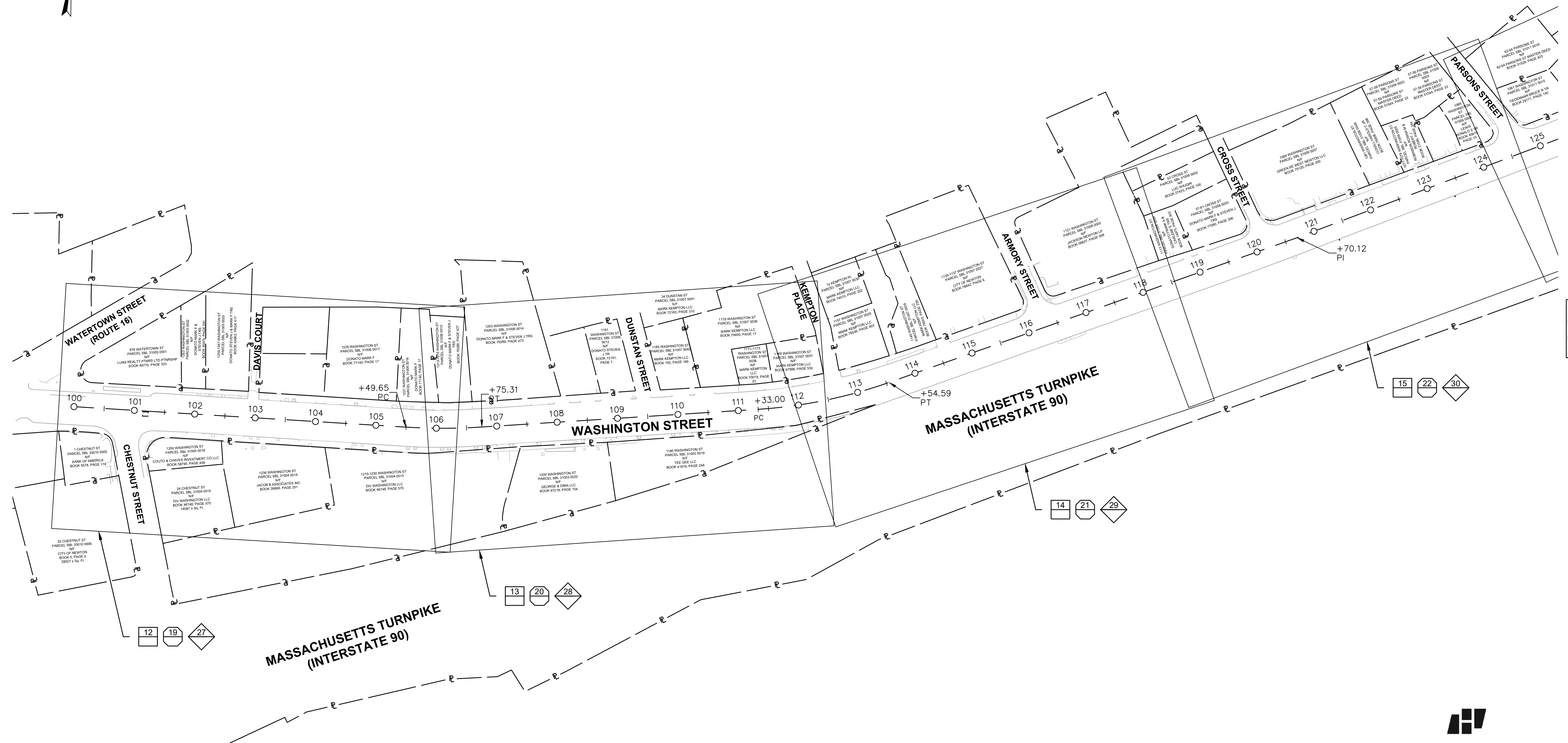
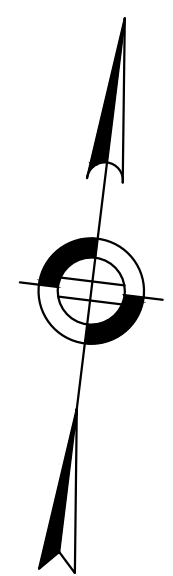
TRAFFIC SIGNAL ABBREVIATIONS

CAB	CABINET
CCVE	CLOSED CIRCUIT VIDEO EQUIPMENT
DW	STEADY UPRAISED HAND
FDW	FLASHING UPRAISED HAND
FR	FLASHING CIRCULAR RED
FRL	FLASHING RED LEFT ARROW
FRR	FLASHING RED RIGHT ARROW
FY	FLASHING CIRCULAR YELLOW
FYL	FLASHING YELLOW LEFT ARROW
FYR	FLASHING YELLOW RIGHT ARROW
G	STEADY CIRCULAR GREEN
GL	STEADY GREEN LEFT ARROW
GR	STEADY GREEN RIGHT ARROW
GSL	STEADY GREEN SLASH LEFT ARROW
GSR	STEADY GREEN SLASH RIGHT ARROW
GV	STEADY GREEN VERTICAL ARROW
OL	OVERLAP
PED	PEDESTRIAN
PTZ	PAN, TILT, ZOOM
R	STEADY CIRCULAR RED
RL	STEADY RED LEFT ARROW
RR	STEADY RED RIGHT ARROW
TR SIG	TRAFFIC SIGNAL
TSC	TRAFFIC SIGNAL CONDUIT
W	STEADY WALKING PERSON
Y	STEADY CIRCULAR YELLOW
YL	STEADY YELLOW LEFT ARROW

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**WASHINGTON STREET PILOT
 LEGEND AND ABBREVIATIONS**

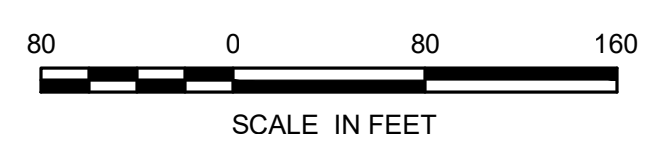
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	3	43



CONTINUED ON SHEET NO. 5

LEGEND

- CONSTRUCTION PLANS
- TRAFFIC SIGN & PAVEMENT MARKING PLANS
- LANDSCAPING PLANS

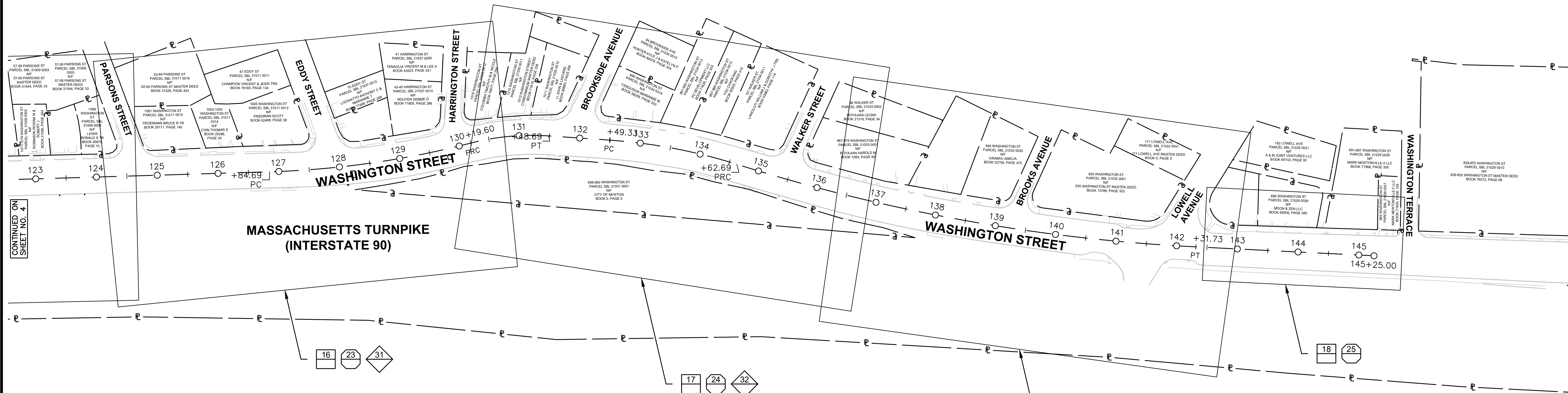
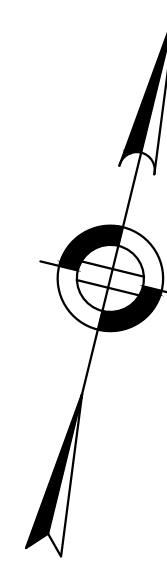


**WASHINGTON STREET PILOT
KEY PLANS
SHEET 1 OF 2**

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	4	43

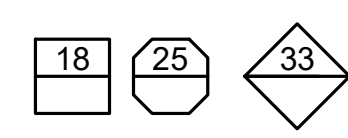
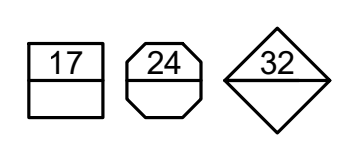
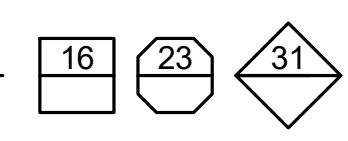
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SHEET NO. 4

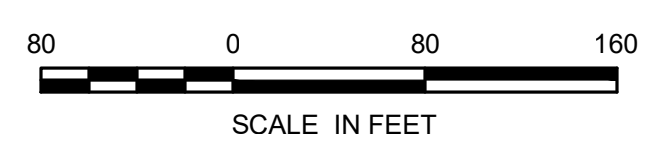
MASSACHUSETTS TURNPIKE
(INTERSTATE 90)



LEGEND

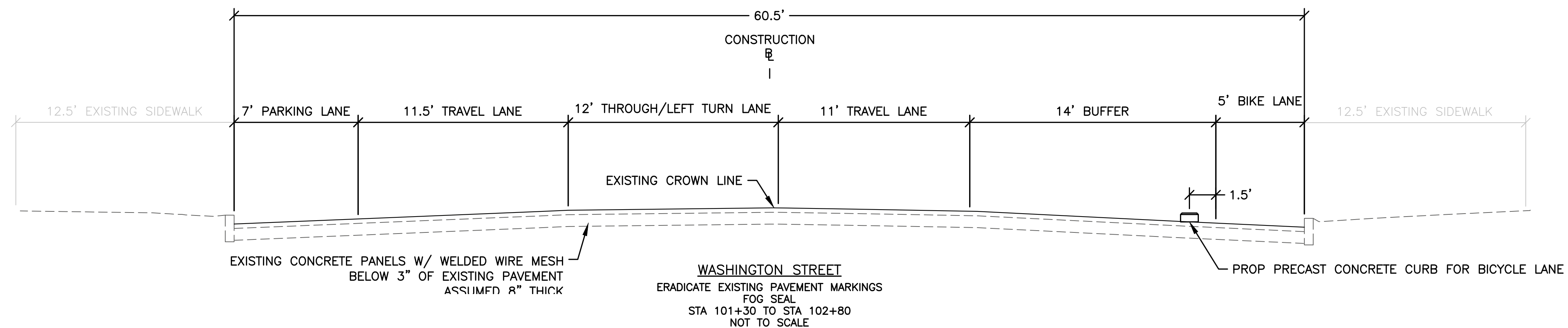
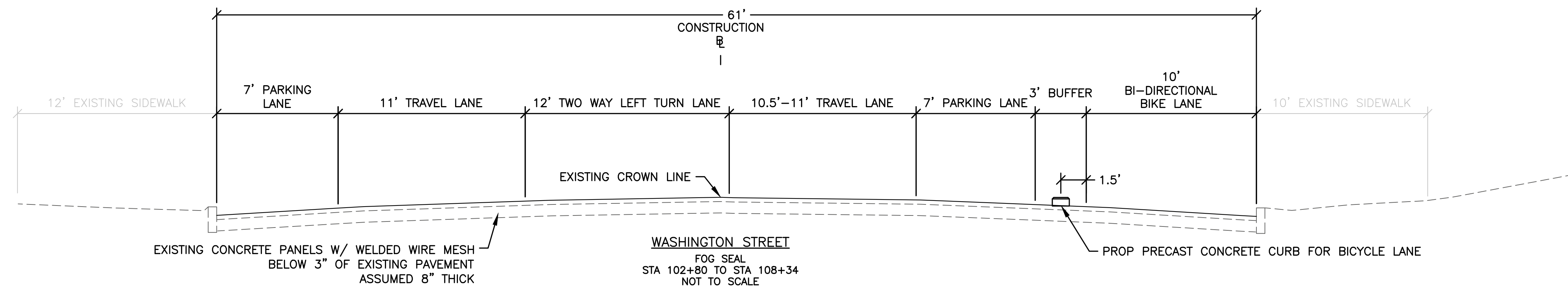
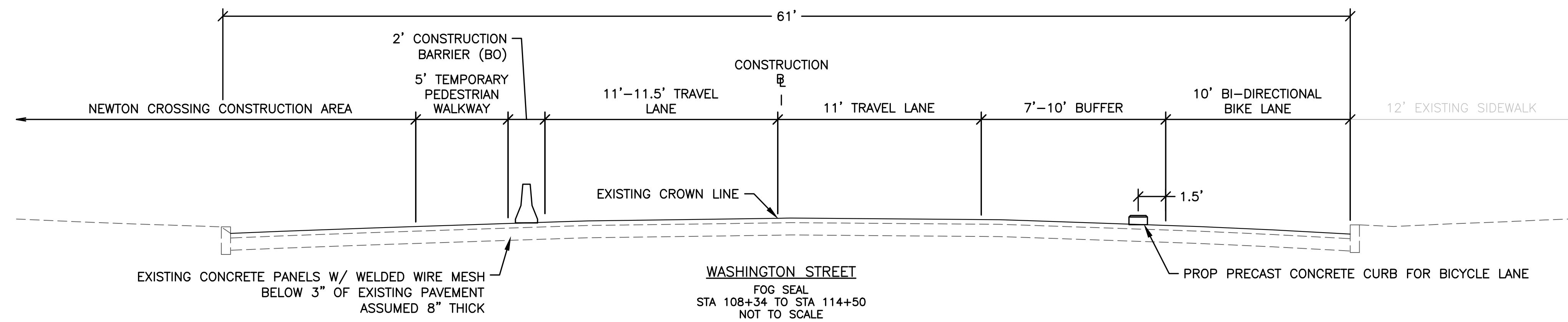
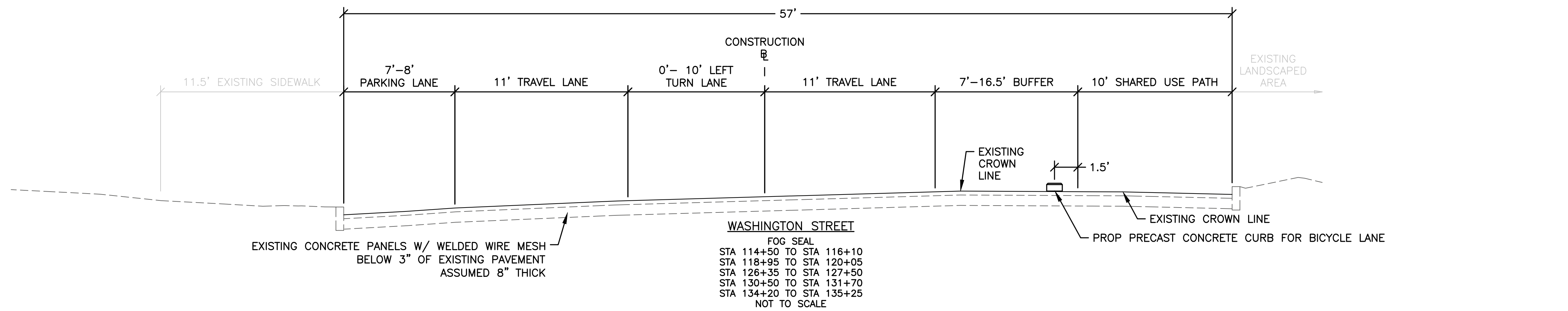
	CONSTRUCTION PLANS
	TRAFFIC SIGN & PAVEMENT MARKING PLANS
	LANDSCAPING PLANS

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**WASHINGTON STREET PILOT
KEY PLANS
SHEET 2 OF 2**

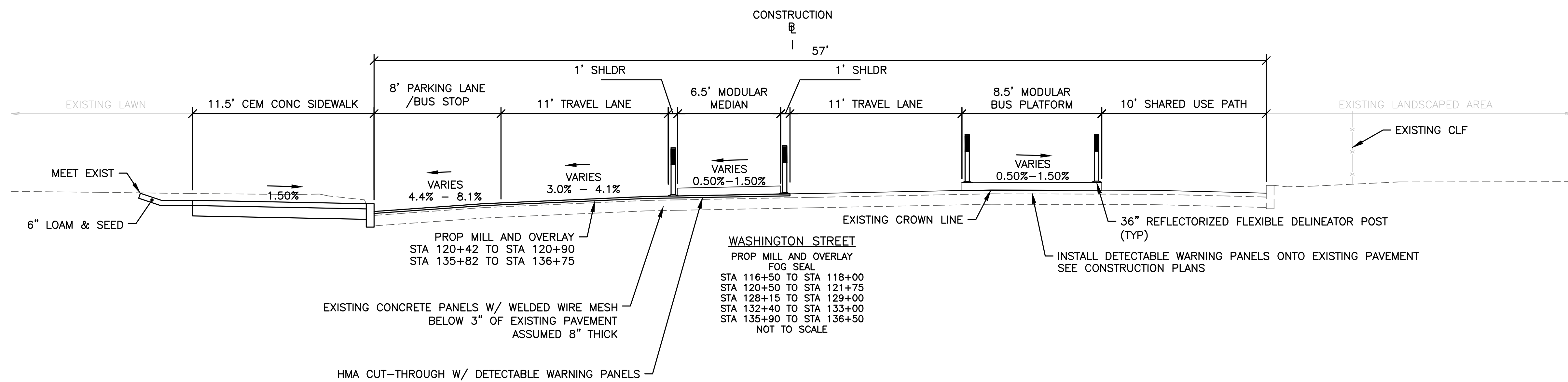
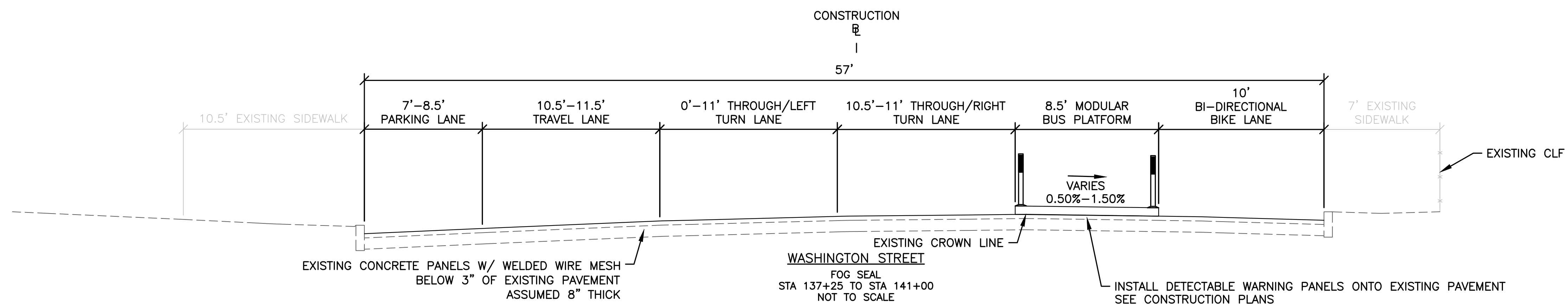
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2021163.00	09/12/24	RF	VC	RL	5	43



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**WASHINGTON STREET PILOT
 TYPICAL SECTIONS
 SHEET 1 OF 2**

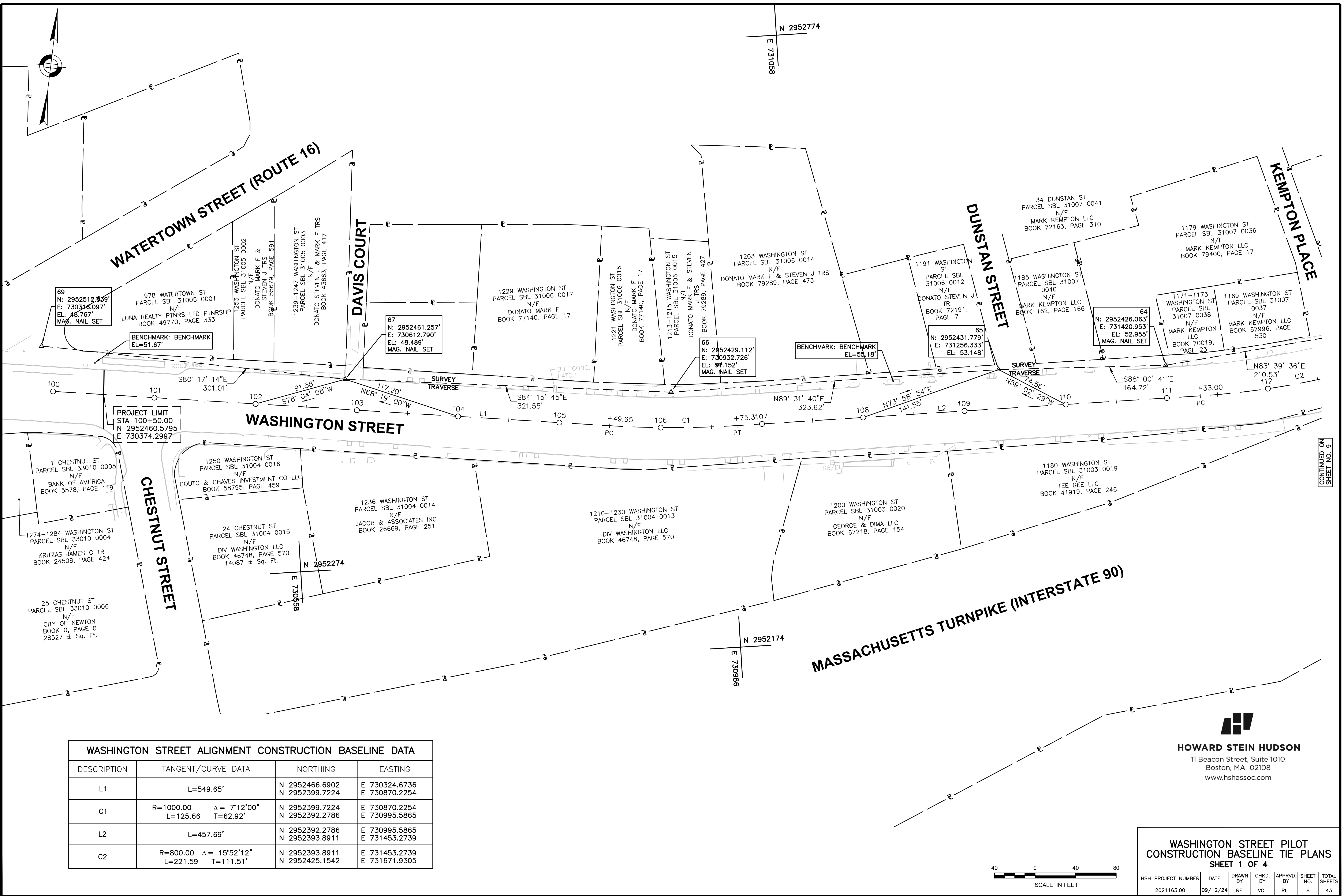
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	6	43



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**WASHINGTON STREET PILOT
 TYPICAL SECTIONS
 SHEET 2 OF 2**

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2021163.00	09/12/24	RF	VC	RL	7	43



WASHINGTON STREET ALIGNMENT CONSTRUCTION BASELINE DATA

DESCRIPTION	TANGENT/CURVE DATA	NORTHING	EASTING
L1	L=549.65'	N 2952466.6902 N 2952399.7224	E 730324.6736 E 730870.2254
C1	R=1000.00 Δ = 7°12'00" L=125.66 T=62.92'	N 2952399.7224 N 2952392.2786	E 730870.2254 E 730995.5865
L2	L=457.69'	N 2952392.2786 N 2952393.8911	E 730995.5865 E 731453.2739
C2	R=800.00 Δ = 15°52'12" L=221.59 T=111.51'	N 2952393.8911 N 2952425.1542	E 731453.2739 E 731671.9305

WASHINGTON STREET PILOT CONSTRUCTION BASELINE TIE PLANS SHEET 1 OF 4

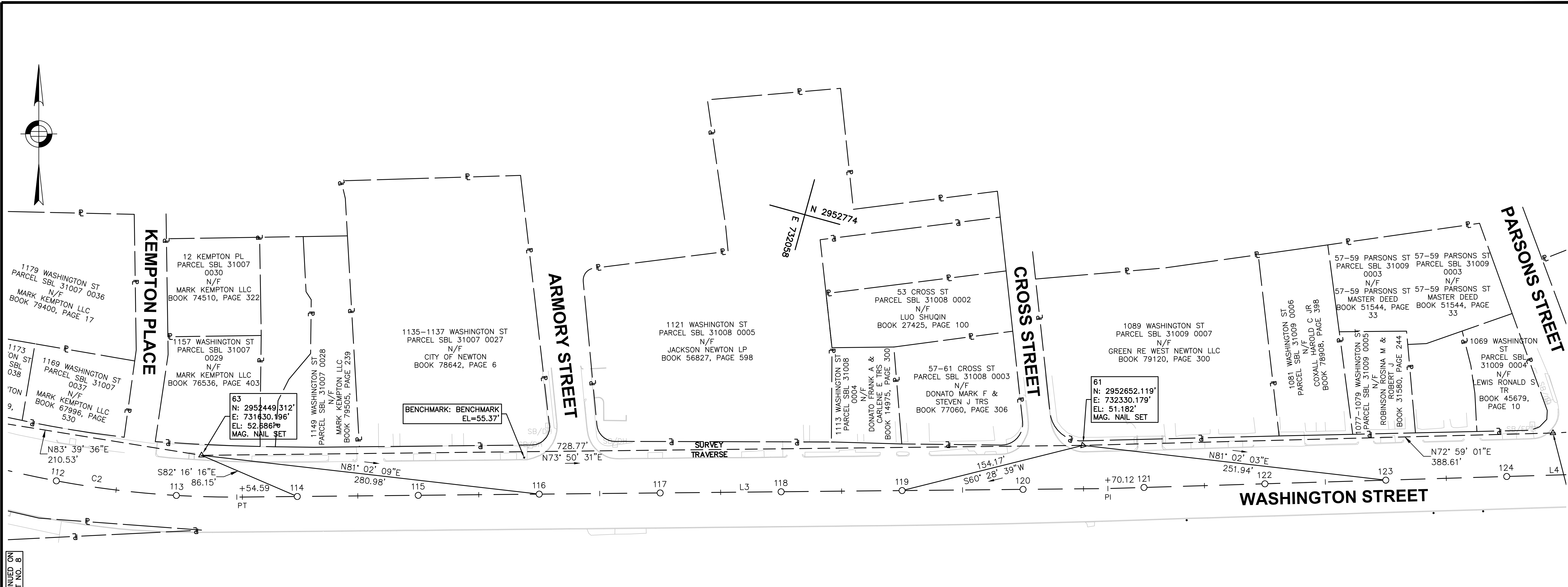
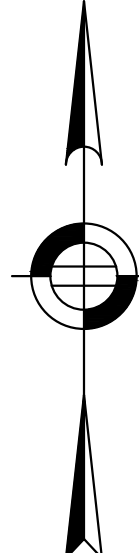
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	8	43



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9/12/2024 L:\1163\CURRENT\CUTSHEETS\21163_HD\BASELINE TIE PLAN.dwg
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 Printed by: Valerie Chen

CONTINUED ON SHEET NO. 9



CONTINUED ON SHEET NO. 8

CONTINUED ON SHEET NO. 10

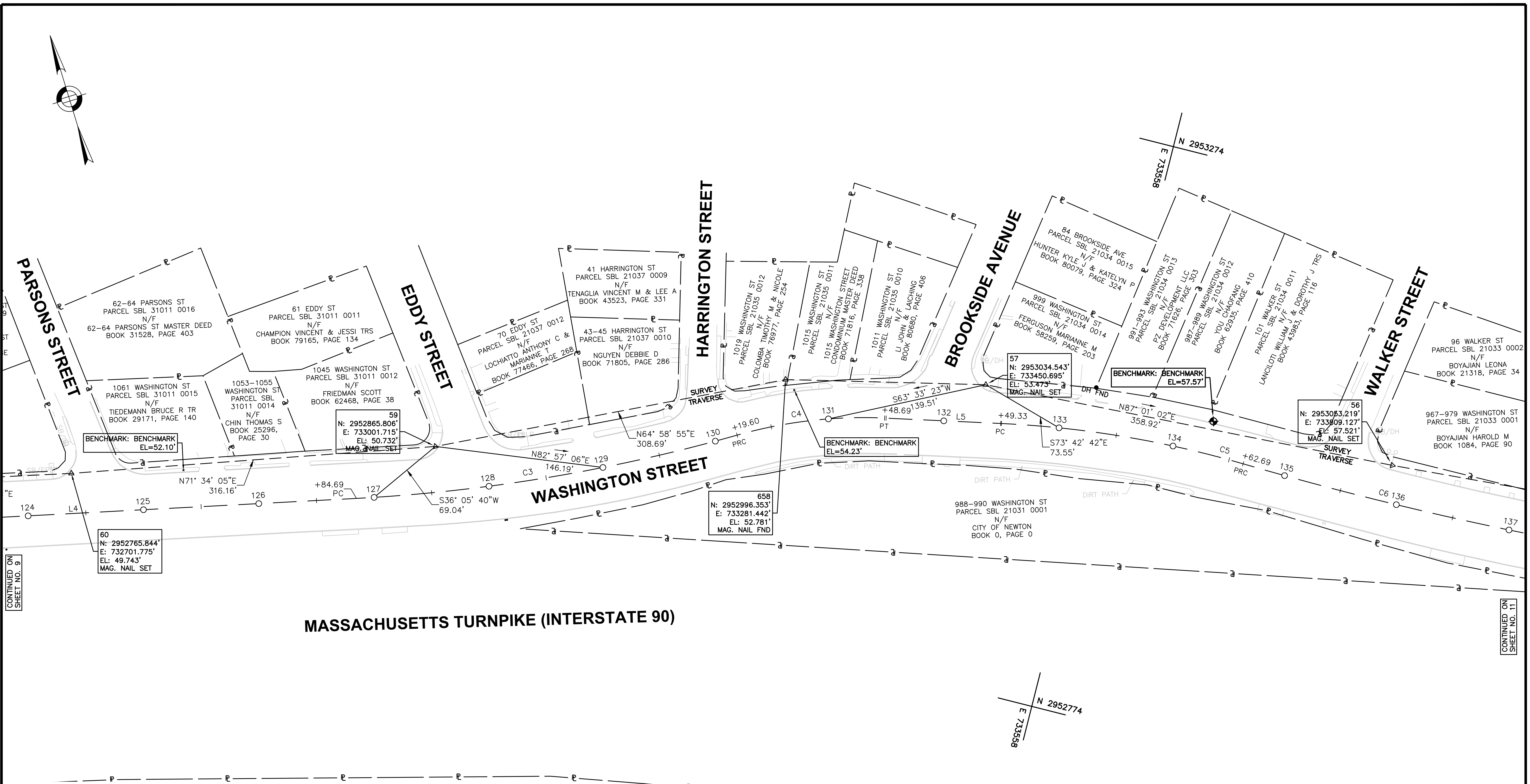
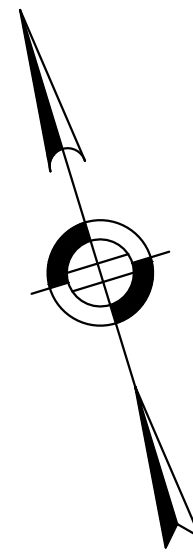
MASSACHUSETTS TURNPIKE (INTERSTATE 90)

WASHINGTON STREET ALIGNMENT CONSTRUCTION BASELINE DATA			
DESCRIPTION	TANGENT/CURVE DATA	NORTHING	EASTING
C2	R=800.00 Δ = 15°52'12" L=221.59 T=111.51'	N 2952393.8911 N 2952425.1542	E 731453.2739 E 731671.9305
L3	L=715.53'	N 2952425.1542 N 2952623.2441	E 731671.9305 E 732359.4935
L4	L=614.57'	N 2952623.2441 N 2952805.4082	E 732359.4935 E 732946.4416



WASHINGTON STREET PILOT CONSTRUCTION BASELINE TIE PLANS SHEET 2 OF 4						
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
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MASSACHUSETTS TURNPIKE (INTERSTATE 90)

WASHINGTON STREET ALIGNMENT CONSTRUCTION BASELINE DATA			
DESCRIPTION	TANGENT/CURVE DATA	NORTHING	EASTING
L4	L=614.57'	N 2952623.2441 N 2952805.4082	E 732359.4935 E 732946.4416
C3	R=1500.00 Δ = 12°47'34" L=334.91 T=168.16'	N 2952805.4082 N 2952939.4181	E 732946.4416 E 733252.6166
C4	R=400.00 Δ = 18°29'28" L=129.09 T=65.11'	N 2952939.4181 N 2952985.0388	E 733252.6166 E 733372.7815
C5	R=900.00 Δ = 13°34'58" L=213.36 T=107.18'	N 2953005.1785 N 2953022.8135	E 733471.3866 E 733683.5145
L5	L=100.64'	N 2952985.0388 N 2953005.1785	E 733372.7815 E 733471.3866
C6	R=3000.00 Δ = 14°41'15" L=769.04 T=386.64'	N 2953022.8135 N 2953093.7183	E 733683.5145 E 734447.1684



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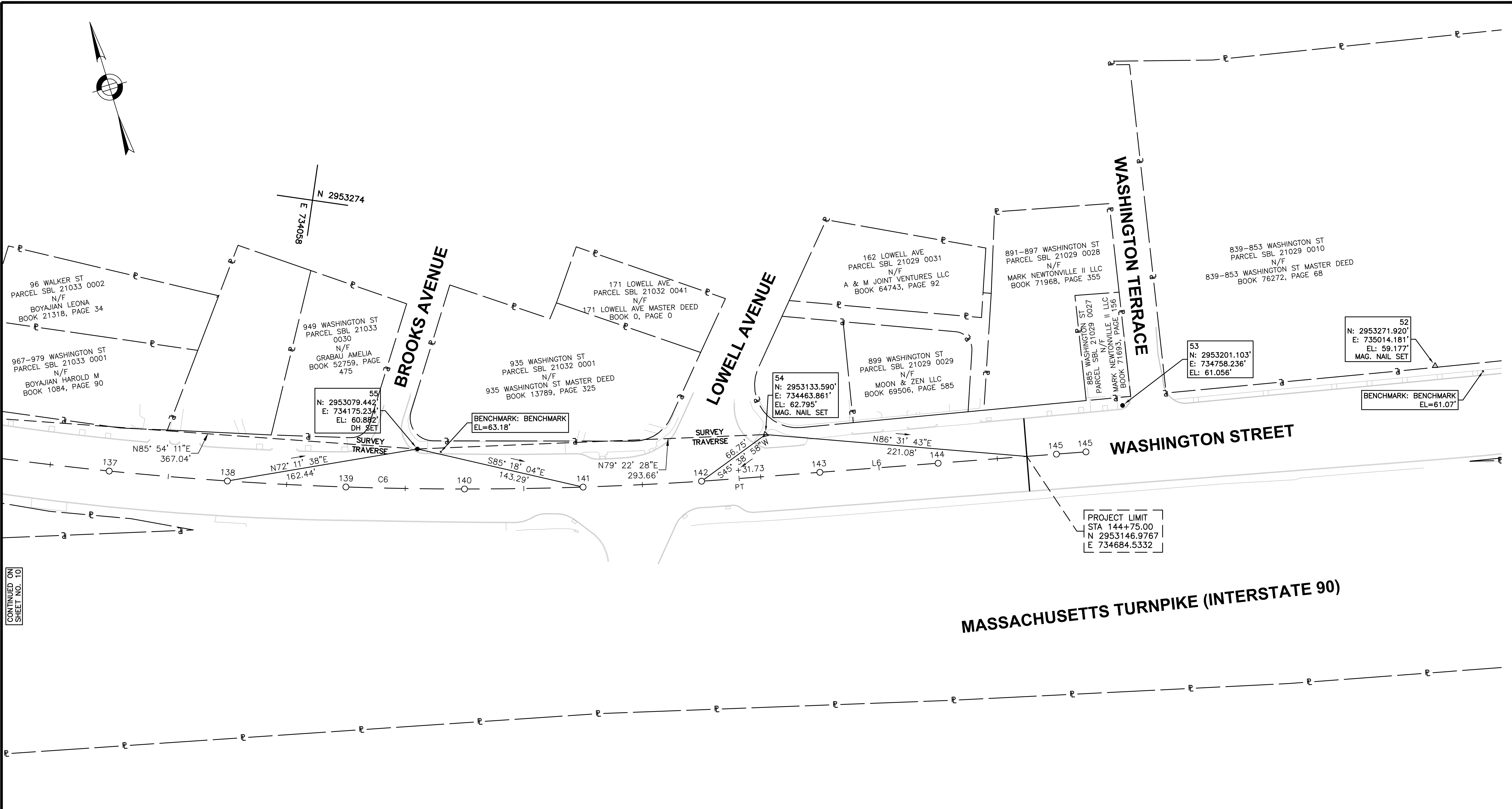
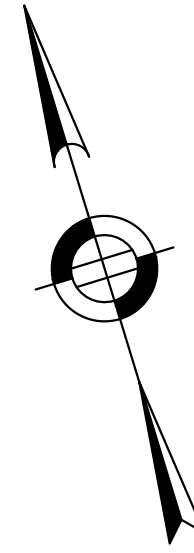
**WASHINGTON STREET PILOT
 CONSTRUCTION BASELINE TIE PLANS
 SHEET 3 OF 4**

HSJ PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	10	43

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 Printed by: Valerie Chen

CONTINUED ON
 SHEET NO. 9

CONTINUED ON
 SHEET NO. 11



CONTINUED ON
SHEET NO. 10

WASHINGTON STREET ALIGNMENT CONSTRUCTION BASELINE DATA			
DESCRIPTION	TANGENT/CURVE DATA	NORTHING	EASTING
C6	R=3000.00 Δ = 14°41'15" L=769.04 T=386.64'	N 2953022.8135	E 733683.5145
		N 2953093.7183	E 734447.1684
L6	L=293.27'	N 2953093.7183	E 734447.1684
		N 2953157.9233	E 734733.3202

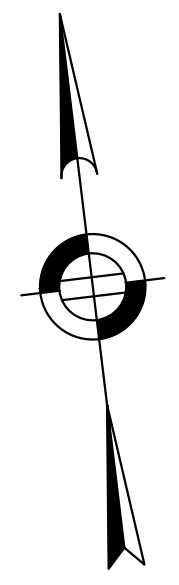
PROJECT LIMIT
STA 144+75.00
N 2953146.9767
E 734684.5332

MASSACHUSETTS TURNPIKE (INTERSTATE 90)



WASHINGTON STREET PILOT CONSTRUCTION BASELINE TIE PLANS SHEET 4 OF 4						
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	11	43

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WATERTOWN STREET (ROUTE 16)

DAVIS COURT

CHESTNUT STREET

WASHINGTON STREET

1239-1247 WASHINGTON ST
PARCEL SBL 31005 0003
N/F
DONATO STEVEN J & MARK F TRS
BOOK 43663, PAGE 417

1253 WASHINGTON ST
PARCEL SBL 31005 0002
N/F
DONATO MARK F &
STEVEN J TRS
BOOK 55679, PAGE 591

978 WATERTOWN ST
PARCEL SBL 31005 0001
N/F
LUNA REALTY PTNRS LTD PTNRSHP
BOOK 49770, PAGE 333

1229 WASHINGTON ST
PARCEL SBL 31006 0017
N/F
DONATO MARK F
BOOK 77140, PAGE 17

1221 WASHINGTON ST
PARCEL SBL 31006 0016
N/F
DONATO MARK F
BOOK 77140, PAGE 17

1213-1215 WASHINGTON ST
PARCEL SBL 31006 0015
N/F
DONATO MARK F &
STEVEN J TRS
BOOK 79289, PAGE 427

PROJECT LIMIT
STA 100+50.00
N 2952460.5983
E 730374.3011

LIMIT OF WORK (TYP)

1 CHESTNUT ST
PARCEL SBL 33010 0005
N/F
BANK OF AMERICA
BOOK 5578, PAGE 119

1250 WASHINGTON ST
PARCEL SBL 31004 0016
N/F
COUTO & CHAVES INVESTMENT CO LLC
BOOK 58795, PAGE 459

1236 WASHINGTON ST
PARCEL SBL 31004 0014
N/F
JACOB & ASSOCIATES INC
BOOK 26669, PAGE 251

1210-1230 WASHINGTON ST
PARCEL SBL 31004 0013
N/F
DIV WASHINGTON LLC
BOOK 46748, PAGE 570

24 CHESTNUT ST
PARCEL SBL 31004 0015
N/F
DIV WASHINGTON LLC
BOOK 46748, PAGE 570
14087 ± Sq. Ft.

25 CHESTNUT ST
PARCEL SBL 33010 0006
N/F
CITY OF NEWTON
BOOK 0, PAGE 0
28527 ± Sq. Ft.

FLEXPOST LOCATIONS

FLEXPOST #	NORTHING	EASTING
1	2952415.61	730544.70
2	2952413.79	730558.49
3	2952411.60	730564.46
4	2952414.13	730564.78
5	2952416.67	730565.10
6	2952406.56	730604.41
7	2952410.80	730622.64
8	2952404.06	730676.13
9	2952395.54	730691.83
10	2952383.88	730784.33
11	2952388.28	730801.29
12	2952380.76	730860.82
13	2952375.00	730920.53

PROP FOG SEAL

PROP CONSTRUCTION BASELINE

EXISTING 60" MWRA WATER MAIN

PROP PRECAST CONCRETE CURB FOR BICYCLE LANE (TYP)

PROP 36" SPRING LOADED REFLECTORIZED FLEXIBLE DELINEATOR POST (TYP)

CONTINUED ON SHEET NO. 13

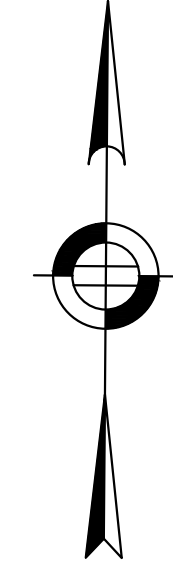


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WASHINGTON STREET PILOT CONSTRUCTION PLANS
SHEET 1 OF 7



HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	12	43



1213-1215 WASHINGTON ST
PARCEL SBL 31006 0015
N/F
DONATO MARK F & STEVEN J TRS
BOOK 79289, PAGE 427

1203 WASHINGTON ST
PARCEL SBL 31006 0014
N/F
DONATO MARK F & STEVEN J TRS
BOOK 79289, PAGE 473

1191 WASHINGTON ST
PARCEL SBL 31006 0012
N/F
DONATO STEVEN J TR
BOOK 72191, PAGE 7

34 DUNSTAN ST
PARCEL SBL 31007 0041
N/F
MARK KEMPTON LLC
BOOK 72163, PAGE 310

1179 WASHINGTON ST
PARCEL SBL 31007 0036
N/F
MARK KEMPTON LLC
BOOK 79400, PAGE 17

1185 WASHINGTON ST
PARCEL SBL 31007 0040
N/F
MARK KEMPTON LLC
BOOK 162, PAGE 166

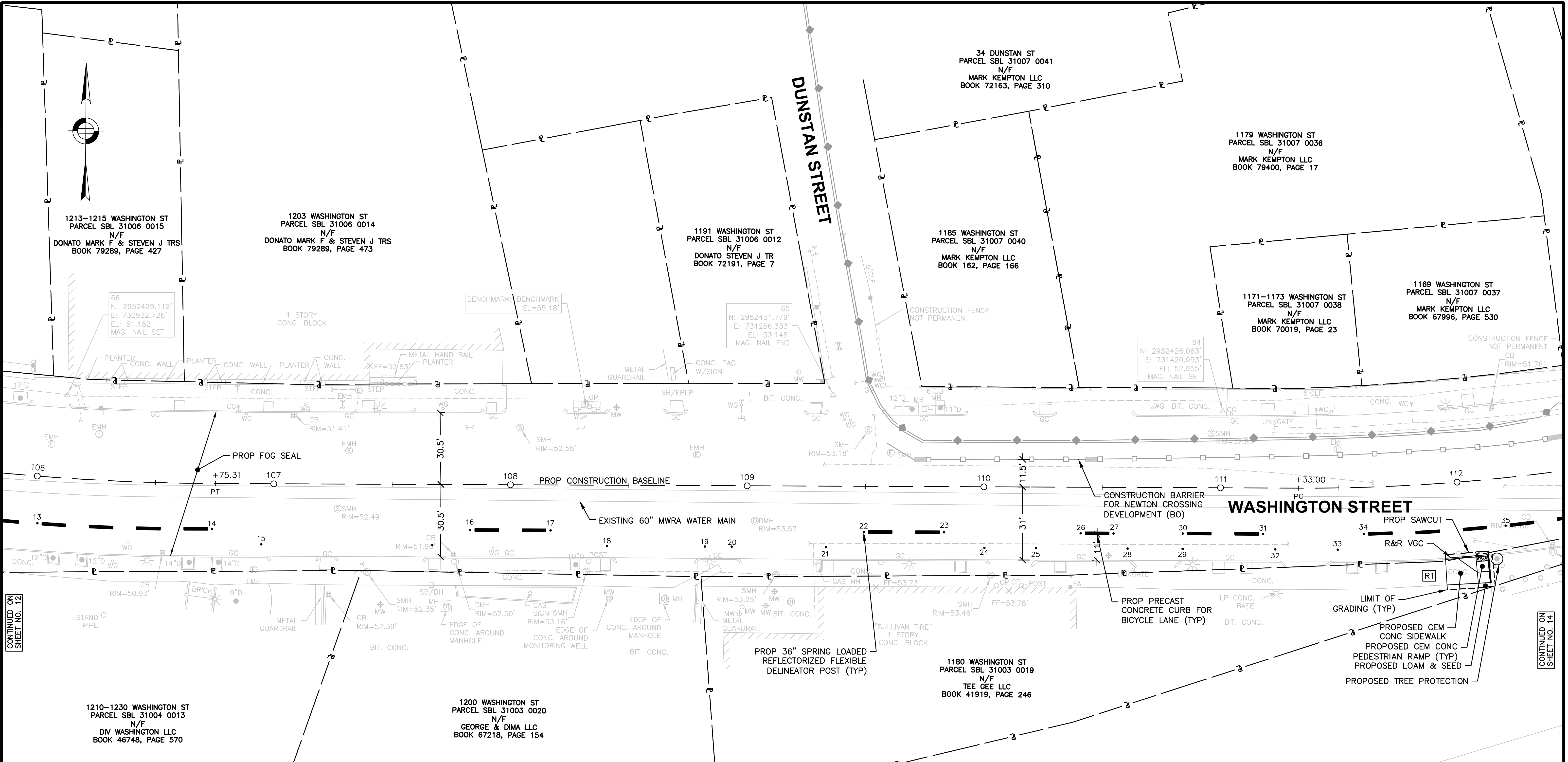
1171-1173 WASHINGTON ST
PARCEL SBL 31007 0038
N/F
MARK KEMPTON LLC
BOOK 70019, PAGE 23

1169 WASHINGTON ST
PARCEL SBL 31007 0037
N/F
MARK KEMPTON LLC
BOOK 67996, PAGE 530

66
N: 2952429.112'
E: 730932.726'
EL: 51.152'
MAG. NAIL SET

65
N: 2952431.779'
E: 731256.333'
EL: 53.148'
MAG. NAIL FND

64
N: 2952426.063'
E: 731420.953'
EL: 52.955'
MAG. NAIL SET



CONTINUED ON SHEET NO. 12

CONTINUED ON SHEET NO. 14

1210-1230 WASHINGTON ST
PARCEL SBL 31004 0013
N/F
DIV WASHINGTON LLC
BOOK 46748, PAGE 570

1200 WASHINGTON ST
PARCEL SBL 31003 0020
N/F
GEORGE & DIMA LLC
BOOK 67218, PAGE 154

1180 WASHINGTON ST
PARCEL SBL 31003 0019
N/F
TEE GEE LLC
BOOK 41919, PAGE 246

FLEXPOST LOCATIONS

FLEXPOST #	NORTHING	EASTING
14	2952373.16	730994.40
15	2952366.80	731015.19
16	2952373.55	731103.43
17	2952373.64	731137.35
18	2952367.21	731161.30
19	2952367.33	731202.62
20	2952367.36	731213.95
21	2952367.47	731253.70
22	2952374.02	731269.66
23	2952374.11	731303.58
24	2952367.66	731320.72

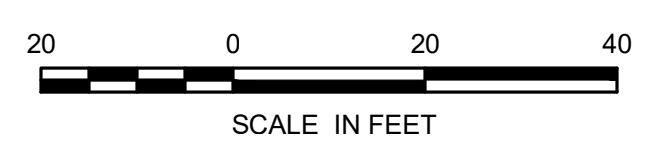
FLEXPOST LOCATIONS

FLEXPOST #	NORTHING	EASTING
25	2952367.72	731342.45
26	2952374.16	731361.31
27	2952374.19	731375.23
28	2952367.83	731381.22
29	2952367.89	731404.46
30	2952374.39	731404.48
31	2952374.48	731438.39
32	2952368.00	731443.60
33	2952368.08	731470.01
34	2952374.84	731481.00
35	2952378.78	731540.86

MASSACHUSETTS TURNPIKE (INTERSTATE 90)

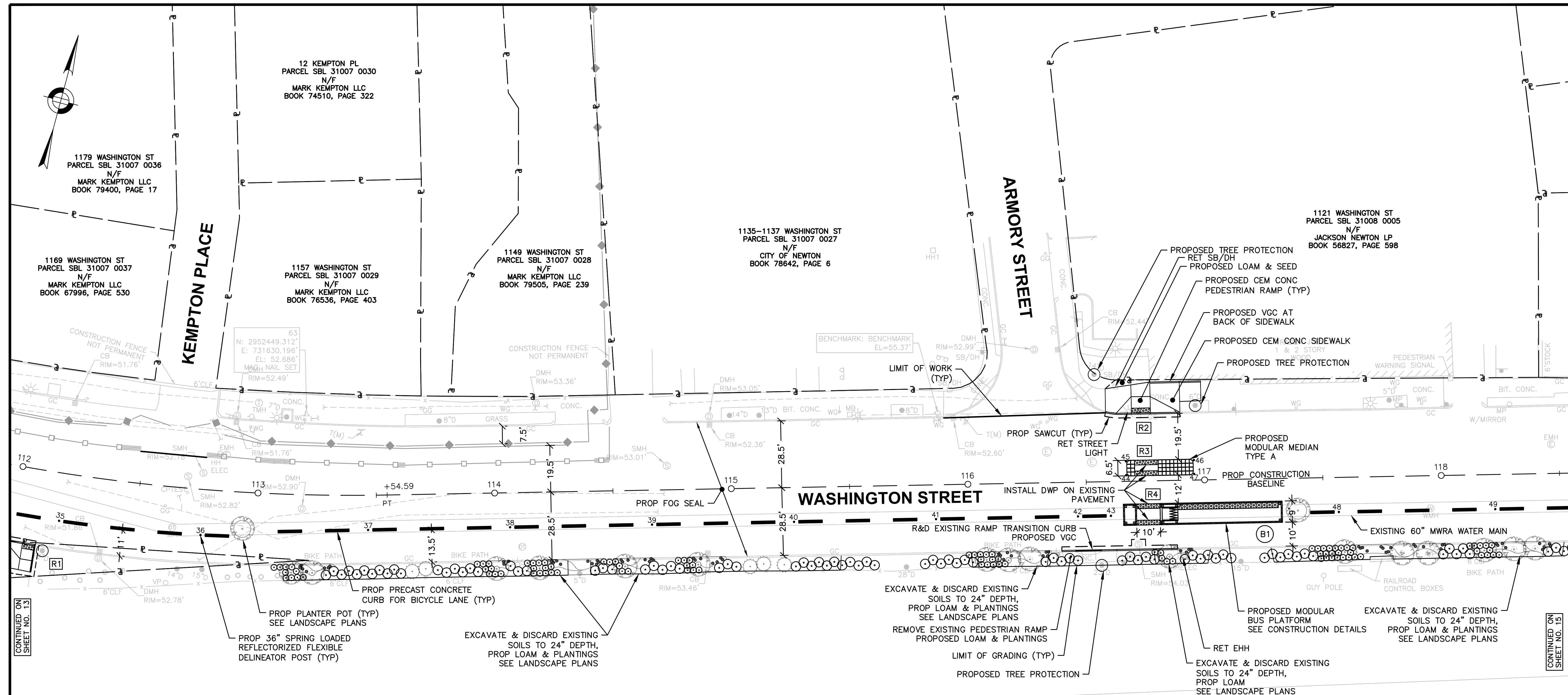


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**WASHINGTON STREET PILOT
CONSTRUCTION PLANS
SHEET 2 OF 7**

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	13	43



FLEXPOST LOCATIONS

FLEXPOST #	NORTHING	EASTING
36	2952388.45	731600.10
37	2952408.84	731667.96
38	2952425.48	731725.61
39	2952442.12	731783.25
40	2952458.76	731840.90
41	2952475.42	731898.54
42	2952492.06	731956.19
43	2952495.90	731969.56
44	2952514.16	731971.33
45	2952519.82	731969.70
46	2952527.75	731997.28
47	2952522.10	731998.94
48	2952522.42	732062.16
49	2952540.69	732125.67

NOTES

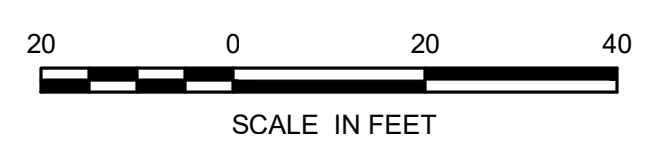
- ONLY THE USE OF HAND TOOLS (JACK HAMMER & SHOVELS) ARE ALLOWED FOR EXCAVATING SOIL AND REMOVING PAVEMENT AROUND MWRA TEST STATIONS. IF TEST STATION WIRES ARE DAMAGED AN APPROVED MWRA CORROSION SPECIALIST COMPANY SHALL BE USED TO REPAIR THE WIRES AT THE COST OF THE CONTRACTOR. RAISING THE GRADE AROUND MWRA TEST STATIONS SHALL BE PERFORMED BY AN MWRA APPROVED CORROSION SPECIALIST COMPANY.

MASSACHUSETTS TURNPIKE (INTERSTATE 90)

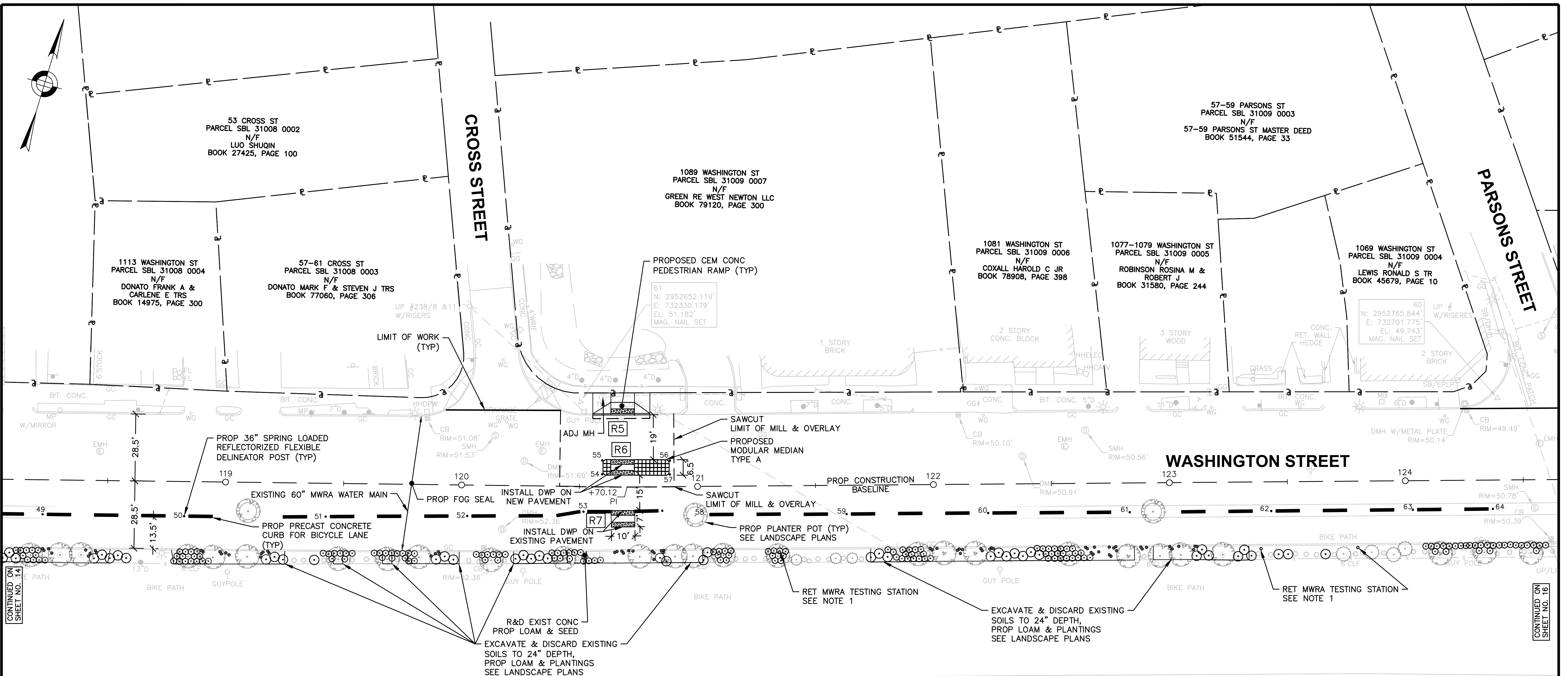
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WASHINGTON STREET PILOT CONSTRUCTION PLANS
SHEET 3 OF 7

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	14	43



9/12/2024 L:\121163\CURRENT\CUTSHEETS\21163_HD(CONST PLAN).dwg, 9/12/2024 1:46:33 PM, AutoCAD PDF (General Documentation).pc3
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FLEXPOST LOCATIONS		
FLEXPOST #	NORTHING	EASTING
50	2952557.29	732183.33
51	2952574.42	732240.83
52	2952591.97	732298.15
53	2952607.97	732344.84
54	2952625.40	732347.86
55	2952631.05	732346.17
56	2952639.27	732373.66
57	2952633.63	732375.36
58	2952621.57	732394.55
59	2952639.18	732451.91
60	2952656.93	732509.22
61	2952674.58	732566.57
62	2952692.39	732623.86
63	2952710.24	732681.15
64	2952720.39	732713.51

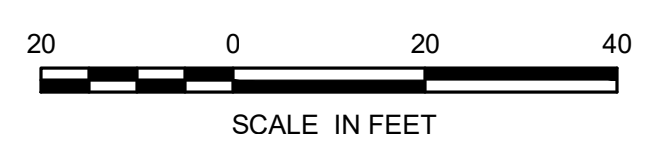
NOTES

1. ONLY THE USE OF HAND TOOLS (JACK HAMMER & SHOVELS) ARE ALLOWED FOR EXCAVATING SOIL AND REMOVING PAVEMENT AROUND MWRA TEST STATIONS. IF TEST STATION WIRES ARE DAMAGED AN APPROVED MWRA CORROSION SPECIALIST COMPANY SHALL BE USED TO REPAIR THE WIRES AT THE COST OF THE CONTRACTOR. RAISING THE GRADE AROUND MWRA TEST STATIONS SHALL BE PERFORMED BY AN MWRA APPROVED CORROSION SPECIALIST COMPANY.

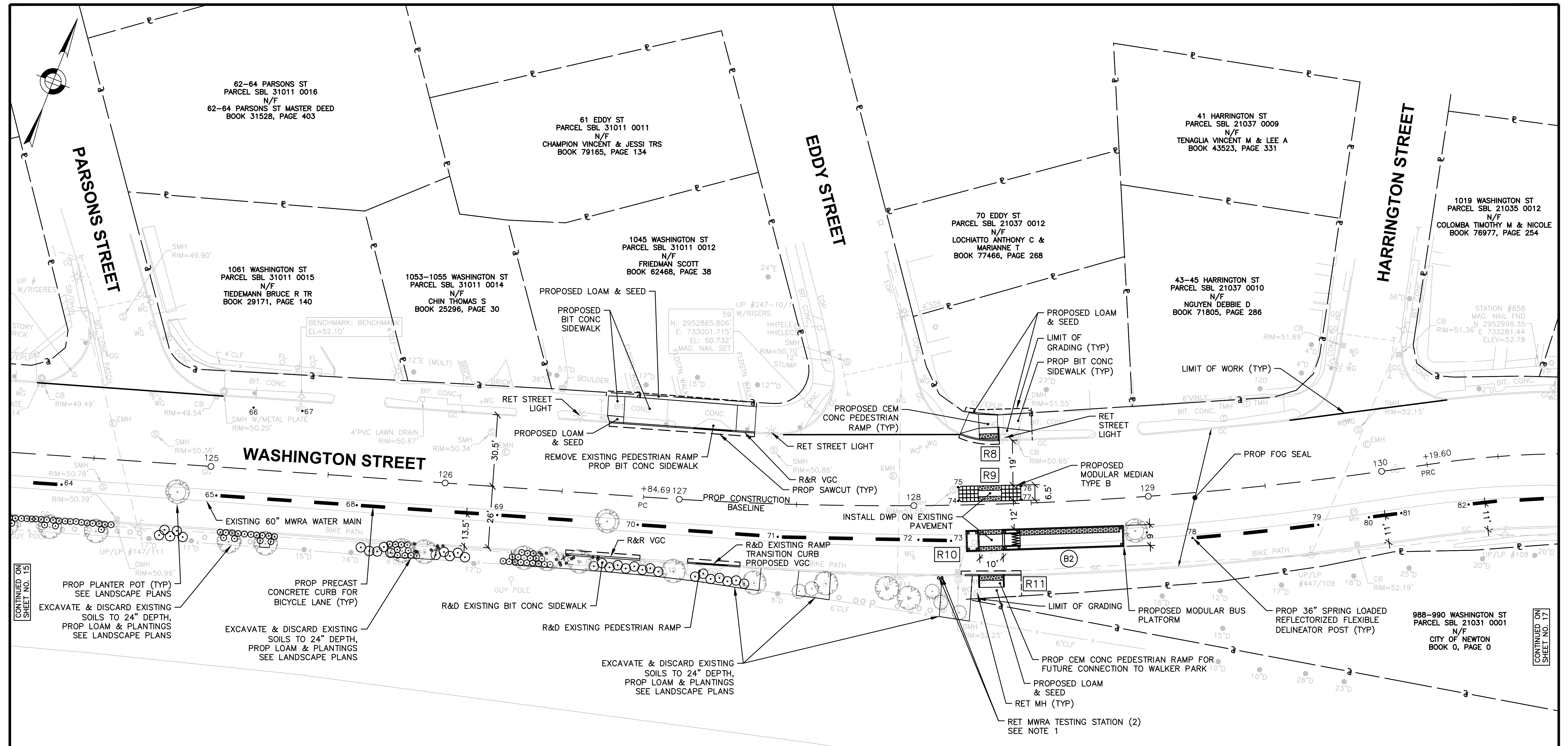
MASSACHUSETTS TURNPIKE (INTERSTATE 90)

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WASHINGTON STREET PILOT CONSTRUCTION PLANS						
SHEET 4 OF 7						
HS PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	15	43



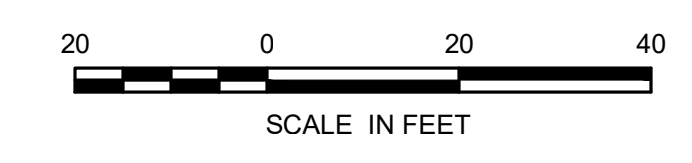
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 Plotted by: YCHIA
 Printed by: YCHIA



FLEXPOST LOCATIONS		
FLEXPOST #	NORTHING	EASTING
65	2952739.98	732776.62
66	2952780.65	732777.83
67	2952786.87	732797.75
68	2952757.84	732833.90
69	2952775.69	732891.19
70	2952793.54	732948.47
71	2952810.42	733005.92
72	2952831.00	733062.24
73	2952835.62	733075.35

FLEXPOST LOCATIONS		
FLEXPOST #	NORTHING	EASTING
74	2952852.56	733072.05
75	2952858.01	733069.80
76	2952868.32	733094.82
77	2952862.87	733097.07
78	2952874.08	733170.76
79	2952898.78	733218.69
80	2952909.56	733237.65
81	2952916.25	733249.85
82	2952930.09	733275.22

- NOTES**
- ONLY THE USE OF HAND TOOLS (JACK HAMMER & SHOVELS) ARE ALLOWED FOR EXCAVATING SOIL AND REMOVING PAVEMENT AROUND MWRA TEST STATIONS. IF TEST STATION WIRES ARE DAMAGED AN APPROVED MWRA CORROSION SPECIALIST COMPANY SHALL BE USED TO REPAIR THE WIRES AT THE COST OF THE CONTRACTOR. RAISING THE GRADE AROUND MWRA TEST STATIONS SHALL BE PERFORMED BY AN MWRA APPROVED CORROSION SPECIALIST COMPANY.

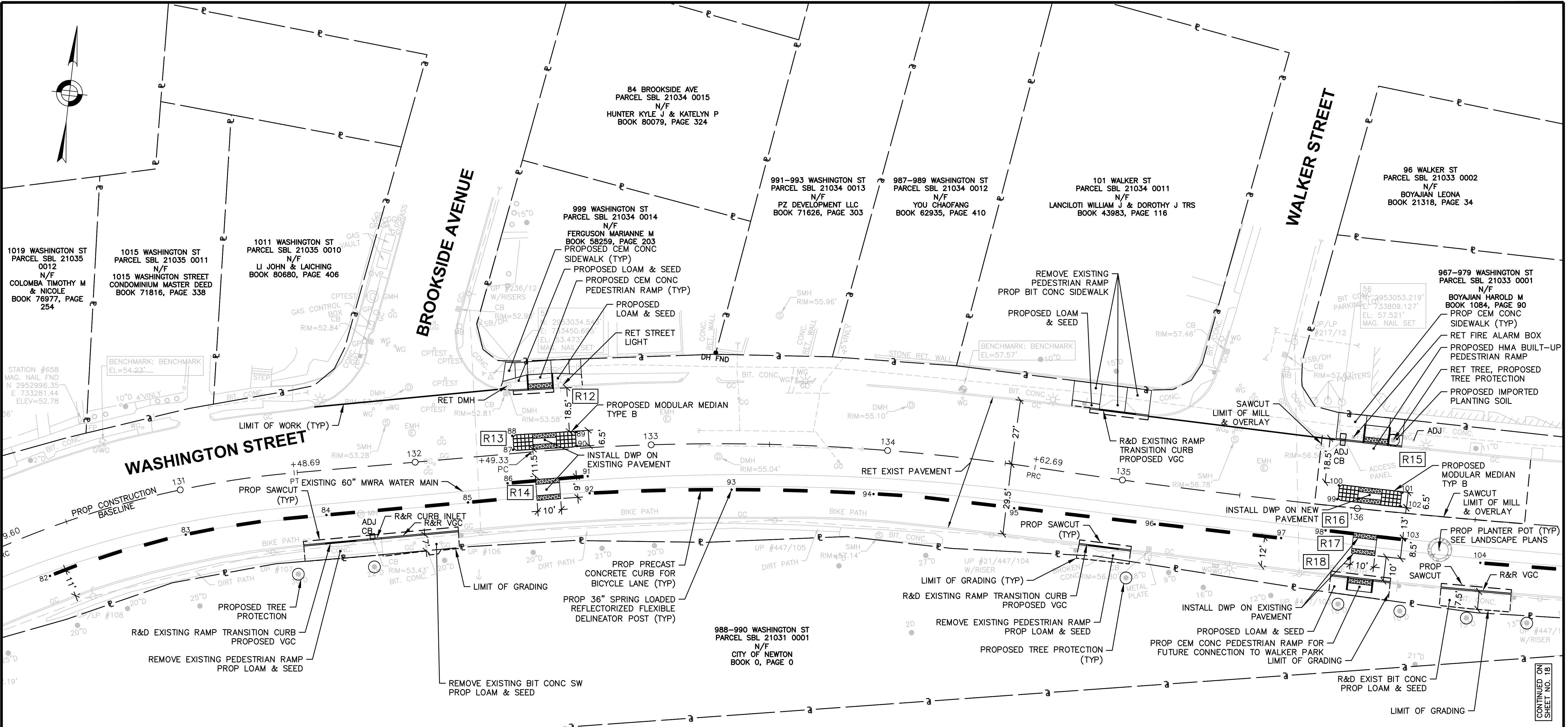
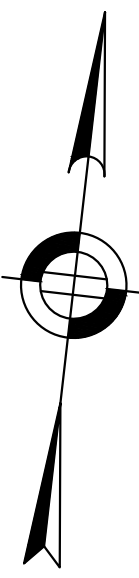


WASHINGTON STREET PILOT CONSTRUCTION PLANS
SHEET 5 OF 7

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	16	43

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JRH:Shed by: YCHHA
Printed by: Valerie Chen



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CONTINUED ON SHEET NO. 18

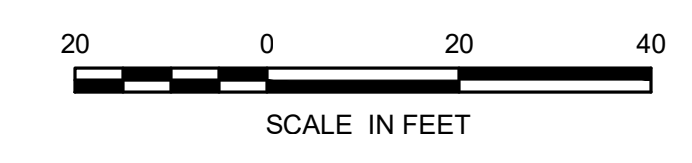
FLEXPOST LOCATIONS		
FLEXPOST #	NORTHING	EASTING
83	2952953.92	733330.24
84	2952968.91	733388.34
85	2952980.98	733447.17
86	2952990.99	733463.19
87	2953005.26	733463.56
88	2953011.06	733462.54
89	2953015.73	733489.21
90	2953009.92	733490.22
91	2952997.72	733496.18
92	2952990.65	733497.79
93	2952998.99	733557.20

FLEXPOST LOCATIONS		
FLEXPOST #	NORTHING	EASTING
94	2953003.95	733616.99
95	2953004.73	733676.72
96	2953004.73	733736.47
97	2953005.00	733790.21
98	2953010.35	733808.48
99	2953023.99	733811.88
100	2953029.89	733811.88
101	2953029.91	733838.94
102	2953024.01	733838.95
103	2953010.26	733842.36
104	2953004.16	733875.00

MASSACHUSETTS TURNPIKE (INTERSTATE 90)

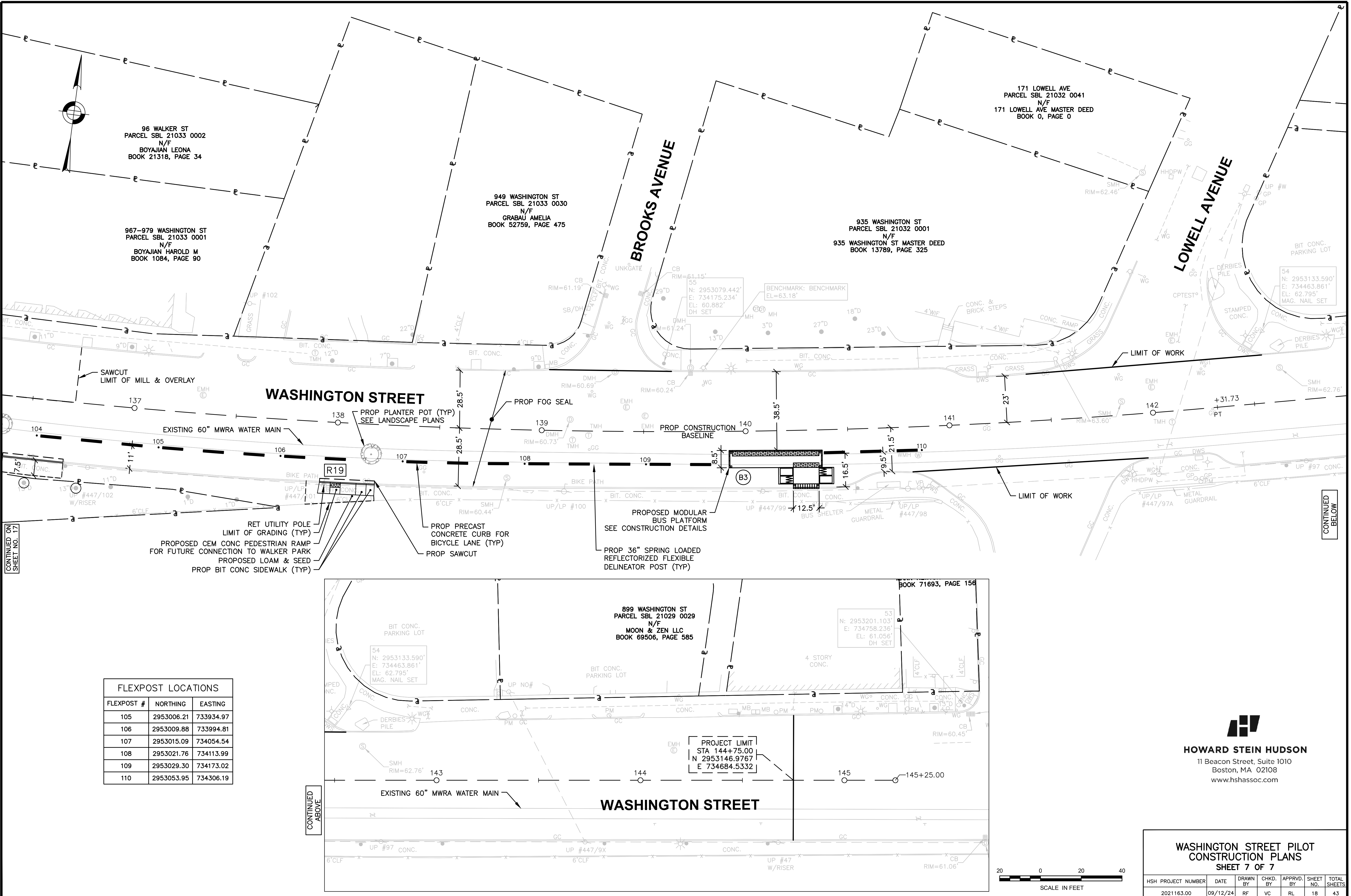


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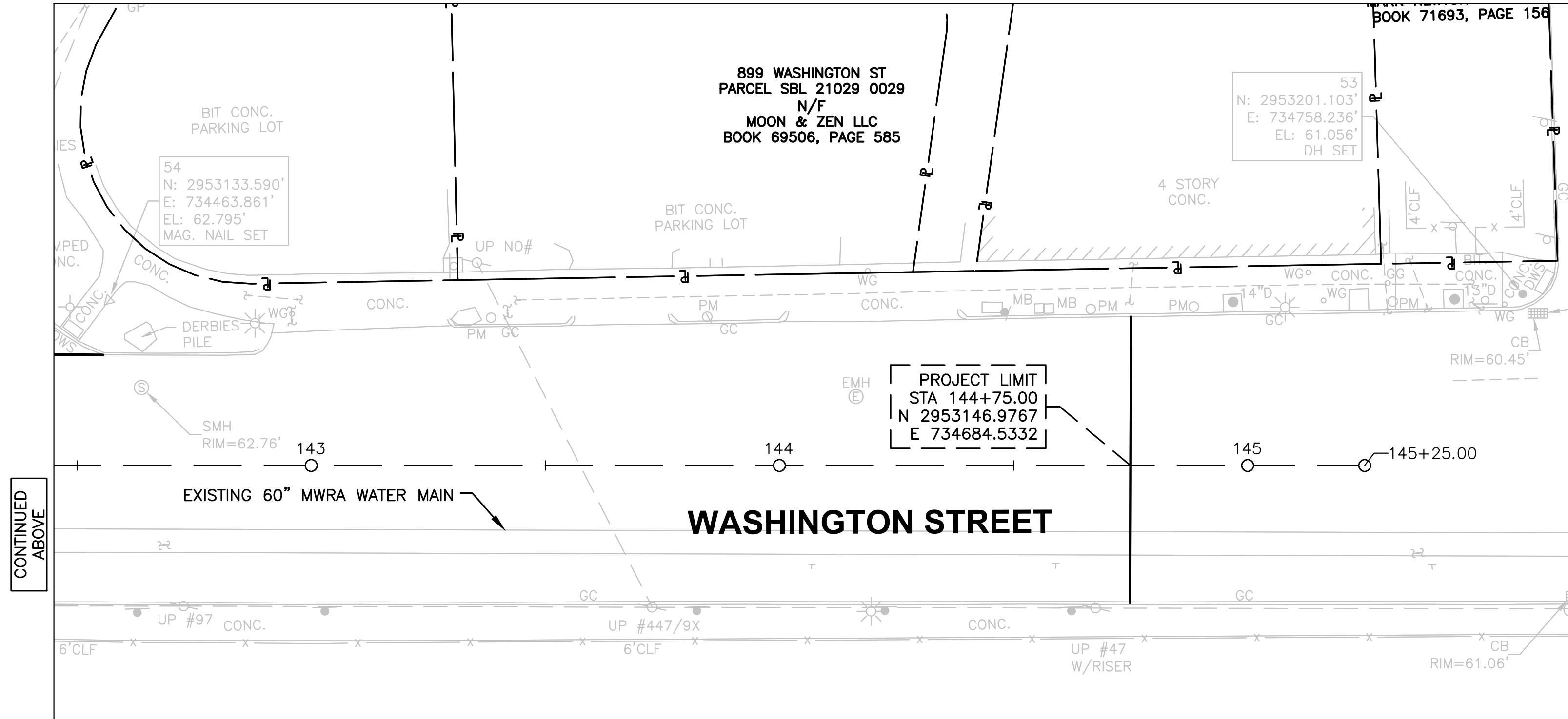
WASHINGTON STREET PILOT CONSTRUCTION PLANS						
SHEET 6 OF 7						
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	17	43

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FLEXPOST LOCATIONS

FLEXPOST #	NORTHING	EASTING
105	2953006.21	733934.97
106	2953009.88	733994.81
107	2953015.09	734054.54
108	2953021.76	734113.99
109	2953029.30	734173.02
110	2953053.95	734306.19



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WASHINGTON STREET PILOT CONSTRUCTION PLANS
SHEET 7 OF 7

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	18	43



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 Printed by: Valerie Cha

WATERTOWN STREET (ROUTE 16)

DAVIS COURT

CHESTNUT STREET

WASHINGTON STREET

9/12/2024 L:\12163\CURRENT\CUTSHEETS\21163_TRIP(M&S).dwg
Last Saved by: EENT1640
Printed by: Valerie Chen

978 WATERTOWN ST
PARCEL SBL 31005 0001
N/F
LUNA REALTY PTNRS LTD PTNRSHP
BOOK 49770, PAGE 333

1239-1247 WASHINGTON ST
PARCEL SBL 31005 0003
N/F
DONATO STEVEN J & MARK F TRS
BOOK 43663, PAGE 417

1229 WASHINGTON ST
PARCEL SBL 31006 0017
N/F
DONATO MARK F
BOOK 77140, PAGE 17

1221 WASHINGTON ST
PARCEL SBL 31006 0016
N/F
DONATO MARK F
BOOK 77140, PAGE 17

1213-1215 WASHINGTON ST
PARCEL SBL 31006 0000
N/F
DONATO MARK F & STEVEN
BOOK 79289, PAGE 4

1253 WASHINGTON ST
PARCEL SBL 31005 0002
N/F
DONATO MARK F &
STEVEN J TRS
BOOK 55679, PAGE 59

PROP BIKE CROSSING
(TYP-SEE
DETAIL ON
SHEET 37)

ERADICATE ALL EXISTING
PAVEMENT MARKINGS BETWEEN
101+26 AND 103+62

ADJUST EXIST
PARKING METERS
TO MATCH
PROPOSED PARKING
SPACE LOCATIONS

12" SWL AT 45 DEG.
10' O.C. SPACING

ADJUST EXIST
PARKING METERS
TO MATCH
PROPOSED PARKING
SPACE LOCATIONS

LIMIT OF WORK (TYP)

ERADICATE MARKINGS THAT
CONFLICT WITH PROPOSED
BIKE CROSSINGS AT
CHESTNUT STREET

12" SWL AT 45 DEG.
20' O.C. SPACING

12" SWL AT 20' O.C.
SPACING (TYP)

R&S
PARKING
METER

12" SWL AT 45 DEG.
10' O.C. SPACING

1 CHESTNUT ST
PARCEL SBL 33010 0005
N/F
BANK OF AMERICA
BOOK 5578, PAGE 119

1250 WASHINGTON ST
PARCEL SBL 31004 0016
N/F
COUTO & CHAVES INVESTMENT CO LLC
BOOK 58795, PAGE 459

1236 WASHINGTON ST
PARCEL SBL 31004 0014
N/F
JACOB & ASSOCIATES INC
BOOK 26669, PAGE 251

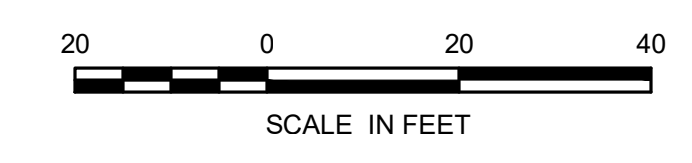
1210-1230 WASHINGTON ST
PARCEL SBL 31004 0013
N/F
DIV WASHINGTON LLC
BOOK 46748, PAGE 570

25 CHESTNUT ST
PARCEL SBL 33010 0006
N/F
CITY OF NEWTON
BOOK 0, PAGE 0
28527 ± Sq. Ft.

24 CHESTNUT ST
PARCEL SBL 31004 0015
N/F
DIV WASHINGTON LLC
BOOK 46748, PAGE 570
14087 ± Sq. Ft.

NOTES

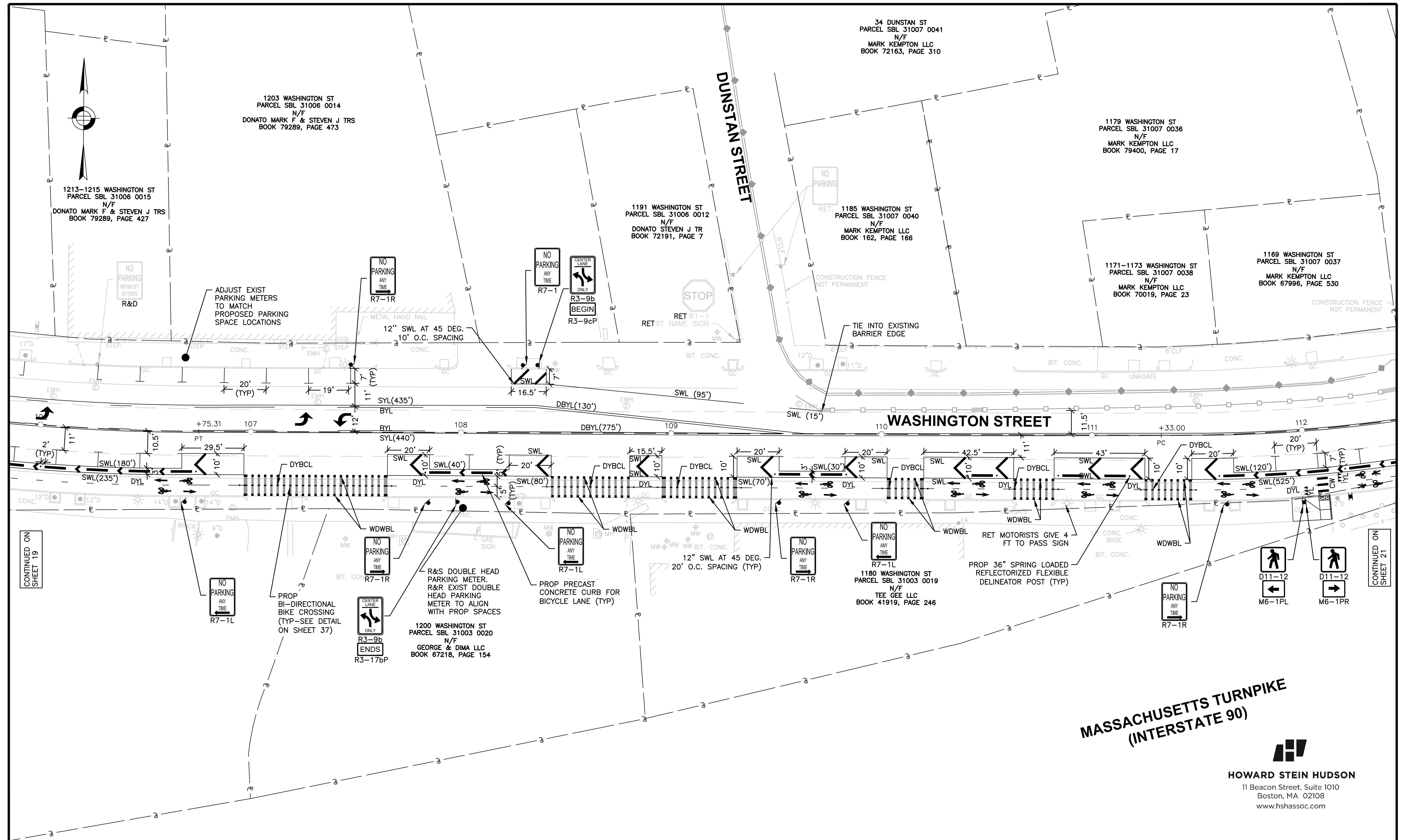
- ALL EXISTING SIGNAGE SHALL BE RETAINED UNLESS OTHERWISE SPECIFIED ON PLANS.
- PROPOSED SIGNAGE SHALL BE MOUNTED AT A MINIMUM MOUNTING HEIGHT OF 7 FEET.



WASHINGTON STREET PILOT TRAFFIC SIGN & PAVEMENT MARKINGS SHEET 1 OF 7						
HSJ PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	JL	IM	RL	19	43

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CONTINUED ON
SHEET 20



CONTINUED ON SHEET 19

CONTINUED ON SHEET 21

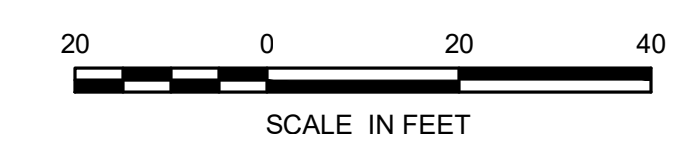
**MASSACHUSETTS TURNPIKE
(INTERSTATE 90)**



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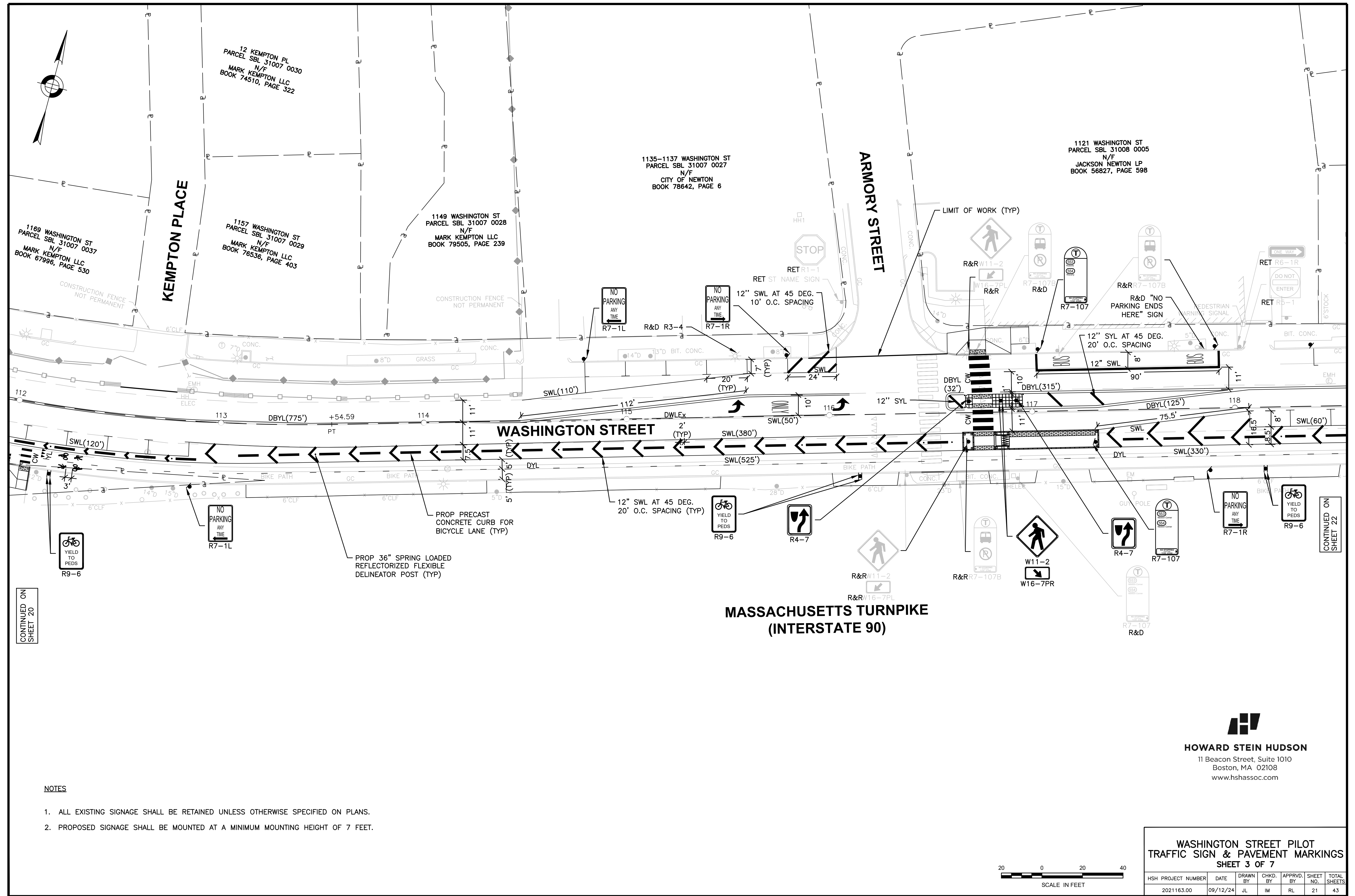
NOTES

1. ALL EXISTING SIGNAGE SHALL BE RETAINED UNLESS OTHERWISE SPECIFIED ON PLANS.
2. PROPOSED SIGNAGE SHALL BE MOUNTED AT A MINIMUM MOUNTING HEIGHT OF 7 FEET.



WASHINGTON STREET PILOT TRAFFIC SIGN & PAVEMENT MARKINGS SHEET 2 OF 7						
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	JL	IM	RL	20	43

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 Printed by: Valerie Chen

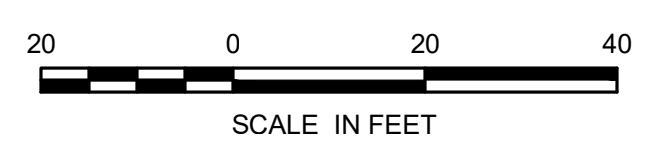


- NOTES**
1. ALL EXISTING SIGNAGE SHALL BE RETAINED UNLESS OTHERWISE SPECIFIED ON PLANS.
 2. PROPOSED SIGNAGE SHALL BE MOUNTED AT A MINIMUM MOUNTING HEIGHT OF 7 FEET.

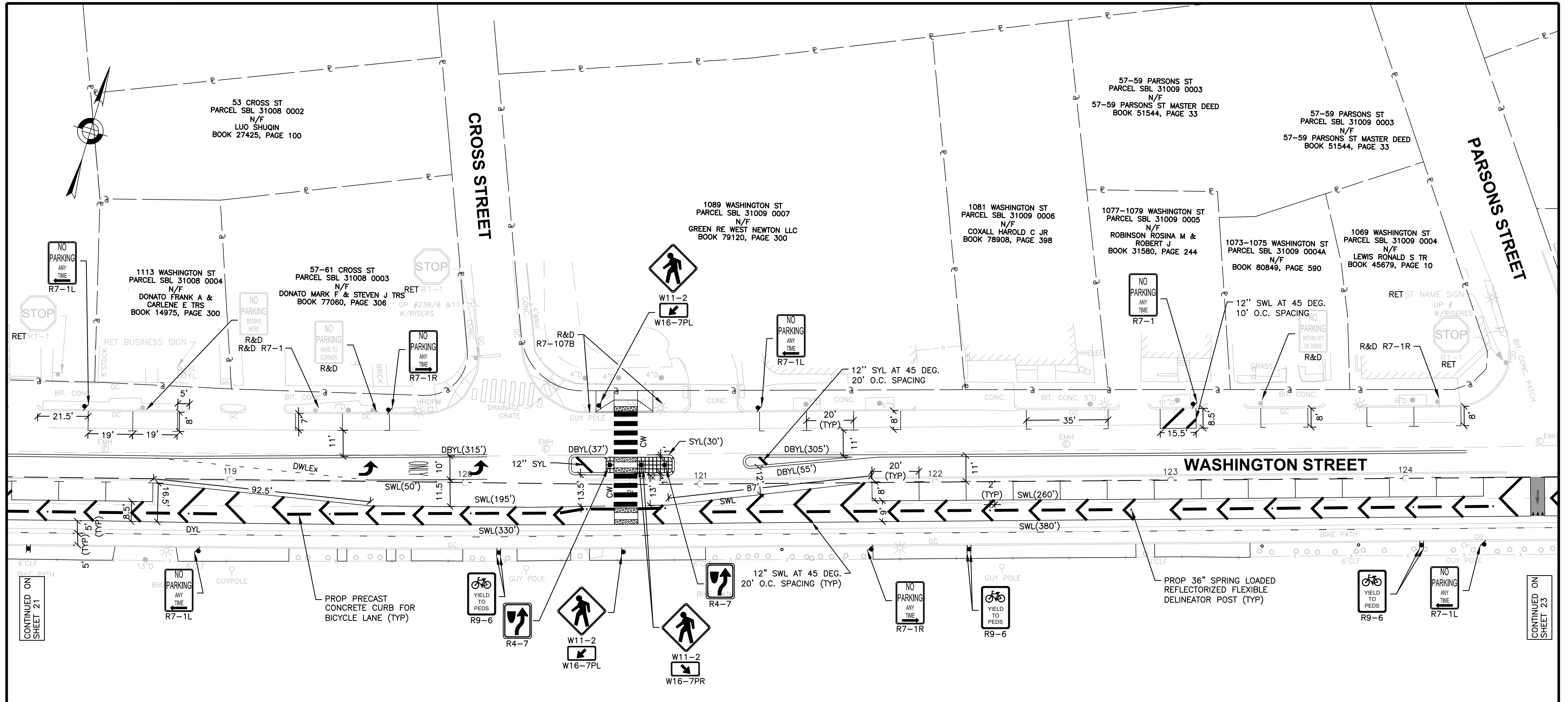
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WASHINGTON STREET PILOT
 TRAFFIC SIGN & PAVEMENT MARKINGS
 SHEET 3 OF 7

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	JL	IM	RL	21	43



9/12/2024 L:\21163\CURRENT\CUTSHEETS\21163_TR(PM&S).dwg
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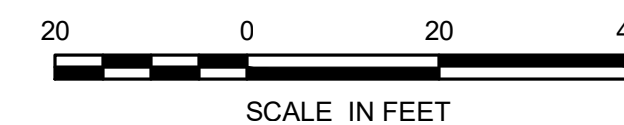
**MASSACHUSETTS TURNPIKE
(INTERSTATE 90)**



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NOTES

1. ALL EXISTING SIGNAGE SHALL BE RETAINED UNLESS OTHERWISE SPECIFIED ON PLANS.
2. PROPOSED SIGNAGE SHALL BE MOUNTED AT A MINIMUM MOUNTING HEIGHT OF 7 FEET.



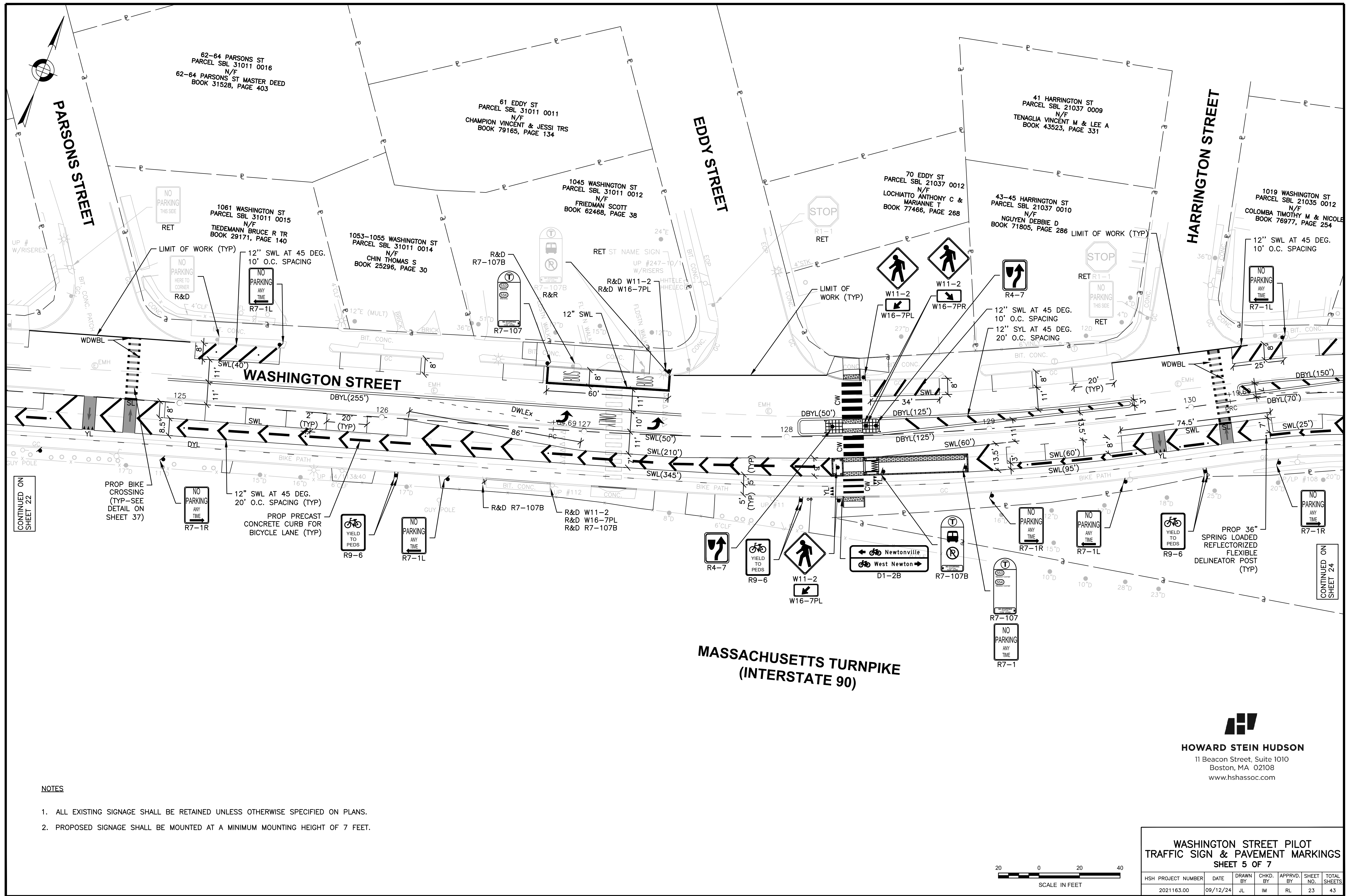
**WASHINGTON STREET PILOT
TRAFFIC SIGN & PAVEMENT MARKINGS
SHEET 4 OF 7**

HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	JL	IM	RL	22	43

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CONTINUED ON SHEET 21

CONTINUED ON SHEET 25



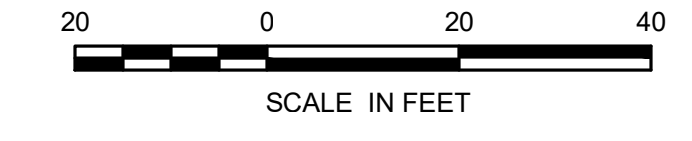
**MASSACHUSETTS TURNPIKE
(INTERSTATE 90)**



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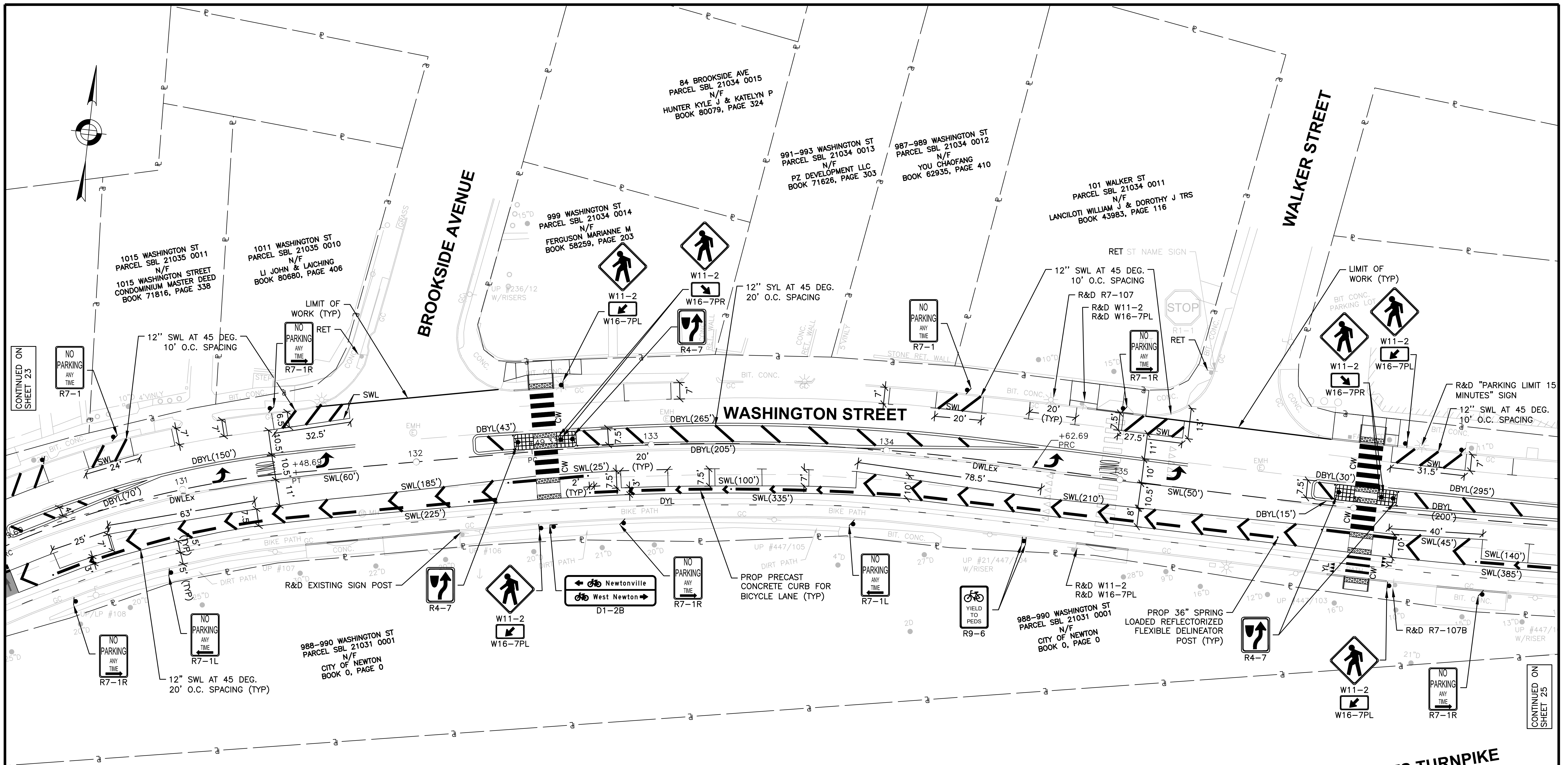
NOTES

1. ALL EXISTING SIGNAGE SHALL BE RETAINED UNLESS OTHERWISE SPECIFIED ON PLANS.
2. PROPOSED SIGNAGE SHALL BE MOUNTED AT A MINIMUM MOUNTING HEIGHT OF 7 FEET.



WASHINGTON STREET PILOT TRAFFIC SIGN & PAVEMENT MARKINGS SHEET 5 OF 7						
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	JL	IM	RL	23	43

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 Printed by: Valerie Chen



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CONTINUED ON SHEET 25

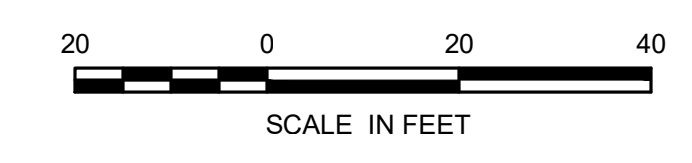
**MASSACHUSETTS TURNPIKE
(INTERSTATE 90)**



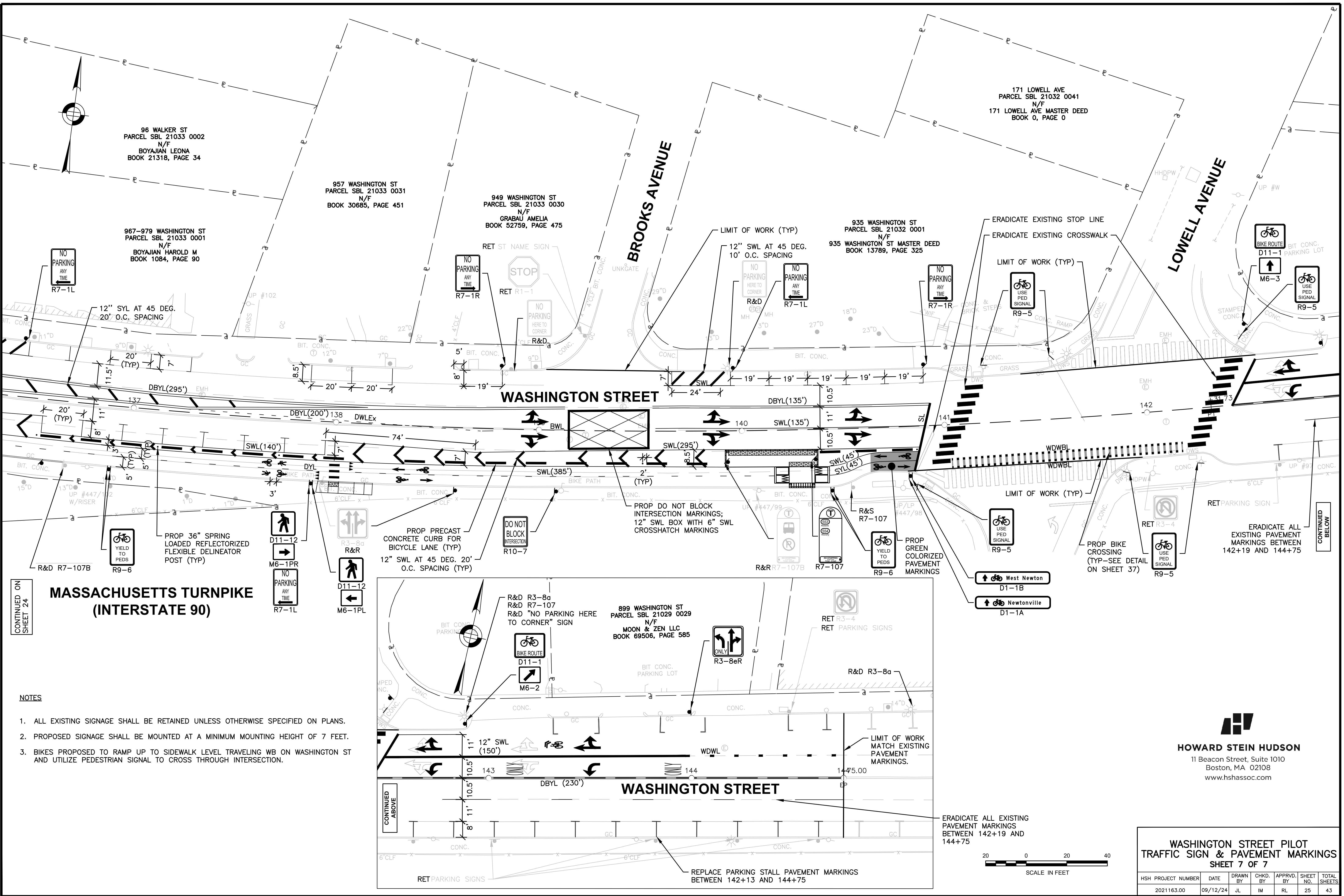
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NOTES

1. ALL EXISTING SIGNAGE SHALL BE RETAINED UNLESS OTHERWISE SPECIFIED ON PLANS.
2. PROPOSED SIGNAGE SHALL BE MOUNTED AT A MINIMUM MOUNTING HEIGHT OF 7 FEET.

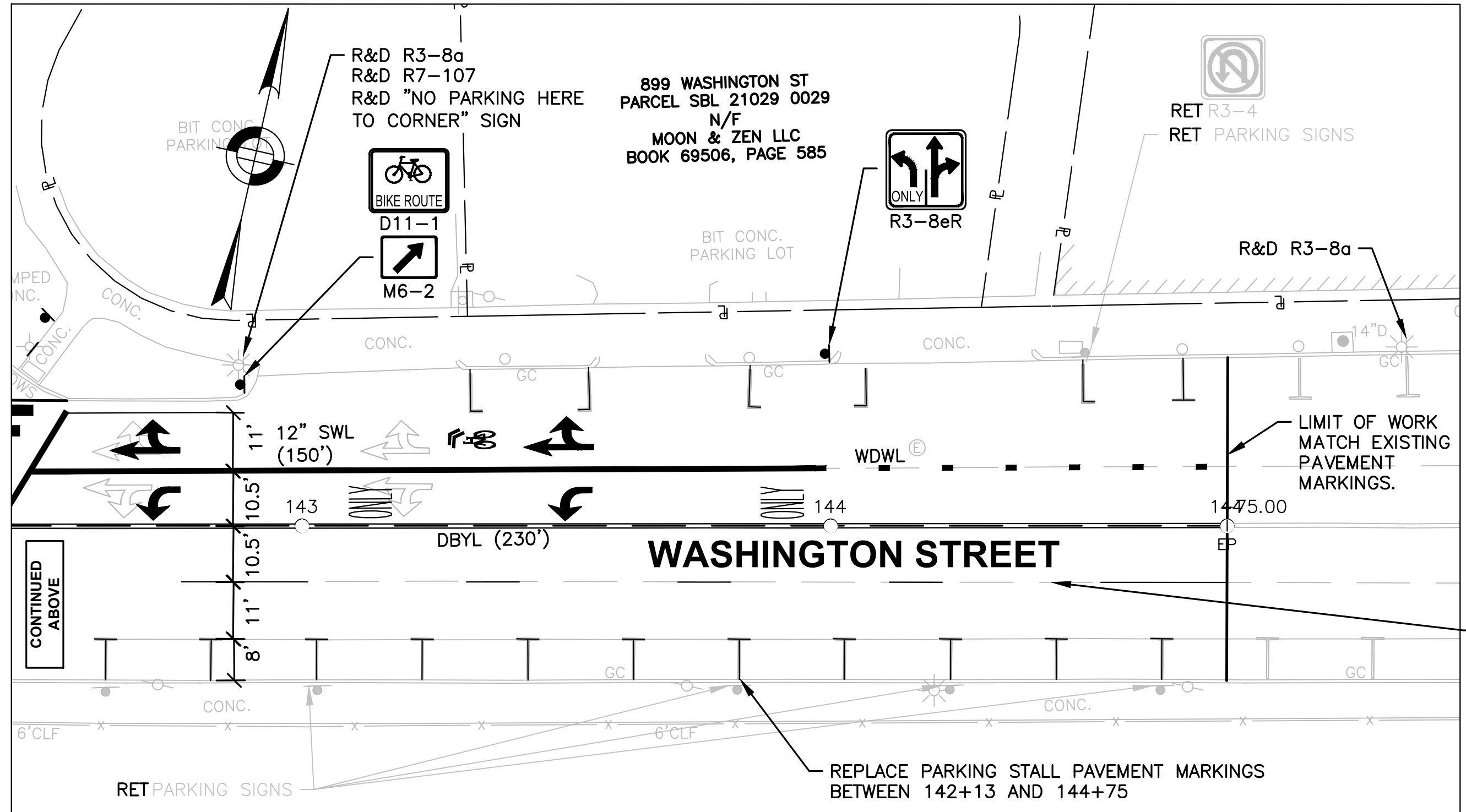


WASHINGTON STREET PILOT TRAFFIC SIGN & PAVEMENT MARKINGS SHEET 6 OF 7						
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	JL	IM	RL	24	43



**MASSACHUSETTS TURNPIKE
(INTERSTATE 90)**

- NOTES**
1. ALL EXISTING SIGNAGE SHALL BE RETAINED UNLESS OTHERWISE SPECIFIED ON PLANS.
 2. PROPOSED SIGNAGE SHALL BE MOUNTED AT A MINIMUM MOUNTING HEIGHT OF 7 FEET.
 3. BIKES PROPOSED TO RAMP UP TO SIDEWALK LEVEL TRAVELING WB ON WASHINGTON ST AND UTILIZE PEDESTRIAN SIGNAL TO CROSS THROUGH INTERSECTION.



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**WASHINGTON STREET PILOT
TRAFFIC SIGN & PAVEMENT MARKINGS
SHEET 7 OF 7**

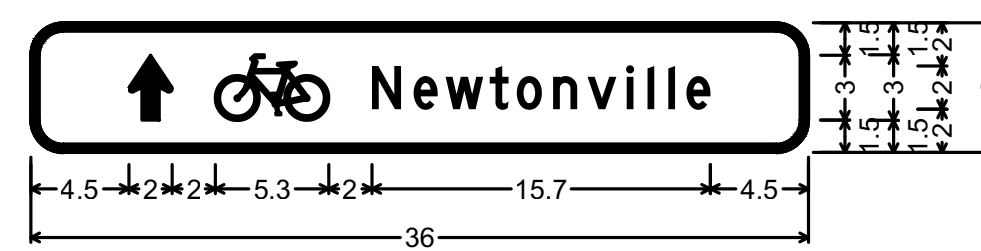
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	JL	IM	RL	25	43



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 User: EENTGAD0
 Printed by: Valerie Chen

TRAFFIC SIGN SUMMARY

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	TOTAL AREA (S.F.)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
D1-1A	36"	6"		SEE DETAIL			2	GREEN	WHITE	WHITE	P5 (2)	1.50	3.00
D1-1B	36"	6"		SEE DETAIL			2	GREEN	WHITE	WHITE	MOUNT WITH D1-1A (2)	1.50	3.00
D1-2B	36"	12"		SEE DETAIL			2	GREEN	WHITE	WHITE	P5(2)	3.00	6.00
D11-1	24"	18"		①	①	①	2	GREEN	WHITE	WHITE	P5(2)	3.00	6.00
D11-12	18"	18"					4	GREEN	WHITE	WHITE	MOUNT BACK TO BACK ON P5 (2)	2.25	9.00
M6-1PL	12"	9"					2	GREEN	WHITE	WHITE	MOUNT W/ D11-12(2)	0.75	1.50
M6-1PR	12"	9"					2	GREEN	WHITE	WHITE	MOUNT W/ D11-12(2)	0.75	1.50
M6-2	12"	9"					1	GREEN	WHITE	WHITE	MOUNT W/ D11-1 (1)	0.75	0.75
M6-3	12"	9"					1	GREEN	WHITE	WHITE	MOUNT W/ D11-1 (1)	0.75	0.75
R3-8eR	30"	30"					1	WHITE	BLACK	BLACK	P5 (1)	6.25	6.25
R3-9b	24"	36"					4	WHITE	BLACK	BLACK	P5 (1)	6.00	24.00
R3-9cP	30"	12"					2	WHITE	BLACK	BLACK	MOUNT W/ R3-9B (2)	2.50	5.00
R3-17	24"	18"					1	WHITE	BLACK	BLACK	P5 (1)	3.00	3.00
R3-17bP	24"	8"					3	WHITE	BLACK	BLACK	MOUNT W/ R3-9B (2) MOUNT W/ R3-17 (1)	1.33	3.99
R4-7	24"	30"					10	WHITE	BLACK	BLACK	P5 (10)	5.00	50.00
R7-1	12"	18"					6	WHITE	RED	RED	P5 (6)	1.50	9.00
R7-1L	12"	18"					22	WHITE	RED	RED	P5 (21) MOUNT WITH D11-12 (1)	1.50	33.00
R7-1R	12"	18"					21	WHITE	RED	RED	P5 (21)	1.50	31.50

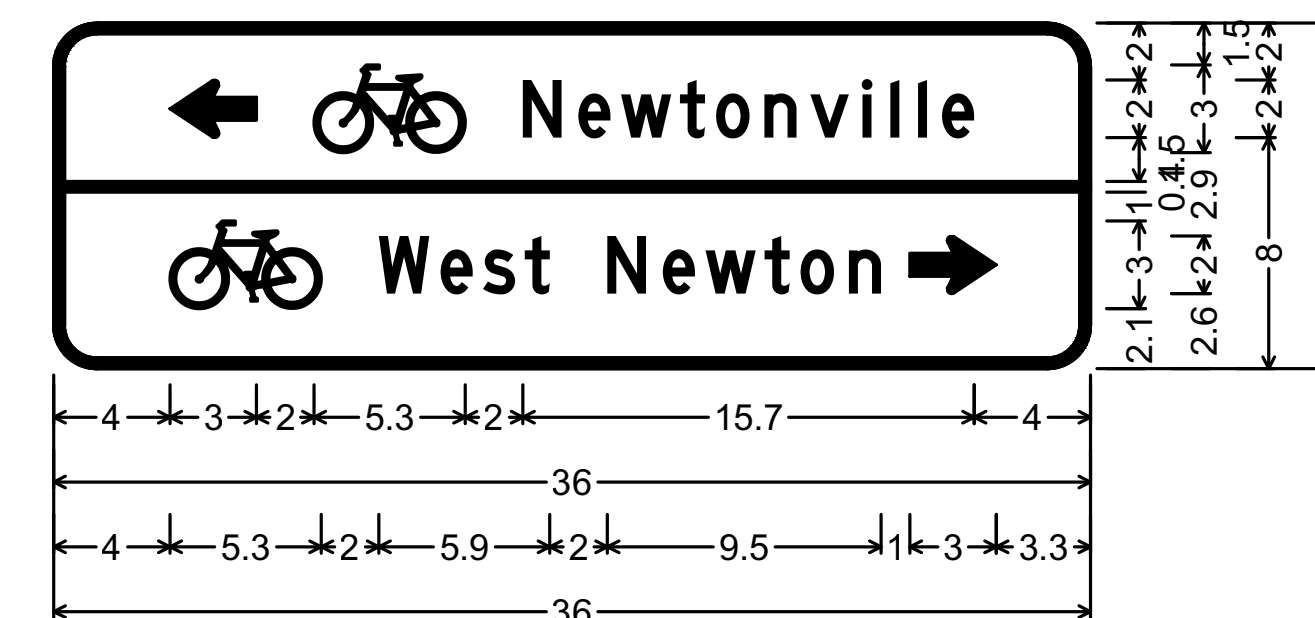


D1-1A:
1.5" Radius, 0.4" Border, White on, Green;
Standard Arrow Custom 3.0" X 2.0" 90'; Bicycle;
"Newtonville", D;

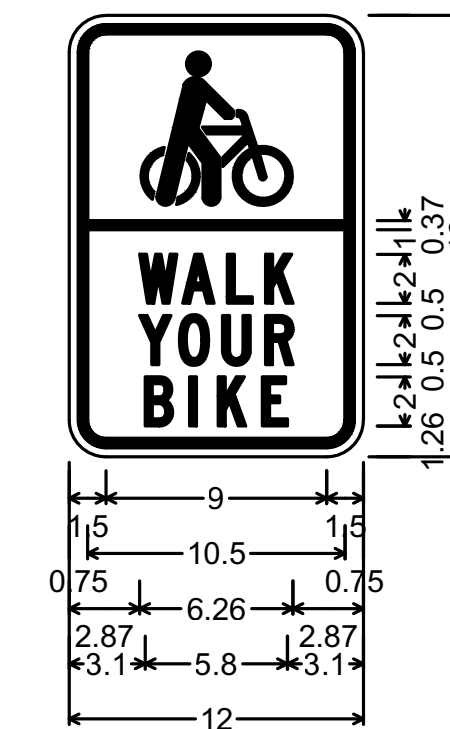


D1-1B:
1.5" Radius, 0.4" Border, White on, Green;
Standard Arrow Custom 3.0" X 2.0" 90'; Bicycle;
"West Newton", D;

IDENTIFICATION NUMBER	SIZE OF SIGN		TEXT	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			POST SIZE AND NUMBER REQUIRED	UNIT AREA (S.F.)	TOTAL AREA (S.F.)
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACK-GROUND	LEGEND	BORDER			
R7-107	12"	30"		SEE MBTA STANDARD DETAIL			5	WHITE YELLOW RED	BLACK WHITE	N/A	P5 (3) MOUNT W/ R7-1 (2)	2.50	12.50
R7-107B	12"	30"		SEE MBTA STANDARD DETAIL			2	WHITE RED	BLACK RED WHITE	RED	P5 (1) MOUNT ON EXISTING P5 (1)	2.50	5.00
R9-5	12"	18"		①	①	①	8	WHITE	BLACK	BLACK	MOUNT ON EXIST TS (8)	1.50	12.00
R9-6	12"	18"					24	WHITE	BLACK	BLACK	P5 (12)	1.50	36.00
R10-7	24"	30"					1	WHITE	BLACK	BLACK	P5 (1)	5.00	5.00
R10-11B	24"	24"					1	WHITE	BLACK	BLACK	MOUNT ON EXIST MAST ARM POST (1)	4.00	4.00
SP-1	12"	18"		SEE DETAIL			1	WHITE	BLACK	BLACK	P5 (1)	1.50	1.50
W11-2	30"	30"		①	①	①	18	FLUORE- SCENT YELLOW GREEN	BLACK	BLACK	P5 (6) MOUNT BACK TO BACK ON P5 (5) MOUNT ON LIHT POST (2)	6.25	112.50
W16-7PL	24"	12"					8	FLUORE- SCENT YELLOW GREEN	BLACK	BLACK	MOUNT W/ W11-2 (8)	2.00	16.00
W16-7PR	24"	12"					10	FLUORE- SCENT YELLOW GREEN	BLACK	BLACK	MOUNT W/ W11-2 (10)	2.00	20.00



D1-2C;
1.5" Radius, 0.4" Border, White on, Green;
Standard Arrow Custom 3.0" X 2.0" 180'; Bicycle;
"Newtonville", D; Bicycle; "West Newton", D;
Standard Arrow Custom 3.0" X 2.0" 0';

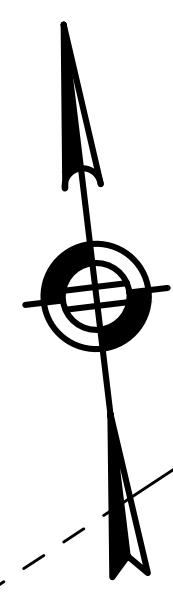


SP-1_12x18;
1.50" Radius, 0.38" Border, 0.38" Indent, Black on, White;
Symbol RG025;
"WALK", C 2K specified length;
"YOUR", C 2K specified length;
"BIKE", C 2K specified length;

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WASHINGTON STREET PILOT TRAFFIC SIGN SUMMARY SHEET SHEET 1 OF 1						
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	JL	IM	RL	26	43

① SEE MUTCD 2009 EDITION WITH REVISIONS AND MASSACHUSETTS AMENDMENTS AND MASSDOT 2024 STANDARD SPECIFICATIONS FOR TEXT DIMENSIONS AND COLOR.



WATERTOWN STREET (ROUTE 16)

978 WATERTOWN ST
PARCEL SBL 31005 0001
N/F
LUNA REALTY PTNRS LTD PTNRSHIP
BOOK 49770, PAGE 333

1253 WASHINGTON ST
PARCEL SBL 31005 0002
N/F
DONATO MARK F &
STEVEN J TRS
BOOK 55679, PAGE 5911

1239-1247 WASHINGTON ST
PARCEL SBL 31005 0003
N/F
DONATO STEVEN J & MARK F TRS
BOOK 43663, PAGE 417

DAVIS COURT

1229 WASHINGTON ST
PARCEL SBL 31006 0017
N/F
DONATO MARK F
BOOK 77140, PAGE 17

1221 WASHINGTON ST
PARCEL SBL 31006 0016
N/F
DONATO MARK F
BOOK 77140, PAGE 17

1213-1215 WASHINGTON
PARCEL SBL 31006 0015
N/F
DONATO MARK F & STEVE
BOOK 79289, PAGE 17

NO LANDSCAPE SCOPE

WASHINGTON STREET

100

101

102

103

104

105

+49.65
PC

106

1 CHESTNUT ST
PARCEL SBL 33010 0005
N/F
BANK OF AMERICA
BOOK 5578, PAGE 119

CHESTNUT STREET

1250 WASHINGTON ST
PARCEL SBL 31004 0016
N/F
COUTO & CHAVES INVESTMENT CO LLC
BOOK 58795, PAGE 459

SADASDASDASD

1236 WASHINGTON ST
PARCEL SBL 31004 0014
N/F
JACOB & ASSOCIATES INC
BOOK 26669, PAGE 251

1210-1230 WASHINGTON ST
PARCEL SBL 31004 0013
N/F
DIV WASHINGTON LLC
BOOK 46748, PAGE 570

24 CHESTNUT ST
PARCEL SBL 31004 0015

PLANTING LEGEND

SYM.	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL
	PROPOSED GRASSES		EXISTING TREE TO REMAIN	
	PROPOSED SHRUB		EXISTING SHRUB TO REMAIN	
	PROPOSED TREE		PROPERTY LINE	
	PROPOSED EVERGREEN TREE		LIMIT OF SOIL REPLACEMENT. REMOVE AND DISPOSE OF EXISTING SOIL TO A DEPTH OF 2'-0". BACKFILL WITH 2'-0" OF NEW LOAM TO RAISE GRADES BACK TO EXISTING ELEVATIONS. EXCAVATED SOIL IS NOT TO BE REUSED ON SITE.	
	PROPOSED PLANTER POT - 10 TOTAL		ROOT BARRIER	

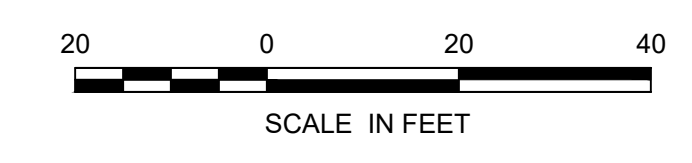


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HALVORSON
TightBond STUDIO

25 KINGSTON ST, BOSTON MA 02111-2200
PHONE: 617-542-0280
WWW.HALVORSONDESIGN.COM

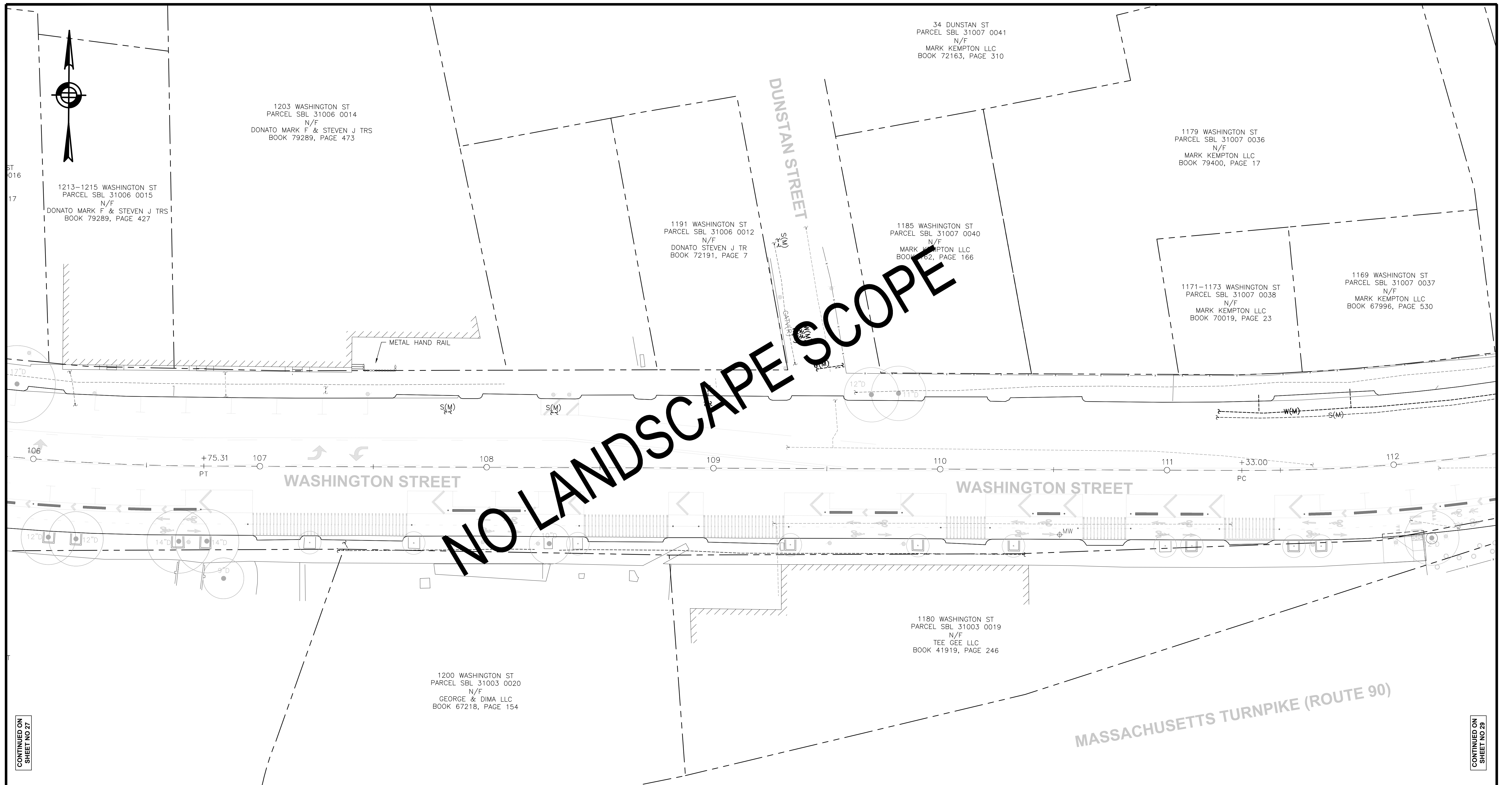
**WASHINGTON STREET PILOT
LANDSCAPE PLANS**
SHEET 1 OF 9



HSJ PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163	09/12/24	PC	BJ	BJ	27	43

CONTINUED ON
SHEET NO 28

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 S:\Shared By: P\CALLAHAN
 Printed by: Patrick Callahan



NO LANDSCAPE SCOPE

PLANTING LEGEND

SYM.	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL
	PROPOSED GRASSES			EXISTING TREE TO REMAIN
	PROPOSED SHRUB			EXISTING SHRUB TO REMAIN
	PROPOSED TREE			PROPERTY LINE
	PROPOSED EVERGREEN TREE			LIMIT OF SOIL REPLACEMENT. REMOVE AND DISPOSE OF EXISTING SOIL TO A DEPTH OF 2'-0". BACKFILL WITH 2'-0" OF NEW LOAM TO RAISE GRADES BACK TO EXISTING ELEVATIONS. EXCAVATED SOIL IS NOT TO BE REUSED ON SITE.
	PROPOSED PLANTER POT - 10 TOTAL			ROOT BARRIER



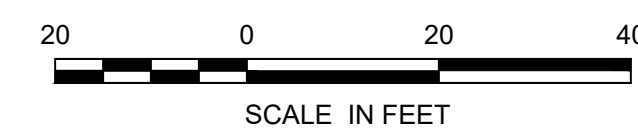
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**WASHINGTON STREET PILOT
LANDSCAPE PLANS
SHEET 2 OF 9**

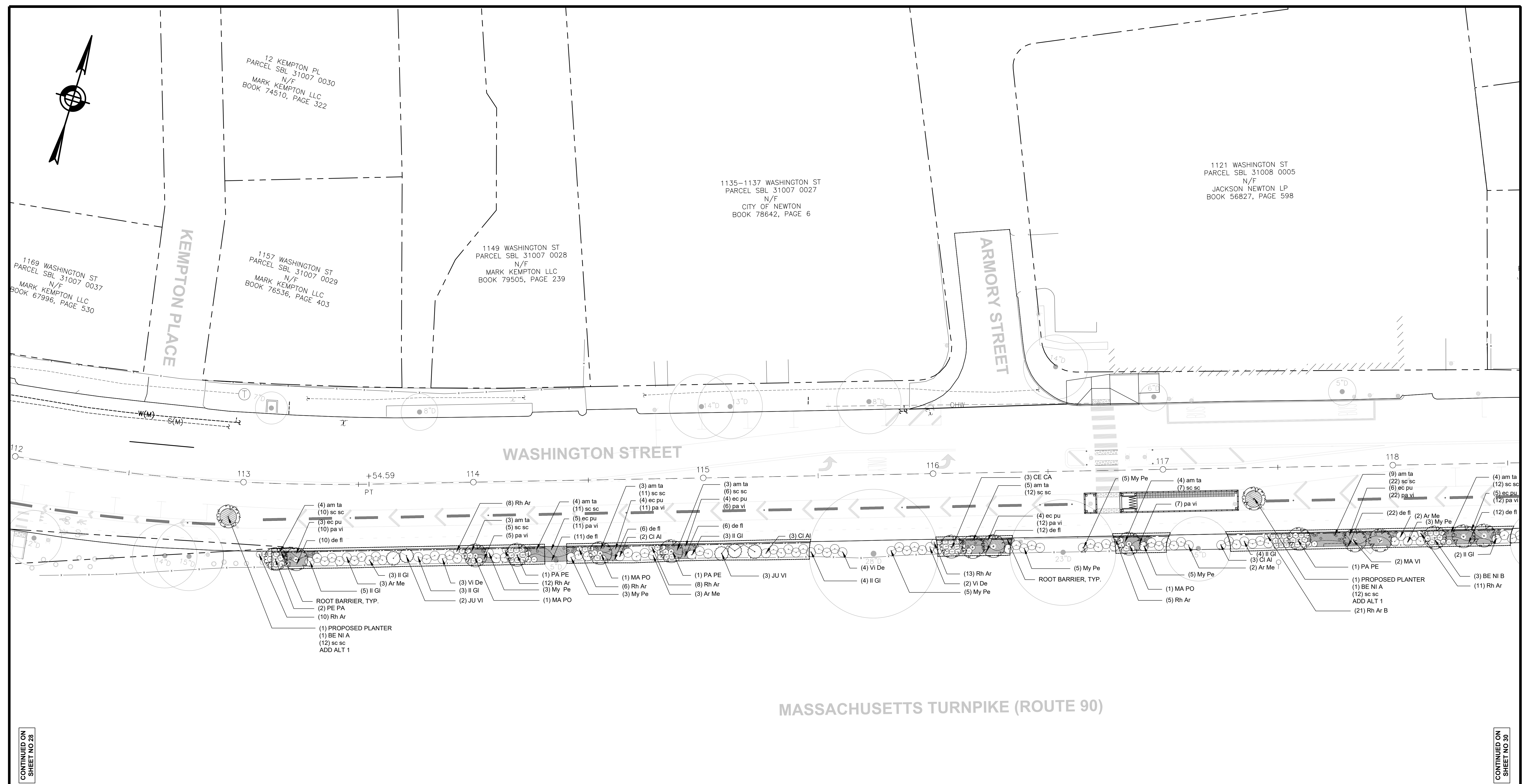
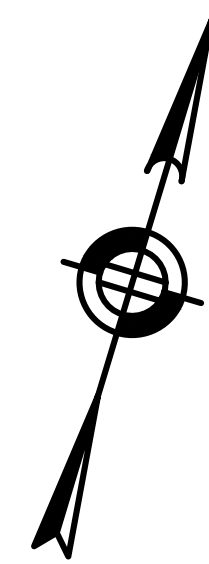


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2021163	09/12/24	PC	BJ	BJ	28	43

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CONTINUED ON
SHEET NO 27

CONTINUED ON
SHEET NO 29



CONTINUED ON
SHEET NO 28

CONTINUED ON
SHEET NO 30

PLANTING LEGEND

SYM.	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL
	PROPOSED GRASSES			EXISTING TREE TO REMAIN
	PROPOSED SHRUB			EXISTING SHRUB TO REMAIN
	PROPOSED TREE			PROPERTY LINE
	PROPOSED EVERGREEN TREE			LIMIT OF SOIL REPLACEMENT. REMOVE AND DISPOSE OF EXISTING SOIL TO A DEPTH OF 2'-0". BACKFILL WITH 2'-0" OF NEW LOAM TO RAISE GRADES BACK TO EXISTING ELEVATIONS. EXCAVATED SOIL IS NOT TO BE REUSED ON SITE.
	PROPOSED PLANTER POT - 10 TOTAL			ROOT BARRIER



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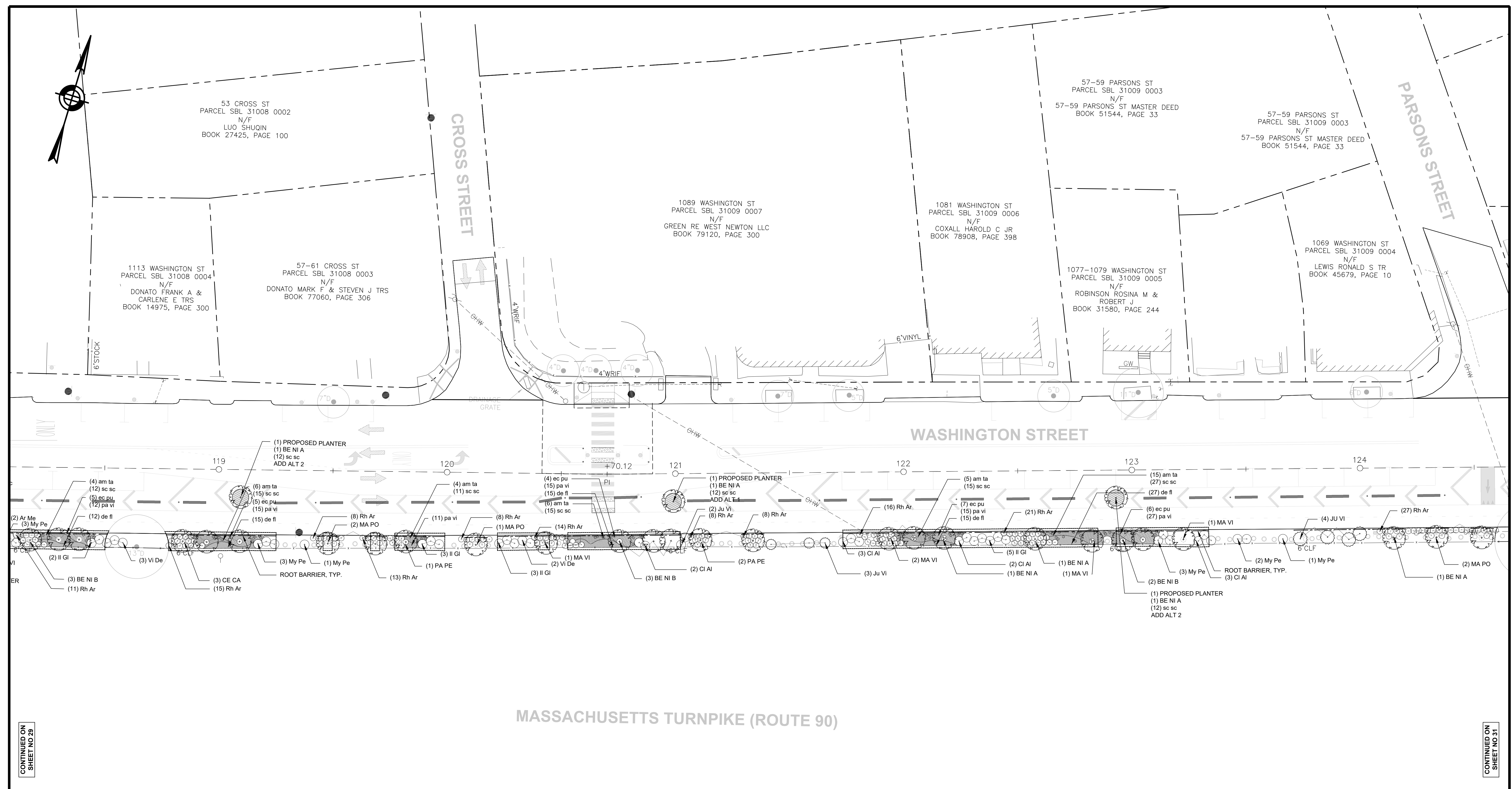
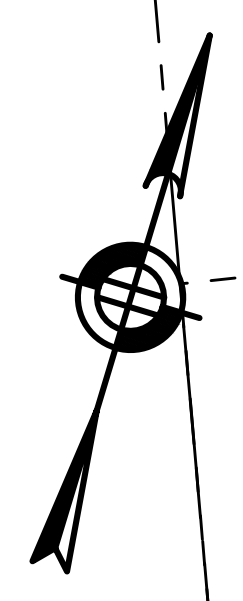
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**WASHINGTON STREET PILOT
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SHEET 3 OF 9**



HSR PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
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CONTINUED ON SHEET NO 25

CONTINUED ON SHEET NO 31

PLANTING LEGEND

SYM.	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL
	PROPOSED GRASSES			EXISTING TREE TO REMAIN
	PROPOSED SHRUB			EXISTING SHRUB TO REMAIN
	PROPOSED TREE			PROPERTY LINE
	PROPOSED EVERGREEN TREE			LIMIT OF SOIL REPLACEMENT. REMOVE AND DISPOSE OF EXISTING SOIL TO A DEPTH OF 2'-0". BACKFILL WITH 2'-0" OF NEW LOAM TO RAISE GRADES BACK TO EXISTING ELEVATIONS. EXCAVATED SOIL IS NOT TO BE REUSED ON SITE.
	PROPOSED PLANTER POT - 10 TOTAL			ROOT BARRIER

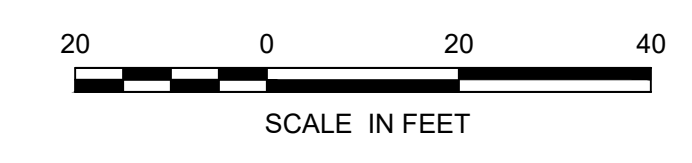


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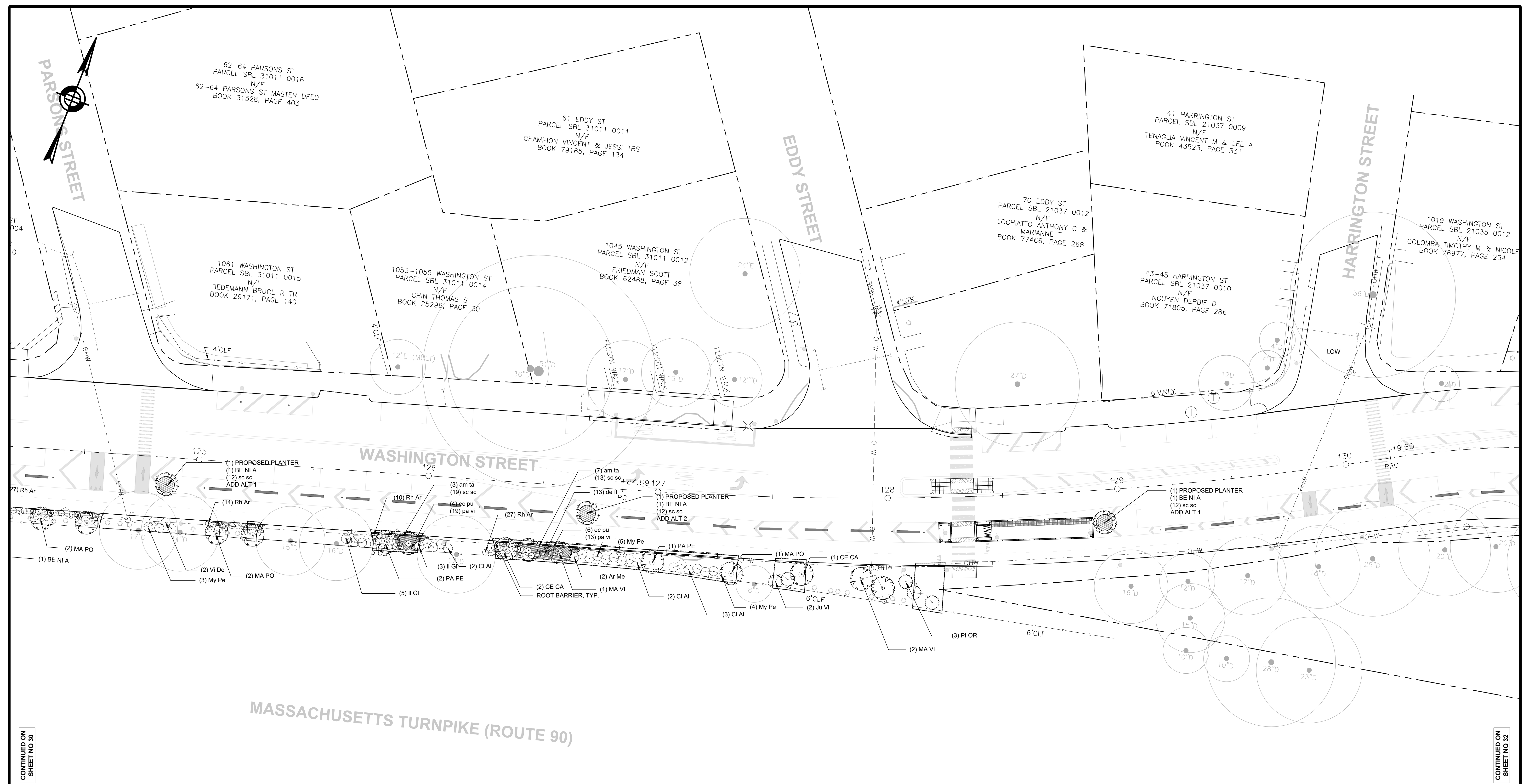
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**WASHINGTON STREET PILOT
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 SHEET 4 OF 9**



HSR PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163	09/12/24	PC	BJ	BJ	30	43

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CONTINUED ON
SHEET NO 30

CONTINUED ON
SHEET NO 32

PLANTING LEGEND

SYM.	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL
	PROPOSED GRASSES		EXISTING TREE TO REMAIN	
	PROPOSED SHRUB		EXISTING SHRUB TO REMAIN	
	PROPOSED TREE		PROPERTY LINE	
	PROPOSED EVERGREEN TREE		LIMIT OF SOIL REPLACEMENT. REMOVE AND DISPOSE OF EXISTING SOIL TO A DEPTH OF 2'-0". BACKFILL WITH 2'-0" OF NEW LOAM TO RAISE GRADES BACK TO EXISTING ELEVATIONS. EXCAVATED SOIL IS NOT TO BE RESUSED ON SITE.	
	PROPOSED PLANTER POT - 10 TOTAL		ROOT BARRIER	



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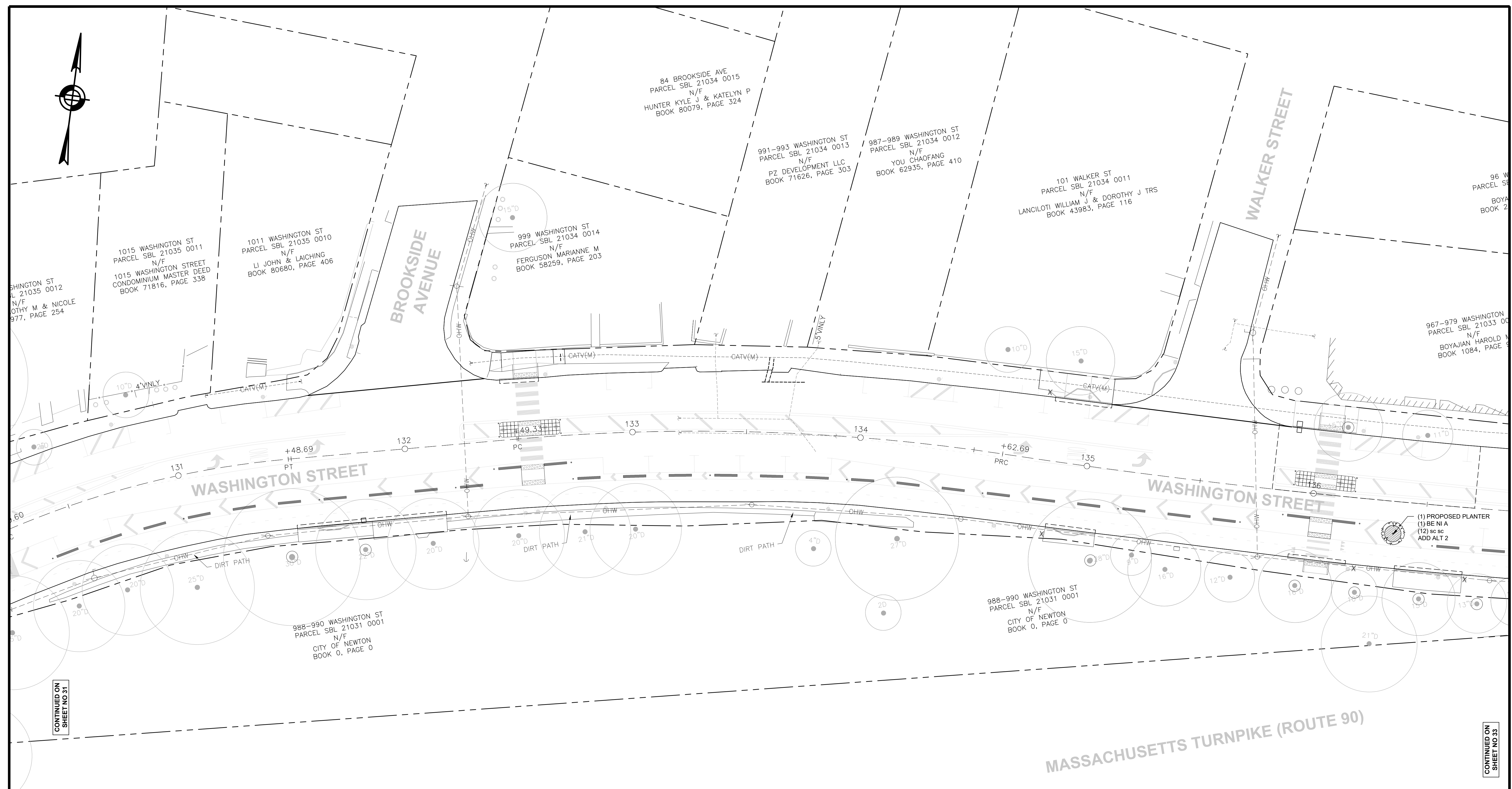
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LANDSCAPE PLANS
SHEET 5 OF 9**



HSJ PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163	09/12/24	PC	BJ	BJ	31	43

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SYM.	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL
	PROPOSED GRASSES			EXISTING TREE TO REMAIN
	PROPOSED SHRUB			EXISTING SHRUB TO REMAIN
	PROPOSED TREE			PROPERTY LINE
	PROPOSED EVERGREEN TREE			LIMIT OF SOIL REPLACEMENT. REMOVE AND DISPOSE OF EXISTING SOIL TO A DEPTH OF 2'-0". BACKFILL WITH 2'-0" OF NEW LOAM TO RAISE GRADES BACK TO EXISTING ELEVATIONS. EXCAVATED SOIL IS NOT TO BE REUSED ON SITE.
	PROPOSED PLANTER POT - 10 TOTAL			ROOT BARRIER

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 LANDSCAPE PLANS
 SHEET 6 OF 9**

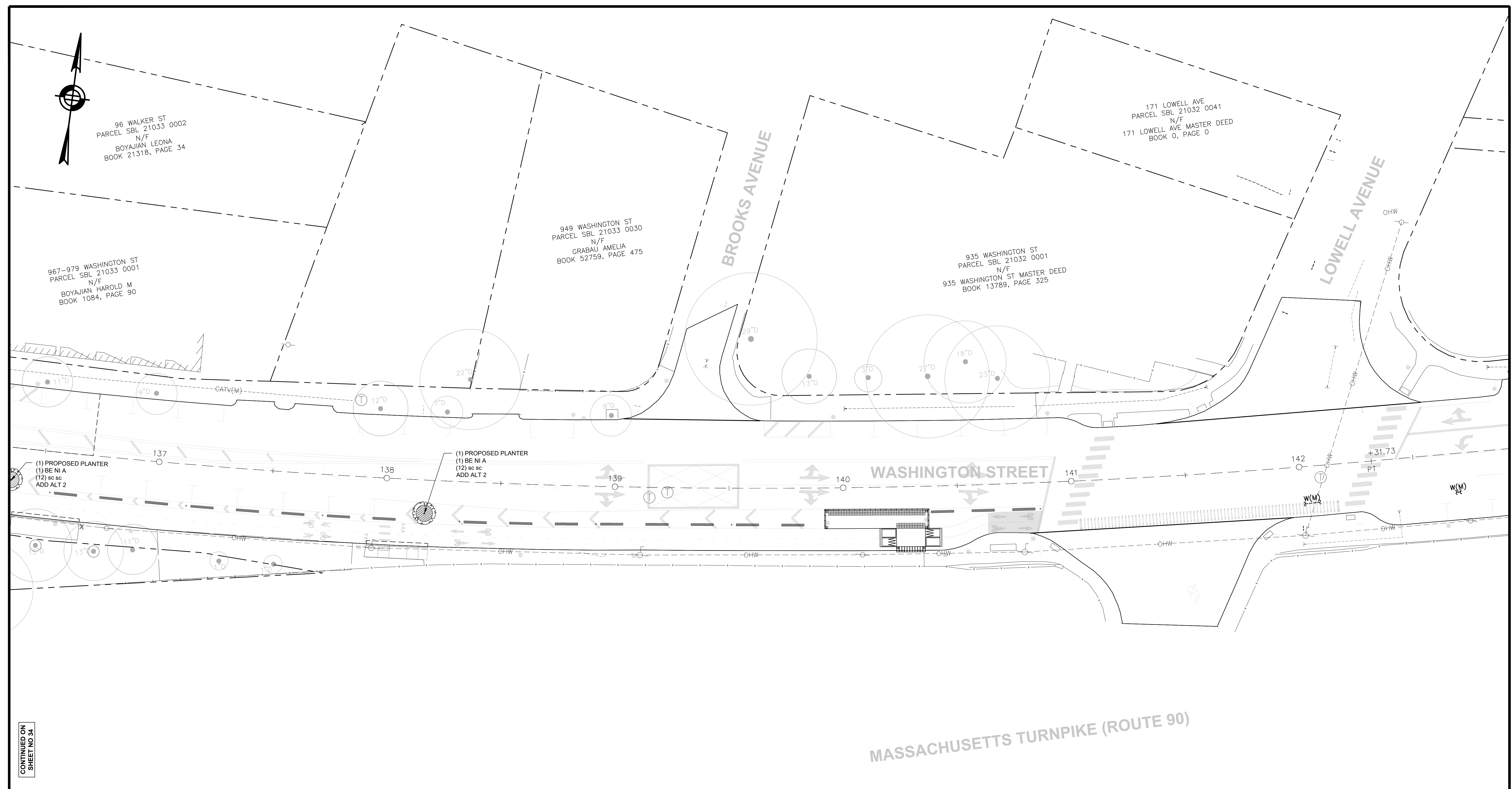
HSJ PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163	09/12/24	PC	BJ	BJ	32	43



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CONTINUED ON SHEET NO 31

CONTINUED ON SHEET NO 33



CONTINUED ON
SHEET NO 34

PLANTING LEGEND

SYM.	DESCRIPTION	DETAIL	DESCRIPTION	DETAIL
	PROPOSED GRASSES			EXISTING TREE TO REMAIN
	PROPOSED SHRUB			EXISTING SHRUB TO REMAIN
	PROPOSED TREE			PROPERTY LINE
	PROPOSED EVERGREEN TREE			LIMIT OF SOIL REPLACEMENT. REMOVE AND DISPOSE OF EXISTING SOIL TO A DEPTH OF 2'-0". BACKFILL WITH 2'-0" OF NEW LOAM TO RAISE GRADES BACK TO EXISTING ELEVATIONS. EXCAVATED SOIL IS NOT TO BE REUSED ON SITE.
	PROPOSED PLANTER POT - 10 TOTAL			ROOT BARRIER

MASSACHUSETTS TURNPIKE (ROUTE 90)



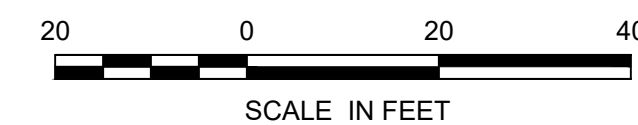
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**WASHINGTON STREET PILOT
LANDSCAPE PLANS
SHEET 7 OF 9**



HSJ PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163	09/12/24	PC	BJ	BJ	33	43

PLANTING NOTES

- LANDSCAPE ARCHITECT TO APPROVE PLANT MATERIAL AT THE NURSERY AND AGAIN AT SITE PRIOR TO PLANTING.
- PLANT MATERIAL SHALL CONFORM TO "THE AMERICAN STANDARD FOR NURSERY STOCK", PUBLISHED BY AMERICANHORT (WWW.AMERICANHORT.ORG).
- NO SUBSTITUTIONS OF PLANT SPECIES WITHOUT LANDSCAPE ARCHITECT'S WRITTEN APPROVAL.
- LOCATE AND VERIFY UTILITY LINE LOCATIONS PRIOR TO STAKING AND REPORT CONFLICT TO LANDSCAPE ARCHITECT.
- PLANTING DEMOLITION DEBRIS, GARBAGE, LUMPS OF CONCRETE, STEEL AND OTHER MATERIALS DELETERIOUS TO PLANT'S HEALTH AS DETERMINED BY LANDSCAPE ARCHITECT SHALL BE REMOVED FROM ALL PLANTING AREAS.
- NO PLANTING TO BE INSTALLED BEFORE ACCEPTANCE OF ROUGH GRADING.
- ALL PROPOSED TREE LOCATIONS SHALL BE STAKED OR LAID OUT IN THEIR APPROXIMATE LOCATION BY THE CONTRACTOR. REFER TO LAYOUT AND PLANTING SHEETS FOR LAYOUT INFORMATION. THE CONTRACTOR SHALL ADJUST THE LOCATIONS AS REQUESTED BY THE LANDSCAPE ARCHITECT TO ACCOUNT FOR SUBSURFACE UTILITIES AND OTHER FIELD CONDITIONS. FINAL LOCATIONS OF ALL PLANTS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- TOTAL QUANTITY OF PLANTS FOR EACH AREA TO BE AVAILABLE ON SITE AT THE TIME OF PLANTING FOR FIELD LAYOUT BY ENGINEER. NO PARTIAL LAYOUT AND PLANTING OF AREAS WILL BE ACCEPTABLE.
- INSTALL PLANTS WITH ROOT FLARES FLUSH WITH FINISHED GRADE OR TOP OF STRUCTURAL SOIL. IMMEDIATELY REPLANT PLANTS THAT SETTLE OUT OF PLUMB OR BELOW FINISHED GRADE.
- PLANT UNDER FULL TIME SUPERVISION OF CERTIFIED ARBORIST, NURSERYMAN, OR LICENSED LANDSCAPE ARCHITECT. PROVIDE WRITTEN VERIFICATION OF CERTIFICATION AND/OR LICENSE FOR LANDSCAPE ARCHITECT'S APPROVAL.
- LOOSE OR CRACKED ROOT BALLS ARE UNACCEPTABLE.
- DO NOT USE TREE WRAP.
- REMOVE TOP 2/3 OF WIRE BASKETS. REMOVE TOP 1/3 OF BURLAP. SYNTHETIC BURLAP WILL NOT BE ACCEPTED. FOR CONTAINER PLANTS, REMOVE CONTAINER AND SCARIFY EDGES OF ROOT BALL 1/2" DEEP IN A MINIMUM OF FOUR LOCATIONS.
- WATER PLANTS THOROUGHLY AFTER INSTALLATION, A MINIMUM OF TWICE WITHIN THE FIRST 24 HOURS.
- RAISE AND REPLANT PLANTS THAT SETTLE AFTER PLANTING AND WATERING.

PLANT SCHEDULE

	Symbol	Quantity	Botanical Name	Common Name	Size	Spacing	Notes
TREES							
	BE NI A	3	<i>Betula nigra 'Dura-Heat'</i>	River Birch	8-10' ht, B&B	see plan	multi stem, matched specimen
ADD ALT 1	BE NI A	5	<i>Betula nigra 'Dura-Heat'</i>	River Birch	8-10' ht, B&B	see plan	multi stem, matched specimen
ADD ALT 2	BE NI A	5	<i>Betula nigra 'Dura-Heat'</i>	River Birch	8-10' ht, B&B	see plan	multi stem, matched specimen
	BE NI B	8	<i>Betula nigra 'Dura-Heat'</i>	River Birch	10-12' ht, B&B	see plan	Single stem, matched specimen
	CE CA	9	<i>Cercis canadensis</i>	Redbud	8-10' ht, B&B	see plan	multi stem, matched specimen
	MA PO	11	<i>Maclura pomifera 'White Shield'</i>	Osage Orange	8-10' ht, B&B	see plan	Single stem, matched specimen
	MA VI	10	<i>Magnolia virginiana</i>	Sweetbay Magnolia	8-10' ht, B&B	see plan	multi stem, matched specimen
	PA PE	9	<i>Parrotia persica 'Vanessa'</i>	Persian Ironwood	2.5-3" CAL,B&B	see plan	multi stem, matched specimen
EVERGREEN TREES							
	JU VI	16	<i>Juniperus virginiana</i>	Eastern Red Cedar	5-6' ht, B&B	see plan	
	PI OR	3	<i>Picea Orientalis</i>	Oriental Spruce	6-8' ht, B&B	see plan	
SHRUBS							
	Ar Me	12	<i>Aronia melanocarpa</i>	Black Chokeberry	30"-36" B&B	48" O.C.	
	Ci Al	25	<i>Clethra alnifolia</i>	Sweet Pepperbush	30"-36" B&B	48" O.C.	
	Il Gl	43	<i>Ilex glabra</i>	Inkberry	30"-36" B&B	48" O.C.	
	My Pe	48	<i>Myrica pensylvanica</i>	Bayberry	36"-42" B&B	48" O.C.	
	Rh Ar	283	<i>Rhus aromatica 'Gro-Low'</i>	Gro Low Sumac	18-24"	30" O.C.	
	Vi De	16	<i>Viburnum dentatum</i>	Arrowood Viburnum	36"-42" B&B	48" O.C.	
PERENNIALS							
	am ta	85	<i>Amsonia tabernaemontana</i>	Eastern Bluestar	1 GAL	18" O.C.	
	ec pu	63	<i>Echinacea purpurea</i>	Purple Coneflower	1 GAL	18" O.C.	
GRASSES							
	de fl	164	<i>Deschampsia flexuosa</i>	Wavy Hair Grass	2 GAL	24" O.C.	
	pa vi	211	<i>Panicum virgatum</i>	Switchgrass	2 GAL	24" O.C.	
	sc sc	211	<i>Schizachyrium scoparium</i>	Little Bluestem	2 GAL	24" O.C.	
ADD ALT 1	sc sc	60	<i>Schizachyrium scoparium</i>	Little Bluestem	2 GAL	24" O.C.	
ADD ALT 2	sc sc	60	<i>Schizachyrium scoparium</i>	Little Bluestem	2 GAL	24" O.C.	



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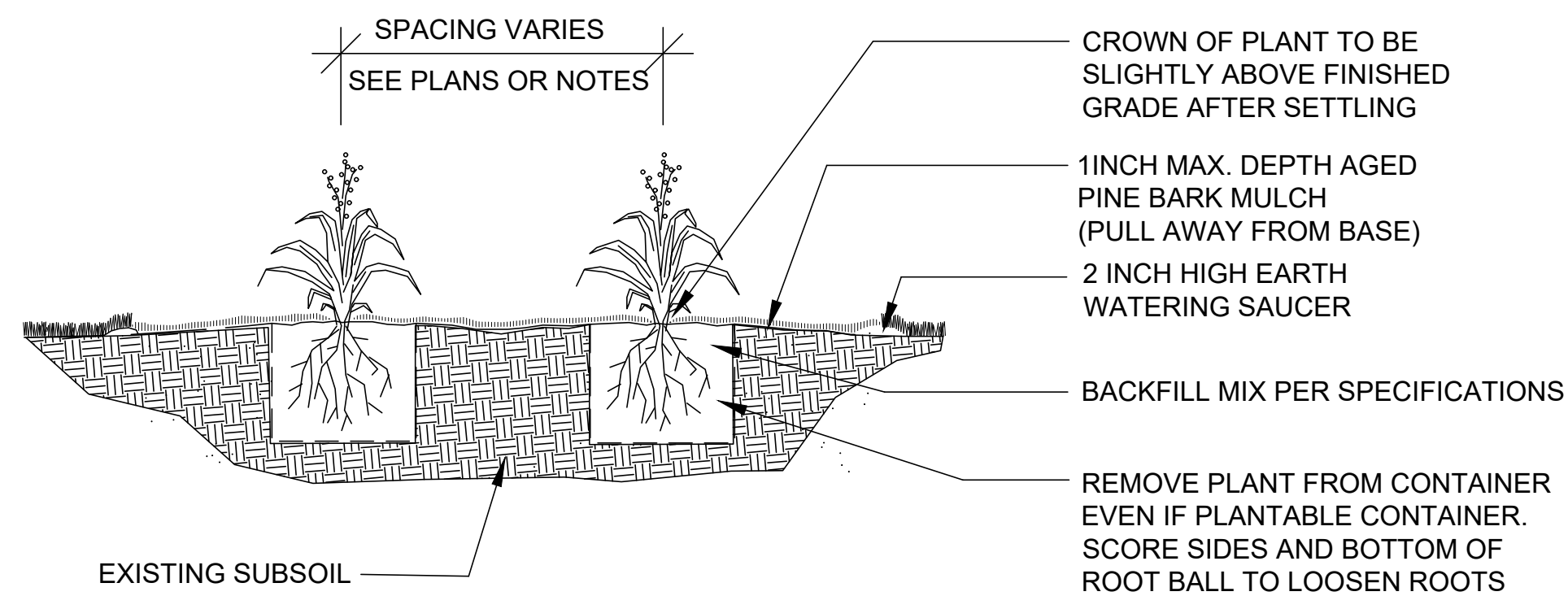
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WASHINGTON STREET PILOT
LANDSCAPE PLANS
SHEET 8 OF 9

HSR PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163	09/12/24	PC	BJ	BJ	34	43

NOTES:

- EXCAVATE TO REQUIRED DEPTH AND BACKFILL WITH PLANTING BED SOIL.
- RAISE AND REPLANT PLANTS THAT SETTLE MORE THAN 3 INCHES AFTER PLANTING AND WATERING.
- WATER BY FLOODING TWICE IN FIRST TWO HOURS AFTER PLANTING.
- WATER & MAINTAIN AS PER STANDARD SPECIFICATIONS.

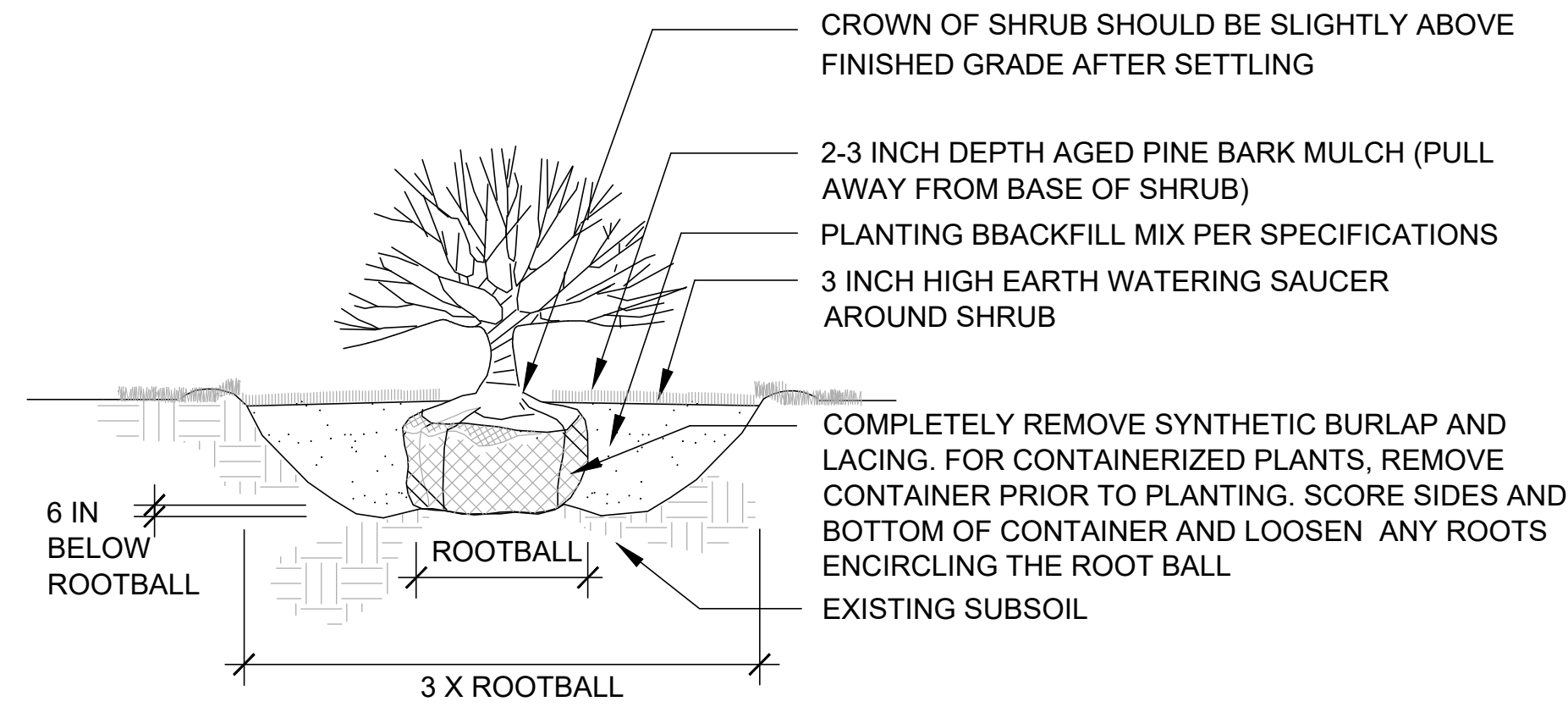


1 PERENNIAL PLANTING

NOT TO SCALE

NOTES:

- EXCAVATE TO REQUIRED DEPTH AND BACKFILL WITH PLANTING BED SOIL.
- SHRUBS SHALL BE SET PLUMB.
- WATER BY FLOODING TWICE IN FIRST TWO HOURS AFTER PLANTING.
- WATER & MAINTAIN AS PER STANDARD SPECIFICATIONS.
- LOOSE OR CRACKED ROOTBALLS WILL NOT BE ACCEPTED FOR PLANTING.

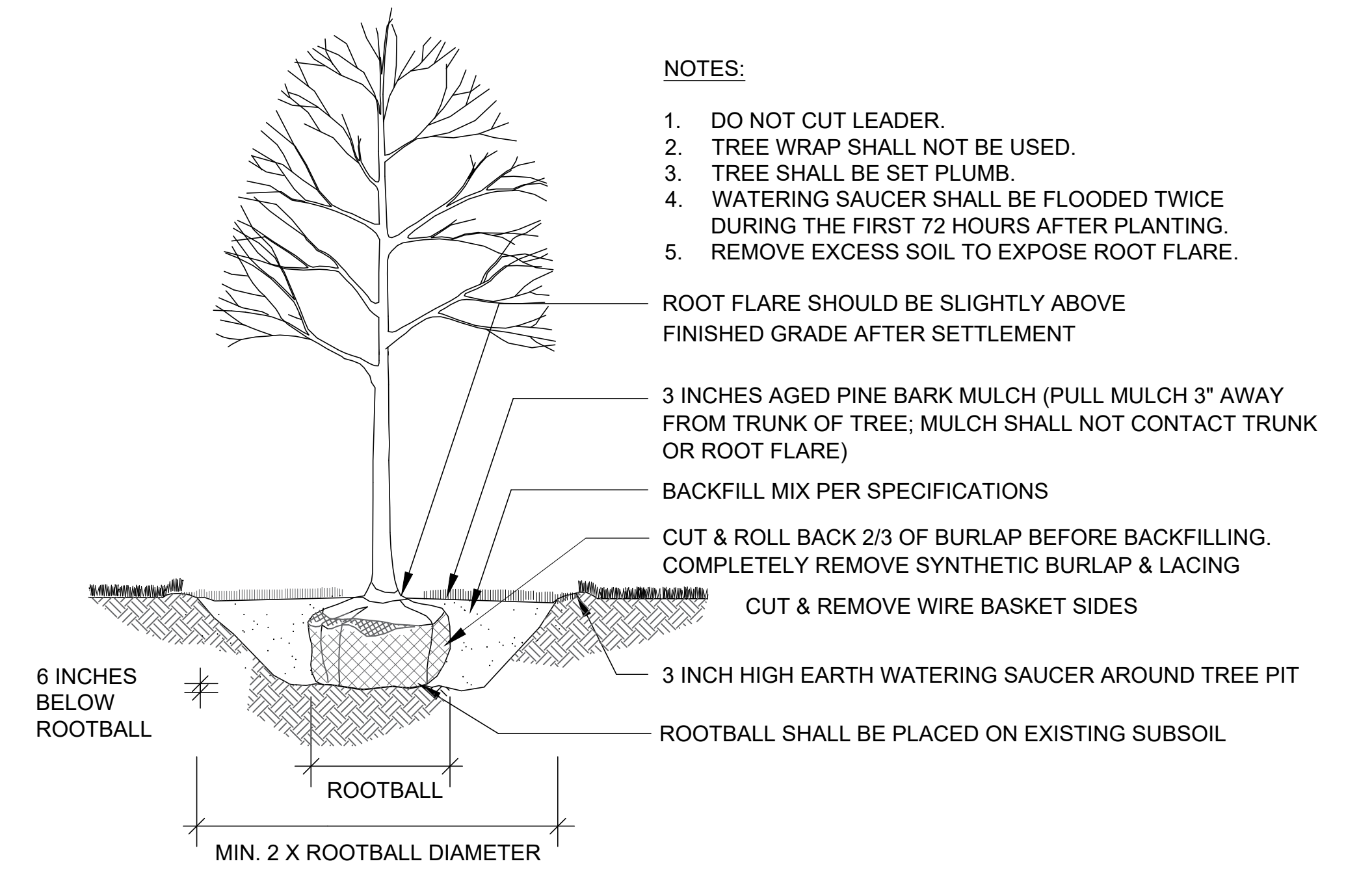


2 SHRUB PLANTING

NOT TO SCALE

NOTES:

- DO NOT CUT LEADER.
- TREE WRAP SHALL NOT BE USED.
- TREE SHALL BE SET PLUMB.
- WATERING SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 72 HOURS AFTER PLANTING.
- REMOVE EXCESS SOIL TO EXPOSE ROOT FLARE.



3 DECIDUOUS TREE PLANTING

NOT TO SCALE

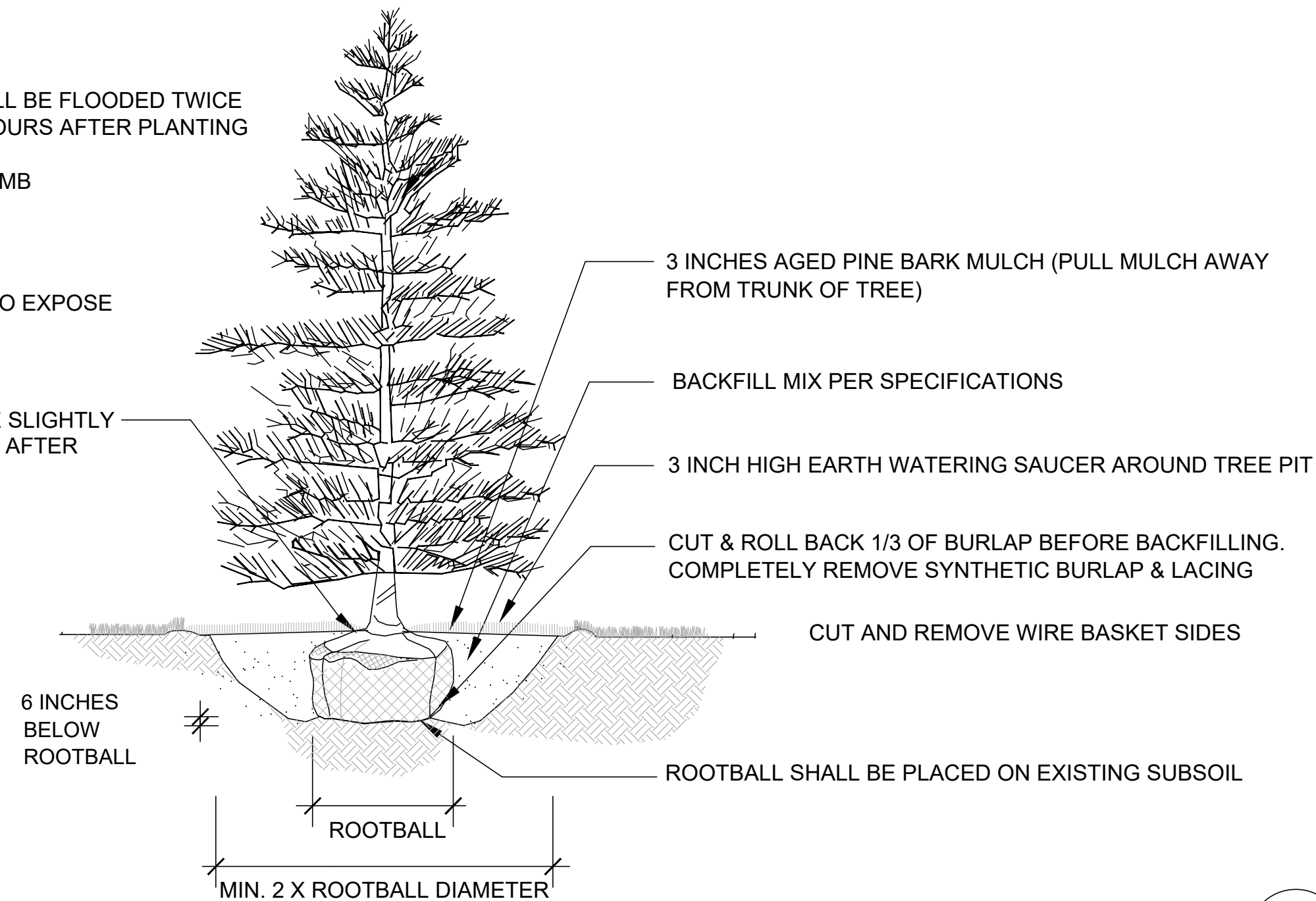
WATERING SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING

TREE SHALL BE SET PLUMB

DO NOT CUT LEADER

REMOVE EXCESS SOIL TO EXPOSE ROOT FLARE

ROOT FLARE SHOULD BE SLIGHTLY ABOVE FINISHED GRADE AFTER SETTLEMENT

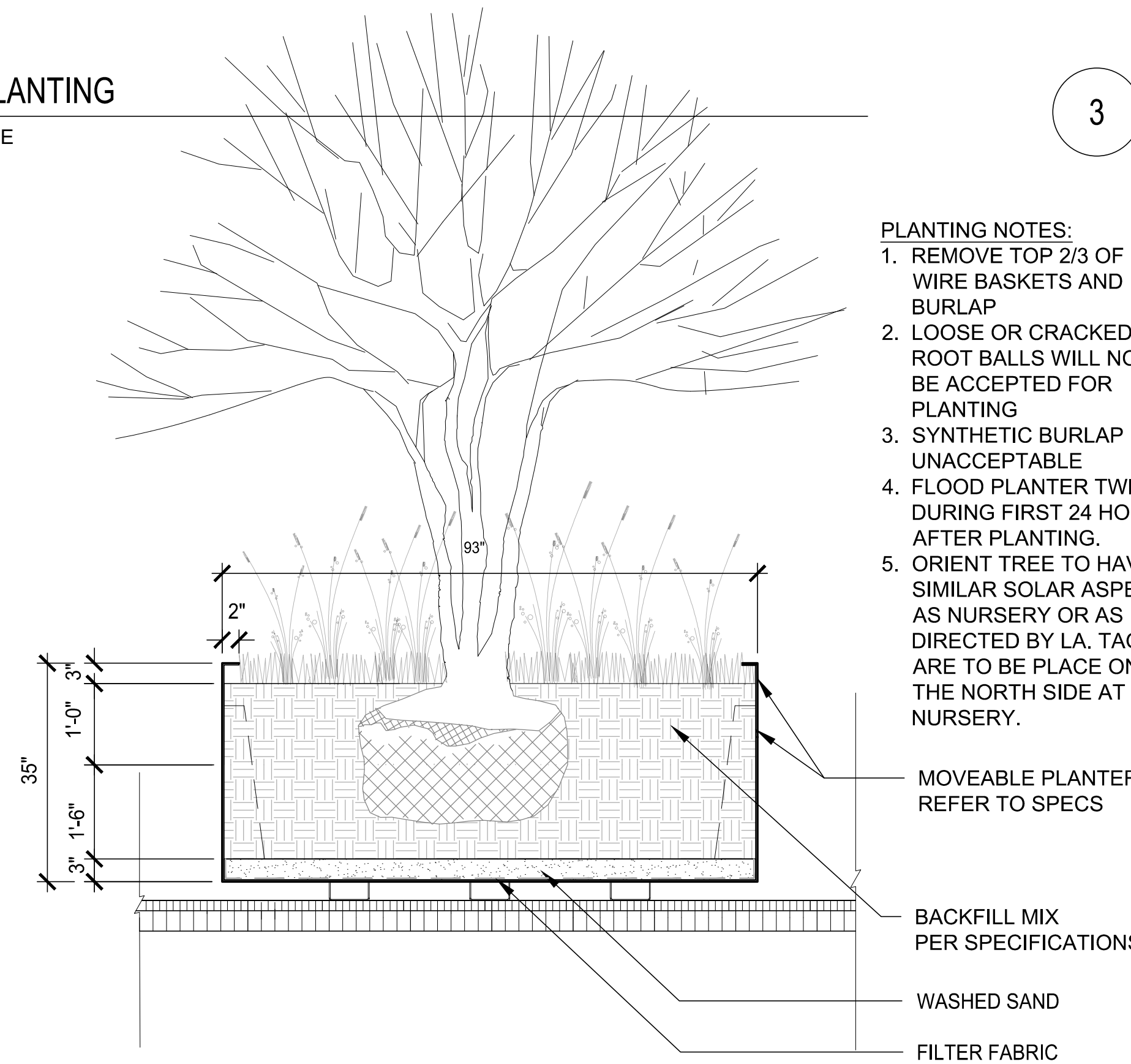


4 EVERGREEN TREE PLANTING

NOT TO SCALE

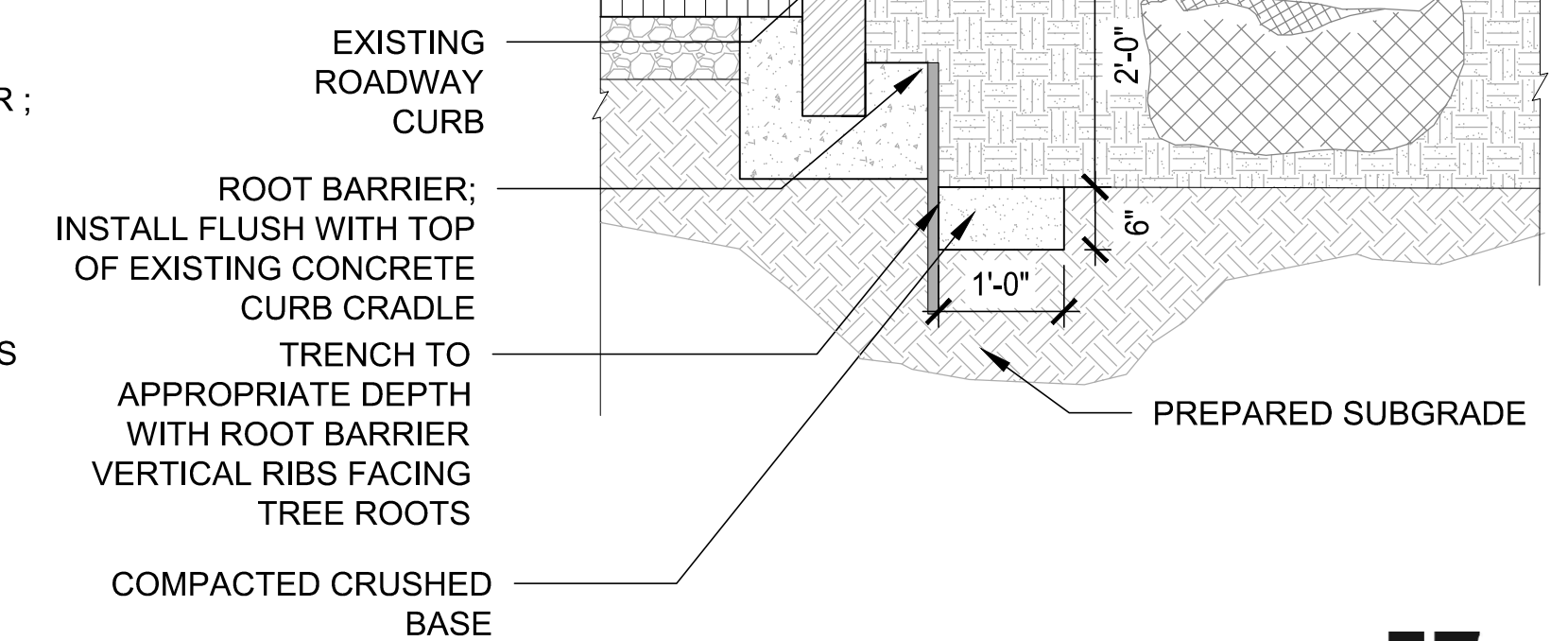
PLANTING NOTES:

- REMOVE TOP 2/3 OF WIRE BASKETS AND BURLAP
- LOOSE OR CRACKED ROOT BALLS WILL NOT BE ACCEPTED FOR PLANTING
- SYNTHETIC BURLAP IS UNACCEPTABLE
- FLOOD PLANTER TWICE DURING FIRST 24 HOURS AFTER PLANTING.
- ORIENT TREE TO HAVE SIMILAR SOLAR ASPECT AS NURSERY OR AS DIRECTED BY LA. TAGS ARE TO BE PLACED ON THE NORTH SIDE AT THE NURSERY.



5 TREE PLANTING IN PLANTER POT

NOT TO SCALE



6 ROOT BARRIER

NOT TO SCALE



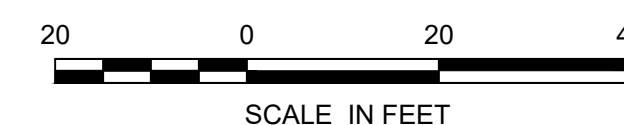
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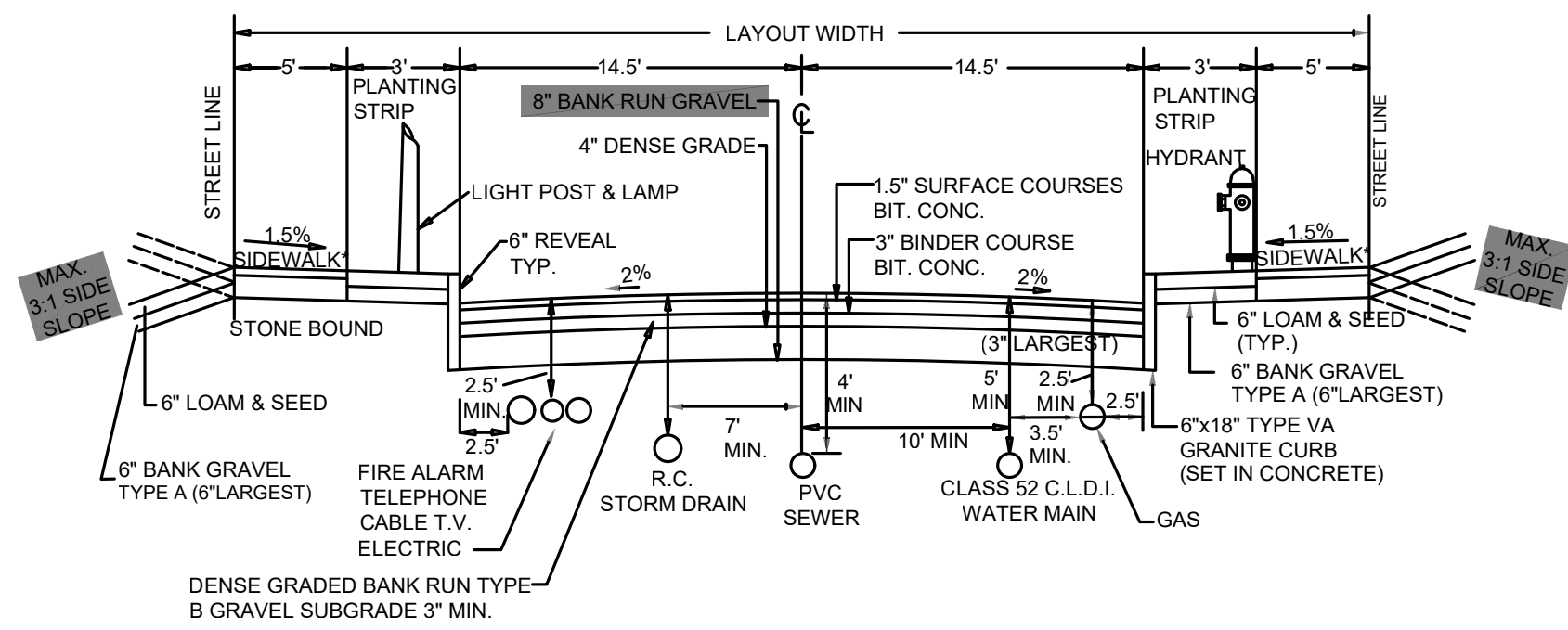
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LANDSCAPE PLANS**
SHEET 9 OF 9



HSJ PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
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	LAYOUT WIDTH	PAVEMENT WIDTH	CROWN
(NEW SUBDIVISION)	40'	24'	4"
	45'	29'	4"
	50'	34'	5"



***SIDEWALK NOTES:**
 ALL SOIL IS TO BE COMPACTED TO 95% DENSITY PER A.S.T.M. STANDARDS
 6\"/>

4\"/>

BITUMINOUS CONCRETE WALKS IN THE PUBLIC WAY ONLY AS DIRECTED

3\"/>

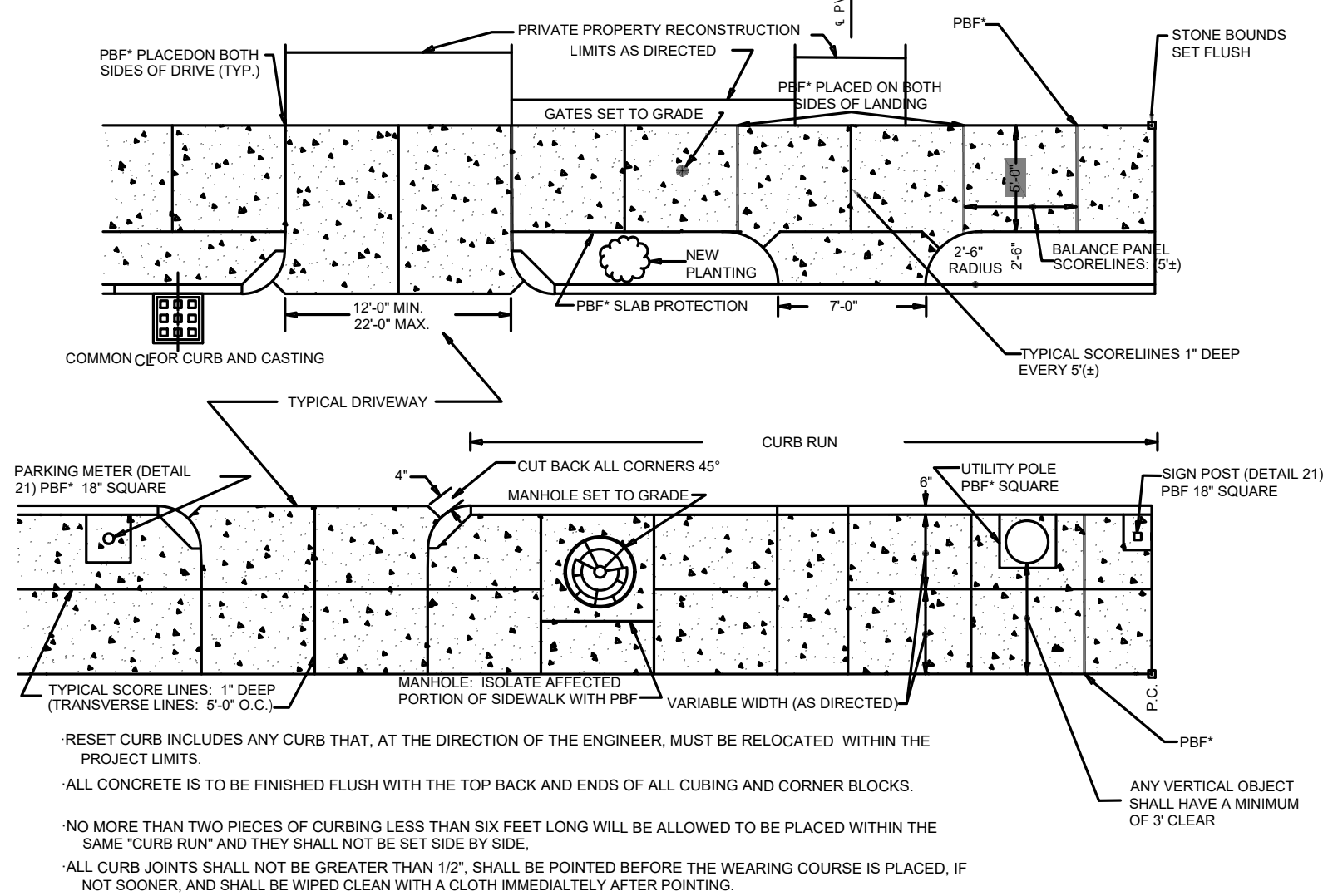
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6\"/>

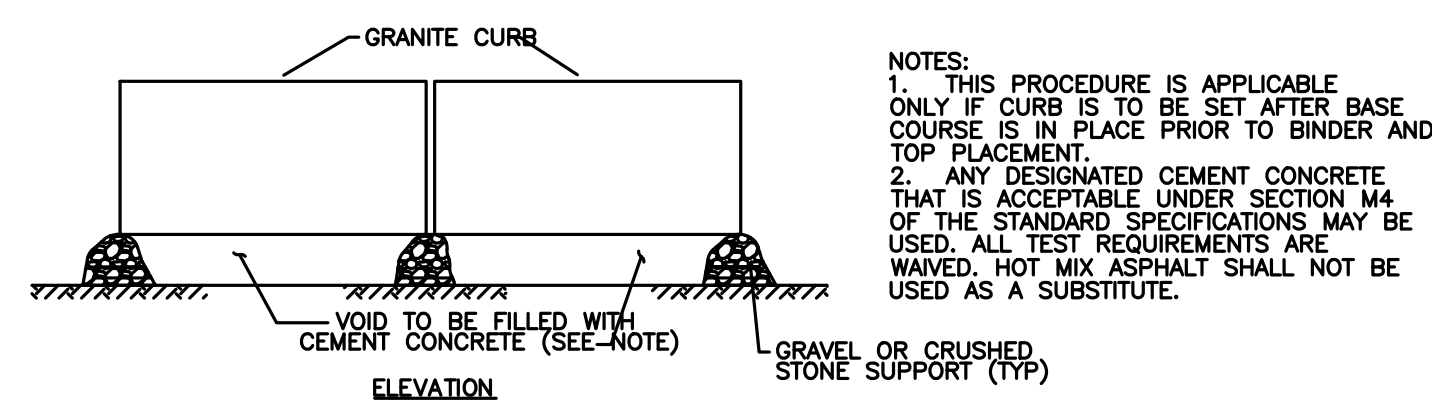
**CITY OF NEWTON DETAIL 1 -
 TYPICAL CROSS SECTION OF STREETS
 NOT TO SCALE**

IMPORTANT NOTES:

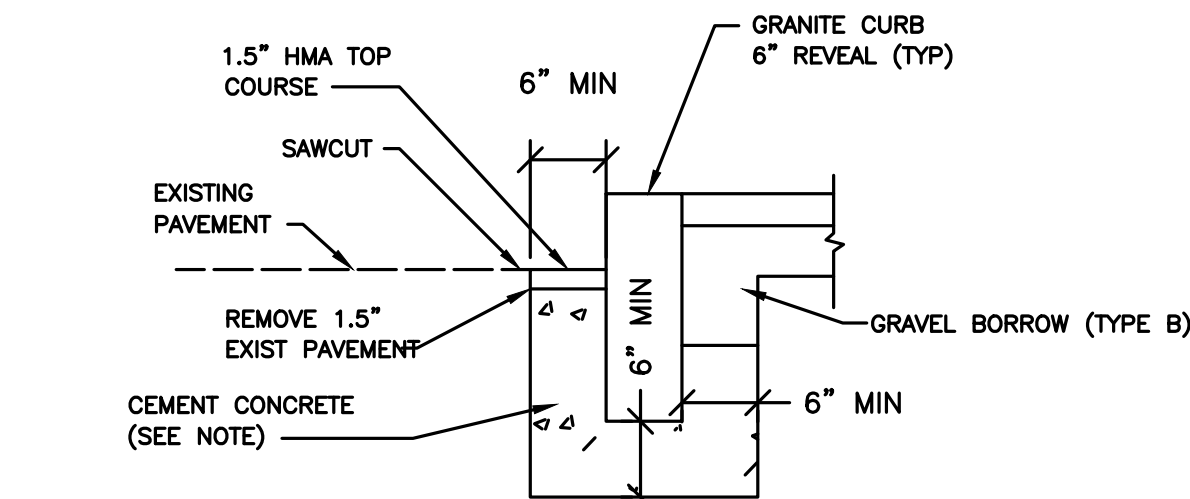
- REFER TO DETAIL 1 FOR SIDEWALK SECTION.
- CEMENT CONCRETE IS SHOWN. SCHEME APPLIES TO BITUMINOUS CONCRETE ALSO, HOWEVER, ALL JOINTS AND SCORE MARKS ARE ELIMINATED & "TACK" ABUTTING ADJACENT BITUMINOUS CONCRETE PAVEMENTS SHALL BE USED.
- 2\"/>
- ALL DRIVEWAY APRONS TO REMAIN 1\"/>
- DEPTH: 4\"/>
- SEE DETAILS 4 THROUGH 13 FOR PEDESTRIAN CURB RAMPS AND DRIVEWAY APRONS.



**CITY OF NEWTON DETAIL 3 -
 SIDEWALK AND CURB SCHEME
 NOT TO SCALE**

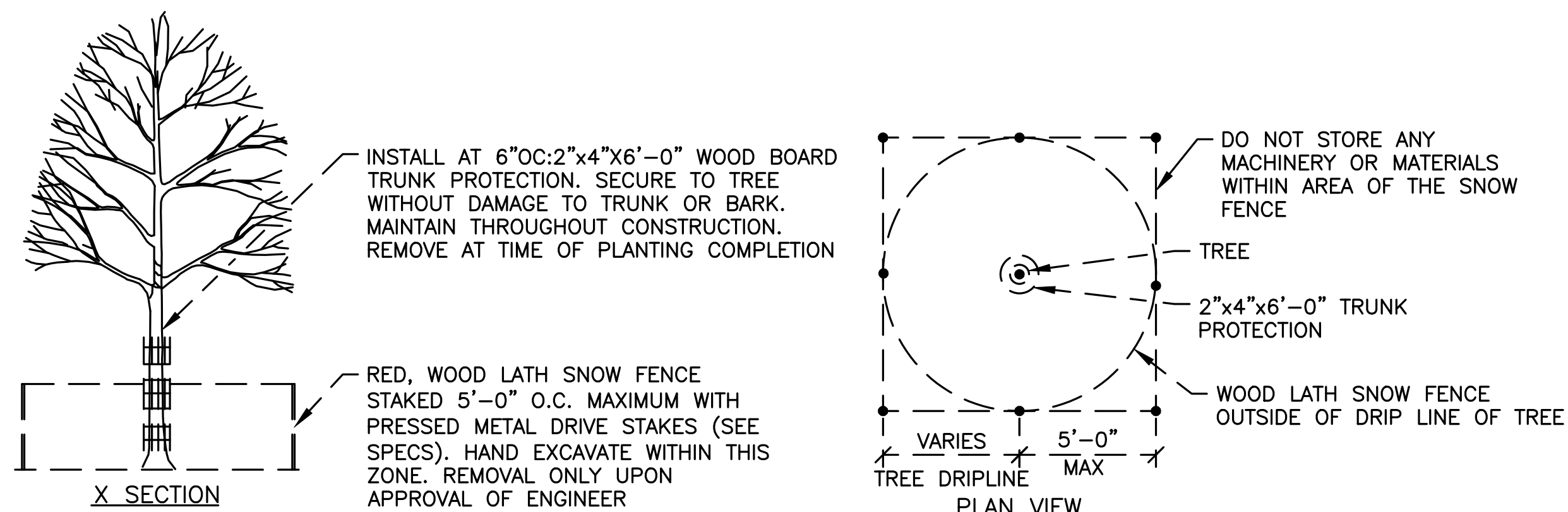


GRANITE CURB IN EXISTING PAVEMENT

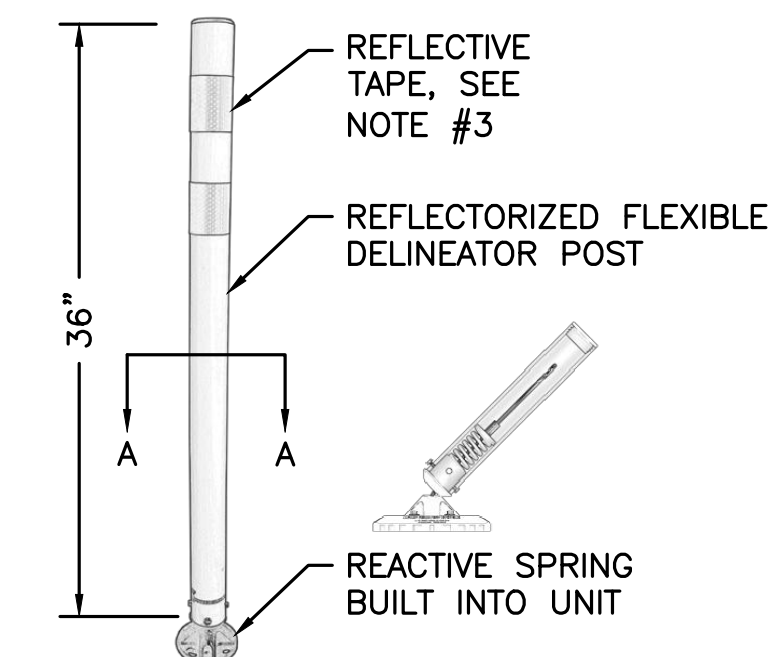
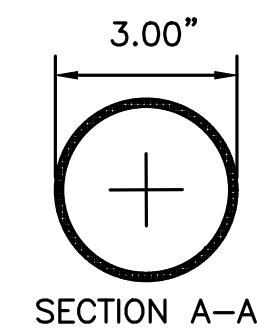
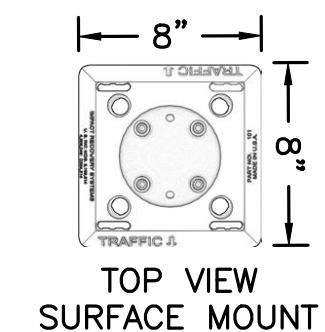


GRANITE CURB IN EXISTING PAVEMENT WITH OVERLAY

**CITY OF NEWTON DETAIL 17 -
 VERTICAL GRANITE CURB
 NOT TO SCALE**



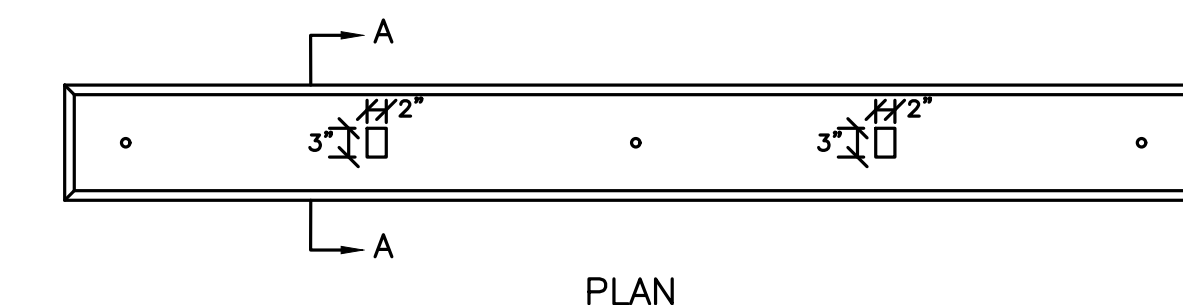
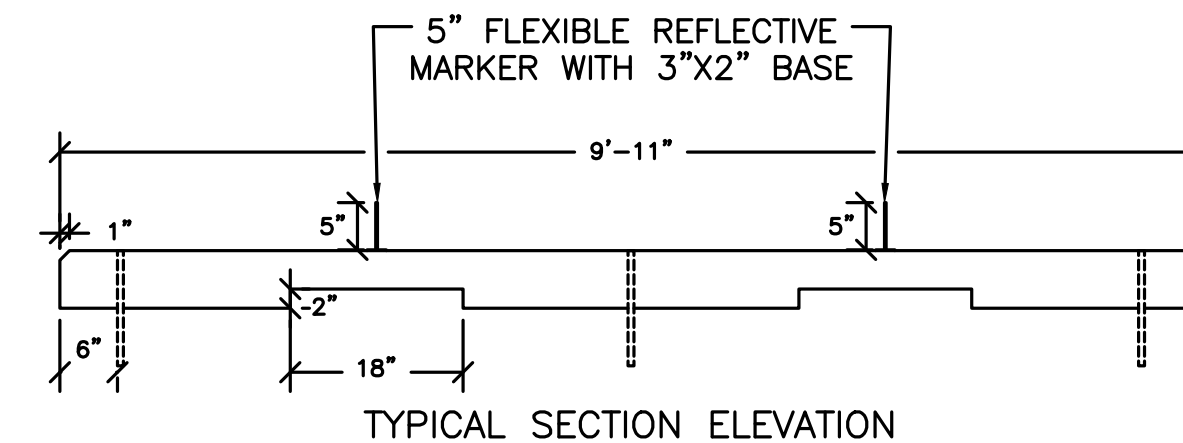
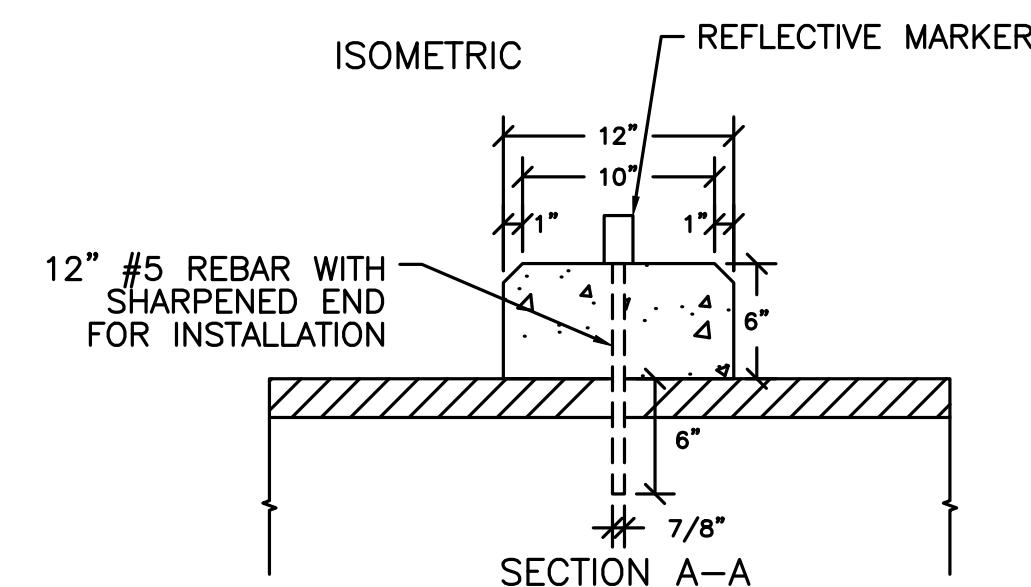
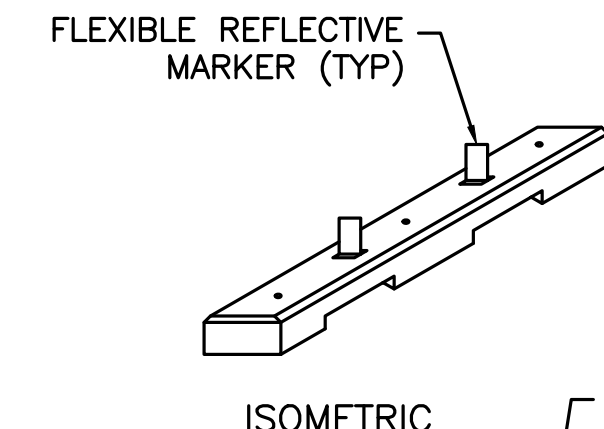
TREE PROTECTION
 NOT TO SCALE



FLEXPOST NOTES:

- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- DIMENSIONS, MATERIALS, AND ATTACHMENTS MAY VARY BETWEEN MANUFACTURERS.
- COLOR OF POST AND REFLECTIVE TAPE SHALL MATCH COLOR OF APPLICABLE EDGE LINE PER MUTCD STANDARDS.
- SEE SPECIFICATIONS FOR DETAILS OF SPRING LOADED REFLECTORIZED FLEXIBLE DELINEATOR POSTS AND SUGGESTED MANUFACTURERS.

**36\"/>
 NOT TO SCALE**



NOTES:

- CONCRETE TO BE 5000 PSI, SULFATE RESISTANT WITH FIBER REINFORCEMENT.
- UNITS TO BE SECURED USING #5 CORROSION RESISTANT REBAR HAND DRIVEN TO DEPTHS INDICATED.

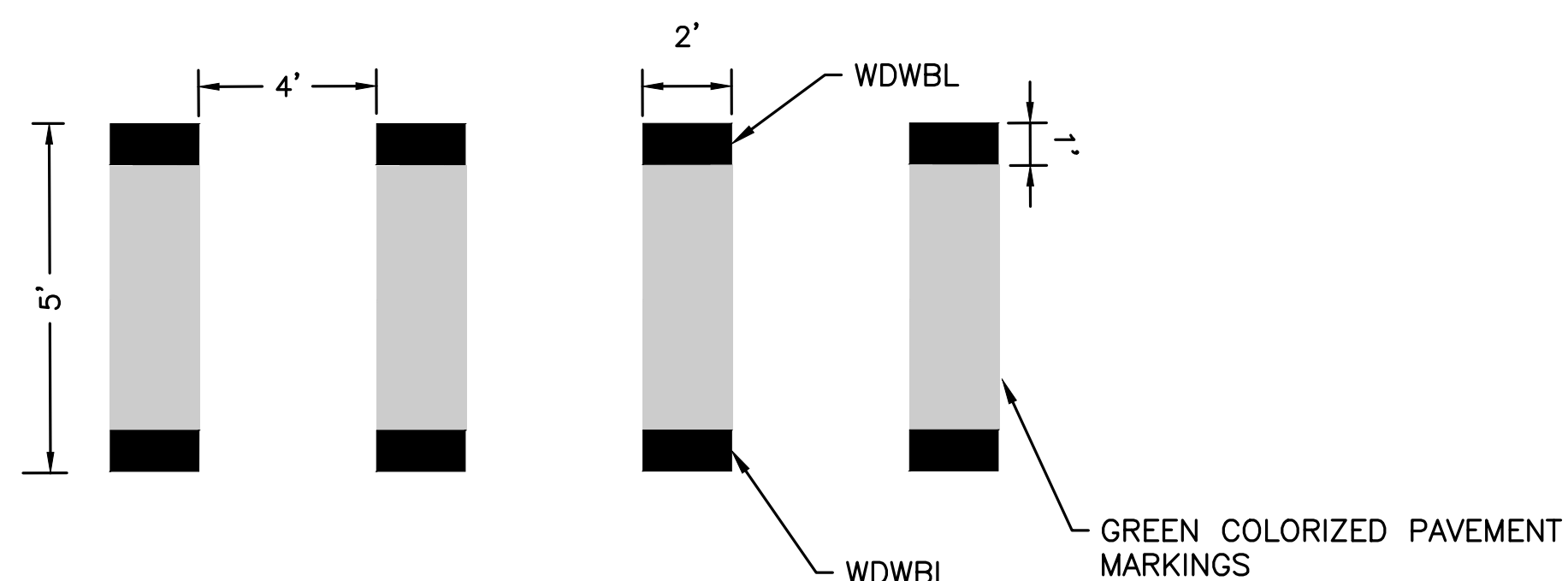
**PRECAST CONCRETE CURBING FOR BICYCLE LANES
 (NOT TO SCALE)**



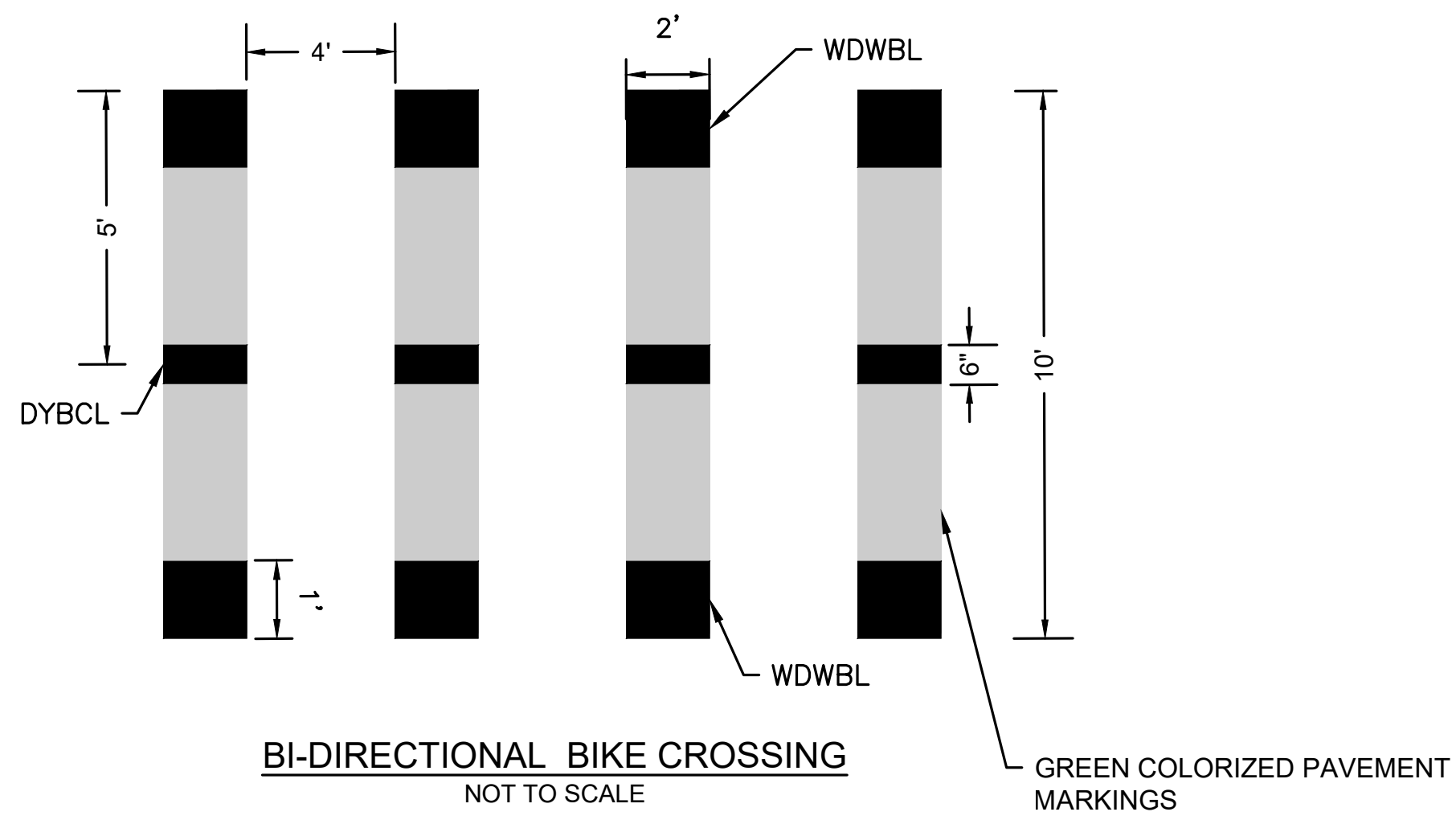
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**WASHINGTON STREET PILOT
 CONSTRUCTION DETAILS**

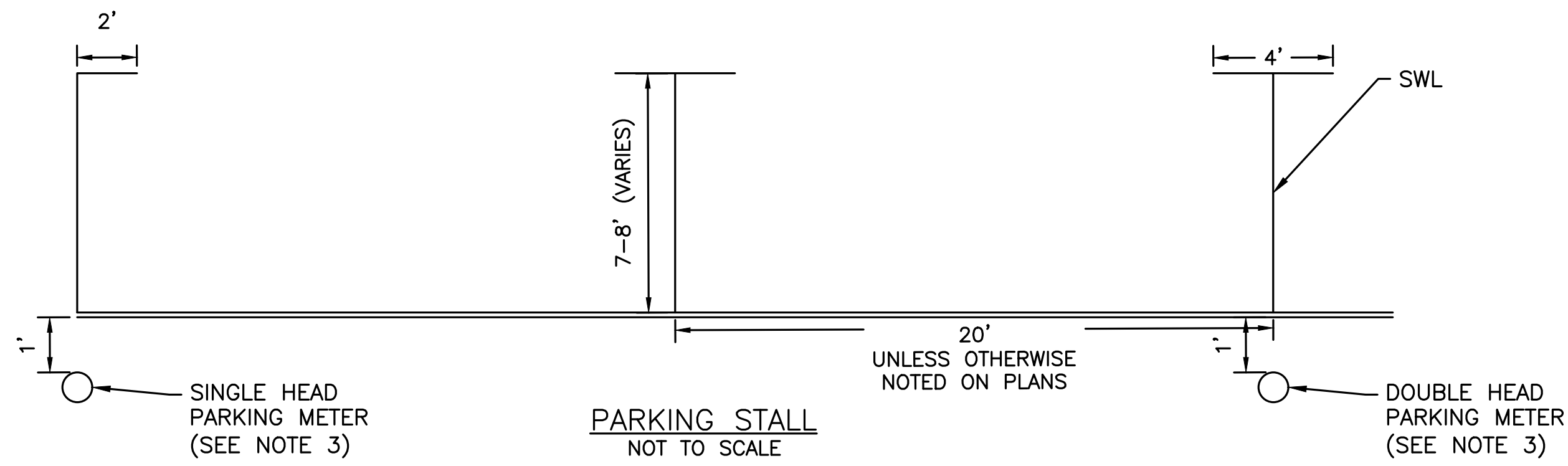
HS PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	36	43



BIKE CROSSING
NOT TO SCALE



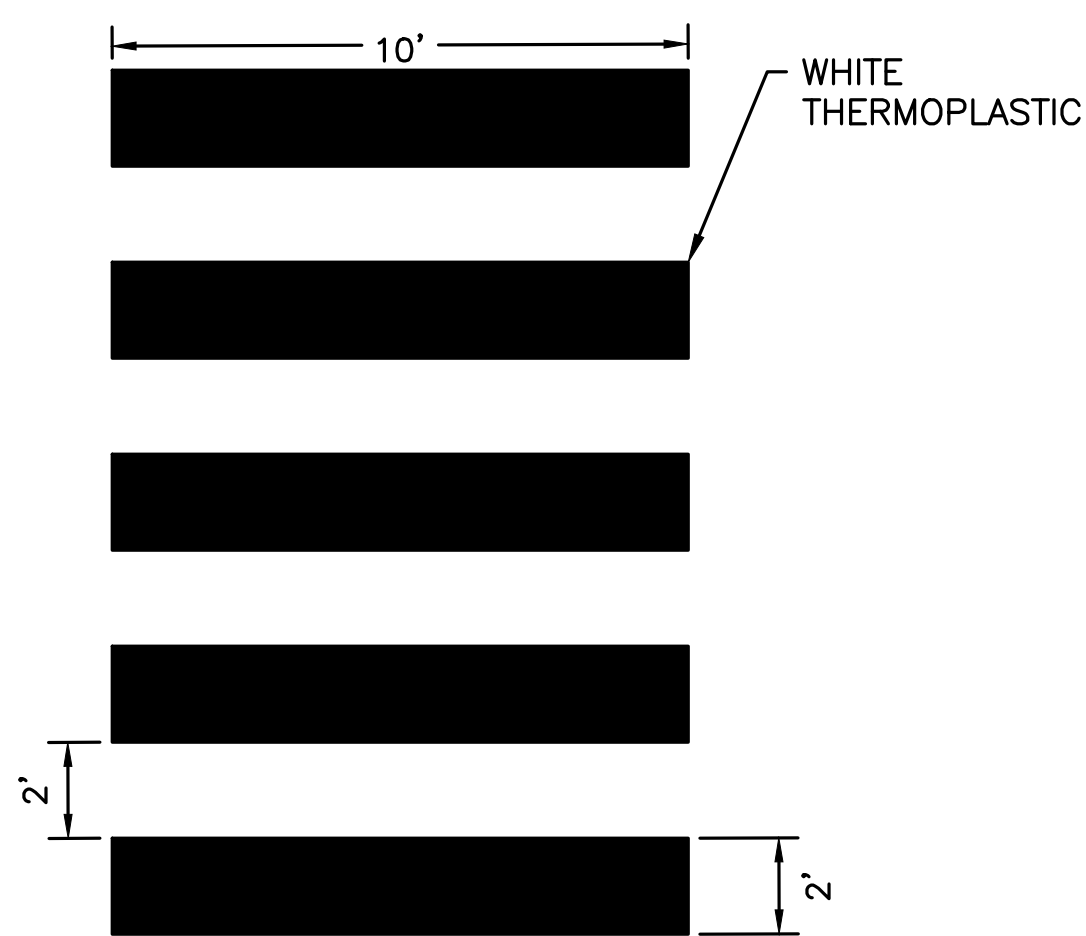
BI-DIRECTIONAL BIKE CROSSING
NOT TO SCALE



PARKING STALL
NOT TO SCALE

NOTES:

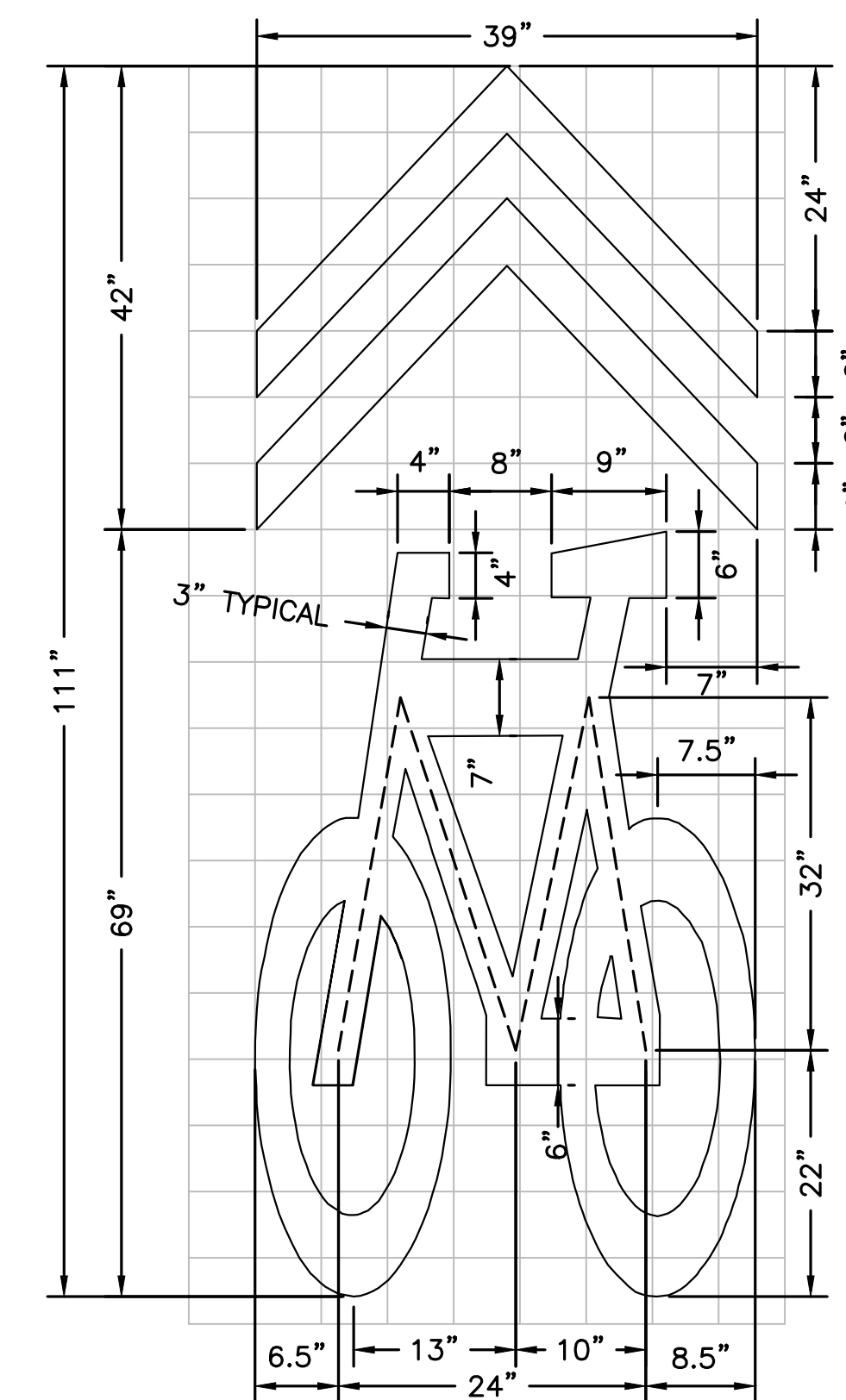
1. MINIMUM LENGTH OF PARKING STALLS SHALL BE 19 FEET, CONSULT DESIGN PLANS FOR PROPOSED PARKING STALL LENGTHS.
2. MINIMUM OFFSET FOR PARKING STALLS SHALL BE 5 FEET FROM DRIVEWAYS AND 20 FEET FROM INTERSECTING SIDE STREETS. CONSULT DESIGN PLANS FOR PROPOSED PARKING STALL OFFSETS.
3. PARKING METER POST LOCATION IS ONLY APPLICABLE FOR REMOVED AND RESET METERS AT METERED PARKING STALLS BETWEEN STATIONS 101+26 AND 108+23.



CROSSWALK MARKING



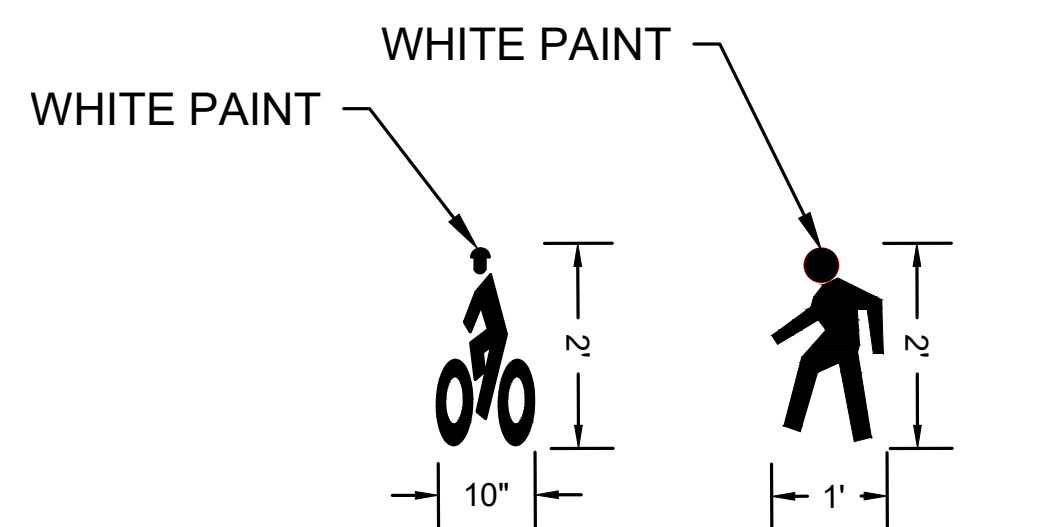
CROSSWALK MARKING IN BICYCLE LANE



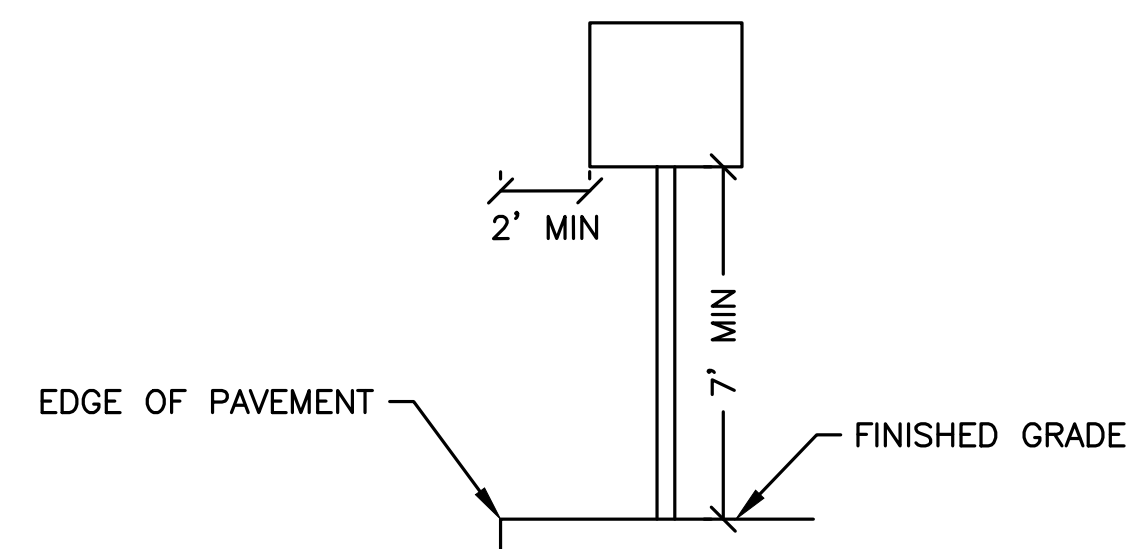
NOTES:

1. IN LOCATIONS WITH ON-STREET PARKING, SHARED LANE MARKING SYMBOLS SHALL BE PLACED SO THAT THE CENTER IS A MINIMUM OF 11 FEET FROM THE ADJACENT FACE OF CURB.
2. IN LOCATIONS WITHOUT ON-STREET PARKING, SHARE LANE MARKING SYMBOLS SHALL BE PLACED SO THAT THE CENTER IS 4 FEET FROM THE ADJACENT FACE OF CURB.
3. IF LOCATED IN A TURN LANE, SHARED LANE MARKING SYMBOLS SHALL BE CENTERED IN THE LANE.
4. DO NOT PLACE SYMBOLS ON LANE LINES.
5. SHARED LANE SYMBOLS SHALL BE PLACED A MAXIMUM OF 500 FEET APART.

SHARED LANE SYMBOL DETAIL
NOT TO SCALE



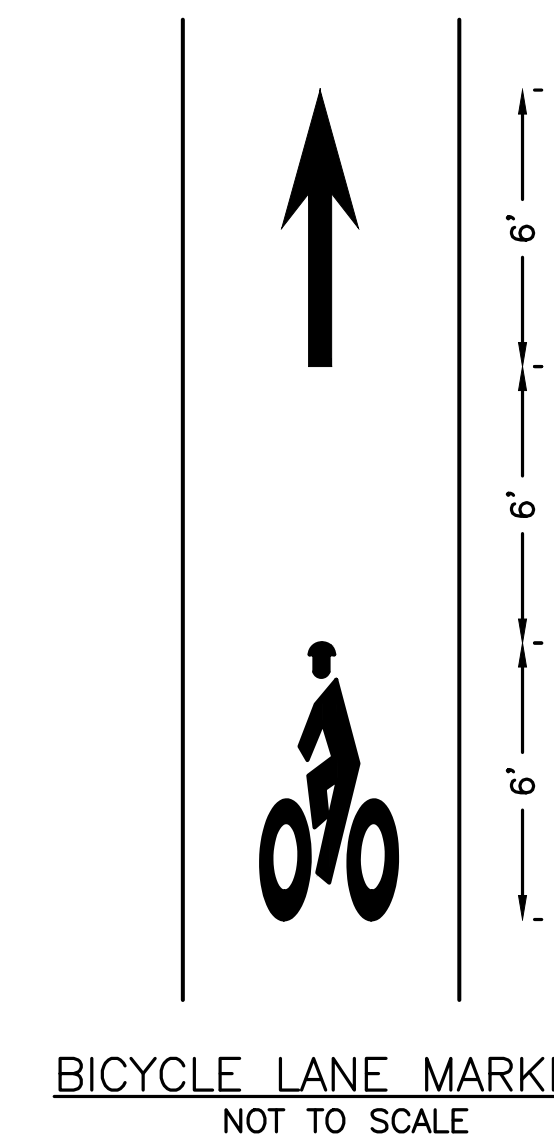
SHARED USE PATH LEGENDS
NOT TO SCALE



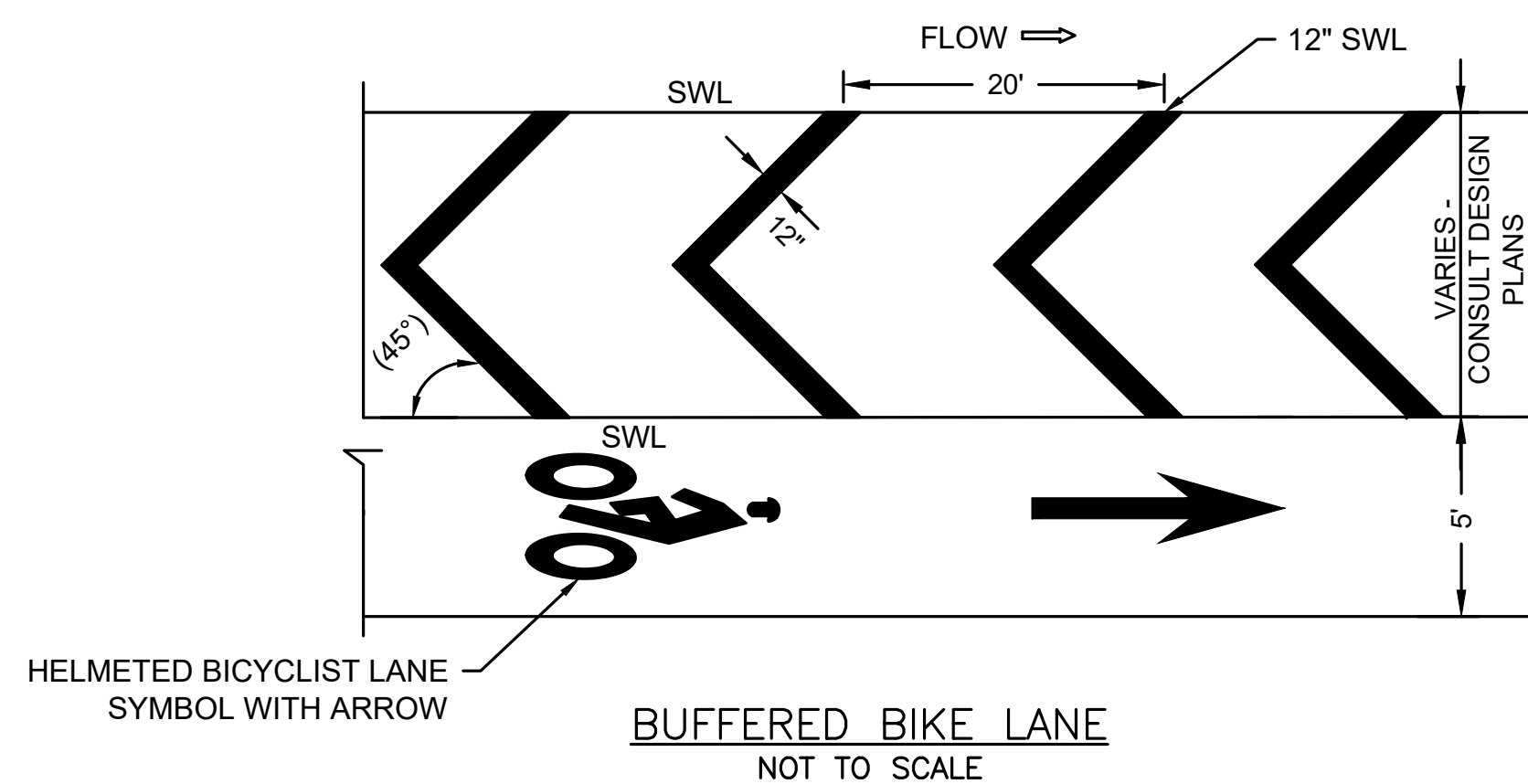
NOTES:

1. SIGN AND POST INSTALLATION SHALL NOT OBSTRUCT PEDESTRIAN CLEAR PATH, MAINTAINING A MINIMUM OF 36" OF CLEAR SPACE PER ADA STANDARDS FOR ACCESSIBLE DESIGN.

SIGN AND POST INSTALLATION
NOT TO SCALE



BICYCLE LANE MARKING
NOT TO SCALE



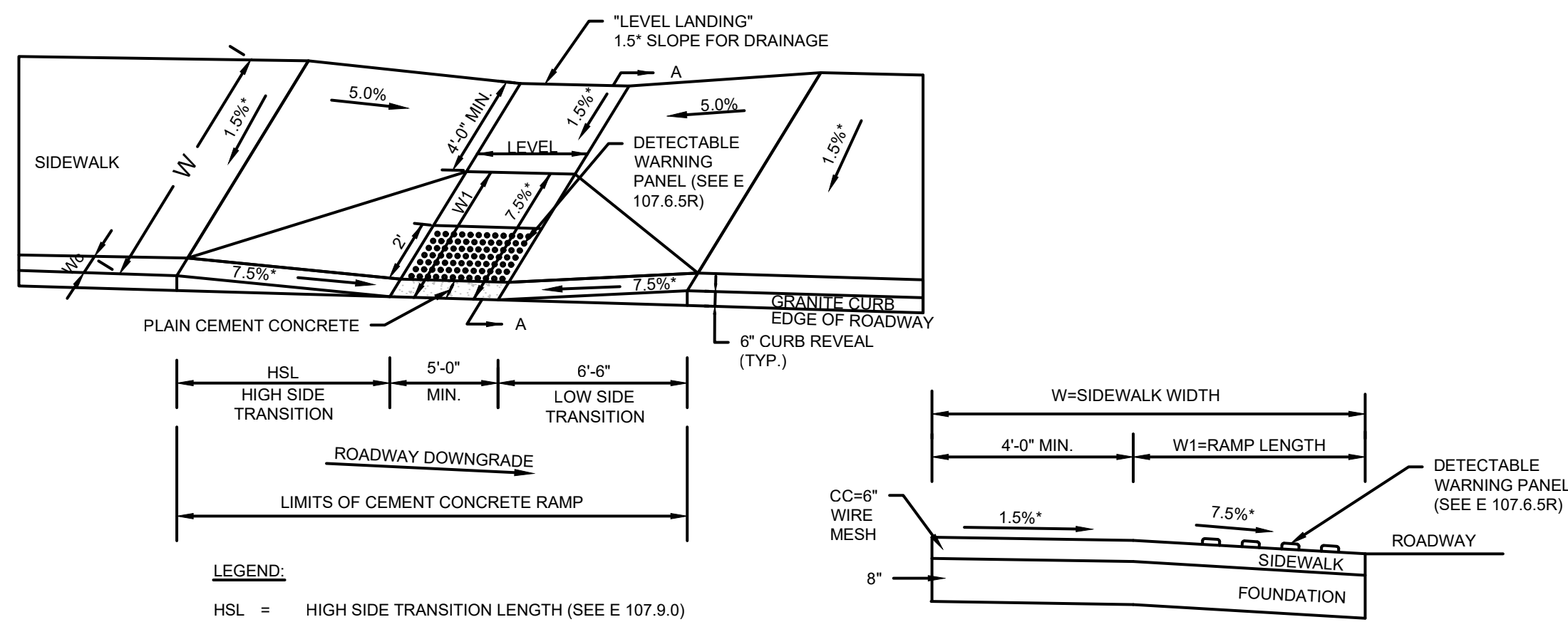
BUFFERED BIKE LANE
NOT TO SCALE



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**WASHINGTON STREET PILOT
CONSTRUCTION DETAILS**

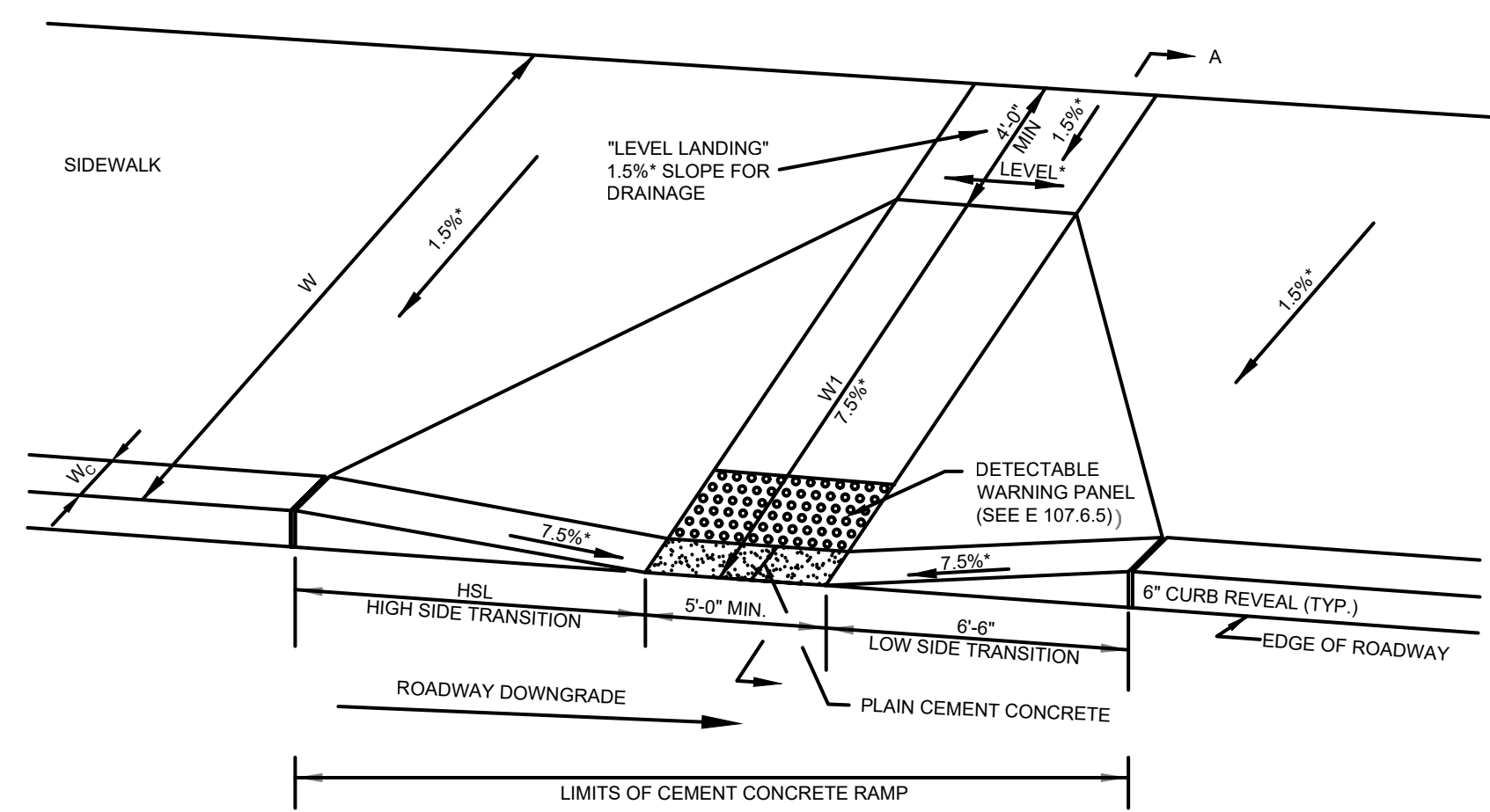
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	37	43



LEGEND:
 HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
 W = SIDEWALK WIDTH
 Wc = CURB WIDTH
 W1 = PERPENDICULAR RAMP LENGTH
 CC = CEMENT CONCRETE
 * = MAX SLOPE SHOWN. CONSTRUCTION TOLERANCE = ±0.5%

USABLE SIDEWALK WIDTH PER AAB = W-Wc
 RAMP LENGTH = W1 - 4'-0" MIN

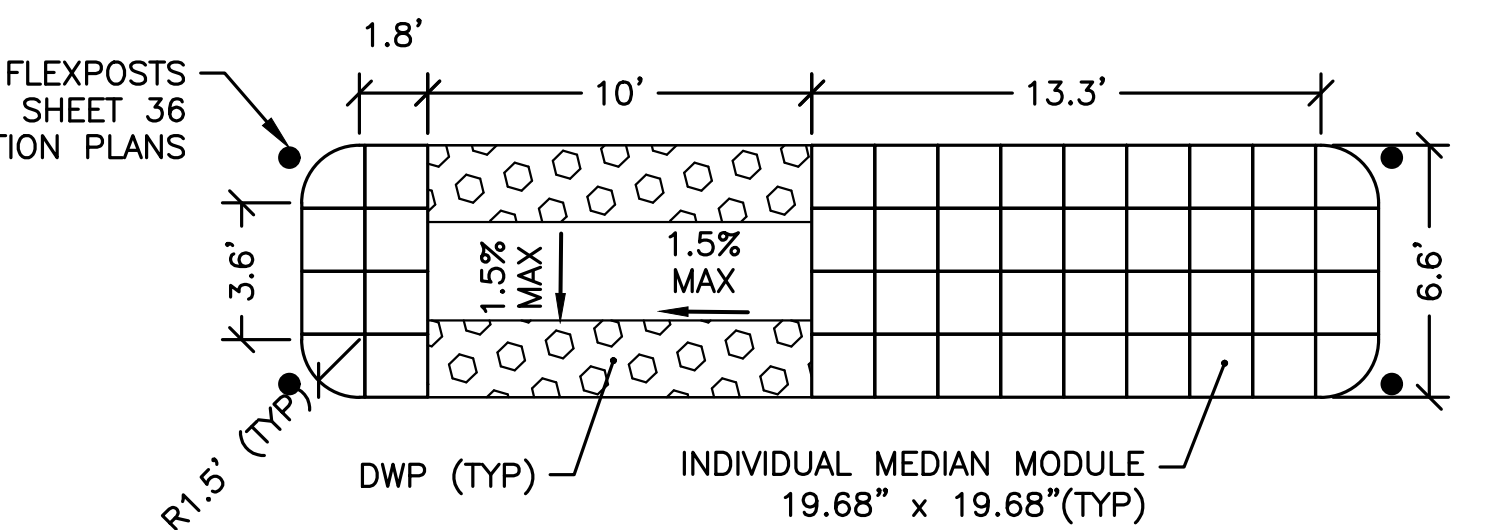
PEDESTRIAN CURB RAMP LESS THAN 12'-4" SIDEWALK (E 107.2.0)
 NOT TO SCALE



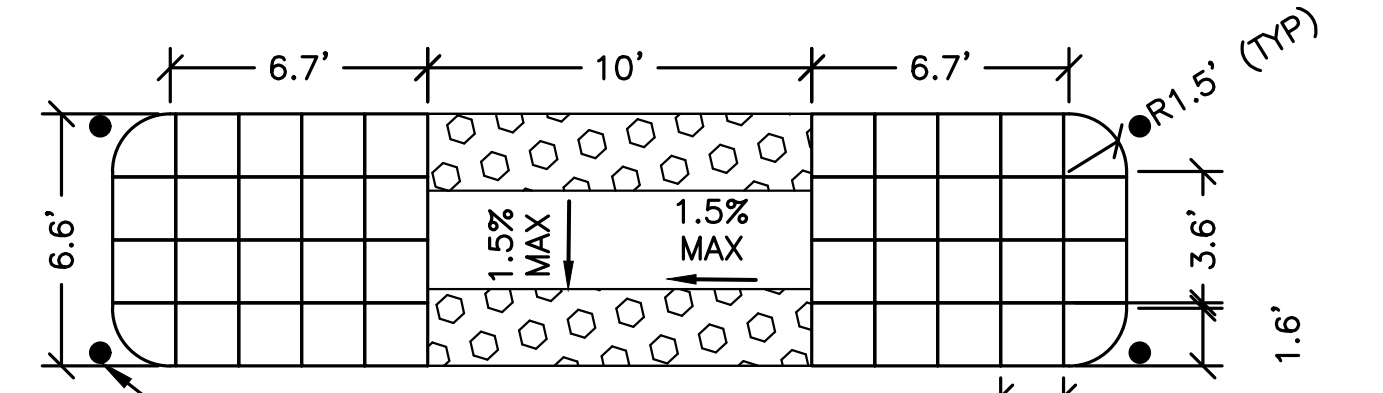
LEGEND:
 HSL = HIGH SIDE TRANSITION LENGTH (SEE E 107.9.0)
 W = SIDEWALK WIDTH
 Wc = CURB WIDTH
 W1 = PERPENDICULAR RAMP LENGTH
 CC = CEMENT CONCRETE
 * = MAX SLOPE SHOWN. CONSTRUCTION TOLERANCE = ±0.5%

USABLE SIDEWALK WIDTH PER AAB = W-Wc
 RAMP LENGTH, W1 = W - 4'-0" MIN

PEDESTRIAN CURB RAMP GREATER THAN 12'-4" SIDEWALK (E 107.3.0)
 NOT TO SCALE

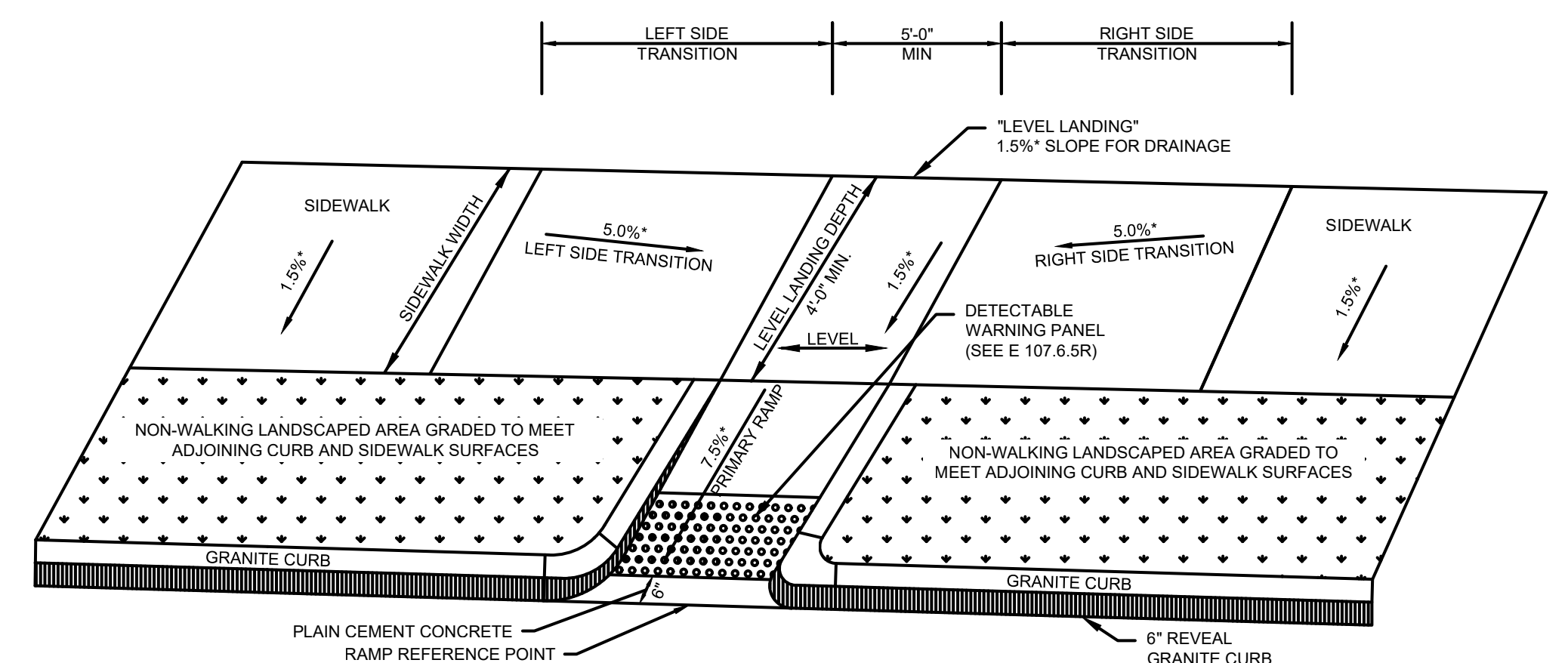


TYPE A



TYPE B

MODULAR MEDIAN
 NOT TO SCALE

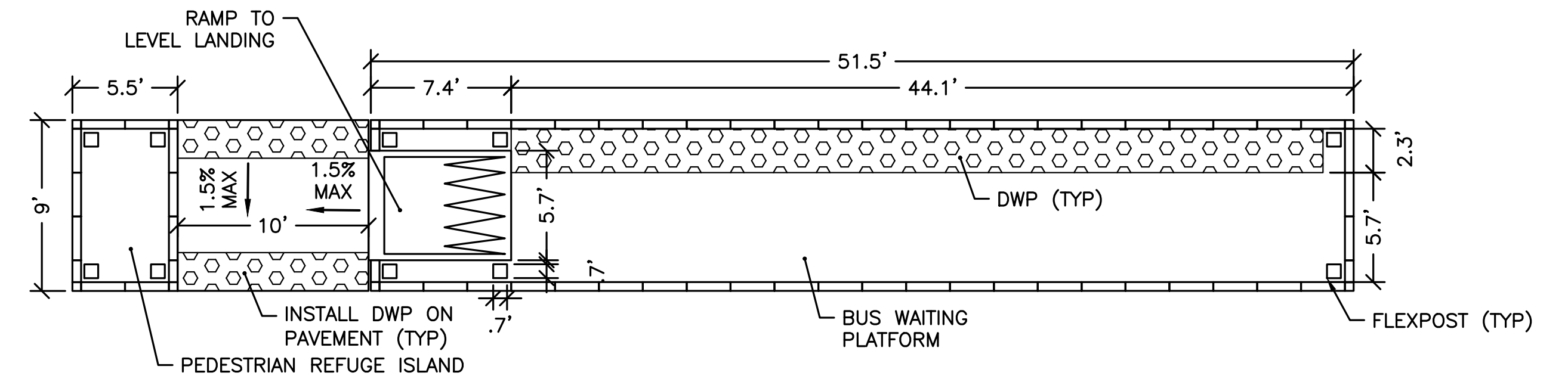


LEGEND:
 * = TOLERANCE FOR CONSTRUCTION ± 0.5%

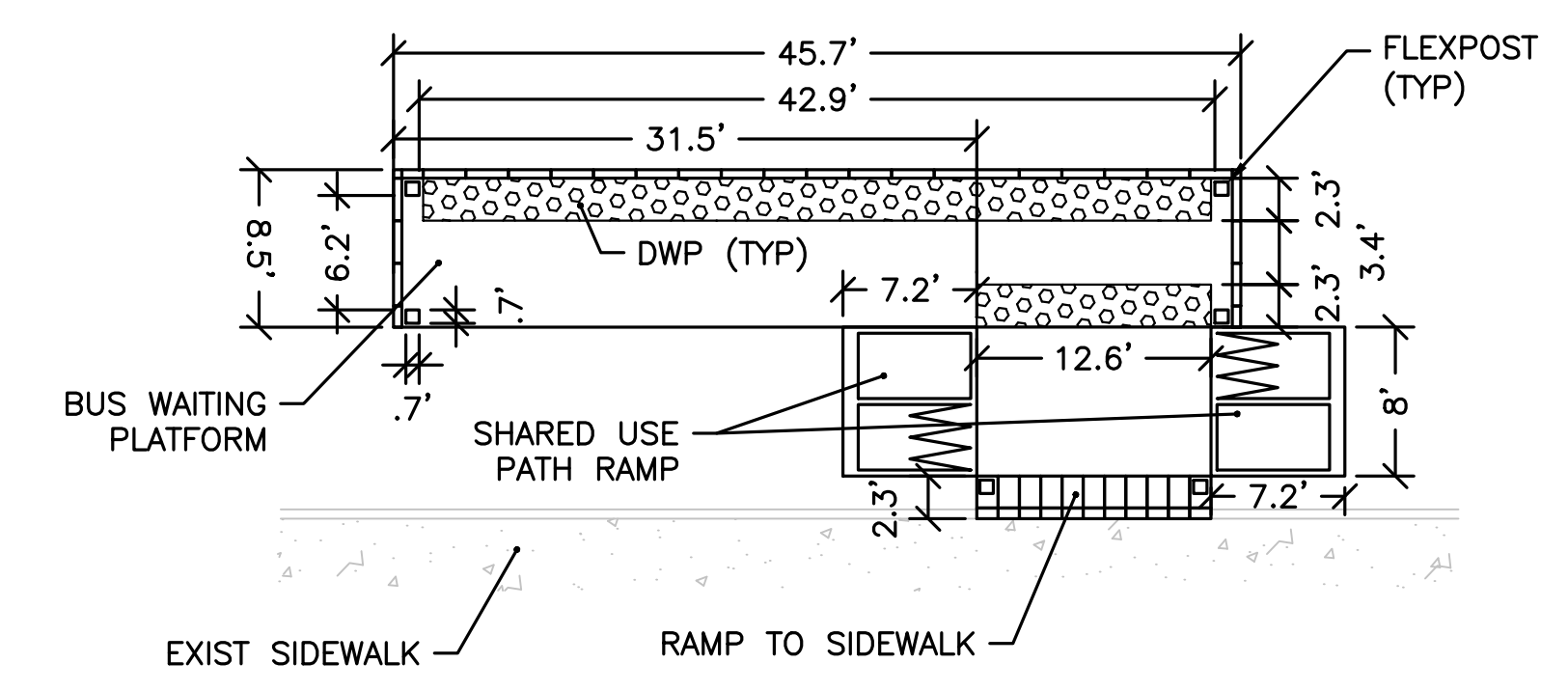
PEDESTRIAN CURB RAMP WITH LANDSCAPE STRIP
 NOT TO SCALE

NOTES:
 DETECTABLE WARNING PANEL LOCATED NOT LESS THAN 6" OR MORE THAN 24" FROM ROADWAY EDGE (GUTTER LINE). TRUNCATED DOMES TO BE ALIGNED WITH DIRECTION OF TRAVEL.

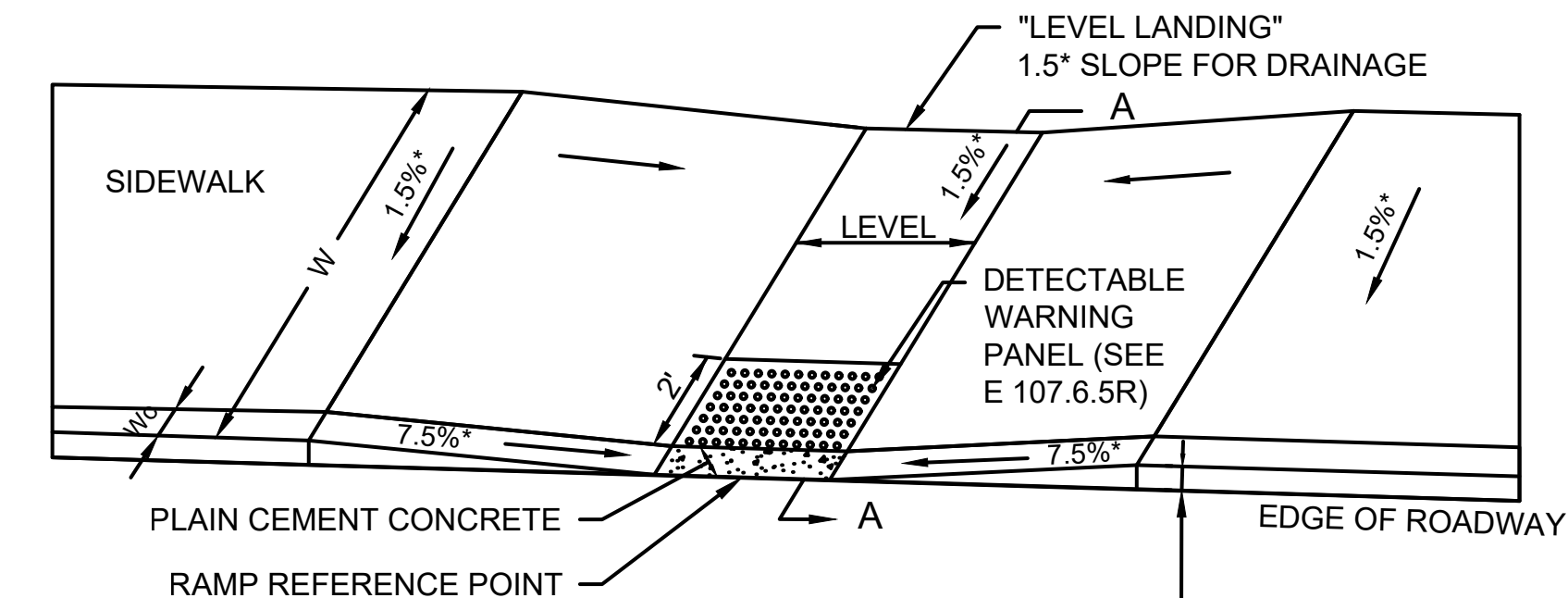
FOR DETAILS OF TRUNCATED DOMES SEE DRAWING E 107.6.5.
 ROADWAY, GUTTER, AND FIRST 6" OF SIDEWALK TO BE ADJUSTED FOR FIELD CONDITIONS.



MODULAR ISLAND BUS PLATFORM
 NOT TO SCALE



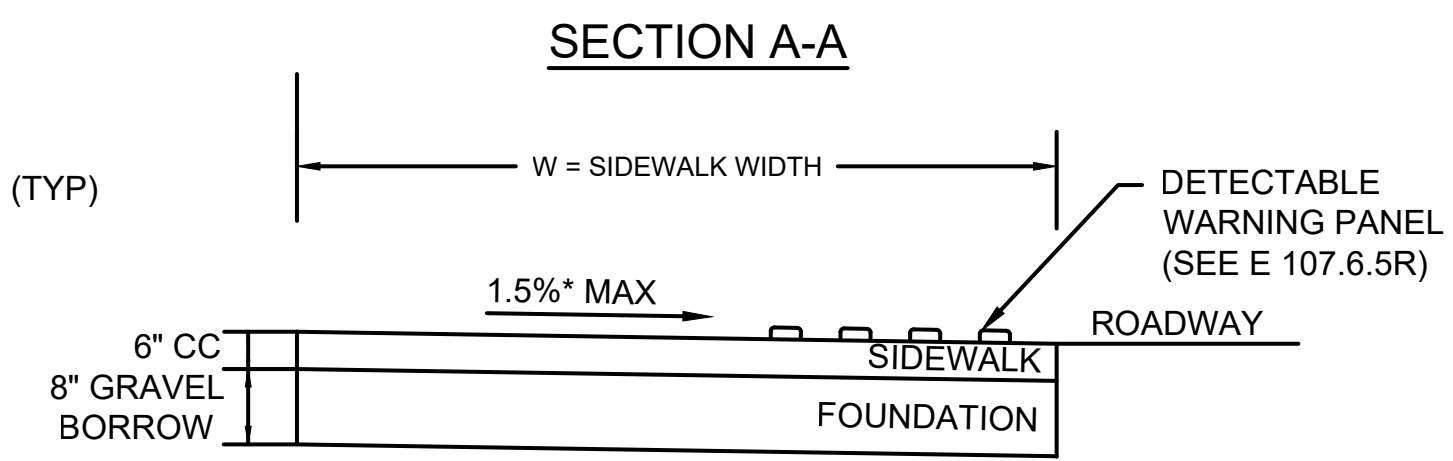
MODULAR ISLAND BUS PLATFORM WITH ACCESS BRIDGE
 NOT TO SCALE



LEGEND:
 HSL = HIGH SIDE TRANSITION (SEE E 107.9.0R)
 W = SIDEWALK WIDTH
 Wc = CURB WIDTH
 CC = CEMENT CONCRETE
 * = TOLERANCE FOR CONSTRUCTION ±0.5%

USEABLE SIDEWALK WIDTH PER AAB = W-Wc

PEDESTRIAN CURB RAMP ON NARROW STRAIGHT SIDEWALK WITH DETECTABLE WARNING PANEL
 NOT TO SCALE

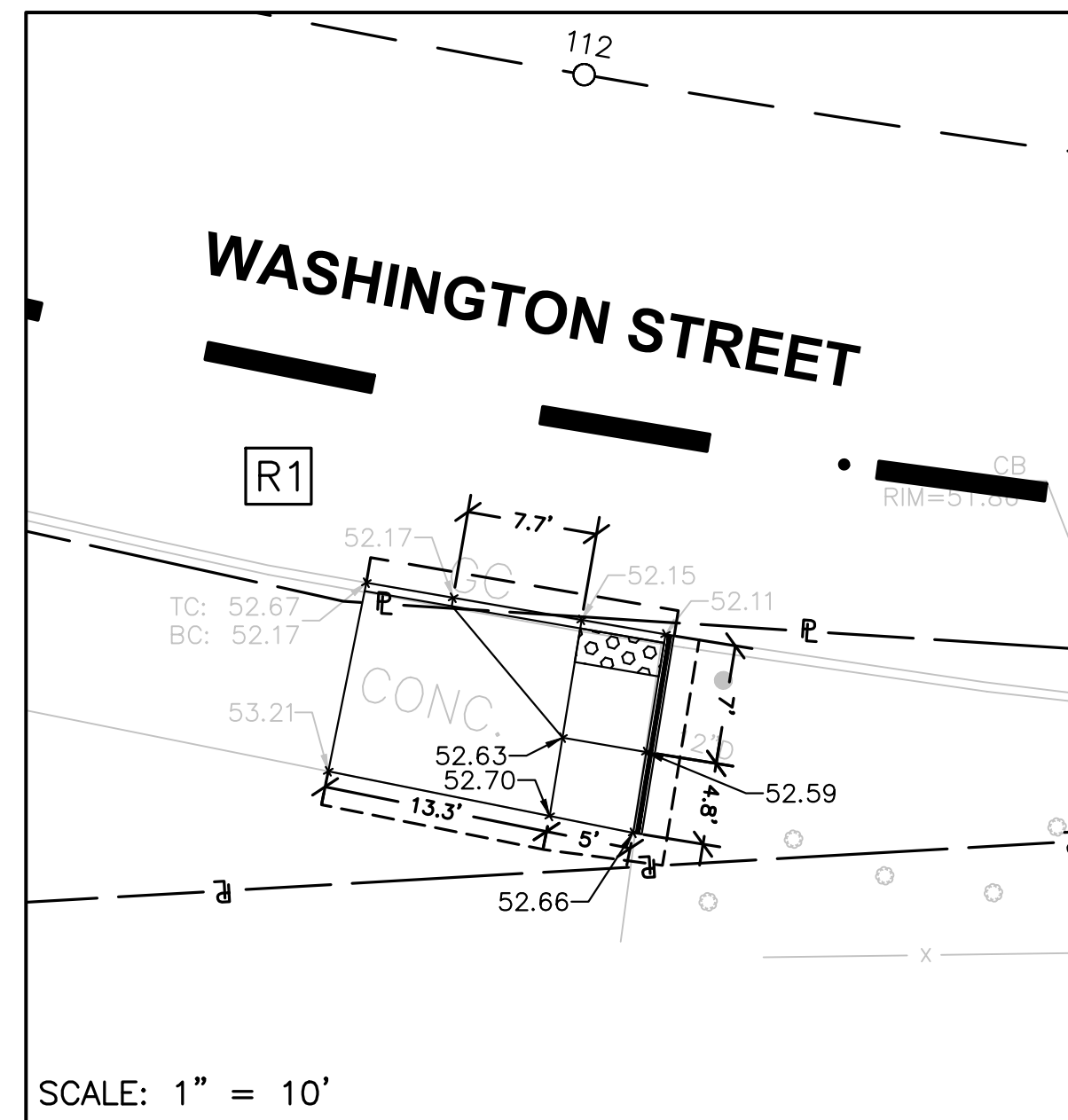


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WASHINGTON STREET PILOT CONSTRUCTION DETAILS

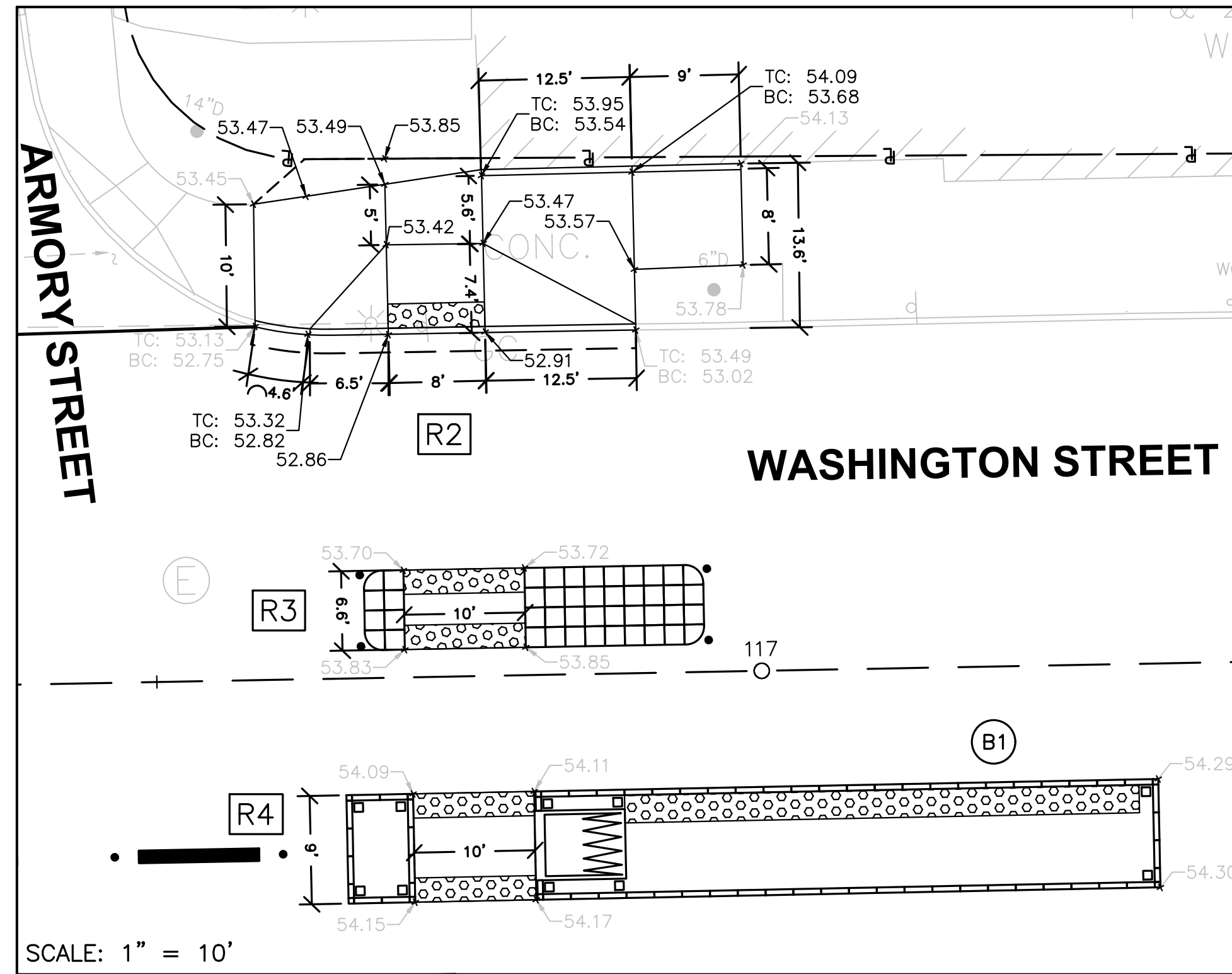
SH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	38	43

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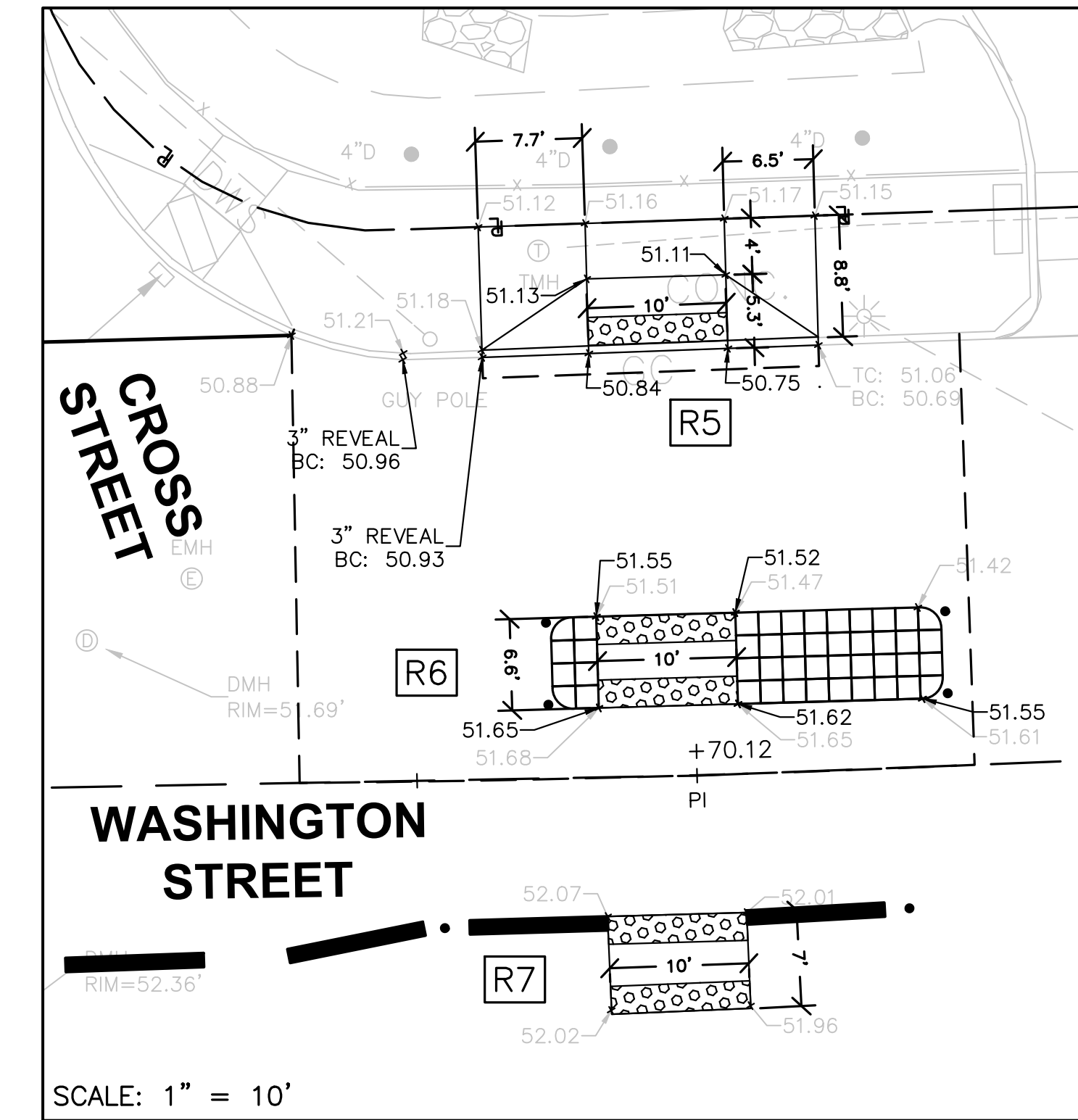
SCALE: 1" = 10'

RAMP R1



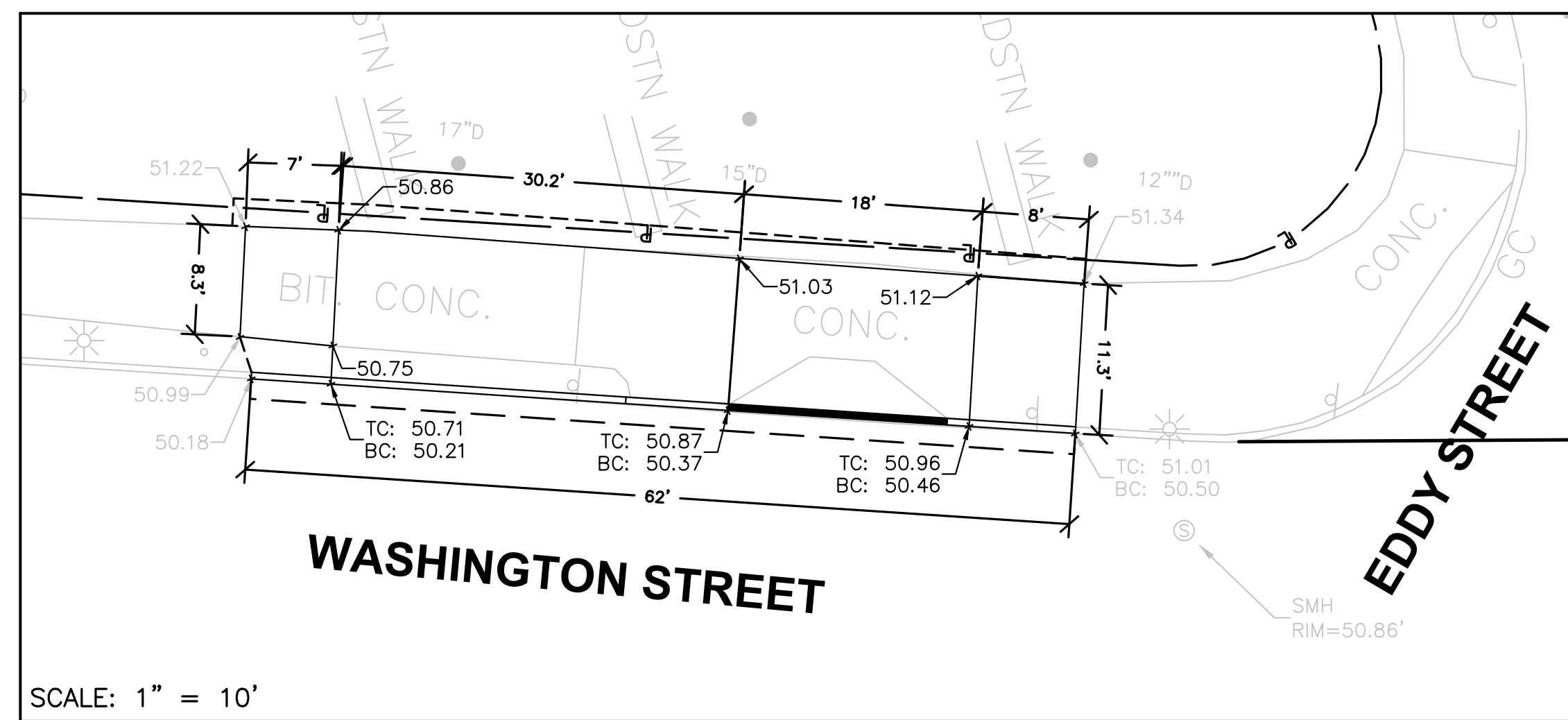
SCALE: 1" = 10'

RAMPS R2, R3, R4, & BUS PLATFORM B1



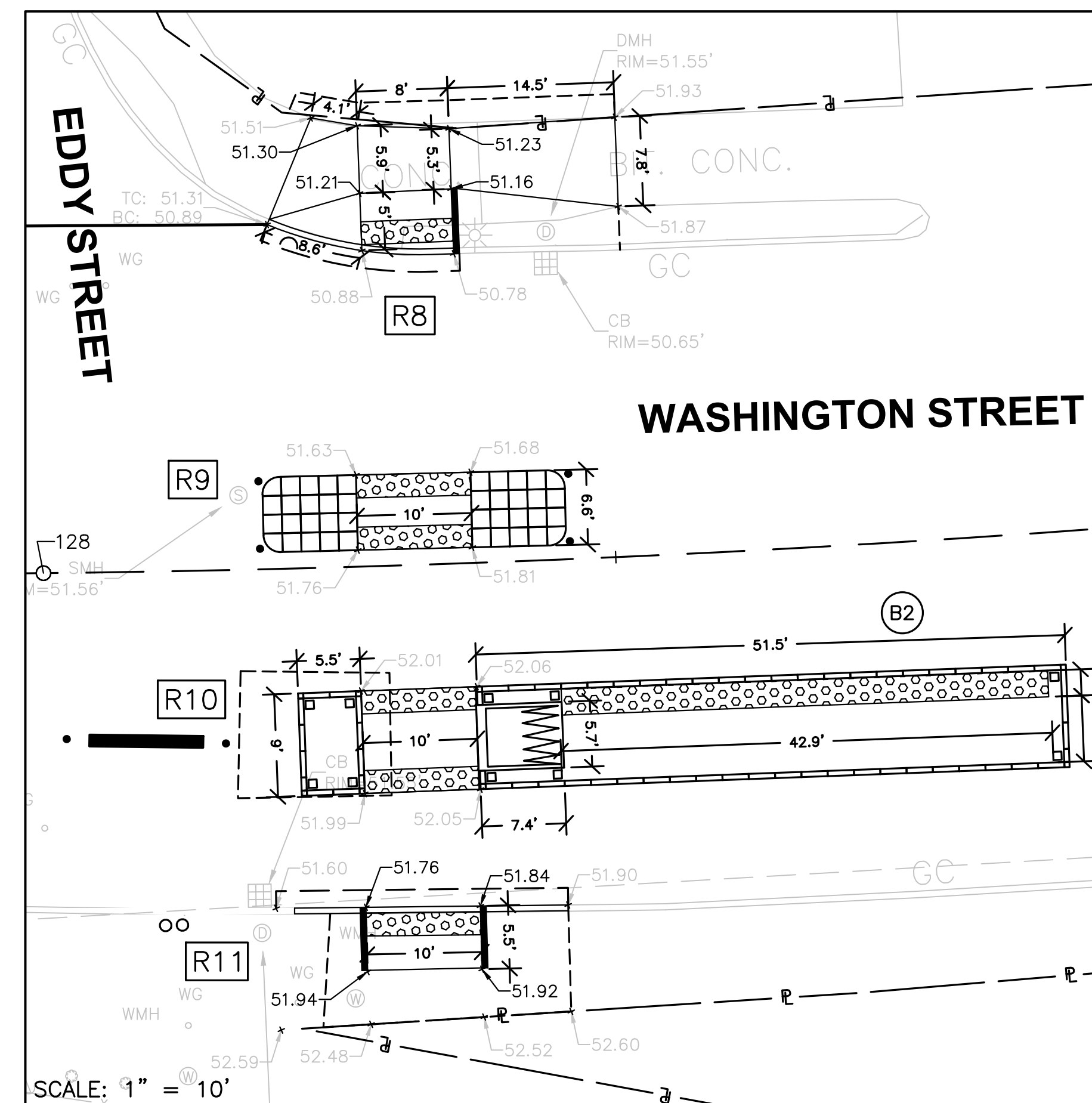
SCALE: 1" = 10'

RAMPS R5, R6, & R7



SCALE: 1" = 10'

SIDEWALK AT WASHINGTON ST & EDDY ST

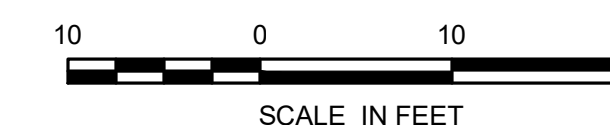


SCALE: 1" = 10'

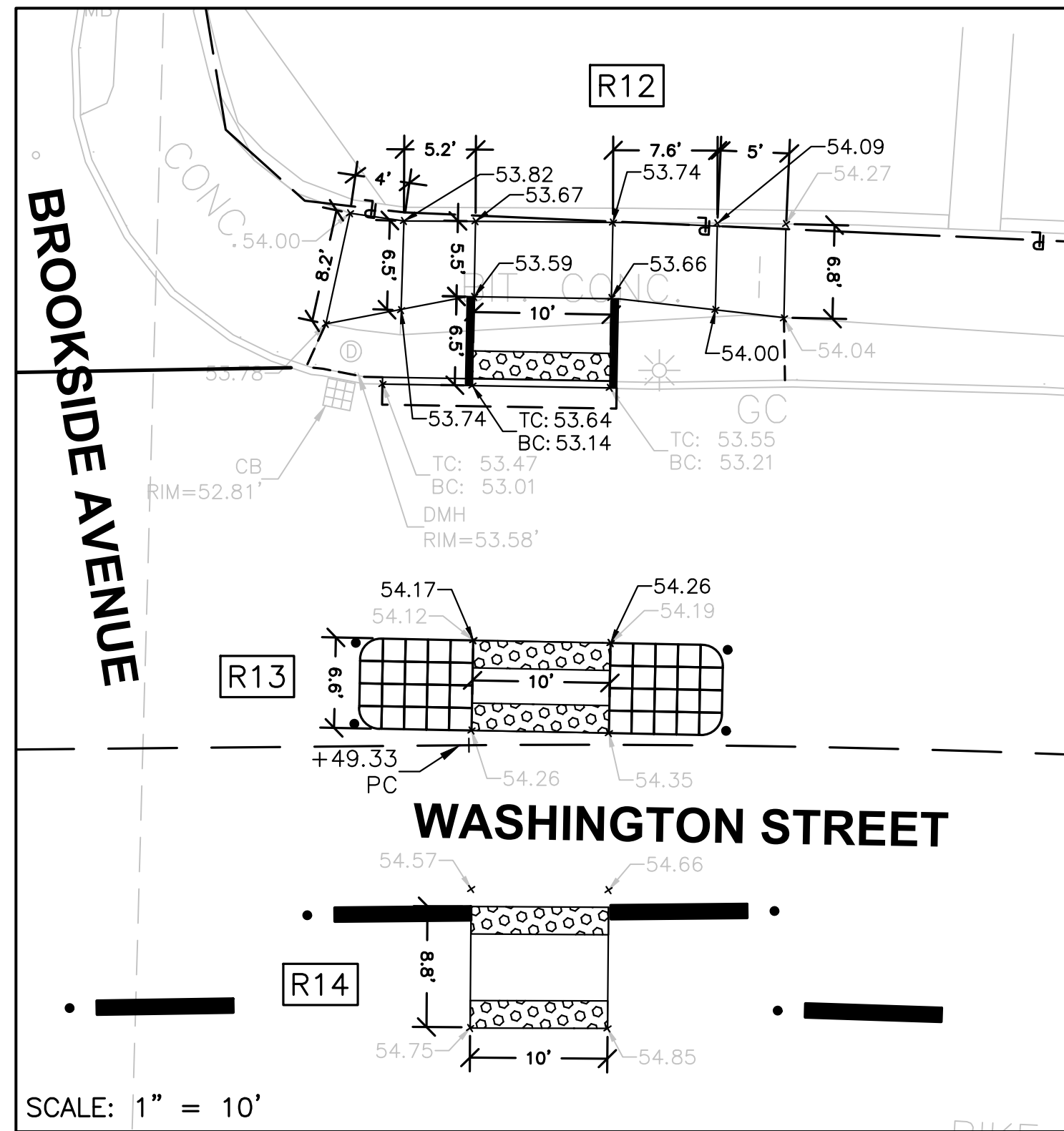
RAMPS R8, R9, R10, R11, & BUS PLATFORM B2



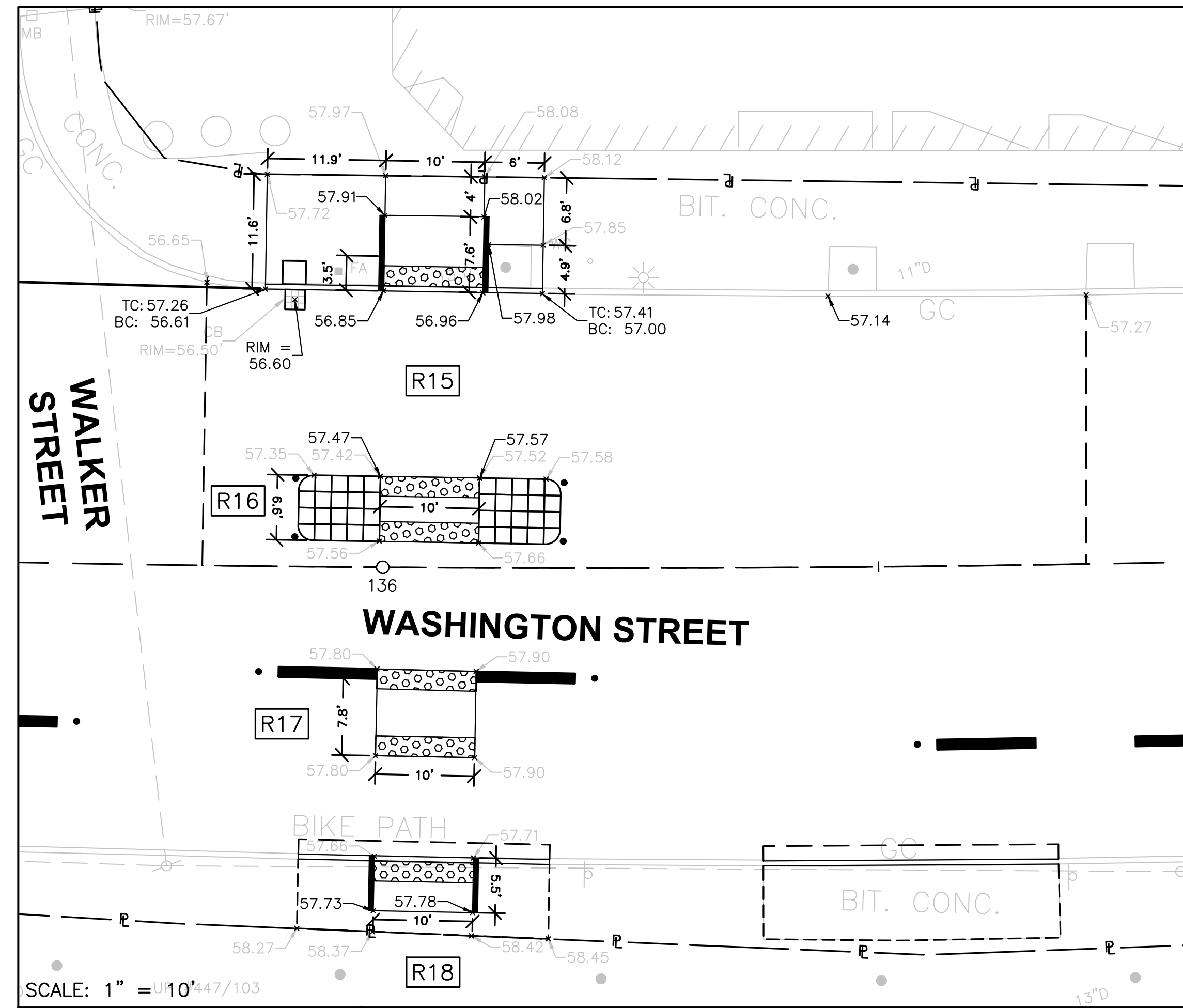
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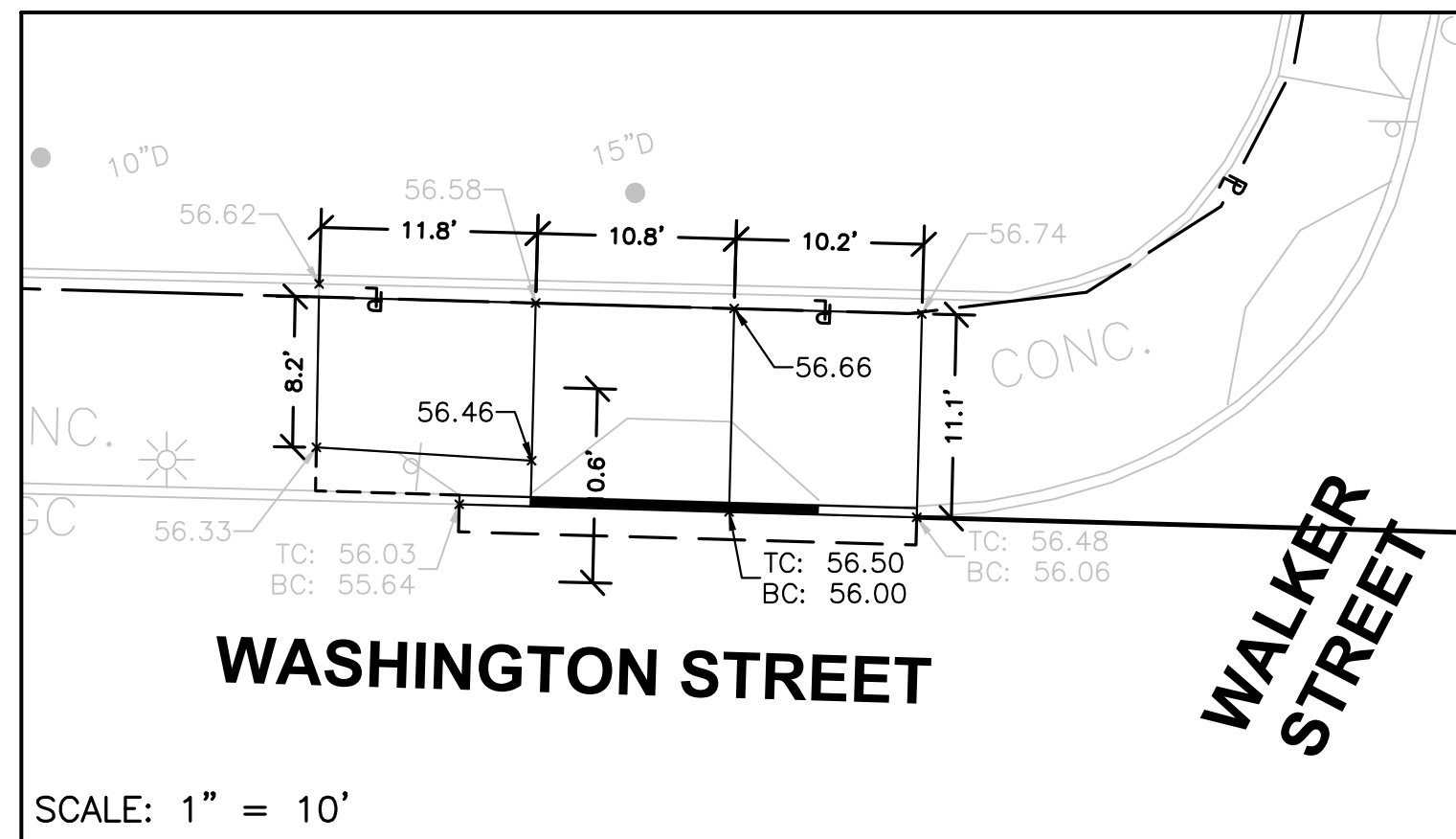
WASHINGTON STREET PILOT CURB RAMP & SIDEWALK DETAILS SHEET 1 OF 2						
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
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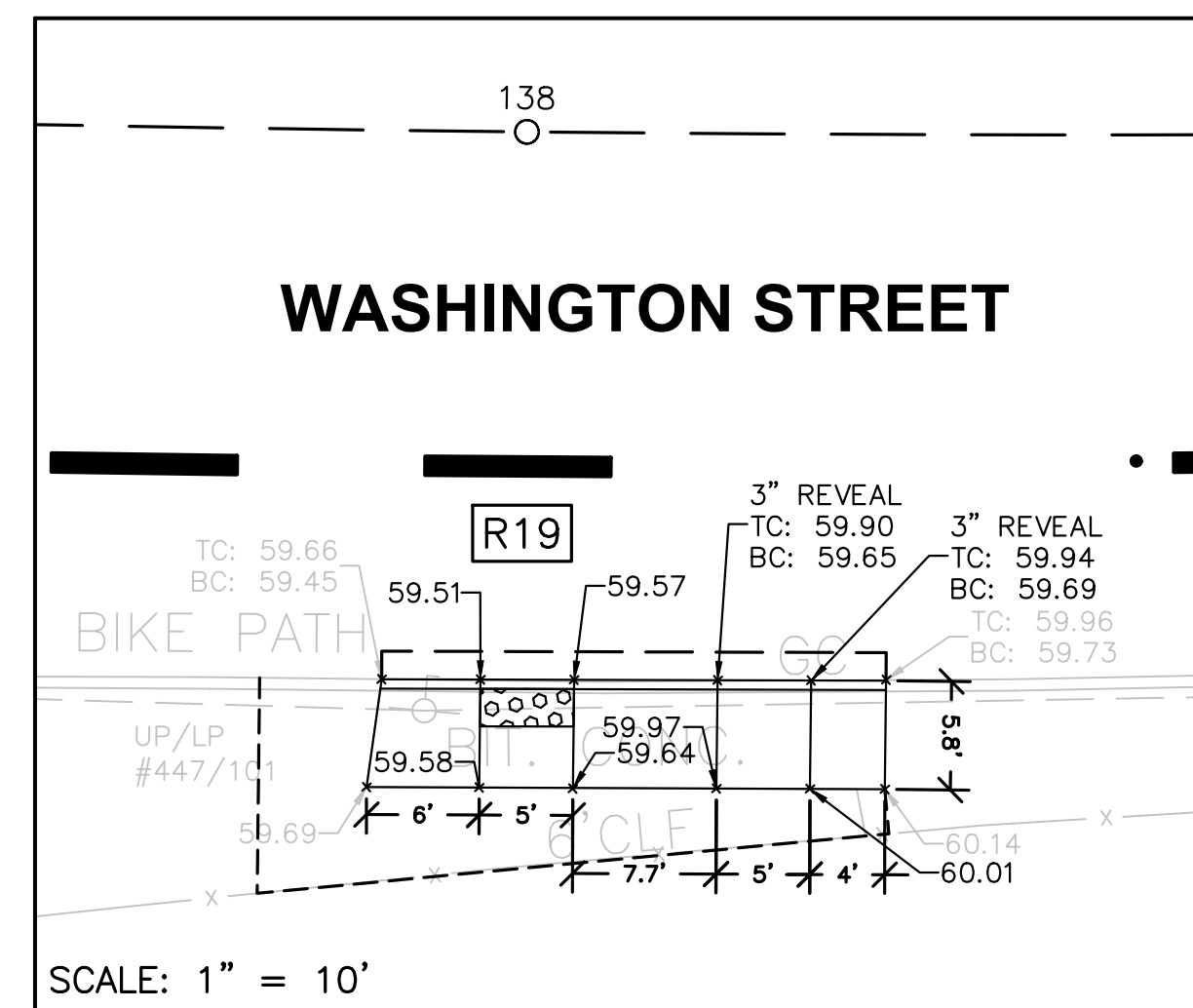
RAMPS R12, R13, & R14



RAMPS R15, R16, R17 & R18



SIDEWALK AT WASHINGTON ST & WALKER ST



RAMP R19



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WASHINGTON STREET PILOT CURB RAMP & SIDEWALK DETAILS SHEET 2 OF 2						
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	RF	VC	RL	40	43

NOTES:

- ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS INCLUDING MASSDOT REVISIONS, UNLESS SUPERCEDED BY THESE PLANS.
- ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH MUTCD AND MASSDOT REVISIONS.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
- THE FIRST TEN REFLECTORIZED PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH SEQUENTIAL FLASHING LIGHTS.
- THE ADVISORY SPEED LIMIT, IF REQUIRED, SHALL BE DETERMINED BY THE ENGINEER.
- DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
- MINIMUM LANE WIDTH IS TO BE 11 FEET UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
- CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKINGS AND SIGNAGE THAT CONFLICT WITH PROPOSED WORK. CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNAL EQUIPMENT.
- AN EXCAVATION GREATER THAN OR EQUAL TO 4" IN DEPTH MUST BE BACKFILLED WITH A 4:1 SLOPE DURING NON-WORKING HOURS.
- POLICE OFFICER DETAIL SHALL BE PROVIDED WHEN NECESSARY. POLICE DETAILS AND POST LOCATION WILL BE DETERMINED BY THE OFFICER.
- THE CONTRACTOR SHALL COORDINATE WITH THE MBTA TO DETERMINE BUS OPERATIONS DURING CONSTRUCTION.
- TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL NOT COVERED IN THE PLAN SET SHALL REFER TO MASSDOT "STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TRAFFIC MANAGEMENT PLANS".
- CONTRACTOR SHALL REMOVE ANY EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH PROPOSED TEMPORARY MARKINGS AND SHALL BAG OR REMOVE SIGNAGE THAT CONFLICTS WITH CONSTRUCTION PERIOD TRAFFIC PATTERNS.

SUGGESTED ADVANCE WARNING SIGN MINIMUM SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS		
	A	B	C
URBAN (30MPH OR LESS)	100 FEET	100 FEET	100 FEET
URBAN (35MPH OR GREATER)	350 FEET	350 FEET	350 FEET
RURAL	500 FEET	500 FEET	500 FEET
EXPRESSWAY/FREEWAY	1,000 FEET	1,500 FEET	2,640 FEET

BASED ON: TABLE 6C-1 MUTCD LATEST EDITION

TAPER LENGTH CRITERIA FOR TEMPORARY TRAFFIC CONTROL ZONES

TYPE OF TAPER	TAPER LENGTH
MERCING TAPER	AT LEAST L
SHIFTING TAPER	AT LEAST 0.5L
SHOULDER TAPER	AT LEAST 0.33L
ONE-LANE, TWO-WAY TRAFFIC TAPER	50 FEET MINIMUM, 100 FEET MAXIMUM
DOWNSTREAM TAPER	50 FEET MINIMUM, 100 FEET MAXIMUM

NOTE: USE TABLE 6C-4 SHOWN BELOW TO CALCULATE L
SOURCE: TABLE 6C-3 2009 MUTCD

WHERE: L = TAPER LENGTH IN FEET

W = WIDTH OF OFFSET IN FEET

S = POSTED SPEED LIMIT, OR OFF-PEAK 85TH-PERCENTILE SPEED PRIOR TO WORK STARTING, OR THE ANTICIPATED OPERATING SPEED IN MPH

BUFFER SPACE TABLE

POSTED SPEED (MPH)	LENGTH (FT)
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730
75	820

SOURCE: TABLE 6C-2 2009 MUTCD

FORMULAS FOR DETERMINING TAPER LENGTHS

SPEED LIMIT (S)	TAPER LENGTH L (FT)
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR MORE	$L = WS$

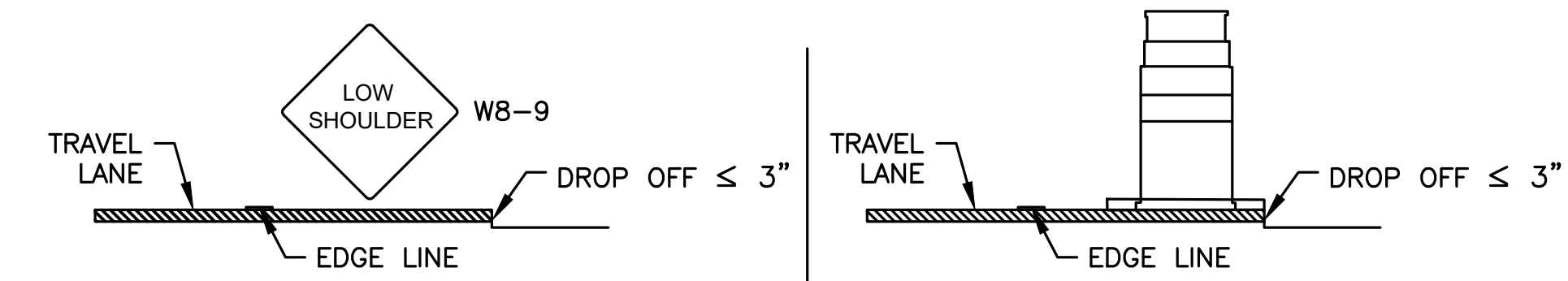
SOURCE: TABLE 6C-4 2009 MUTCD

WORKZONE DISTANCES

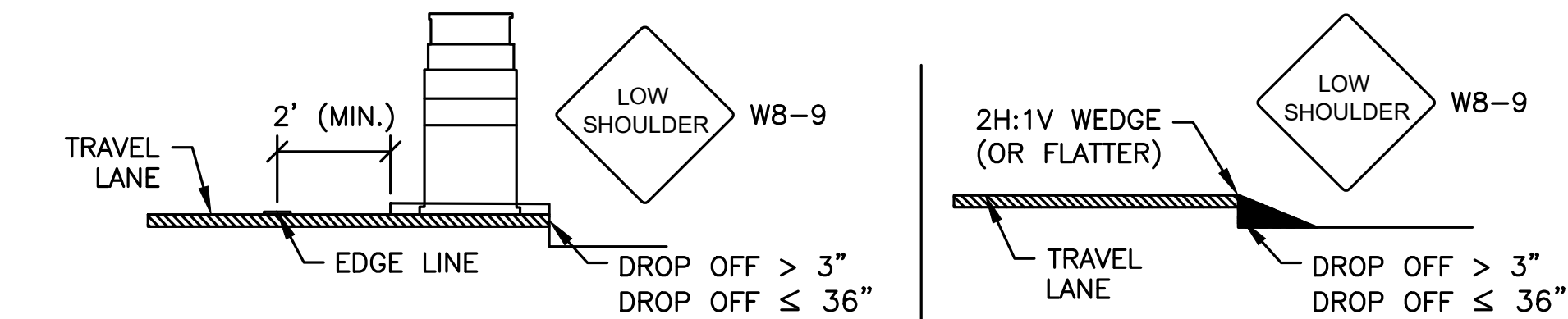
THIS GUIDANCE IS ADOPTED FROM THE ROADSIDE DESIGN GUIDE, 4TH EDITION.

PAVEMENT DROP-OFFS MAY OCCUR DURING PAVING, EXCAVATION, AND OTHER CONSTRUCTION ACTIVITIES. DROP-OFFS CREATE HAZARDS FOR VEHICLES IF NOT PROPERLY MITIGATED. THE FOLLOWING APPLIES FOR ALL ROADS WITH SPEED LIMITS GREATER THAN 30 MPH; FOR ROADS WITH SPEEDS OF 30 MPH OR LESS, TREATMENTS FOR PAVEMENT EDGE DROP-OFFS SHALL BE AT THE DISCRETION OF THE ENGINEER. DROP-OFFS BETWEEN ADJACENT, OPEN TRAVEL LANES SHALL NOT EXCEED 2", AND ANY DROP-OFF IN EXCESS OF 3" SHALL NOT BE LEFT UNATTENDED WITHOUT ONE OF THESE MITIGATION MEASURES APPLIED.

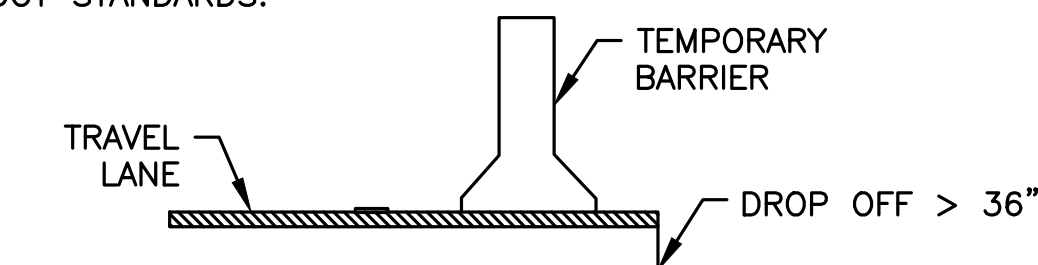
SHOULDER DROP-OFFS 3" OR LESS ADJACENT TO A SHOULDER OR ACTIVE LANE SHOULD BE MITIGATED BY: A W8-9 (LOW SHOULDER) SIGN IN ADVANCE OF AND AT REGULAR INTERVALS THROUGHOUT THE TREATMENT; OR THE PLACEMENT OF DRUMS ON THE TRAFFIC SIDE OF THE DROP OFF.



SHOULDER DROP-OFFS GREATER THAN 3" BUT LESS THAN OR EQUAL TO 36" MUST BE MITIGATED BY: A W8-9 (LOW SHOULDER) SIGN IN ADVANCE OF AND AT REGULAR INTERVALS THROUGHOUT THE TREATMENT AND THE PLACEMENT OF DRUMS ON THE TRAFFIC SIDE OF THE DROP-OFF, OFFSET AT LEAST 2' FROM THE TRAVEL LANE; OR A W8-9 (LOW SHOULDER) SIGN IN ADVANCE OF AND AT REGULAR INTERVALS THROUGHOUT THE TREATMENT AND THE PLACEMENT OF A TEMPORARY WEDGE OF MATERIAL ALONG THE FACE OF THE DROP-OFF. THE WEDGE SHOULD CONSIST OF STABLE MATERIAL PLACED ON A 2H:1V OR FLATTER SLOPE.

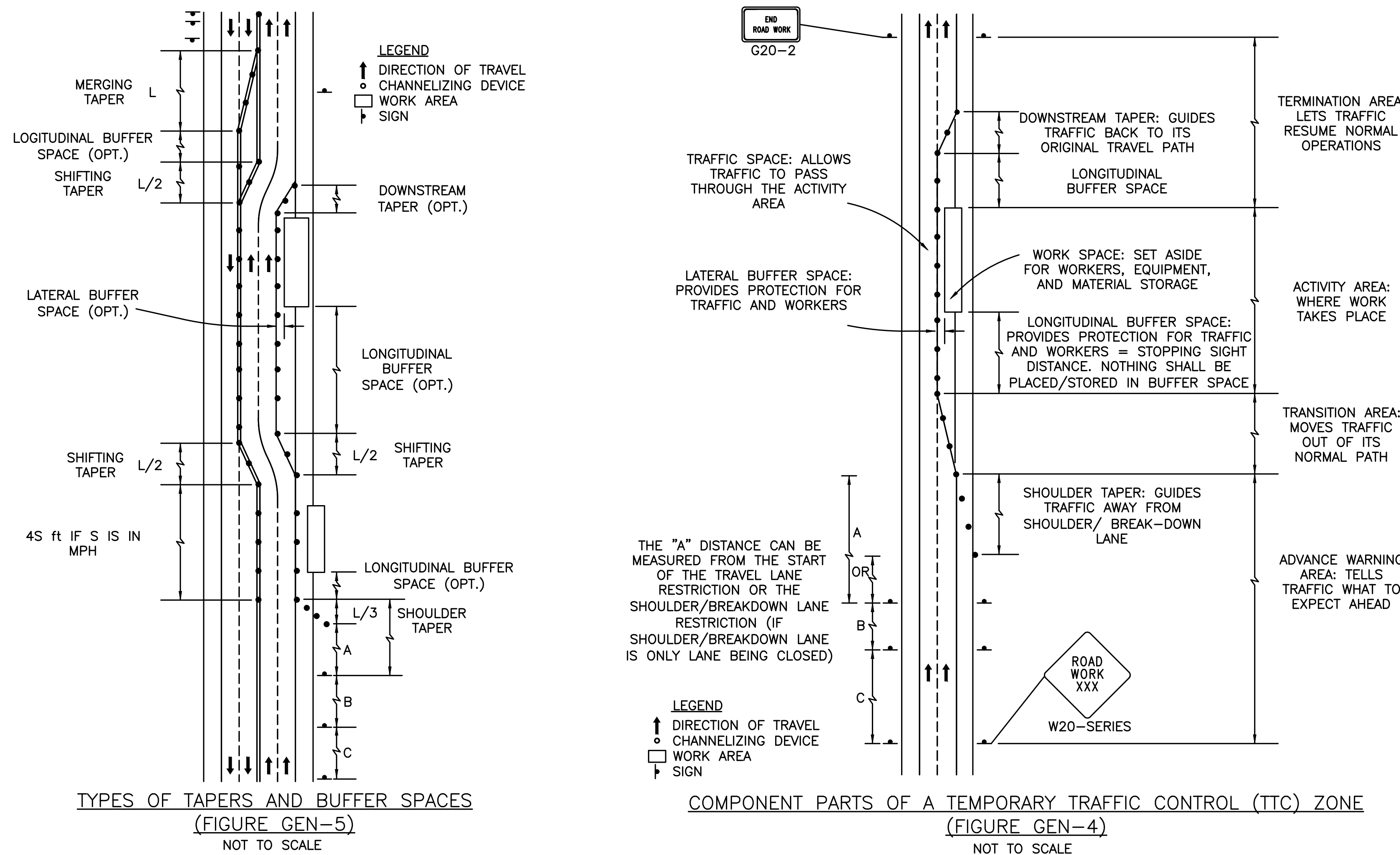


SHOULDER DROP-OFFS GREATER THAN 36" MUST BE PROTECTED BY TEMPORARY BARRIER DESIGNED TO MASSDOT STANDARDS.



SHORT-TERM PAVEMENT EDGE DROP-OFFS
NOT TO SCALE

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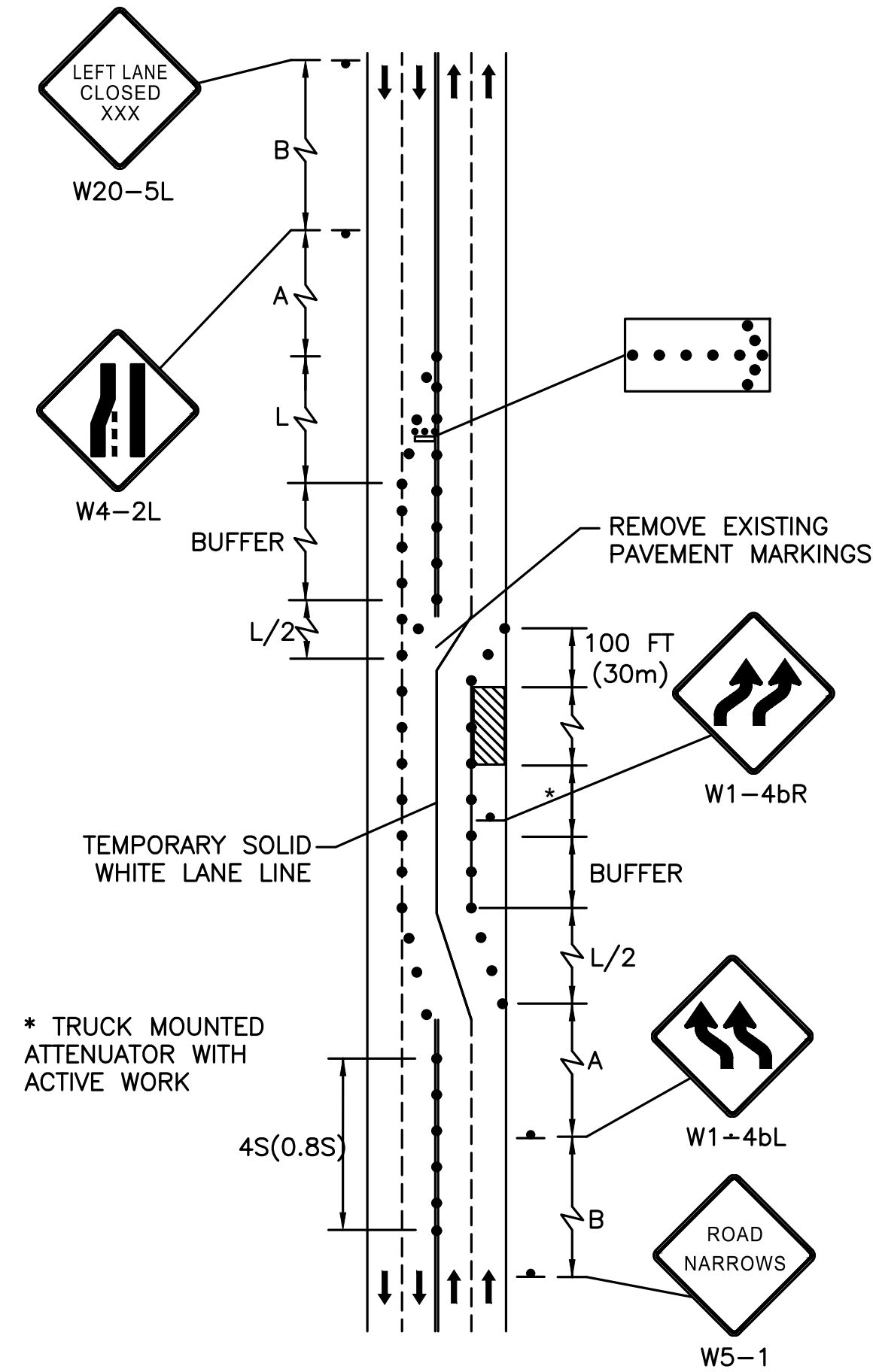


TYPES OF TAPERS AND BUFFER SPACES
(FIGURE GEN-5)
NOT TO SCALE

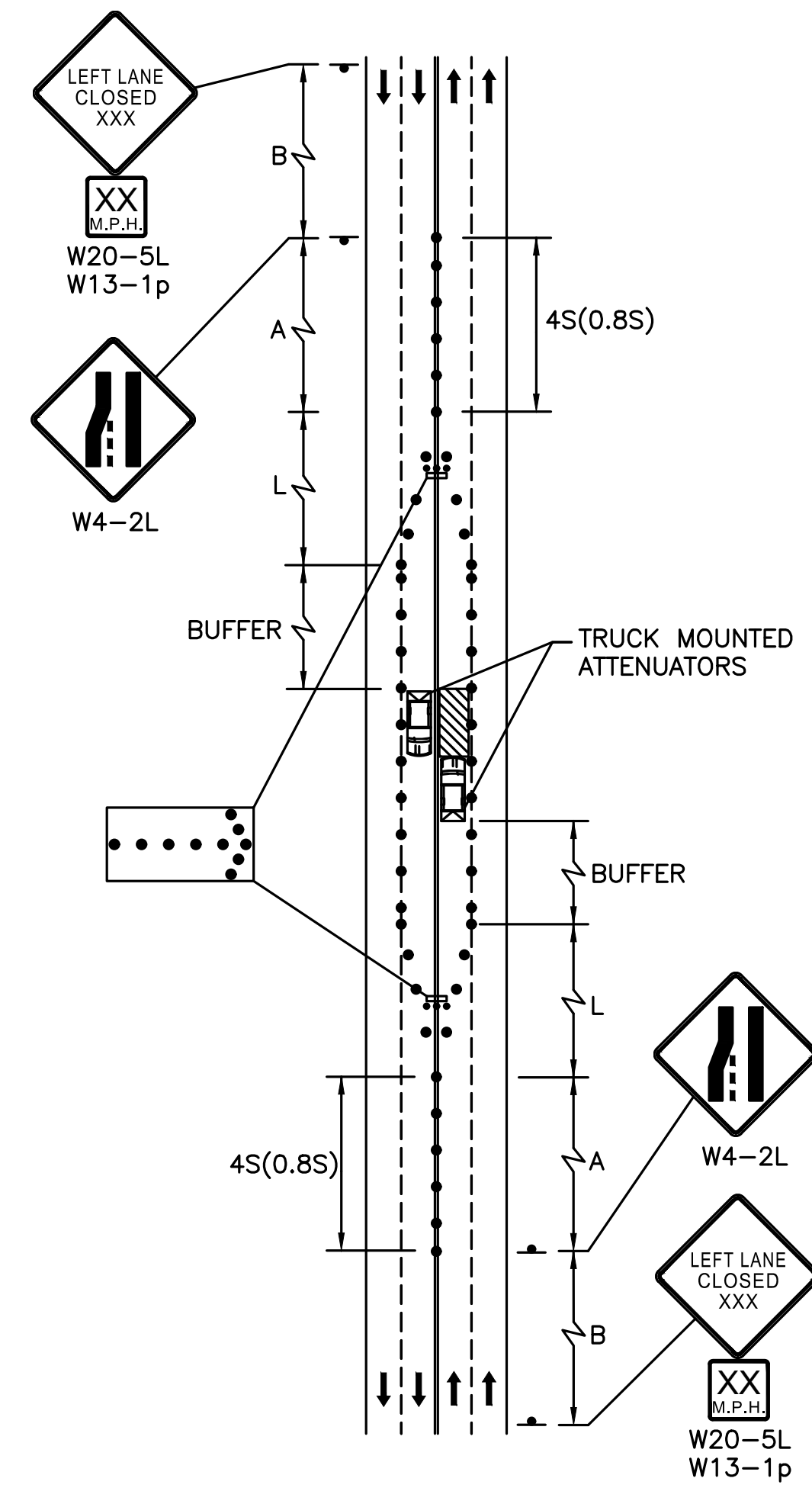
COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL (TTC) ZONE
(FIGURE GEN-4)
NOT TO SCALE

**WASHINGTON STREET PILOT
TTCP DETAILS I
SHEET 1 OF 3**

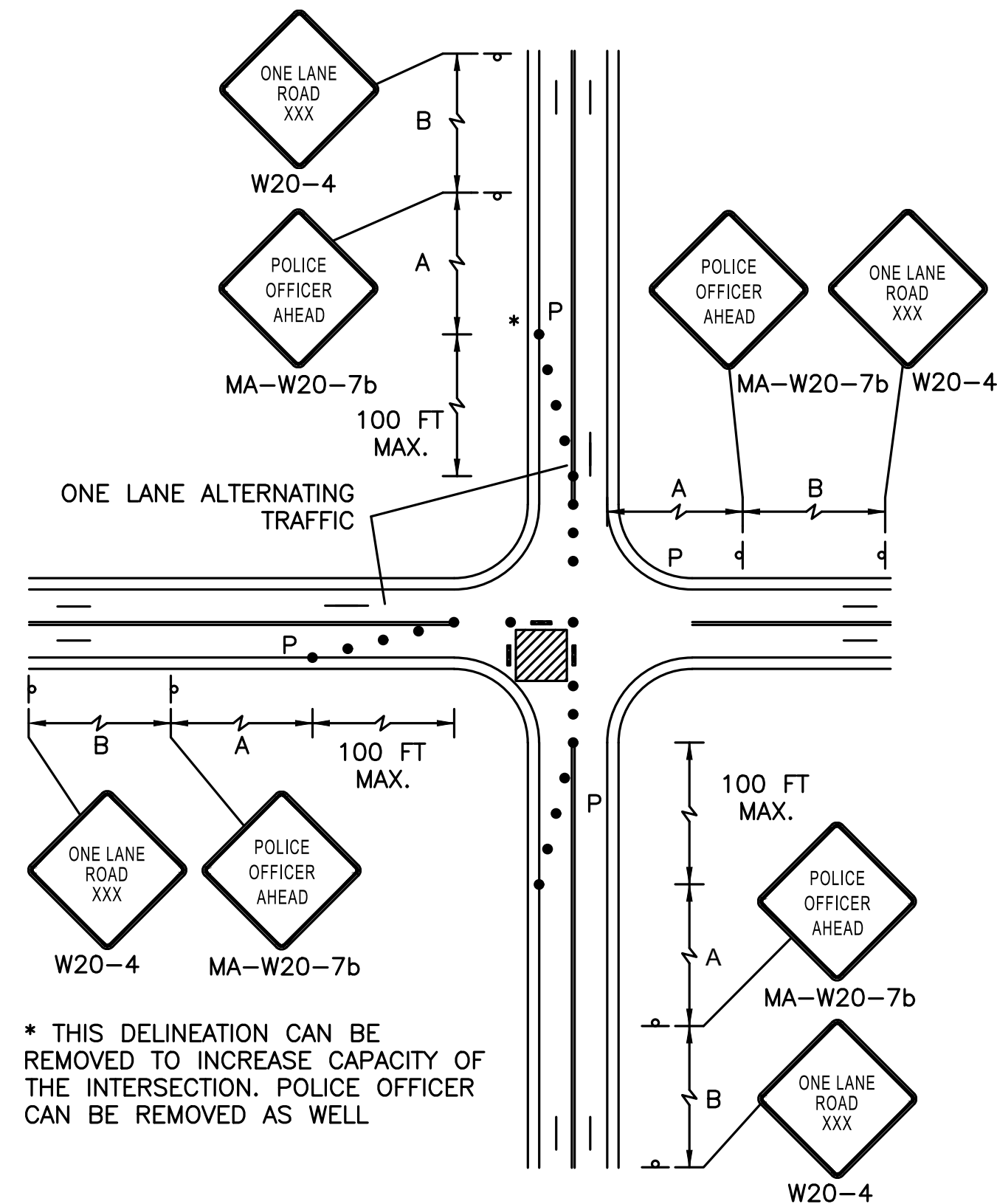
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
2021163.00	09/12/24	SW	RB	RL	41	43



MULTIPLE LANE ROAD INTERIOR LANE CLOSURE W/ UNEVEN VOLUMES
(FIGURE MLR-2)
NOT TO SCALE

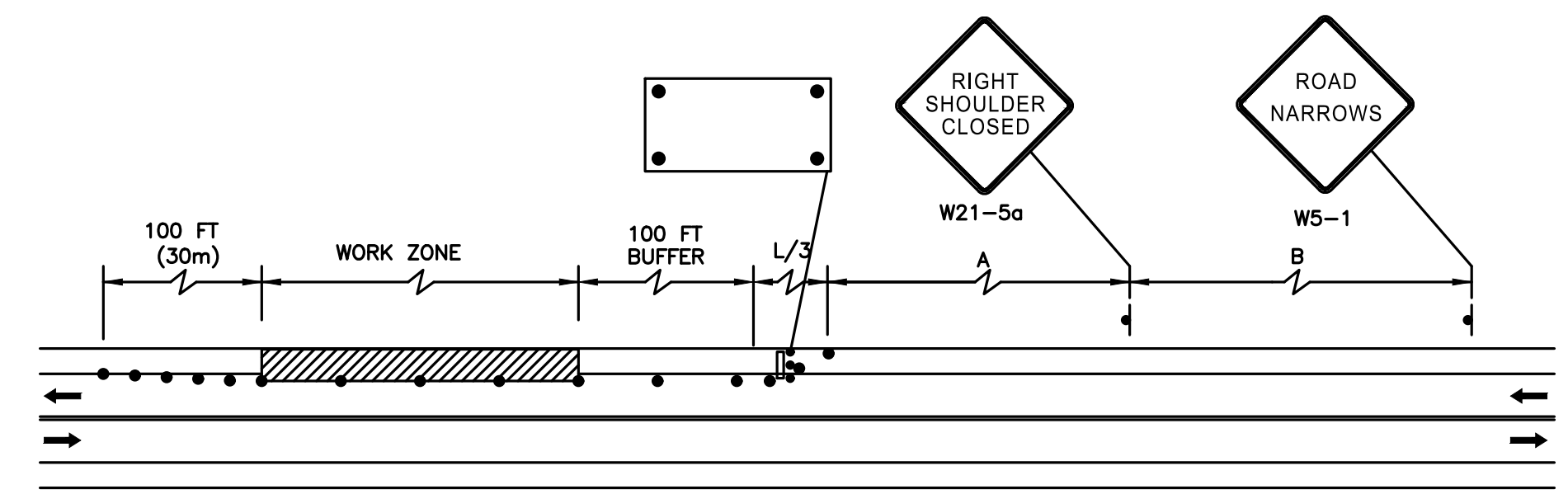


MULTIPLE LANE ROAD INTERIOR LANE CLOSURE
(FIGURE MLR-1)
NOT TO SCALE

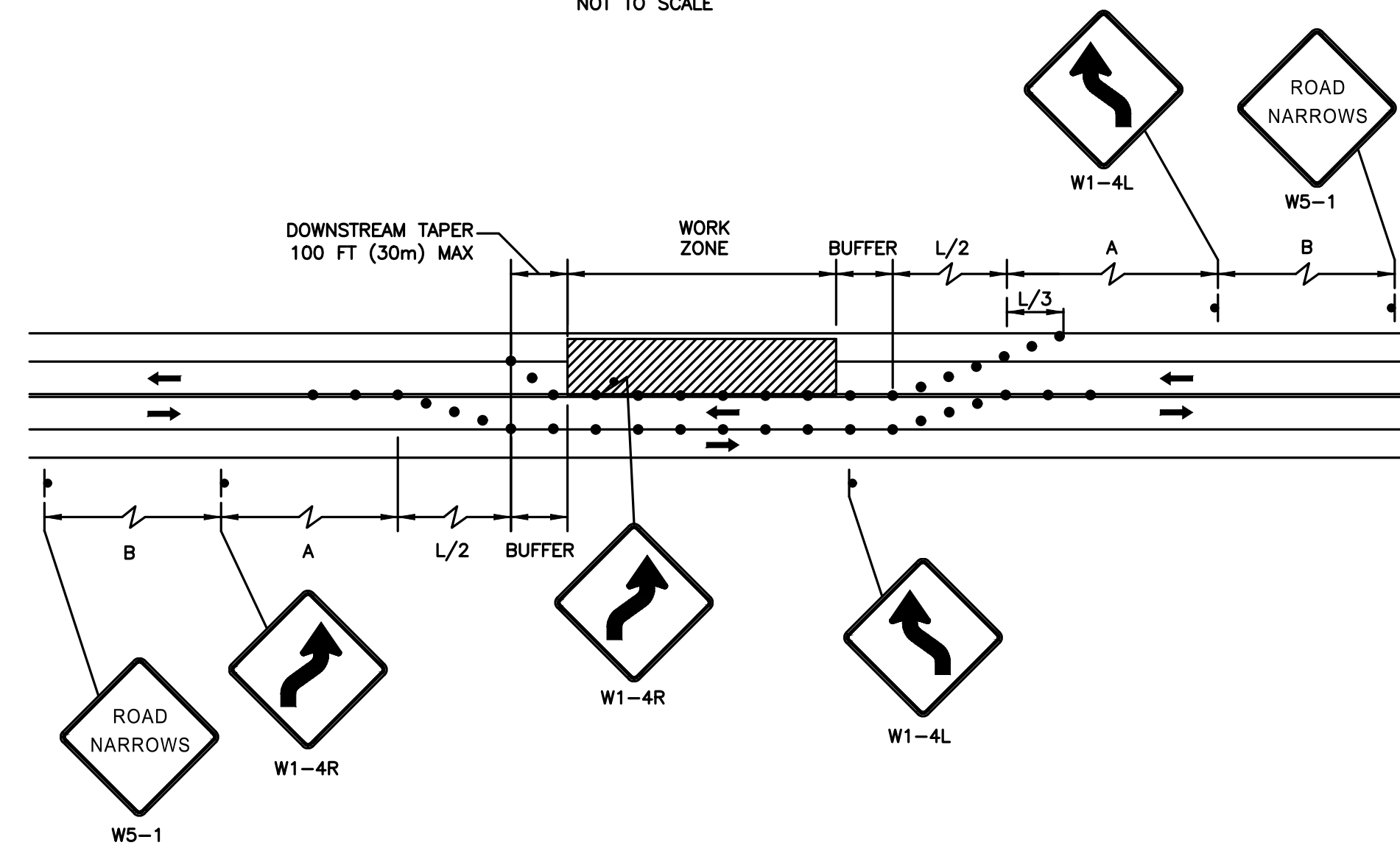


SINGLE LANE APPROACH ONE QUADRANT CLOSURE
(FIGURE INT-2)
NOT TO SCALE

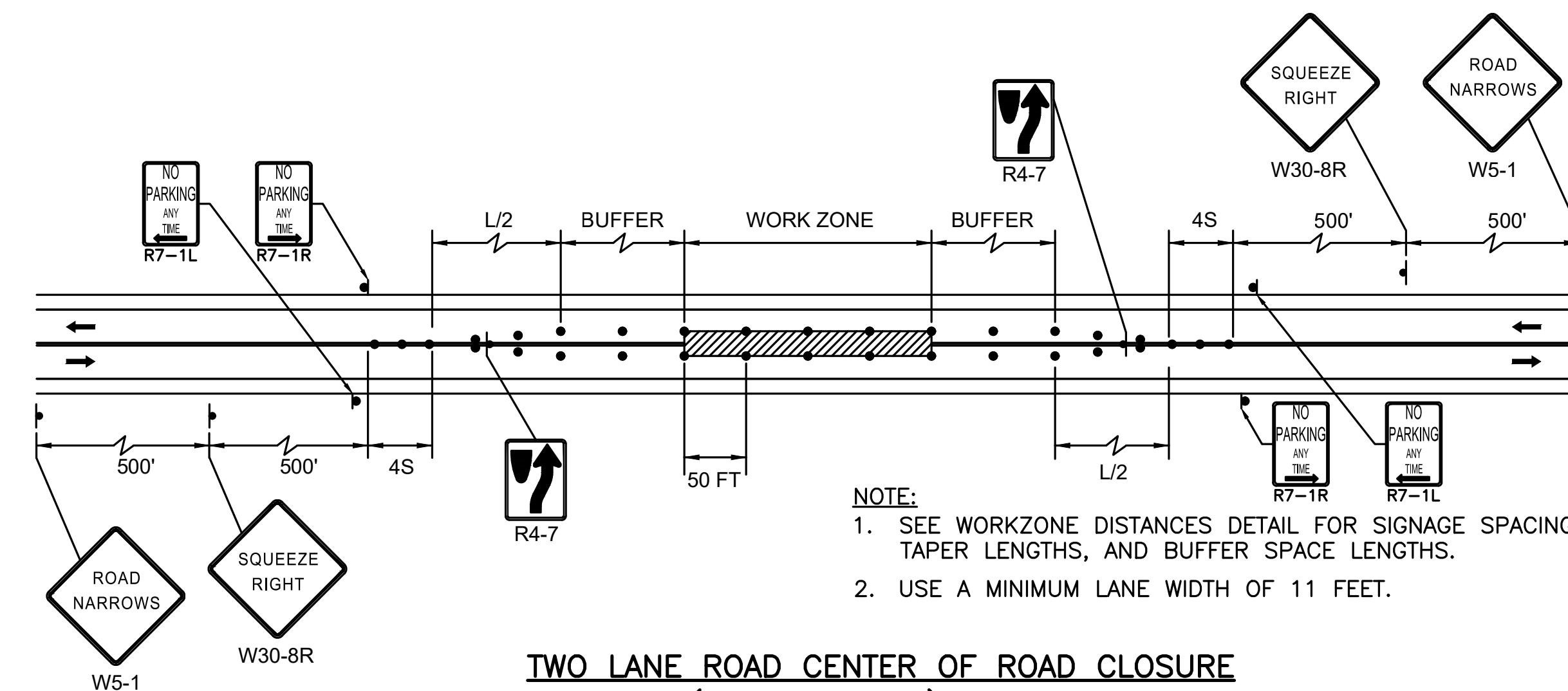
* THIS DELINEATION CAN BE REMOVED TO INCREASE CAPACITY OF THE INTERSECTION. POLICE OFFICER CAN BE REMOVED AS WELL.



TWO LANE ROAD (SHOULDER CLOSED)
(FIGURE TLR-1)
NOT TO SCALE



TWO LANE ROAD (SHOULDER AND TRAVEL LANE CLOSED)
(FIGURE TLR-2)
NOT TO SCALE



TWO LANE ROAD CENTER OF ROAD CLOSURE
(FIGURE TLR-3) - MOD
NOT TO SCALE

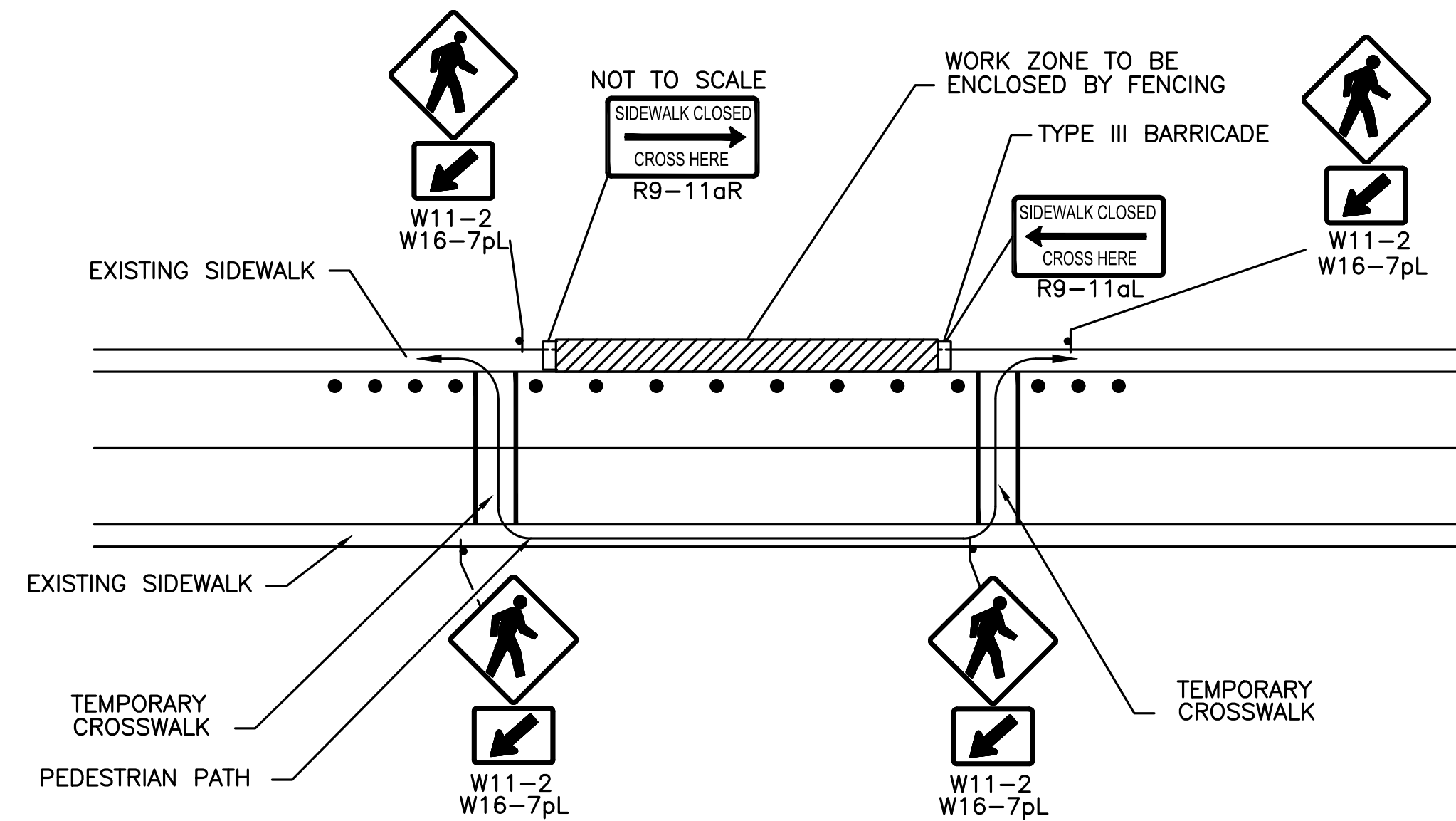
NOTE:
1. SEE WORKZONE DISTANCES DETAIL FOR SIGNAGE SPACING, TAPER LENGTHS, AND BUFFER SPACE LENGTHS.
2. USE A MINIMUM LANE WIDTH OF 11 FEET.



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WASHINGTON STREET PILOT
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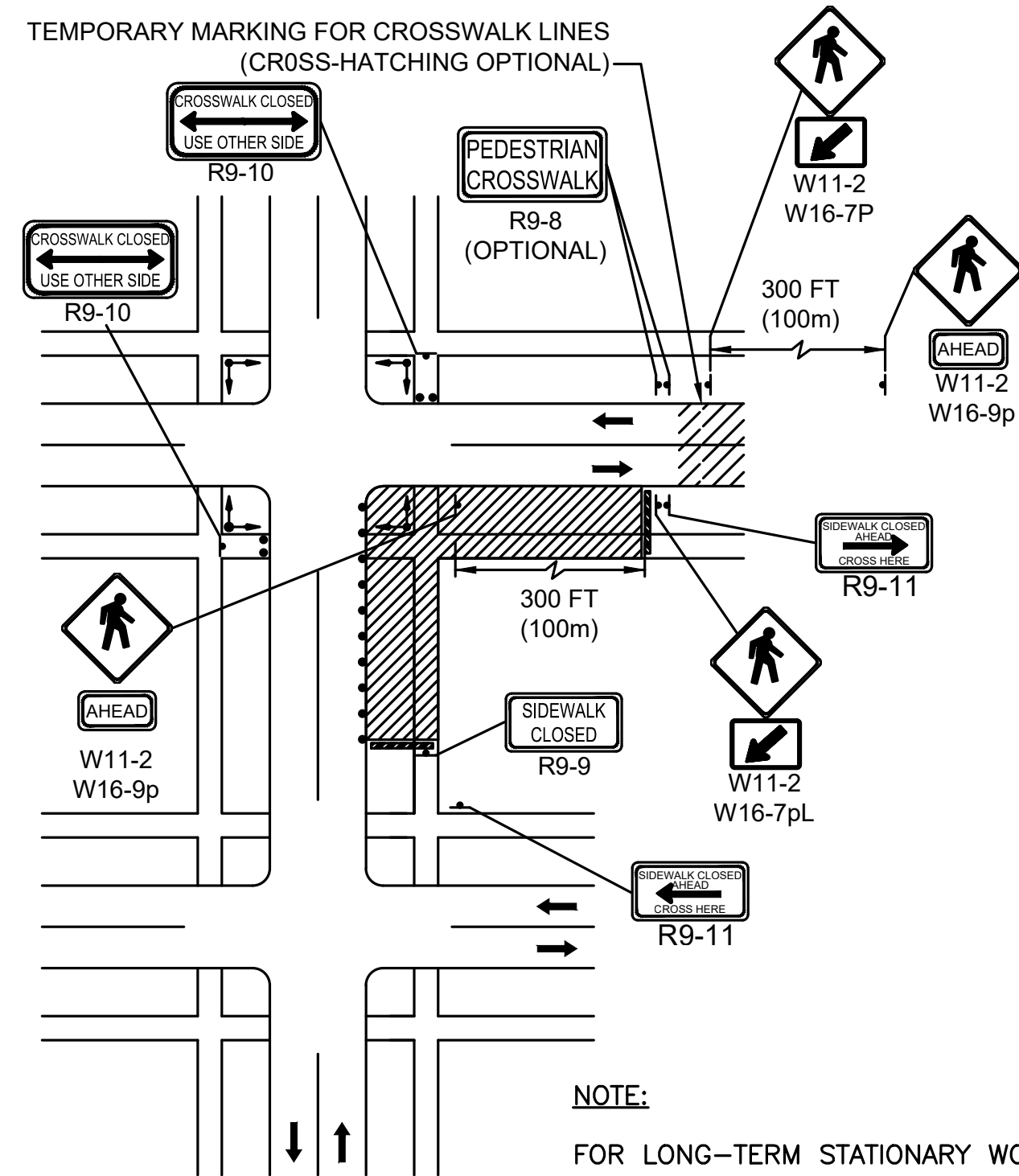
HSH PROJECT NUMBER	DATE	DRAWN BY	CHKD. BY	APPRVD. BY	SHEET NO.	TOTAL SHEETS
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NOTES

1. ADDITIONAL ADVANCE WARNING MAY BE NECESSARY.
2. CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN. VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE.
3. STREET LIGHTING SHOULD BE CONSIDERED WHEN LOCATING CONTROL DEVICES.
4. TEMPORARY CROSSWALKS WITH APPROPRIATE SIGNS SHOULD BE INSTALLED TO CROSS PEDESTRIANS TO THE OPPOSITE SIDE OF THE STREET AS SHOWN IN PEDESTRIAN BYPASS DETAIL, AND AS DIRECTED BY THE ENGINEER. TEMPORARY CURB RAMP WILL BE REQUIRED AT ALL TEMPORARY CROSSWALK LOCATIONS.
5. BYPASS IS TO BE USED IN CONJUNCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DIRECTED BY THE ENGINEER.
6. THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THIS WALKWAY EXCEEDS 200 FEET THEN A 5 FOOT X 5 FOOT PASSING ZONE. (FOR SHORT TERM SETUPS < 10 HOURS, THIS CONDITION MAY BE WAIVED. A NOTE WOULD NEED TO BE INCLUDED IN THE TTCP THAT STATES HOW THE CONTRACTOR SHOULD ADDRESS THIS ISSUE.)

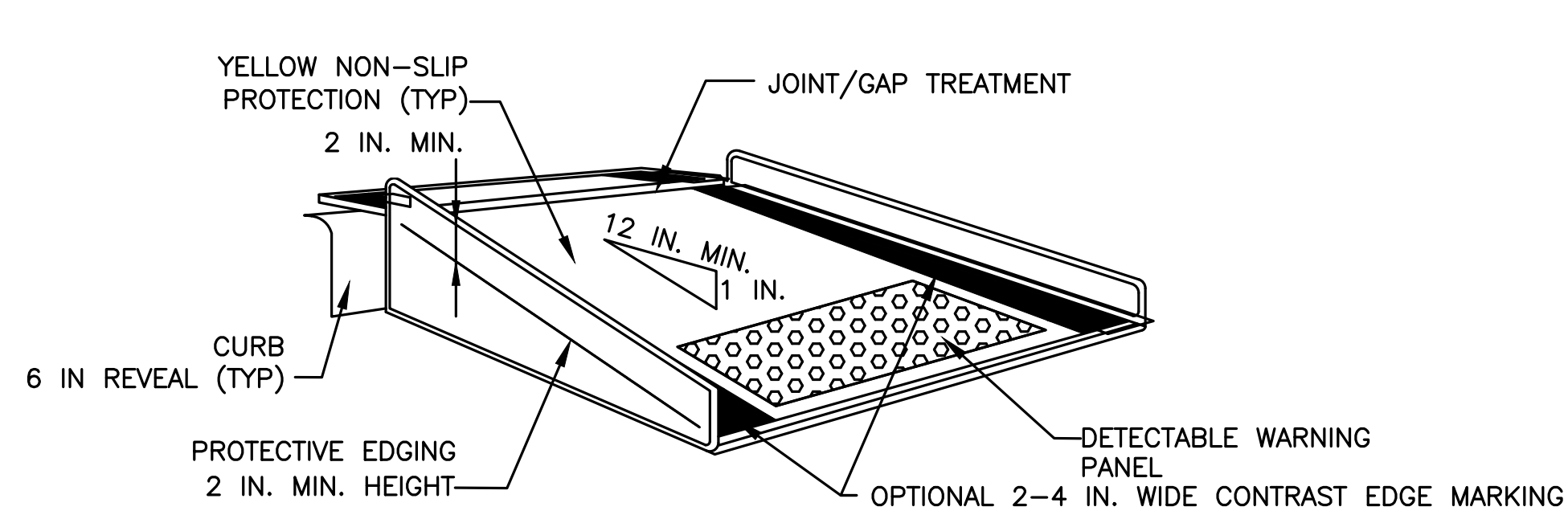
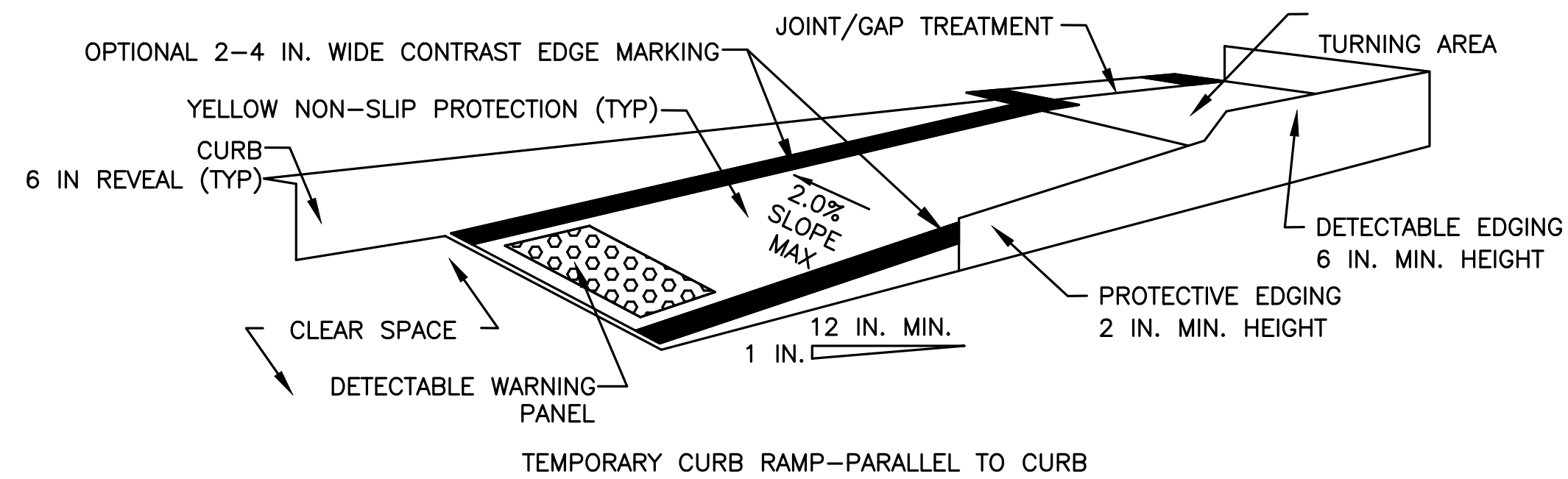
**PEDESTRIAN BYPASS
(FIGURE PED-7)
NOT TO SCALE**



NOTE:

FOR LONG-TERM STATIONARY WORK, THE DOUBLE YELLOW CENTERLINE AND/OR LANE LINES SHOULD BE REMOVED BETWEEN THE CROSSWALK LINES.

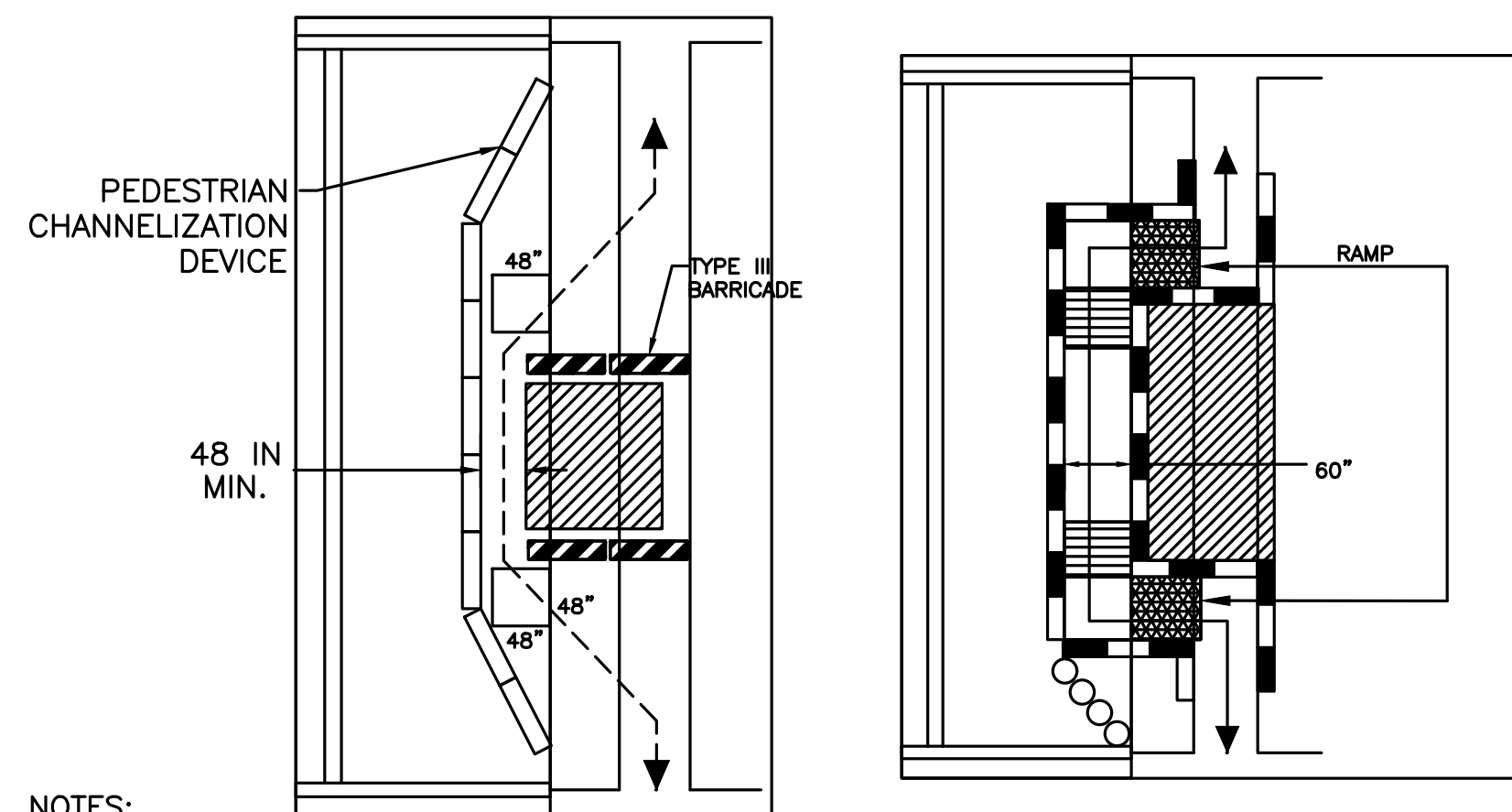
**PEDESTRIAN DETOUR
(FIGURE PED-6)
NOT TO SCALE**



NOTES:

1. CONTRACTOR MAY USE PREFABRICATED RAMP PER APPROVAL OF THE ENGINEER.
2. CURB RAMP SHALL BE 60 IN. MINIMUM WIDTH WITH A FIRM, STABLE, AND NON-SLIP SURFACE.
3. PROTECTIVE EDGING WITH A 2 IN. MINIMUM HEIGHT SHALL BE INSTALLED WHEN THE CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6 IN. OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN THE CURB RAMP OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3 IN. OR MORE.
4. PROTECTABLE EDGING WITH 6 IN. MINIMUM HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
5. THE CURB RAMP WALKWAY AND LANDING AREA SURFACE SHALL BE OF A SOLID CONTINUOUS CONTRASTING COLOR ABUTTING UP TO THE EXISTING SIDEWALK.
6. CURB RAMP AND LANDINGS SHOULD HAVE A 1:50 (2%) MAX CROSS-SLOPE.
7. CLEAR SPACE OF 48x48 IN. MINIMUM SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
8. WATER FLOW IN THE GUTTER SYSTEM SHALL HAVE MINIMAL RESTRICTION.
9. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 0.5 IN. WIDTH.
10. CHANGES BETWEEN SURFACE HEIGHTS SHOULD NOT EXCEED 0.5 IN. LATERAL EDGES SHOULD BE VERTICAL UP TO 0.25 IN. HIGH, AND BEVELED AT 1:2 BETWEEN 0.25 IN. AND 0.5 IN. HEIGHT.
11. IF A TEMPORARY PEDESTRIAN RAMP LEADS TO A CROSSWALK, THEN A DETECTABLE WARNING PAD MUST BE ADHERED TO THE BASE OF THE RAMP. IF IT LEADS TO A PROTECTED PEDESTRIAN BYPASS THAT DOES NOT CONFLICT WITH VEHICULAR TRAFFIC, THEN A PAD SHALL NOT BE INSTALLED ON THE RAMP.

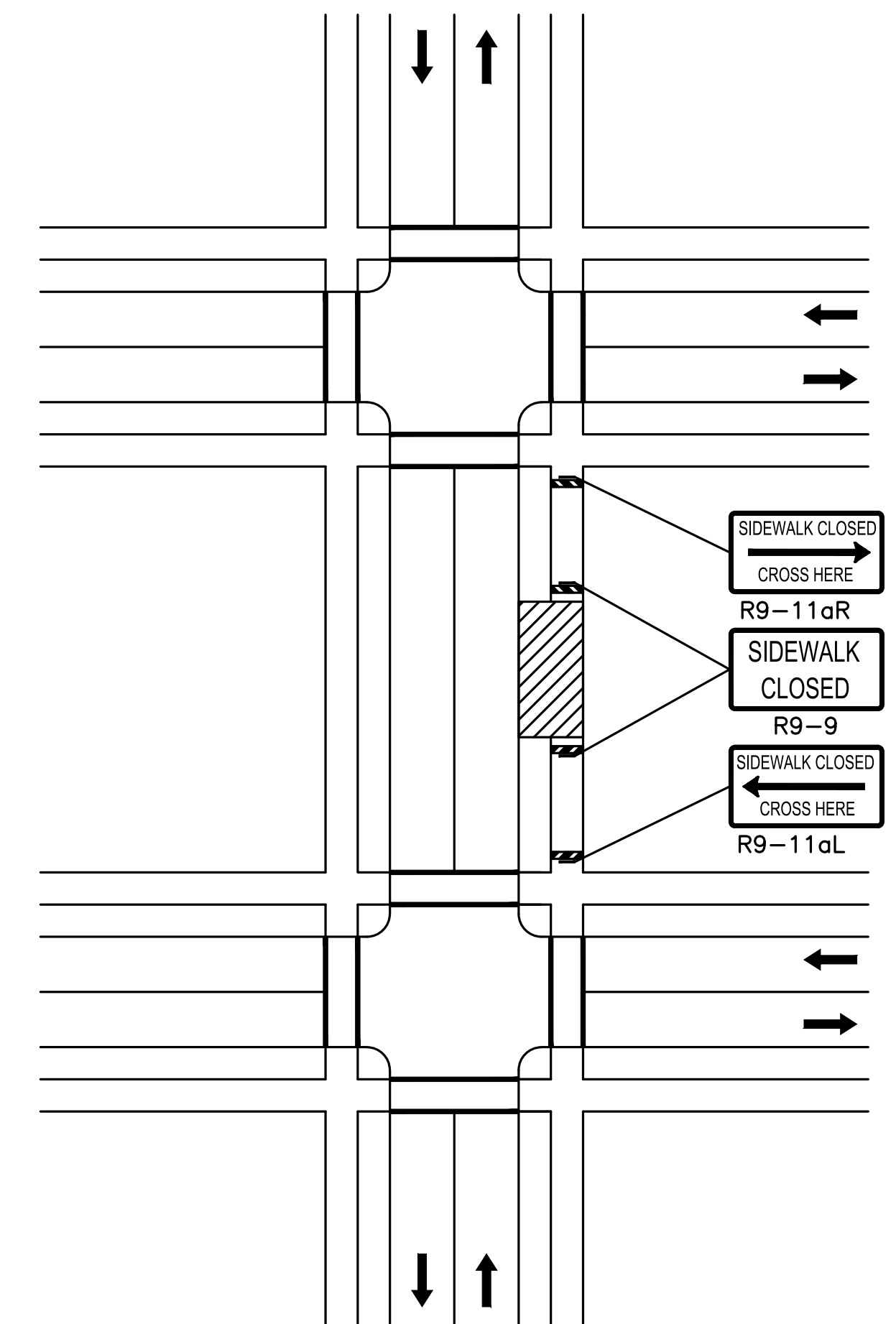
**PEDESTRIAN DETAILS
(FIGURE PED-1)
NOT TO SCALE**



NOTES:

1. WHEN EXISTING PEDESTRIAN FACILITIES ARE DISRUPTED, CLOSED, OR RELOCATED IN A TTC ZONE, TEMPORARY FACILITIES SHALL BE PROVIDED AND THEY SHALL BE DETECTABLE AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH THE FEATURES PRESENT IN THE EXISTING PEDESTRIAN FACILITY.
2. A PEDESTRIAN CHANNELIZATION DEVICE THAT IS DETECTABLE BY A PERSON WITH A VISUAL DISABILITY TRAVELING WITH THE AID OF A LONG CANE SHALL BE PLACED ALONG THE FULL LENGTH OF THE TEMPORARY PEDESTRIAN ROUTE.
3. WHEN USED, TEMPORARY RAMPS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT.
4. THE ALTERNATE PATHWAY SHOULD HAVE A SMOOTH CONTINUOUS HARD SURFACE FOR THE ENTIRE LENGTH OF THE TEMPORARY PEDESTRIAN FACILITY.
5. THE TEMPORARY SIDEWALK SHOULD BE A MINIMUM OF 4 FEET WIDE. IF THE SIDEWALK EXCEEDS 200 FEET THEN A 5 FOOT BY 5 FOOT PASSING ZONE SHALL BE PROVIDED NEAR THE MID-POINT OF THE CLOSURE.
6. THE PROTECTIVE REQUIREMENTS OF A TTC WORK ZONE MAY HAVE AN IMPACT IN DETERMINING THE NEED FOR TEMPORARY TRAFFIC BARRIERS AND THEIR USE IN PROVIDING PEDESTRIAN DELINEATION SHOULD BE BASED ON ENGINEERING JUDGMENT.
7. ON-DEMAND PEDESTRIAN ASSISTANCE PERSONNEL TO ASSIST WITH NAVIGATION AROUND THE CLOSURE/WORK AREA MAY BE CONSIDERED AS AN OPTION IN PLACE OF PROVIDING ADA/AAAB DEVICES FOR WORK FOR CLOSURES LASTING 4 HOURS OR LESS.
8. CONTROLS ONLY FOR PEDESTRIAN TRAFFIC ARE SHOWN; VEHICULAR TRAFFIC SHOULD BE HANDLED AS SHOWN ELSEWHERE. THESE DETAILS ARE USED IN CONJUNCTION WITH THE PROPOSED LANE CLOSURE DETAILS AND DURING CONSTRUCTION STAGING, AS DETERMINED BY THE ENGINEER.

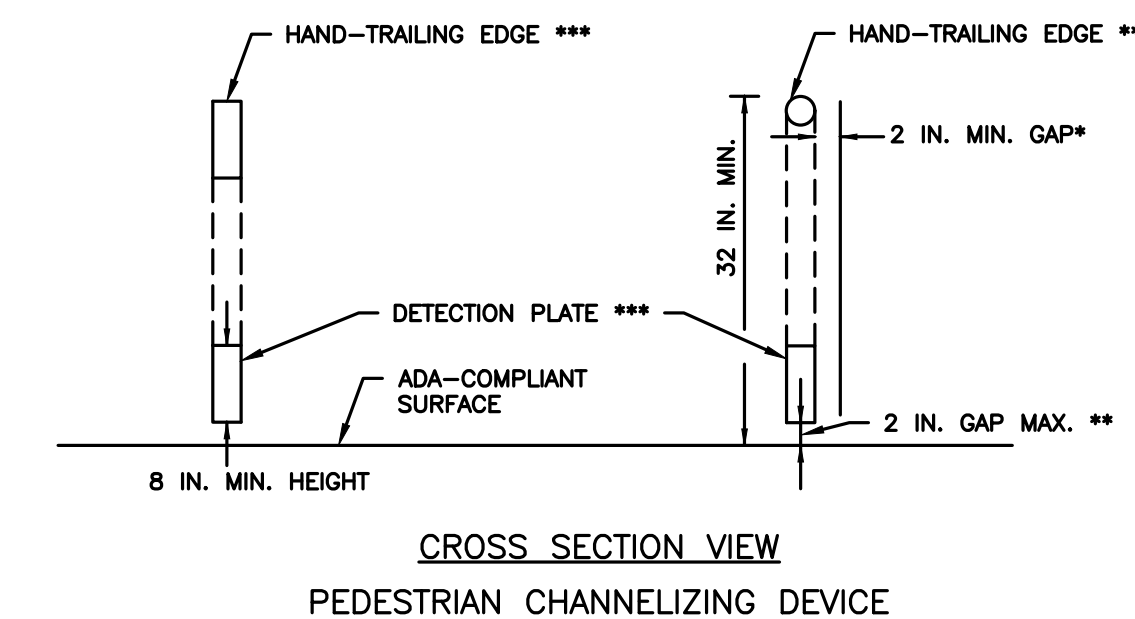
**PEDESTRIAN DETAILS
(FIGURE PED-3)
NOT TO SCALE**



NOTE:

IF A MINIMUM WIDTH OF 48" OF SOLID SMOOTH UNOBSTRUCTED SURFACE REMAINS ALONG THE WORK AREA THEN THE DETAIL CAN BE DISREGARDED. DELINEATION OF THE WORK AREA WILL STILL BE REQUIRED. ALL PEDESTRIAN DETOUR ROUTES SHALL BE ADA/MAAB COMPLIANT IN THEIR ENTIRETY.

**SIDEWALK CLOSED WITHOUT DETOUR
(FIGURE PED-5)
NOT TO SCALE**



NOTES:

- * THERE SHALL BE A 2 INCH GAP BETWEEN THE HAND-TRAILING EDGE AND ITS SUPPORT.
- ** A MAXIMUM 2 INCH GAP BETWEEN THE BOTTOM OF THE BOTTOM RAIL AND THE SURFACE MAY BE USED TO PROVIDE DRAINAGE.
- *** THE HAND-TRAILING EDGE AND DETECTION PLATE SHALL BE CONTINUOUS THROUGHOUT THE LENGTH OF THE PATH SUCH THAT A PEDESTRIAN USER WITH A LONG CANE CAN FOLLOW IT.

**PEDESTRIAN DETAILS
(FIGURE PED-4)
NOT TO SCALE**

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**WASHINGTON STREET PILOT
TTCP DETAILS III
SHEET 3 OF 3**

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2021163.00	09/12/24	SW	RB	RL	43	43